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Product Selection Guide EDITION 8

You'll Know Us by Our Brands.



Lithonia Lighting is the largest manufacturer of lighting equipment for commercial, industrial, outdoor and residential applications. Lithonia Lighting offers thousands of products that are preferred by lighting professionals and end users throughout North America and the world. The Best Value in Lighting.



From its origin in New York City in 1938, Gotham has developed lighting products that enhance the appearance of modern spaces. The company's focus on architectural integration, optical performance, reliability and innovative manufacturing processes has made Gotham one of the most respected names in architectural recessed lighting.



PEERLESS

Peerless luminaires please the senses and complement the surrounding architecture with elegantly proportioned, tastefully detailed forms, using advanced materials and manufacturing techniques to set the standard for fit, finish and construction quality. An array of singular designs – merge with high-performance optics.



HYDREL

Hydrel is the industry's premier brand of specification grade architectural and landscape lighting products, offering a comprehensive line of high quality outdoor luminaires for flood, area, accent, border, underwater and in-grade lighting applications. Hydrel's lighting solutions are driven by advanced engineering and a variety of optical distributions.

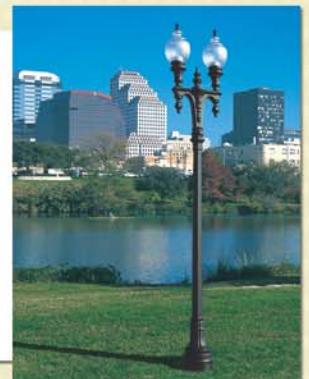


SpecLight. Specialty fluorescent luminaires for commercial, industrial and institutional facilities featuring the latest in lamp and ballast technology and high-performance optics. Custom and modified product capability manufactured with CNC machinery to meet the most discriminating specification. What can we build for you?



ANTIQUA Street Lamps

Antique Street Lamps markets the largest offering of outdoor decorative lighting products available in the market today, in both traditional and contemporary designs. Products include historically-styled lighting posts, post top luminaires, contemporary posts and fixtures, roadway and traffic signal posts, and bollards and accessories.



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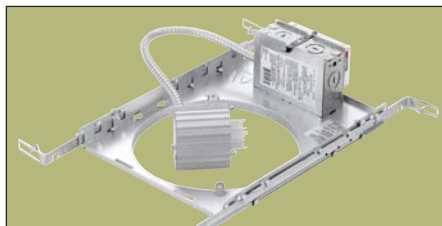
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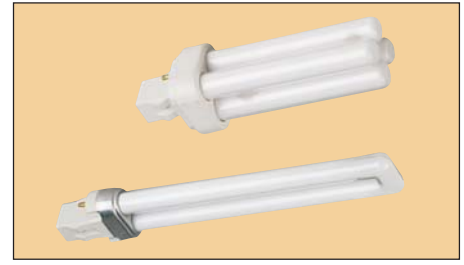
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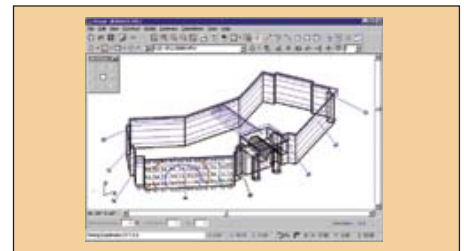
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Acuity Brands Lighting Group



Worldwide Headquarters, Conyers, Georgia

The Acuity Brands Lighting Group is the world's largest manufacturer of lighting fixtures for many reasons: superior value, the broadest product offerings, competitive pricing, outstanding logistics and the strongest sales and distribution network in the industry. Products include indoor and outdoor lighting for commercial, institutional, industrial, infrastructure and residential applications. Products are manufactured worldwide and supplied through strategically located distribution centers. Acuity Brands Lighting operates the most advanced supply chain management and sales fulfillment processes in the industry.

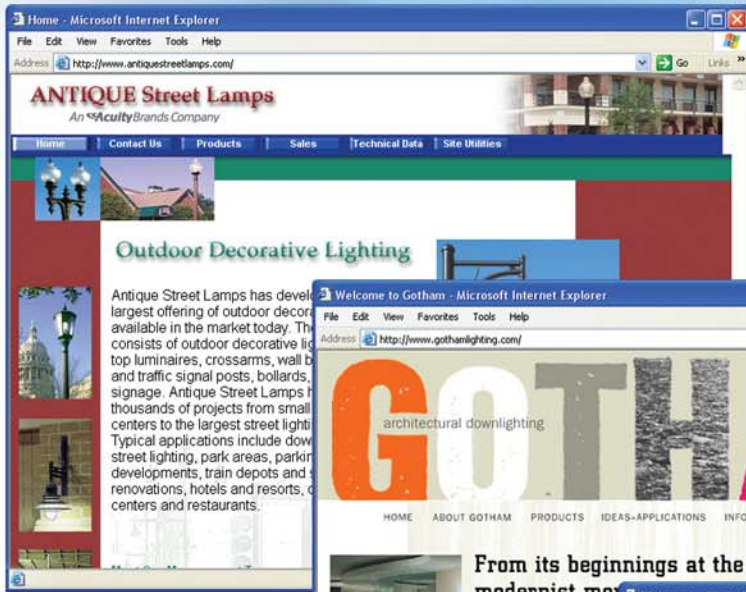


Acuity Brands, Inc. (NYSE: AYI), located in Atlanta with annual sales of approximately \$2.0 billion, is comprised of Acuity Lighting Group and Acuity Specialty Products Group. Acuity Lighting Group is the world's leading lighting fixture manufacturer and includes brands such as

Lithonia Lighting[®], Peerless[®], Hydrel[®], Gotham[®], Antique Street Lamps[™], Speclight[®], Holophane[®] and American Electric Lighting[®].

Acuity Specialty Products Group is a leading provider of specialty chemicals and includes brands such as Zep[®], Enforcer[®] and Selig[™].

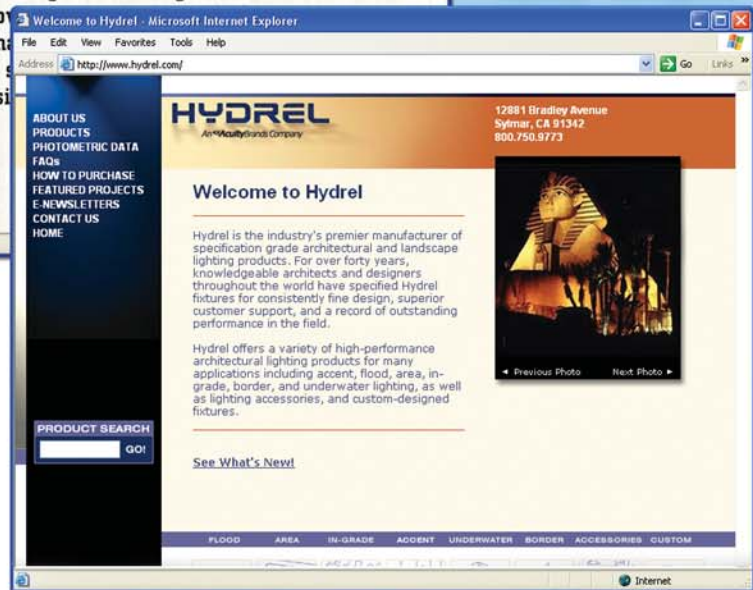
Acuity Brands Lighting...



www.AntiqueStreetLamps.com complete information about traditional products, plus innovative new Eurotique and Dark Skies-compliant products.



www.gothamlighting.com outlines the Gotham tradition of partnering with designers and architects to light today's spaces with products of the highest optical performance, aesthetics and quality.



www.hydel.com contains complete information about Hydrel's high-performance products, along with application photos of high-profile projects.

PSG8 Keyword Search

 [Advanced](#)

Find it Fast! Our new **keyword search** links every product family in this catalog directly to an online page that provides additional information about the product.

complete information online.



fit the need. Specialty illumination—but never thought you could expect loglams in design and manufacturing when or custom photometric distributions. You ment is only available through large. e to change your expectations forever. At our y in Austin, Texas we're dedicated to a single om-designed lighting solutions. We engineer hly, at small-company speed—but with the delivery of a large lighting company.

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www.peerless-lighting.com offers the latest lighting research and products from Peerless to support the need of designers and architects for well-designed indirect lighting.



www.lithonia.com features a complete online catalog, plus online design guides for industrial lighting, school projects, sports fields and floodlighting.

www.AcuityBrandsLighting.com is the online home for the world's largest manufacturer of lighting fixtures. The site supports our efforts to provide superior value, the broadest product offerings, competitive pricing, outstanding logistics and the strongest sales and distribution network in the industry.

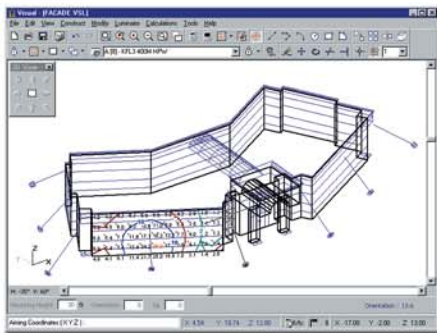


ELECTRONIC TOOLS



Visual is a collection of lighting calculation tools and powerful 3D modeling software engineered to simplify the design process and provide a comprehensive analysis for advanced lighting projects.

The *Professional Edition* accommodates lighting designs for exterior applications and complex interior applications with irregular geometry, sloped surfaces or obstructions within the space.



The *Basic Edition* incorporates the *Lumen Method Tool* to quickly design and analyze simple interior lighting to produce uniform horizontal illuminance.

The *Roadway Lighting Tool* is for the development, analysis and documentation of roadway lighting designs.

For more information or to download the Visual lighting design software, go to www.VisualLightingSoftware.com



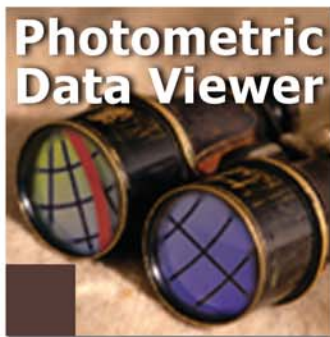
The **Lithonia Lighting Reference Library** on www.lithonia.com provides a comprehensive variety of useful information and tools. The Library includes case studies and application design guides. Technical data such as IESNA formatted photometric data and 3D Studio Viz files are available to use with lighting application software. The Library also provides access to electronic submittal sheets, allowing you to view, print or fax submittals directly from your computer. Electronic submittal sheets also can include a custom job stamp for entering ordering and job information. The Library also contains a graphic library for product images

and logos. A lighting glossary also is included in the Library to help explain lighting and industry terminology.

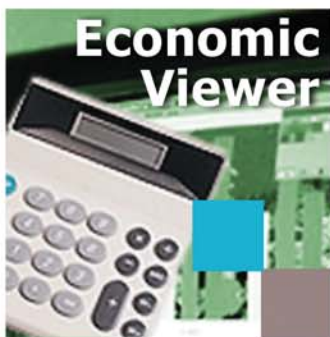
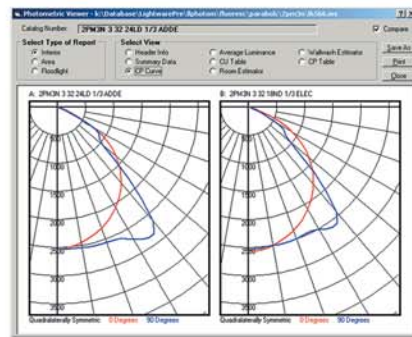
The Library is conveniently organized to provide the information you need.



School Lighting Design Guide



The **Photometric Viewer** software program allows you to view or print full photometric reports. This tool makes it easy and convenient to analyze the performance and distribution of lighting products. Two different photometrics reports can be viewed side-by-side for quick and easy comparison. Photometric Viewer displays data and generates reports in three different formats: interior, area and floodlight. The Photometric Viewer also can be used to generate outdoor templates and print them to scale. www.lithonia.com/software



The **Economic Viewer** software allows you to analyze simple financial comparisons between lighting alternatives. Whether investigating the economics of a renovation project or deciding between several options in new construction, the Economic Viewer considers both initial and annual costs to determine payback periods and internal rate of return.

Comparing up to five lighting systems simultaneously, the Economic Viewer also will provide graphical comparisons of accumulated costs over the life of the system in present-day dollars. Likewise, it will perform variance analysis, allowing the user to see the effect of changes in variables such as the cost of electricity on other parameters such as payback period. www.lithonia.com/software



Pulse Start H.I.D. Ballast/Lamp Systems

The **Pulse Start Calculator** allows you to compare a Probe Start HID system with a Pulse Start HID Ballast/Lamp System based on energy savings. This simple calculation spreadsheet shows the potential savings of the Pulse Start HID technology and calculates a simple payback period. This tool can be downloaded directly from the Industrial Design Guide contained in the online Lithonia Lighting Reference Library. www.lithonia.com/PulseStart



The **KiloWatch Calculator** provides the ability to evaluate energy savings for HID lighting when using a multi-level control system. The KiloWatch system allows you to have light when you need it...and save energy when you don't. KiloWatch systems can reduce lighting power cost by up to 40%. The KiloWatch Calculator lets you define the type of lighting system, hours of operation, occupancy rate and energy rate for a specific lighting application. The Calculator determines the annual energy savings when using the KiloWatch control system. www.lithonia.com/Kilowatch

FLUORESCENT

Fluorescent

Lithonia Lighting manufactures the broadest and most complete selection of fluorescent products in the industry for commercial, institutional and industrial applications.

Lithonia fluorescent fixtures incorporate the latest in energy-saving lamp and ballast technology. This provides the assurance of high-quality products that meet your budget requirements – and are delivered on time. Every fixture is backed by Lithonia's complete resources in technical service and support.





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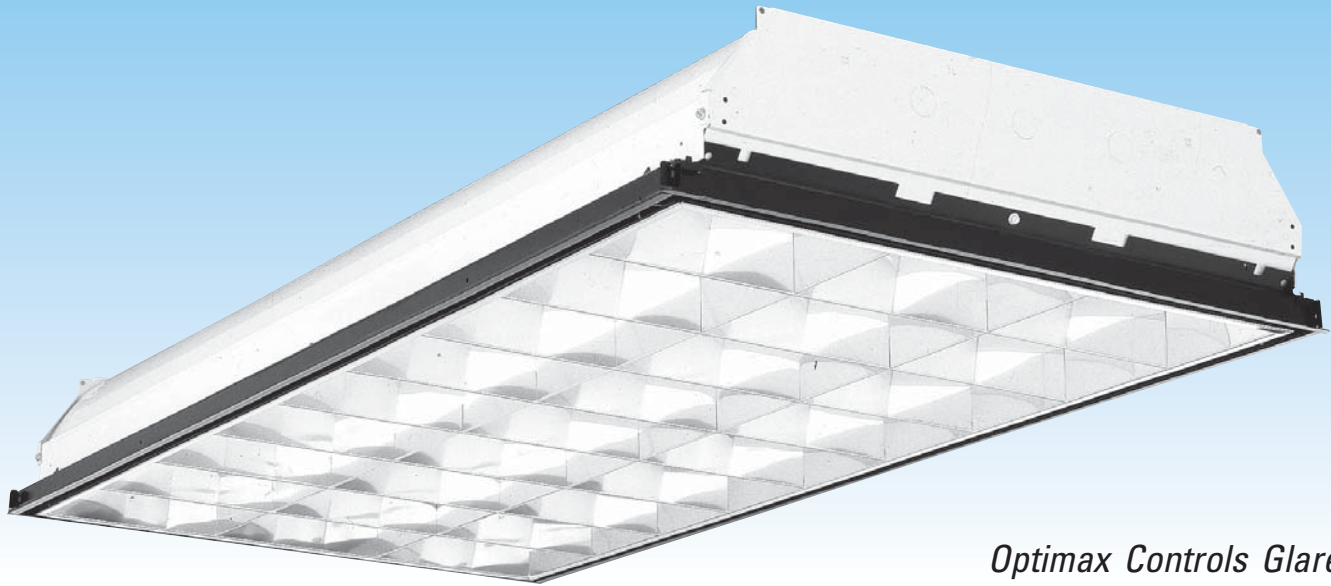
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Optimax[®]

Light Control System



The Office Lighting Challenge

The greatest challenge in lighting today's modern workplace is to create an environment that is *safe* and *comfortable* and *maximizes worker productivity*. This task becomes increasingly more difficult as the number of video display terminals in the workplace continues to rise.

Reflections from overhead lighting create a glare on VDT screens that can blur text or graphics, increase the number of errors and decrease worker productiv-

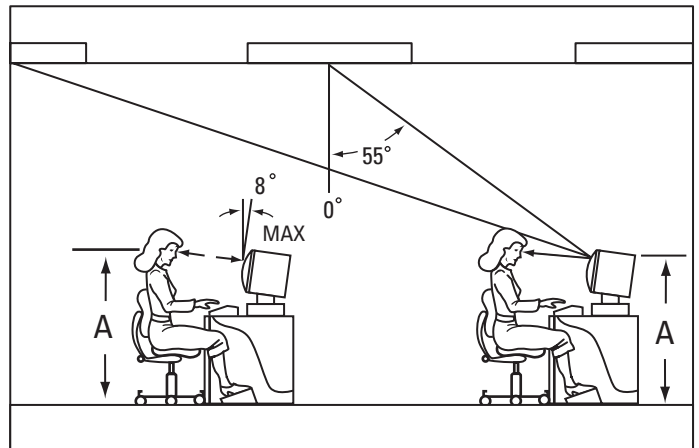
ity. More importantly, reflected screen glare is a proven cause of eyestrain, irritability, fatigue and longer-term health problems.

Traditional lighting systems may no longer provide appropriate solutions because they cannot properly control reflected glare. With the unique Optimax Light Control System from Lithonia Lighting, designers finally have a solution to this lighting challenge.

Optimax Controls Glare

Optimax is a fluorescent lighting system that eliminates objectionable VDT screen glare* caused by luminaire reflections. The key to Optimax performance is the combination of an optimum shielding design that controls light at glare-producing angles and precise optical assemblies made of specially formulated, low iridescent, highly specular anodized aluminum.

As a result, Optimax encourages productivity by eliminating the reflected luminaire screen glare that workers find uncomfortable and irritating.



* Optimax effectively controls reflected glare in all workstations that meet ANSI/HFS Standard No. 100-1988 for operator and VDT positions. All Optimax fixtures meet criteria established by the lighting industry for fixture brightness in VDT applications, including IES RP-1.

The Optimax Solution

Optimax is a unique recessed fluorescent lighting system that meets the three basic lighting design requirements of the electronic office:

1. Effectively eliminates objectionable glare on VDT screens caused by reflections from ceiling lights.
2. Delivers appropriate levels of general illumination for non-VDT office tasks.
3. Provides economical, energy-efficient system performance.

Choice of Illuminance Levels

Today, there are almost as many ambient lighting level needs as there are lighting applications. An Optimax system is available to meet any target illuminance.

- 1-lamp systems for low to intermediate illuminance levels.
- 2-lamp systems for intermediate to high illuminance levels.
- 3-lamp systems for high illuminance levels.


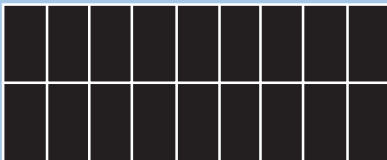
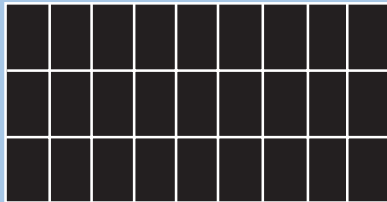

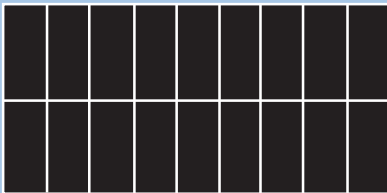
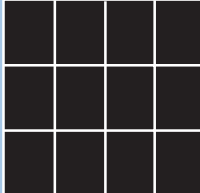


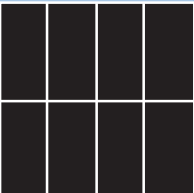
Depending on the lamp and ballast combination selected, Optimax system energy consumption ranges from less than 1 watt per square foot to 1.6 watts per square foot to meet today's stringent lighting energy guidelines.

Designing with Optimax

Optimax was created to provide appropriate lighting levels for large open office areas where VDTs are used. Optimax is available in a wide variety of sizes, air-handling functions, ceiling trim types and surface-mounted configurations that allow you to choose the appropriate luminaire for a specific application need. Small office areas and spaces that are adjacent to open areas are ideal for low-brightness Paramax fixtures as a complement to Optimax.

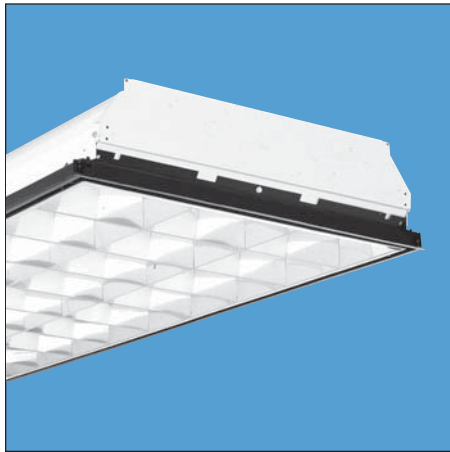
Small office areas and spaces that are adjacent to open areas are ideal for low-brightness Paramax fixtures as a complement to Optimax.

Small office areas and spaces that are adjacent to open areas are ideal for low-brightness Paramax fixtures as a complement to Optimax.

1-lamp and 2-lamp systems	2-lamp systems	3-lamp systems
		
		
		
1'x4' 9-cell	20'x4' 18-cell	2'x4' 27-cell
9'x4' 10-cell	2'x4' 18-cell	2'x2' 12-cell
1'x2' 4-cell	20'x2' 8-cell	2'x2' 8-cell

PMO

Optimax®



Optimax Light Control System

Intended Use

Full family of light controlling parabolic luminaires designed to control screen glare in VDT open office environments.

Features

Compound parabolic louver provides optimum light control.

Latest development in aluminum finishing minimizes louver iridescence. Ideal for use with triphosphor lamps.

Only listed lamp and cell configurations will provide Optimax light control performance.

Spring-loaded cam latches standard. Housing embossed for rigidity.

Available in metric sizes. Consult Lithonia Lighting sales representative.

Surface-mounted versions also available. See page 41.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).

Ordering Information

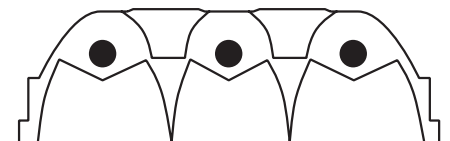
Example: **2PMO G B 3 32 27LS 120 GEB**

Series	Air function	Lamp type	Number of louver cells	Louver finish	Voltage	Options
PMO 1' wide	B No air function	17 17W T8 (24")	4, 8, 9, 12, 18, 27	LS Low-iridescent anodized specular silver LD Low-iridescent anodized diffuse silver	120 277 347 MVOLT* <small>Others available. * 120-277V. Must specify GEB10IS.</small>	1/3 One 3-lamp ballast
2PMO 2' wide	A Air supply/return	U31 31W T8 U (24")				1/4 One 4-lamp ballast
20PMO 20" wide	H Heat removal	32 32W T8 (48")				GEB Electronic ballast, ≤20% THD
	D Dual A & H	CF40 40W TT5 (24")				GEB10IS T8 electronic ballast, ≤10% THD, instant start
		CF50 50W TT5 (24")				GEB10RS T8 electronic ballast, ≤10% THD, rapid start
		CF55 55W TT5 (24")		CSA CSA Certified		
						NOM NOM Certified
						See pages 90 & 91 for others.

Mounting trim	Number of lamps
G Grid	1, 2, 3 Not included.
F Flanged	
MT Modular fit-in	
ST Screw slot	

NOTES:

1 **2FP2** and **4FP2** accessories available to fit 2' wide grid. Order separately.



Availability and Dimensions

Nominal size	Series	Number of lamps	Lamp type	Number of cells	Height in. (cm)
2x4	2PMO	3	32	27 (3x9)	6 (15.2)
	2PMO	2	32	18 (2x9)	6 (15.2)
	2PMO	2	32	27 (3x9)	6 1/16 (17)
	20PMO(FP) ¹	2	32	18 (2x9)	6 (15.2)
2x2	2PMO	3	17, U31, CF40	12 (3x4)	6 (15.2)
	2PMO	2	17, U31, CF40	8 (2x4)	6 1/2 (16.5)
	2PMO	2	17, U31, CF40	12 (3x4)	6 1/2 (16.5)
	20PMO(FP) ¹	2	17, U31, CF40	8 (2x4)	6 (15.2)
20"x4	20PMO	2	32	18 (2x9)	6 (15.2)
1x4	PMO	1	32	9 (1x9)	7 1/4 (18.4)
	PMO	2	32	9 (1x9)	7 1/4 (18.4)

9PMO

Optimax®

Intended Use

Ideal for corridors, stack lighting or wall-wash applications where superior glare control is important.

Features

Superior performance provided with a 9" aperture design.

Available in three distribution patterns, symmetric, asymmetric and bi-asymmetric, for efficient and precise illumination.

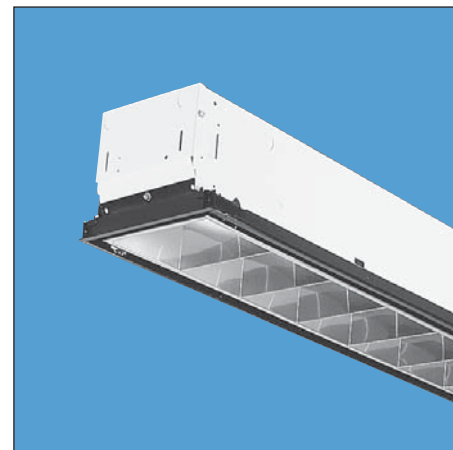
Asymmetric distribution provides uniform wallwash for improved spatial brightness and visual brightness.

Symmetric distribution meets the industry's most rigorous standards for VDT lighting applications.

Bi-asymmetric distribution delivers high-angle light distribution on two vertical surfaces parallel to luminaire.

Complements design and style of other Optimax and Paramax® products.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).



Ordering Information

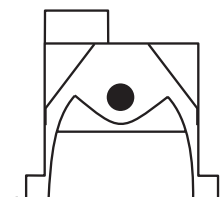
Example: **9PMO G B 2 32 10LD ASY 120 GEB**

Series	Air function	Number of cells	Louver finish	Light distribution	Options
9PMO 9" wide	B No air function A Air supply/return	10 1 row of 10	LS Low-iridescent anodized specular silver LD Low-iridescent anodized diffuse silver	(blank) Symmetric ASY Asymmetric BIAS Bi-asymmetric	GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified NOM NOM Certified See pages 90 & 91 for others.
Mounting trim	Number of lamps	Lamp type	Voltage		
G Lay-in grid F Flanged MT Modular fit-in ST Screw slot GF Grid trim ends and flange sides GF1 Grid trim ends, one grid side and one flange side	1, 2 Not included.	32 32W T8 (48") 40 40W T12 (48")	120 277 347 MVOLT* Others available. * 120-277V. Must specify GEB10IS.		

Availability and Dimensions

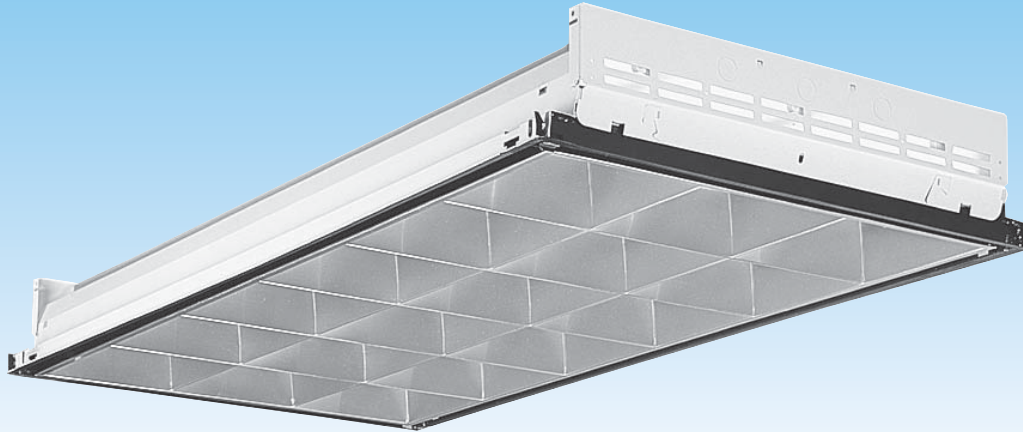
Nominal size	Series	Number of lamps	Lamp type	Number of cells	Height in.(cm)*
9"x4	9PMO	1	32, 40	10	7½ (19.1)
	9PMO	2	32	10	7½ (19.1)

*Consult factory for options to reduce overall fixture height.



Paramax®

Benchmark of Enduring Quality

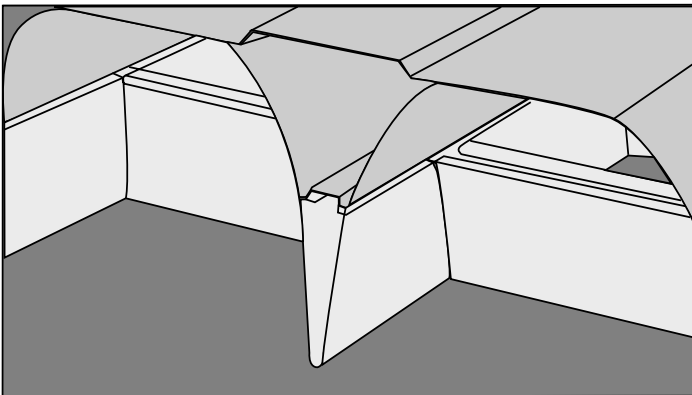


Paramax, today's premier family of parabolic luminaires, offers the most complete, most comprehensive selection of recessed and surface-mounted parabolics in the industry. A marriage of aesthetics and performance, Paramax is a standard by which other parabolics will be measured.

The Paramax Louver

One of the keys to Paramax performance is the precise parabolic shape of the louver. Constructed of reflector-quality aluminum, the Paramax louver is carefully contoured to achieve uniform distribution, minimum high-angle brightness and optimum efficiency. Intersections are rigidly interlocked to maintain the desired contour; and automated systems of fabrication, assembly, cleaning and packaging ensure consistent quality.

The result is precise light control. By concentrating more available light in the photometric zones most crucial to comfort and efficiency, Paramax focuses attention on the task, not the light source.



Unique Louver Design – Carefully formed louvers are shaped in a true tangential parabola for superior light control. Contoured housing (2'x4' and 20"x4' models) continues the parabolic shape of the louver to envelop the lamp in a fully reflective cavity. Precise fit between housing and louver eliminates light leaks, minimizes objectionable shadows and bright spots.

Design Flexibility

The versatility of Paramax is further enhanced by a wide variety of optional configurations and companion luminaires, such as the RP architectural perimeter system and the NAT and CNAT narrow aperture series. Paramax models are available for up to eight lamps with a choice of louver configurations, a full range of air functions and trim styles to fit virtually every type of ceiling system.

Paramax 2PM3N

The Paramax 2PM3N Series features innovative, state-of-the-art design that provides optimal performance with T8 lamps and electronic ballasts. The 2PM3N louver is engineered for maximum efficiency while maintaining excellent optical control and visual comfort. The one-piece, roll-formed housing is only 5¼" deep, which allows installation in shallow plenums and features a superior paint finish, hemmed edges for ease of handling and integral T-bar retention.

Full Selection of Sizes

Paramax features the widest range of sizes on the market today. Standard models from 1'x2' wide through 4'x4' are offered, including 20"-wide versions for use in modular ceiling systems. Custom and metric sizes also can be specified, making a Paramax fixture available for every type of commercial application.

Available Sizes

	PM4	2PM3N	PM3	PM2	HPM	PMX
1'x2'			■			
1'x4'			■		■	■
1'x8'						■
2'x2'	■	■		■		■
2'x4'	■	■		■		■
4'x4'			■			
20"x4'			■			
Metric			■			

2PM3N

Paramax®

Intended Use

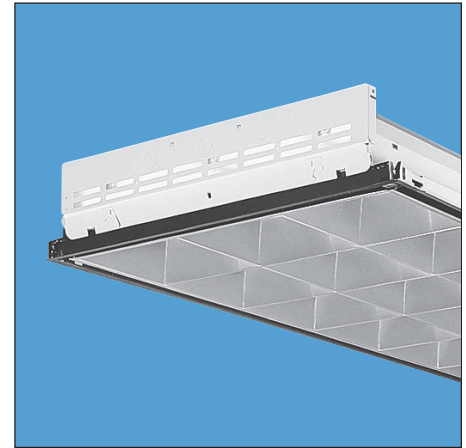
High-performance deep-cell parabolic luminaires for superior light control, visual comfort, and light cut-off in open area applications.

Features

- Contoured housing for superior light control.
- Deep cell premium-grade aluminum louvers in choice of finishes, shipped in thermally sealed polyethylene wrapper.
- Automated assembly, mitered corners and interlocking construction assure precise parabolic shape.
- Choice of cell configuration and lamping.

Compatible with most common ceiling types and air functions. For complete descriptions, see page 94, 96.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).



Ordering Information

Example: **2PM3N G B 3 32 18LD 120 GEB**

Series	Air function	Number of lamps	Lamp type	Number of cells	Louver finish	Options ²
2PM3N 2' wide	B No air function D Dual function supply/return/removal A Air/supply/return H Heat removal	2, 3, 4 Not included.	17 17W T8 (24") 20 20W T12 (24") U31 31W T8 U (1 5/8" leg) U316 31W T8 U (6" leg) ¹ 32 32W T8 (48") 40 40W T12 (48") U40 40W T12 U (24", 6" leg) ¹ CF40 40W TT5 (24") CF50 50W TT5 (24") CF55 55W TT5 (24")	6, 9, 12, 16, 18, 24, 32	ND Achroma® non-iridescent diffuse silver LD Low iridescent anodized diffuse silver LS Low iridescent anodized specular silver ² C Diffuse gold anodized (Champagne) ² W White enamel ²	1/3 One 3-lamp ballast 1/4 One 4-lamp ballast GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified NOM NOM Certified See page 91 for others.

Mounting
G Lay-in grid
F Flanged
ST Screw slot
MT Modular fit-in

Voltage

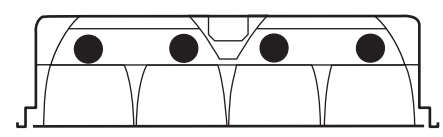
120, 277, 347, MVOLT*
Others available.

* 120-277V. Must specify GEB10IS.

Availability and Dimensions

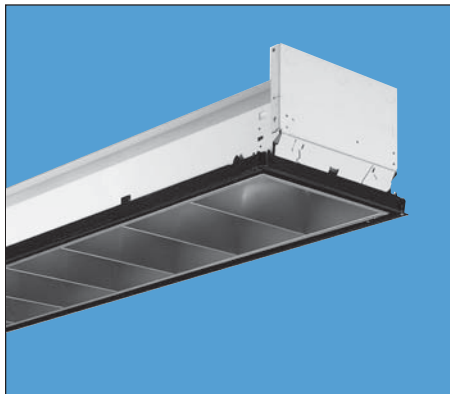
Nominal size	Series	Number of lamps	Lamp type	Number of cells ³ (Rows x number in row)	Height ² in. (cm)
2x2	2PM3N	2	17, 20, U31, U316, U40	9(3x3), 16(4x4)	5 1/4 (13.3)
		2	CF40, CF50, CF55	9(3x3), 16(4x4)	5 1/4 (13.3)
		2	17, 20, U31, CF40, CF50, CF55	6(2x3), 12(4x3)	5 13/16 (14.8)
		2	U316, U40	6(2x3), 12(3x4)	6 7/8 (17.5) ⁴
		3	17, 20, U31, CF40, CF50, CF55	9(3x3), 16(4x4)	5 1/4 (13.3)
		3	17, 20, CF40, CF50, CF55	12(3x4)	5 13/16 (14.8)
		4	17, 20	9(3x3), 16(4x4)	5 1/4 (13.3)
		4	CF40, CF50, CF55	9(3x3), 16(4x4)	5 13/16 (14.8)
		4	17, 20, CF40, CF50, CF55	12(4x3)	5 13/16 (14.8)
		2x4	2PM3N	2	32, 40
3	32, 40			18(3x6), 24(3x8)	5 1/4 (13.3)
4	32, 40			12(2x6), 16(2x8), 18(3x6),	5 1/4 (13.3)
4	32, 40			24(4x6), 32(4x8)	5 1/4 (13.3)

- NOTES:
- 1 Not available on 3-lamp fixtures. Use U31.
 - 2 Some options increase fixture depth. Consult Lithonia Lighting sales representative if plenum depth is a factor.
 - 3 Popular cell configurations are shown in bold type.
 - 4 For 5 13/16" (14.8 cm) deep 2 U40 or 2 U316, specify **1C** option.



PM3

Paramax®



Parabolic Troffers, 3" Louvers

Intended Use

Full family of high performance deep-cell parabolic luminaires for superior light control, visual comfort, and light cut-off in open area applications.

Features

Contoured housing for superior light control.

Deep-cell, premium-grade aluminum louvers in choice of finishes, shipped in thermally sealed polyethylene wrapper.

Automated assembly, mitered corners and interlocking construction ensure precise parabolic shape.

Choice of cell configuration and lampping.

Compatible with virtually all ceiling types and air functions. For complete descriptions, see pages 94 and 96.

Surface-mounted versions also available. See page 42.

Standard sizes up to 4'x4'— special and metric sizes also available. Consult Lithonia Lighting sales representative.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).

Ordering Information

Example: **PM3 G B 2 32 8LD 120 GEB**

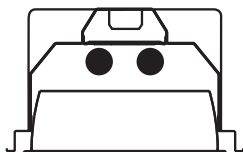
Series	Air function	Lamp type	Number of cells	Louver finish	Voltage	Options
PM3 1' wide	B No air function A Air supply/return H Heat removal D Dual function supply/return/removal	17 17W T8 (24")	3, 4, 6, 8 9, 12, 16 18, 24, 32, 36, 64	ND Achroma® non-iridescent diffuse silver ² LD Low iridescent anodized diffuse silver LS Low iridescent anodized specular silver	120 277 347 MVOLT* Others available. * 120-277V. Must specify GEB10IS.	1/3 One 3-lamp ballast 1/4 One 4-lamp ballast GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified NOM NOM Certified See pages 90 & 91 for others.
20PM3 20" wide		20 20W T12 (24")				
2PM3 2' wide		25 25W T8 (36")				
4PM3 4' wide		30 30W T12 (36")				
		32 32W T8 (48")				
		U31 31W T8 U (1 ⁵ / ₈ " leg)				
		U316 31W T8 U (6" leg) ¹				
		40 40W T12 (48")				
		U40 40W T12 U (6" leg) ¹				
		CF40 40W TT5 (24")				
Mounting	Number of lamps					
G Lay-in grid	1, 2, 3, 4, 6, 8 Not included.					
F Flanged						
MT Modular fit-in						
ST Screw slot						

NOTES:

- 1 Not available on 3-lamp fixtures. Use U31.
- 2 PM3 1x1 and 1x2 not available with ND Achroma® option.
- 3 Popular cell configurations are shown in **bold** type.
- 4 Some options increase fixture depth. Consult Lithonia Lighting sales representative if plenum depth is a factor.
- 5 For 5¹⁵/₁₆" (14.8 cm) deep 2 U40 or 2 U316, specify **1C** option.

Availability and Dimensions

Nominal size	Series	Number of lamps	Lamp type	Number of cells ³ (Rows x number in row)	Height ⁴ in. (cm)
1x2	PM3	1, 2	17, 20, U31, CF40	3(1x3), 4(1x4) , 6(2x3) , 8(2x4)	7 ¹ / ₄ (18.4)
		1	U40, U316	3(1x3), 4(1x4) , 6(2x3) , 8(2x4)	7 ¹ / ₄ (18.4)
1x4	PM3	1, 2, 3	32, 40	6(1x6), 8(1x8) , 9(1x9)	7 ¹ / ₄ (18.4)
		2	32, 40	12(2x6), 16(2x8) , 16(2x8)	7 ¹ / ₄ (18.4)
20x4	20PM3	2	32, 40	12(2x6) , 16(2x8), 18(3x6), 24(3x8)	5 ¹⁵ / ₁₆ (15.1)
		3	32, 40	18(3x6) , 24(3x8)	5 ¹⁵ / ₁₆ (15.1)
		4	32, 40	12(2x6) , 16(2x8), 18(3x6), 24(3x8)	5 ¹⁵ / ₁₆ (15.1)
		2	U40, U316	6(2x3), 9(3x3) , 12(3x4), 16(4x4)	6 ⁷ / ₈ (17.5) ⁵
2x2	2PM3	2	17, 20, U31, CF40	6(2x3), 9(3x3) , 12(4x3), 16(4x4)	5 ¹⁵ / ₁₆ (14.8)
		3	17, 20, U31, CF40	9(3x3) , 12(3x4), 16(4x4)	5 ¹⁵ / ₁₆ (14.8)
		4	17, 20, CF40	9(3x3), 12(4x3), 16(4x4)	5 ¹⁵ / ₁₆ (14.8)
		2	32, 40	12(2x6) , 16(2x8), 18(3x6), 24(4x6), 32(4x8)	5 ¹⁵ / ₁₆ (15.1)
2x4	2PM3	3	32, 40	18(3x6) , 24(3x8) , 32(4x8)	5 ¹⁵ / ₁₆ (15.1)
		4	32, 40	12(2x6), 16(2x8), 18(3x6), 24(4x6), 32(4x8)	5 ¹⁵ / ₁₆ (15.1)
4x4	4PM3	6	32, 40	36(6x6) , 64(8x8)	6 ¹ / ₂ (16.5)
		8	32, 40	36(6x6), 64(8x8)	6 ¹ / ₂ (16.5)



Parabolic Troffers, 4" Louvers

PM4

Paramax®

Intended Use

Deep-cell parabolic luminaires for use in open area applications and electronic offices where optical control, visual comfort and light cut-off are important.

Features

4"-deep premium-grade aluminum louvers in choice of finishes, shipped in thermally sealed polyethylene wrapper.

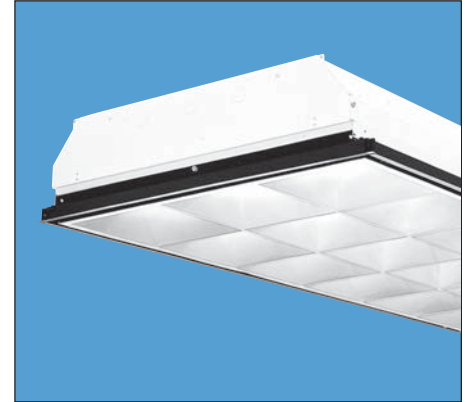
Automated assembly, mitered corners and interlocking construction assure precise parabolic shape.

Choice of cell configuration and lamping.

Compatible with virtually all ceiling types and air functions. For complete descriptions, see pages 94 and 96. Low-iridescent louver material standard in fixtures with silver finish louvers.

Fixtures available in metric sizes. Surface-mount versions also available. Consult Lithonia Lighting sales representative.

Listings – UL Listed (standard). CSA Certified (see Options).



Ordering Information

Example: **2PM4 G B 3 32 18LD 120 GEB**

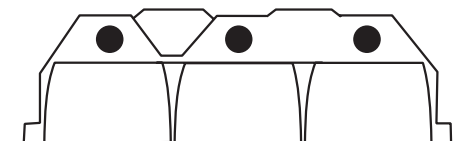
Series	Air function	Number of lamps	Lamp type	Number of cells	Louver finish	Options
2PM4 2' wide	B No air function A Air supply/return H Heat removal D Dual function supply/return/removal	2, 3, 4 Not included.	17 17W T8 (24") 20 20W T12 (24") U31 31W T8 U (1½" leg) U316 31W T8 U (6" leg) ¹ 32 32W T8 (48") 40 40W T12 (48") U40 40W T12 U (6" leg) ¹ CF40 40W TT5 (24")	6, 9, 12, 16 18, 24, 32	LD Low-iridescent anodized diffuse silver LS Low-iridescent anodized specular silver	1/3 One 3-lamp ballast 1/4 One 4-lamp ballast GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified See pages 90 & 91 for others.
Mounting						Voltage
G Lay-in grid F Flanged MT Modular fit-in ST Screw slot						120 277 347 MVOLT* Others available.

NOTES:

- 1 Not available on 3-lamp fixtures. Use U31.
- 2 Popular cell configurations are shown in **bold** type.
- 3 Some options increase fixture depth. Consult Lithonia Lighting sales representative if plenum depth is a factor.
- 4 For 6½" (16.5cm) deep 2 U40 or 2 U316, specify **1C** option.

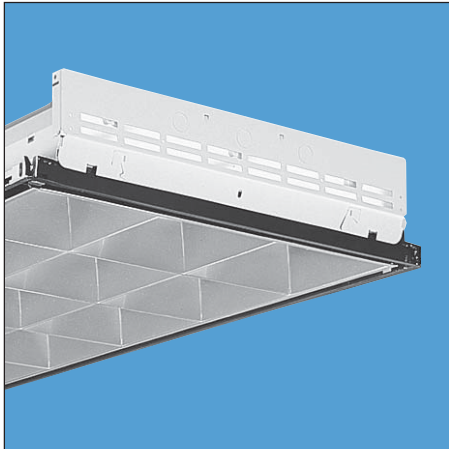
Availability and Dimensions

Nominal size	Series	Number of lamps	Lamp type	Number of cells ² (Rows x number in row)	Height ³ in. (cm)
2x2	2PM4	2	U40, U316	6(2x3), 9(3x3) , 12(3x4), 16(4x4)	7 ⁹ / ₁₆ (19.2) ⁴
		2	17, 20, U31, CF40	6(2x3), 9(3x3) , 12(4x3), 16(4x4)	6½ (16.5)
		3	17, 20, U31, CF40	9(3x3) , 12(3x4), 16(4x4)	6½ (16.5)
		4	17, 20, CF40	6(2x3), 9(3x3), 12(4x3), 16(4x4)	6½ (16.5)
2x4	2PM4	2	32, 40	12(2x6) , 16(2x8), 18(3x6), 24(4x6), 32(4x8)	6 ¹¹ / ₁₆ (17.0)
		3	32, 40	18(3x6) , 24(3x8) , 32(4x8)	6 ¹¹ / ₁₆ (17.0)
		4	32, 40	12(2x6), 16(2x8), 18(3x6), 24(4x6), 32(4x8)	6 ¹¹ / ₁₆ (17.0)



PM2

Paramax®



Parabolic Troffers, 2" Louvers

Intended Use

Louvered parabolic luminaires for optical control in general office environments and open spaces.

Features

Contoured housing for superior light control.

2" deep premium-grade aluminum louvers in choice of finishes, shipped in thermally sealed polyethylene wrapper.

Automated assembly, mitered corners and interlocking construction ensure precise parabolic shape.

Choice of cell configuration and lampping.

Compatible with virtually all ceiling types and air functions. For complete descriptions, see pages 94 and 96.

Low iridescent louver material standard in fixtures with silver finish louvers.

Listings – UL Listed (standard). CSA Certified (see Options).

Ordering Information

Example: **2PM2 G B 3 32 18LD 120 GEB**

Series	Air function	Number of lamps	Lamp type	Number of cells	Louver finish	Options
2PM2 2' wide	B No air function A Air supply/return H Heat removal D Dual function supply/return, removal	2, 3, 4 Not included.	17 17W T8 (24") 20 20W T12 (24") U31 31W T8 U (1 5/8" leg) U316 31W T8 U (6" leg) ¹ 32 32W T8 (48") 40 40W T12 (48") U40 40W T12 U (24") ¹ CF40 40W TT5 (24")	6, 9, 12, 16, 18, 24, 25, 32, 36, 55	LD Low iridescent anodized diffuse silver LS Low iridescent anodized specular silver	1/3 One 3-lamp ballast 1/4 One 4-lamp ballast GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified See pages 90 & 91 for others.
Mounting						
G Lay-in grid F Flanged MT Modular fit-in ST Screw slot						

Voltage

120

277

347

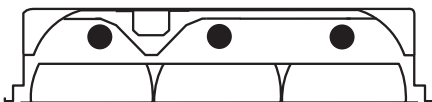
MVOLT*

Others available.

* 120-277V. Must specify GEB10IS.

NOTES:

- 1 Not available on 3-lamp fixtures. Use U31.
- 2 Popular cell configurations are shown in **bold** type. Louvers with 25, 36, and 55 cells are 1.5" deep.
- 3 Some options increase fixture depth. Consult Lithonia Lighting sales representative if plenum depth is a factor.



Availability and Dimensions

Nominal size	Number of lamps	Lamp type	Number of cells ² (Rows x number in row)	Height ³ in. (cm)
2x2	2	U40, U316	6(2x3), 9(3x3) , 12(3x4), 16(4x4) , 25(5x5), 36(6x6)	5 1/4 (13.3)
	2	17, 20, U31, CF40	6(2x3), 9(3x3) , 12(4x3), 16(4x4) , 25(5x5), 36(6x6)	5 1/4 (13.3)
	3	17, 20, U31, CF40	9(3x3) , 12(3x4), 16(4x4), 25(5x5), 36(6x6)	5 1/4 (13.3)
	4	17, 20, CF40	6(2x3), 9(3x3), 12(4x3), 16(4x4) , 25(5x5), 36(6x6)	5 1/4 (13.3)
2x4	2	32, 40	12(2x6) , 16(2x8), 18(3x6), 24(4x6) , 32(4x8), 55(5x11)	5 1/4 (13.3)
	3	32, 40	18(3x6) , 24(3x8) , 32(4x8), 55(5x11)	5 1/4 (13.3)
	4	32, 40	12(2x6), 16(2x8), 18(3x6), 24(4x6) , 32(4x8) , 55(5x11)	5 1/4 (13.3)

Parabolic Troffers, High-Performance 1'x4'

HPM3

Paramax®

Intended Use

High performance parabolic troffer for office lighting systems in VDT applications.

Available in surface-mount and metric-size versions. Consult Lithonia Lighting sales representative.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).

Features

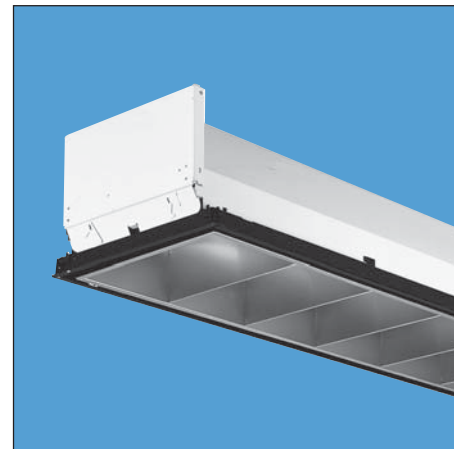
High-efficiency 1'x4' Paramax fixtures.

Lamps stacked vertically in two-lamp model for uniform louver brightness in multilevel switching applications.

Standard louver cross baffle is 3" deep with 4, 6, 8 or 9 cells.

Choice of louver finish and air function.

Compatible with virtually all ceiling types. See page 94.



Ordering Information

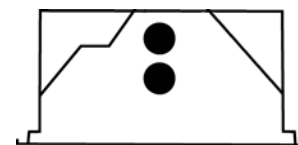
Example: **HPM3 G D 2 32 8LD 120 GEB**

Series HPM3 1' wide	Air function B No air function A Air supply/return H Heat removal D Dual function supply/return, removal	Number of lamps 2 <small>Not included.</small>	Lamp type 32 32W T8 (48") 40 40W T12 (48")	Voltage 120 277 347 MVOLT* <small>Others available. * 120-277V. Must specify GEB10IS.</small>	Options 1/3 One 3-lamp ballast 1/4 One 4-lamp ballast GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified NOM NOM Certified <small>See pages 90 & 91 for others.</small>
Trim type G Lay-in grid F Flanged MT Modular fit-in ST Screw slot	Number of cells 6, 8, 9	Louver finish LD Low iridescent anodized diffuse silver LS Low iridescent anodized specular silver			

NOTES:
 1 Popular cell configurations are shown in **bold** type.

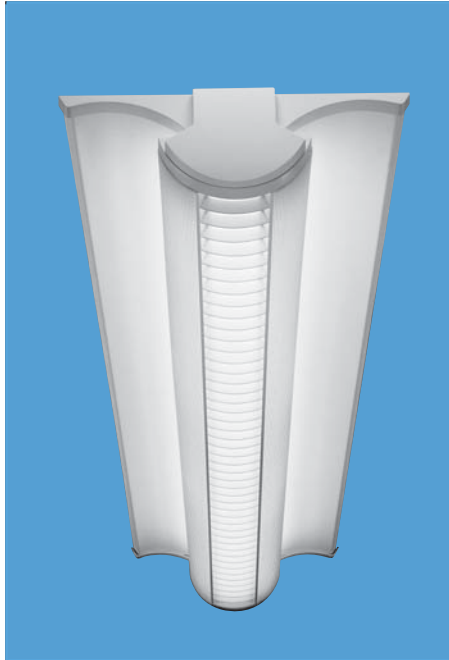
Availability and Dimensions

Nominal size	Series	Number of lamps	Lamp type	Number of cells ¹ (Rows x number in row)	Height in. (cm)
1x4	HPM3	2	32, 40	6(1x6), 8(1x8) , 9(1x9)	7¼ (18.4)



Avante®

Surface/Suspended



Direct/Indirect Lighting

Intended Use

1x2 – ideal for general or task lighting in alcoves, narrow corridors and small spaces. 1x4 – suitable for general area or task-specific lighting in both new construction and remodeling. Especially suited for conference rooms, reception areas, health care institutions, education facilities and offices.

Features

Contemporary, low-profile construction, suitable for surface and suspended mounting, providing direct or semi-direct light distribution.

Rugged steel housing in 2', 4' or 8' field-joinable units for continuous rows.

Injection molded joiners with snap-on finished ends.

Available with popular Avante 1x4 shieldings - MDR, MDM and SBL.

Reflectors finished with high-reflectance, matte-white polyester powder paint for uniform light distribution.

Reflector option includes steel reflectors with or without semi-perforated option or diffuse Aluminum Stepped Reflector.

T5HO or T8 lamping configurations available.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).

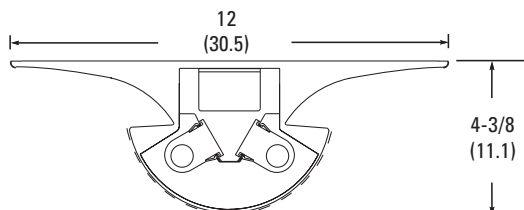
Ordering Information

Example: AVSM 2 32 MDR DLS MVOLT GEB10IS

Series	Lamp type	Diffuser	Voltage	Options
AVSM 1' wide, symmetric distribution	17 17W T8 (24") 32 32W T8 (48")	MDR Metal diffuser, round holes	120 277 347	GEB T8 electronic ballast, ≤20% THD
TAVSM 1' wide lamps in tandem	14T5 14W T5 (22") 28T5 28W T5 (46") 24T5HO 24W T5 (22") CF40 40W TT5 (24") CF50 50W TT5 (24") CF55 55W TT5 (24") 54T5HO 54W T5 (46")	MDM Metal diffuser, mini slots SBL Straight blade louver, round holes Others available.	MVOLT* Others available. * 120-277V. Must specify GEB10IS or GEB10PS.	GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10PS T5 electronic ballast, ≤10% THD, program start GEB10RS T8 electronic ballast, ≤10% THD, rapid start
Number of lamps 1, 2 ¹ Not included.		Light distribution ULR Uplight, round hole, perforated band ² DLS Downlight, solid		ALG Acrylic litter guard GLR Internal fast-blow fuse ³ LP_ Lamped. Specify lamp type and color NYC New York City approved CSA CSA Certified NOM NOM Certified
				Reflector Options ASR Aluminum Stepped Reflector ⁴

- NOTES:
 1 Available with straight-tube T5 or T8 lamps only.
 2 For suspended mounting only.
 3 Not available with MVOLT.
 4 Not available with ULR.
 5 Specify ballast manufacturer.

Dimensions shown in inches (centimeters) unless otherwise noted.



Availability and Dimensions

Nominal size	Series	Number of lamps	Lamp type	Length
1x2	AVSM	1, 2 1	17, 14T5, 24T5HO CF40, CF50, CF55	2'
1x4	AVSM	1, 2	32, 28T5, 54T5HO	4'
1x8	TAVSM	1, 2	32, 28T5, 54T5HO	8'

Ballast/Lamp Compatibility

	17	32	14T5	28T5	24T5HO	CF40	CF50	CF55	54T5HO
GEB	■	■					■ ⁵	■ ⁵	
GEB10IS		■							
GEB10PS			■	■	■				
GEB10RS	■								

Avante®

Side-Mount Diffuser

Intended Use

Side-mounted diffuser, a recessed direct/indirect alternative with performance similar to symmetric Avante. Especially suited for conference rooms, corridors and reception areas where soft, distinctive lighting is required.

Features

The optimum mix of directional and diffuse reflected light combine for balanced illumination between task and proximate walls, enhanced visual comfort and minimized shadows.

Available in 2'x2' and 2'x4' with side mounted diffusers.

Available with MDR and MDM shielding options.

Matte-white polyester powder paint finished reflectors provide uniform light distribution. Optional low-brightness diffuse aluminum stepped reflectors available.

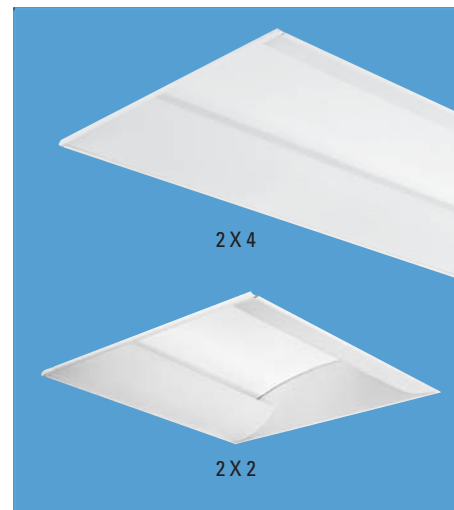
Shieldings pivot and swing down for easy lamp access.

Can be installed in continuous rows.

Injection-molded plastic light traps prevent light leaks between diffusers and end plates.

Covered by one or more of the following patents: 5,988,829; 399,586; 411,641; 413,402; 2,212,513; 87,513.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).



Ordering Information

Example: **2AV G 2 32 MDR SMD 120 GEB**

Series 2AV 2'wide	Number of lamps 2, 4 Not included.	Diffuser MDR Metal diffuser, round holes MDM Metal diffuser, mini slots Others available; consult factory.	Voltage 120, 277, 347, MVOLT* Others available. * 120-277V. Must specify GEB10IS or GEB10PS.	Options GEB T8 electronic ballast, <20% THD GEB10IS T8 electronic ballast, <10% THD, instant start GEB10PS T5 electronic ballast, ≤10% THD, program start GEB10RS T8 electronic ballast, <10% THD, rapid start ALG Acrylic litter guard GLR Internal fast-blow fuse EL Emergency battery pack for T8 (nominal 300 lumens) EL55 Emergency battery pack for T5/T5HO (nominal 390-700 lumens) ¹ PWS1836 6' prewired, 3/8" dia., 18-ga., 3 wires LP_ Lamped. Specify lamp type and color NYC New York City approved CSA CSA Certified NOM NOM Certified
Trim type G Grid trim ST Screw slot	Lamp type 17 17W T8 (24") 32 32W T8 (48") 14T5 14W T5 (22") 28T5 28W T5 (46") 24T5HO 24W T5 (22") CF40 40W TT5 (24")* CF50 50W TT5 (24")* CF55 55W TT5 (24")* 54T5HO 54W T5 (46") * 2-lamp only	Light distribution SMD Side-mounted diffuser	Accessories (Order separately) DGA_ Drywall ceiling adapter, unit installation. Use G trim plus DGA for support in plaster ceilings. (Add 14 for 1x4, 22 for 2x2, 24 for 2x4)	Reflector Options ASR Aluminum Stepped Reflector See page 29 for others.

Availability and Dimensions

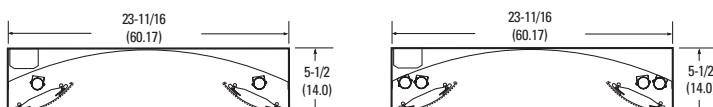
Nominal Size	Series	Number of Lamps	Lamp Type	Height in. (cm)
2x2 SMD	2AV	2, 4	14T5, 17, 24T5HO CF40, CF50, CF55	5½ (14.0)
2x4 SMD	2AV	2, 4	32, 28T5, 54T5HO	5½ (14.0)

Ballast/Lamp Compatibility

	17	32	14T5	28T5	24T5HO	CF40	CF50	CF55	54T5HO
GEB	■	■				■	■ ²	■ ²	
GEB10IS		■							
GEB10PS			■	■	■				■
GEB10RS		■							

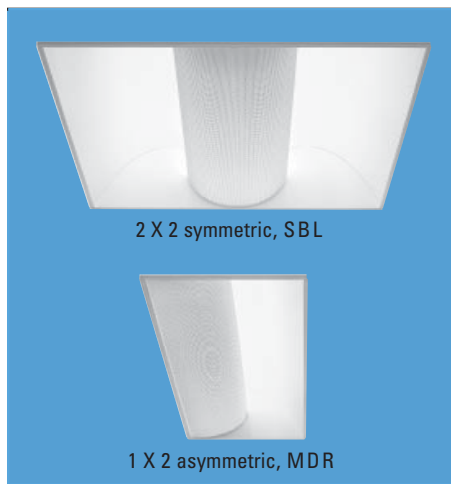
NOTES:
1 Not available in Canada.
2 Specify ballast manufacturer.

Dimensions are shown in inches (centimeters) unless otherwise noted.



Avante®

1' X 2' and 2' X 2'

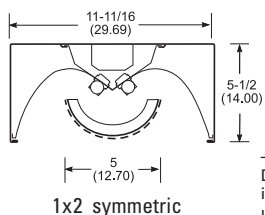
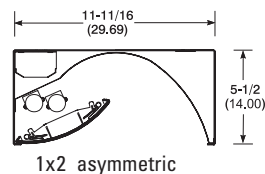


2 X 2 symmetric, SBL

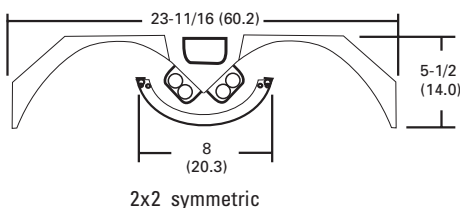
1 X 2 asymmetric, MDR

Ordering Information

Series	Number of lamps	Lamp type	Light distribution	Options
AV 1' wide, symmetric and asymmetric distribution	1, 2, 3³ Not included.	14T5 14W T5 (22") 17 17W T8(24") 24T5HO 24W T5 HO (22") CF40 40W TT5 (24") CF50 50W TT5 (24") CF55 55W TT5 (24")	(blank) Symmetric distribution ASY Asymmetric distribution (AV only)	GEB T8 electronic ballast, <20% THD GEB10IS T8 electronic ballast, <10% THD, instant start GEB10PS T5 electronic ballast, ≤10% THD, program start GEB10RS T8 electronic ballast, <10% THD, rapid start ALG Acrylic litter guard GLR Internal fast-blow fuse EL Emergency battery pack for T8 (nominal 300 lumens) EL55 Emergency battery pack for T5/T5HO (nominal 390-700 lumens) ⁴ PWS1836 6' prewired, 3/8" dia., 18-ga., 3 wires LP_ Lamped. Specify lamp type and color APB Air pattern control blades (Not available with ASY distribution) NYC New York City approved CP Chicago Plenum approved ⁵ CSA CSA Certified NOM NOM Certified
Trim type	Air function	Diffuser	Voltage	
G Grid trim ST Screw slot	(blank) Standard A Air supply/return ¹	MDR Metal diffuser, round holes SBL Straight blade louver, round holes ¹ MDM Metal diffuser, mini slots. ADP Acrylic diffuser, linear prismatic lens ^{1,3}	120, 277, 347, MVOLT* Others available. * 120-277V. Must specify GEB10IS or GEB10PS.	



Dimensions are shown in inches (centimeters) unless otherwise noted.



Recessed Direct/Indirect Lighting

Intended Use

An exceptional general lighting product that performs well in large spaces with high ceilings. Asymmetric products deliver uniform vertical illumination. They produce excellent corridor lighting or accent lighting for retail applications in continuous rows.

Features

Optimum mix of directional and diffuse reflected light for balanced illumination between task and proximate walls, enhanced visual comfort and minimized shadows.

Available in 1'x2' and 2'x2' symmetric distributions for general area lighting applications. Unique 1'x2' design suitable for corridor applications.

1'x2' asymmetric distribution available for

dedicated wall washing or in combination with symmetric luminaires to maintain perimeter illumination.

Choice of shielding options.

Matte-white polyester powder paint finished reflectors provide uniform light distribution. Optional diffuse aluminum stepped reflectors available.

Shieldings pivot and swing down for easy lamp access.

Injection-molded plastic light traps prevent light leaks between shielding and end plates.

Compatible with screw slot and most 2-foot ceiling grids.

Covered by one or more of the following patents: 5,988,829; 399,586; 411,641; 413,402; 2,212,513; 87,513.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).

Example: AV G 1 CF40 MDR 120 GEB

	17	14T5	24T5HO	CF40	CF50	CF55
GEB	■			■	■ ⁶	■ ⁶
GEB10IS	■					
GEB10PS		■	■			
GEB10RS	■					

Size	Series	Number of Lamps	Lamp Type	Height in.(cm)
1x2 (blank)	AV	1, 2 1	14T5, 17, 24T5HO CF40, CF50, CF55	5½ (14.0)
1x2 ASY	AV	1, 2 1	14T5, 17, 24T5HO CF40, CF50, CF55	5½ (14.0) 5½ (14.0)
2x2	2AV	1, 2, 3	14T5, 17, 24T5HO, CF40, CF50, CF55	5½ (14.0)

Reflector Options

ASR Aluminum stepped reflector

See page 29 for others.

NOTES:

- 1 Not available in AV 1x2 asymmetric.
- 2 2-lamp available only in AV 1x2 with 14T5, 17, or 24T5HO.
- 3 Available with 2x2 only.
- 4 Not available in Canada.
- 5 Not available with air supply return.
- 6 Specify ballast manufacturer.

Accessories (Order separately)

DGA_ Drywall ceiling adapter, unit installation. Use G trim plus DGA for support in plaster ceilings. (Add **12** for 1x2, **22** for 2x2)

Avante®

1' X 4' and 2' X 4'

Intended Use

An exceptional general lighting product that performs well in large spaces with high ceilings. Asymmetric products deliver uniform vertical illumination. They produce excellent corridor lighting or accent lighting for retail applications in continuous rows.

Features

The optimum mix of directional and diffuse reflected light combine for balanced illumination between task and proximate walls, enhanced visual comfort and minimized shadows.

Available in 1'x4' and 2'x4' symmetric distributions for general area lighting applications. End-to-end row mounting capability.

1'x4' asymmetric distribution available for dedicated wall washing or in combination with symmetric luminaires to maintain perimeter illumination.

Available with a variety of shielding options.

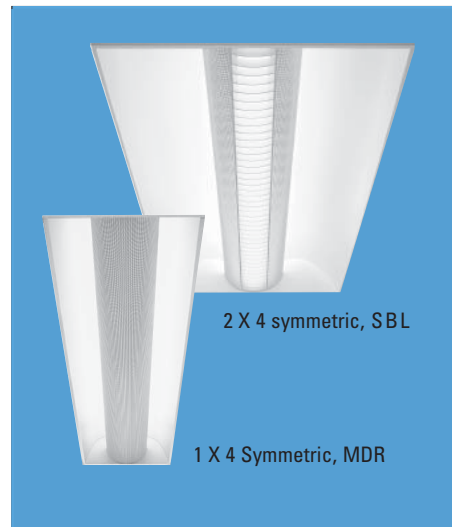
Matte-white polyester powder paint finished reflectors provide uniform light distribution. Optional diffuse aluminum stepped reflectors available.

Shieldings pivot on light trap and swing down for easy lamp access.

Injection-molded plastic light traps prevent light leaks between shielding and end plates.

Covered by one or more of the following patents: 5,988,829; 399,586; 411,641; 413,402; 2,212,513; 87,513.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).

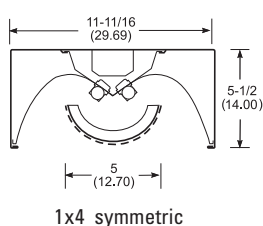
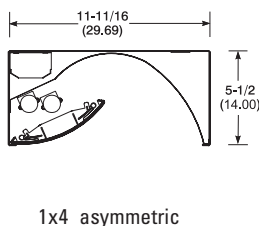
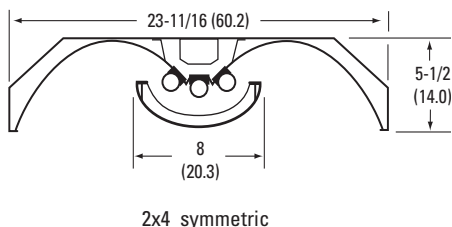


Ordering Information

Example: **2AV G 3 32 MDR 120 GEB**

Series AV 1' wide, symmetric and asymmetric distribution 2AV 2' wide, symmetric distribution	Number of lamps 1, 2, 3² Not included.	Lamp type 28T5 28W T5 (46") 32 32W T8 (48") 54T5HO 54W T5 HO (46")	Light distribution (blank) Symmetric distribution ASY Asymmetric distribution (AV only)	Options GEB T8 electronic ballast, <20% THD GEB10IS T8 electronic ballast, <10% THD, instant start GEB10PS T5 electronic ballast, ≤10% THD, program start GEB10RS T8 electronic ballast, <10% THD, rapid start ALG Acrylic litter guard GLR Internal fast-blow fuse EL Emergency battery pack for T8 (nominal 300 lumens) EL55 Emergency battery pack for T5/T5HO (nominal 390-700 lumens) ³ PWS1836 6' prewired, 3/8" dia., 18-ga., 3 wires APB Air pattern control blades (Not available with ASY distribution) LP Lamped. Specify lamp type and color NYC New York City approved CP Chicago Plenum approved ⁴ CSA CSA Certified NOM NOM Certified
Trim type G Grid trim ST Screw slot	Air function (blank) Standard A Air supply/return ¹	Diffuser MDR Metal diffuser, round holes SBL Straight blade louver, round holes ¹ MDM Metal diffuser, mini slots. ADP Acrylic diffuser, linear prismatic lens ²	Voltage 120, 277, 347, MVOLT* Others available. *120-277V. Must specify GEB10IS or GEB10PS.	

Dimensions are shown in inches (centimeters) unless otherwise noted.



Accessories (Order separately)

DGA Drywall ceiling adapter, unit installation. Use G trim plus DGA for support in plaster ceilings. (Add 14 for 1x4, 24 for 2x4)

Ballast/Lamp Compatibility	32	28T5	54T5HO
GEB	■		
GEB10IS	■		
GEB10RS	■		
GEB10PS		■	■

NOTES:
 1 Not available in AV 1x4 asymmetric.
 2 Available only with 2AV.
 3 Not available in Canada.
 4 Not available with air supply return.

Reflector Options

ASR	Aluminum stepped reflector
------------	----------------------------

See page 29 for others.

Availability and Dimensions

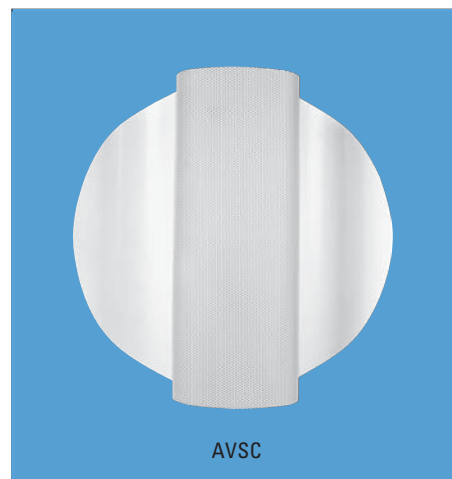
Size	Series	Number of Lamps	Lamp Type	Height in.(cm)
1x4	AV	1, 2	28T5, 32, 54T5HO	5½ (14.0)
2x4	2AV	1, 2, 3	28T5, 32, 54T5HO	5½ (14.0)

Decorative Wall Fixtures

Features

Sconces include corridor and accent lighting in hospitality, educational, health care and circulation areas.

UL Listed (standard). CSA Certified or NOM Certified (see Options). All Avante sconces are ADA compliant.

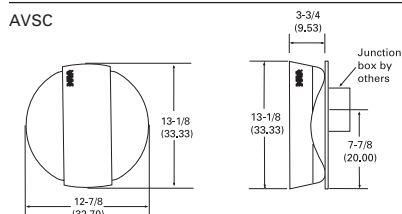
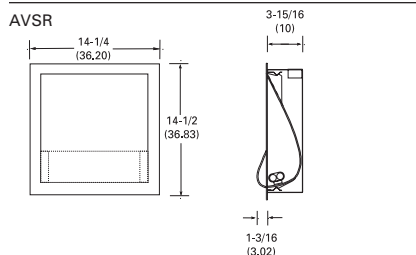
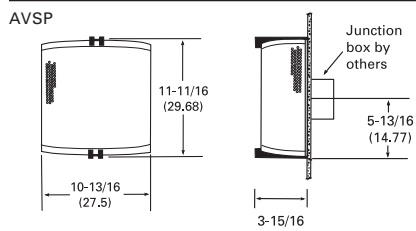


Ordering Information

Example: **AVSP 2 13TT MDR 120**

Model number	Number of lamps ²	Lamp type	Diffuser	Voltage	Options ⁴
AVSP Perforated shield ¹	1, 2 ³ Not included.	13TT ⁴	MDR Metal diffuser, round holes	120	ALB Anodized aluminum backplate ⁴ CSA CSA Certified NOM NOM Certified ADA Compliant. <u>Reflector Options</u> ASR Aluminum Stepped Reflector ⁷ See page 29 for others.
AVSR Recessed perforated ¹		13DTT ⁴		277	
AVSC Cylinder		CF18 ⁵	347 Others available.		
		26DTT ⁶	MDM Metal diffuser, mini slots		
		26TRT ⁶			
		32TRT ⁶			

Dimensions are shown in **inches (centimeters)** unless otherwise noted.



Lamp Designations

Type	Description
13TT	13W T4 twin-tube, 2-pin, GX23 base
13DTT	13W quad-tube, 4-pin electronic ballast, G24q - 1 base
13DTT	13W quad-tube, 2-pin, G23
CF18	18W twin-tube T5
26DTT	26W quad-tube, 4-pin
26TRT	26W tri-tube, 4-pin
32TRT	32W tri-tube, 4-pin

NOTES:

- 1 Dimming available.
- 2 Lamps not included.
- 3 Two-lamp available in AVSP models only.
- 4 Available on AVSP only.
- 5 Not available in AVSP
- 6 Not available in AVSC.
- 7 Available on AVSC only.
- 8 1 1/4 (3.2) extension from wall.

Availability and Dimensions

Model number	Number of lamps	Lamp type	Width in.(cm)	Depth in.(cm)	Length in.(cm)
AVSP	2	13TT, 13DTT, 26DTT	10 ¹³ / ₁₆ (27.5)	3 ¹⁵ / ₁₆ (10.0)	10 ¹³ / ₁₆ (27.5)
AVSR ⁸	1	CF18, 26DTT, 26TRT, 32TRT	14 ³ / ₄ (37.5)	5 ⁹ / ₁₆ (13.2)	14 ³ / ₄ (37.5)
AVSC	1	CF18	12 ⁷ / ₈ (32.7)	3 ³ / ₄ (9.5)	13 ¹ / ₈ (33.3)

Description	AVSM	AV 1x2	AV 1x4	2AV 2x2	2AV 2x4
ALG Acrylic litter guard	■	■	■	■	■
GLR Internal fast blowing fuse	■	■	■	■	■
LP_ Lamped. Specify lamp type and color	■	■	■	■	■
EL Emergency battery pack (nominal 300 lumens, see Life Safety section)	■ ¹	■ ³	■ ³	■ ³	■ ³
EL55 Emergency battery pack for T5/T5HO (nominal 390-700 lumens, see Life Safety section)	■ ²	■ ⁴	■ ⁴	■ ⁴	■ ⁴
PWS1836 6" prewire, 3/8" dia., 18-gauge, 3 wires		■	■	■	■
CSA CSA Certified	■	■	■	■	■
NYC New York City Approved	■	■	■	■	■
CP Chicago Plenum Approved		■	■	■	■

Accessories for Recessed	AV 1x2	AV 1x4	2AV 2x2	2AV 2x4
DGA12 Drywall ceiling adapter	■			
DGA14 Drywall ceiling adapter		■		
DGA22 Drywall ceiling adapter			■	
DGA24 Drywall ceiling adapter				■

*Use G trim plus DGA accessory for fixture trim flange and fixture support in plaster or plasterboard ceilings.

Accessories for AVSM	AVSM
AVAC_ for grid mounting, adjustable cables non-feed individual or row fixtures	■
AVACF_ for grid mounting, adjustable cables feed individual fixtures (18ga SJT)	■
AVACF_12AWG for grid mounting, adjustable cables feed row fixtures (12 ga SJT)	■
AVAC_DWL for j-box or dry wall mounting, adjustable cables non-feed individual or row fixtures	■
AVACF_DWL for j-box or dry wall mounting, adjustable cables feed individual fixtures (18 ga SJT)	■
AVACF_DWL12AWG for j-box or dry wall mounting, adjustable cables feed row fixtures (12 ga SJT)	■
SCY_ for j-box or dry wall mounting, stem mount non-feed or feed individual or row fixtures	■

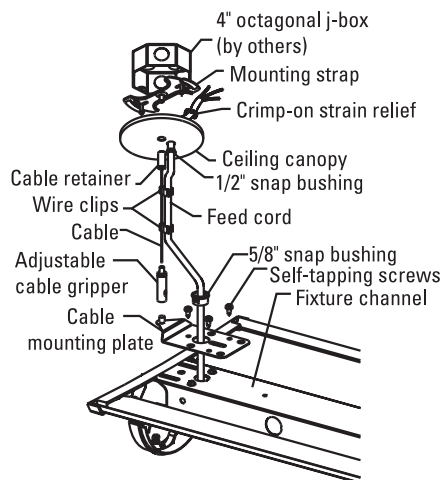
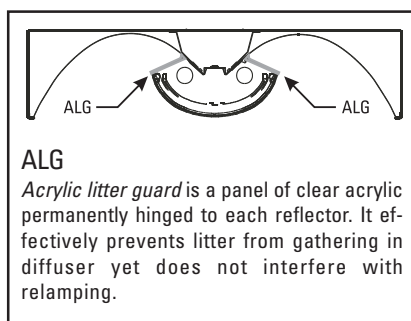
Note: Fixtures supplied with 15/16" t-grid mounting hardware standard.

Lengths for AVSM accessories above (example: AVACF30)

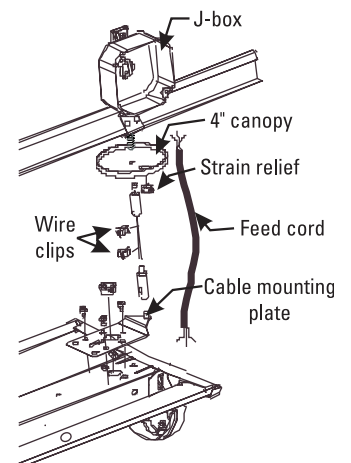
_30	3" to 30" below ceiling adjustable cable mounting	■
_60	30" to 60" below ceiling adjustable cable mounting	■
_96	60" to 96" below ceiling adjustable cable mounting	■
_144	96" to 144" below ceiling adjustable cable mounting	■
SCY4	4" below ceiling stem mounting	■

Notes:

- 1x4 T8 only.
- 1x4 T5/T5HO only.
- Compact fluorescent and T8 only.
- T5/T5HO only.



Adjustable Cable Feed (Dry Wall Mounting)



Adjustable Cable Feed (Grid Mounting)

Perceiva®

WW



Linear Wallwash

Intended Use

Developed to provide high performance, uniform, wall illumination. Use to high-light merchandise, artwork and signage.

Features

Recessed fluorescent wallwash system provides energy-efficient accent lighting. Provides maximum wall illumination with minimum brightness.

Eliminates hot spots, scalloping and shadows on vertical surfaces.

Highlights artwork, signage and merchandise.

High performance — 92% of light output illuminates wall. Asymmetric-throw reflector completely surrounds lamp cavity.

Choice of one or two T8 lamps or compact lamp versions.

Ballast accessible from room side.

Reversible end trim accommodates both grid and screw-slot ceiling systems.

GF trim provides ceiling-tile support trims on long sides, grid trim on ends. Continuous row (grid trim only) or unit installation.

T-bar hold-down clips supplied standard. DGA accessory available to provide trim flange and fixture support in plaster or plasterboard ceilings. For use with G trim fixture.

UL Listed (standard). CSA Certified (see Options).

Ordering Information

Example: **WW G 2 32 120 IRLS GEB**

Series	Trim type	Number of lamps	Lamp type	Voltage	Reflector finish	Options
WW 12" wide For tandem double-length unit, add prefix T. Example: TWW	G Lay-in grid ¹ GF Grid flanged ² ST Screw slot	1, 2 Not included.	17 17W T8 (24") 32 32W T8 (48") CF18 18W TT5 (12") CF40 40W TT5 RS (24") CF50 50W TT5 RS (24") CF55 55W TT5 (24") 25 25W T8 (36") 60T8 40W T8 (60")	120 277 347 MVOLT* Others available. * 120-277V. Must specify GEB10IS.	IRLS Low iridescent specular silver IRLD Low iridescent diffuse silver	1/4 One 4-lamp ballast GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified See pages 91 for others.

Accessories (Order separately)

DGA Flanged grid to drywall adapter, unit installation³

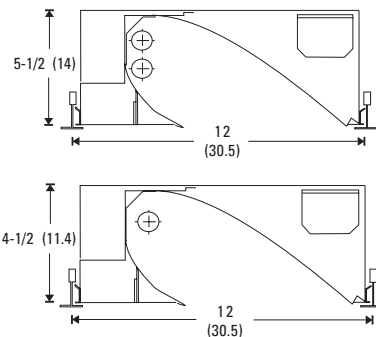
NOTES:

- 1 Use G trim plus DGA accessory for fixture-trim flange and fixture support in plaster or plasterboard ceilings.
- 2 Flanged sides, grid ends used in grid applications only.
- 3 Insert fixture width and length (in feet). Example: **DGA12**.

Availability and Dimensions

Series	Nominal length	Lamps per cross section	Lamps per fixture	Lamp type	Height in.(cm)
WW	1'	1	1	CF18	4½ (11.4)
WW	2'	1	1	17, CF40, CF50	4½ (11.4)
		2	2	17	5½ (14.0)
WW	4'	1	1	32	4½ (11.4)
		2	2	32	5½ (14.0)
TWW	4'	1	2	CF40, CF50	4½ (11.4)
WW	3'	1	1	25	4½ (11.4)
		2	2	25	5½ (14.0)
WW	5'	1	1	60T8	4½ (11.4)
		2	2	60T8	5½ (14.0)

Dimensions are shown in inches (centimeters) unless otherwise noted.



RP

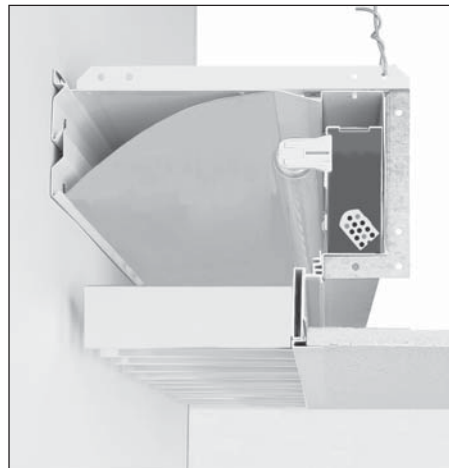
Intended Use

Delivers wall illumination for continuous recessed perimeter lighting applications. Provides conformable corridor and effective accent lighting.

Features

Continuous recessed wallwash lighting, available in any run length.
 Full range of corner angles.
 Choice of one or two lamps, staggered strip or butt strip electrical, optional internal reflector and a wide range of shielding for application flexibility.
 Available in choice of air function.
 Compatible with virtually all ceiling types.
 Single-circuit plug-in system standard.
 Facilitates installation and prevents field

miswiring. Two-circuit plug-in available.
 Parabolic louvers are cantilevered from ceiling side of housing to allow for irregularities in wall surfaces.
 Matches appearance of Paramax family fixtures.
 UL Listed (standard). CSA Certified (see Options).



IMPORTANT: Specify a separate catalog number for each RP run length by designating both the *product information* and the *row takeoff information* below. Be sure measurements and corner conditions are specified on a continuous path around the proposed system.

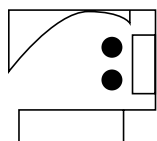
Product Information

Example: **RP 2 RS SE 120 GEB PBL12D R**

Series RP	Channel options (blank) None APB Air pattern control blade (with A) HRD Heat removal damper (with H)	Lamps per cross section 1, 2 Not included.	Electrical style SE Staggered (SS) BE Butt (C)	Voltage 120, 277, 347, MVOLT* Others available. * 120-277V. Must specify GEB10IS.	Shielding¹ A12125 #12 pattern acrylic, .125" thick ACF Flat white acrylic PC1 1/2" X 1/2" x 1/2" louver ² PC2 1 1/2" X 1 1/2" x 1" louver ² PC3 3/4" X 3/4" x 1/2" louver ² SBL Straight blade louver, white PBL12 Parabolic louver ³
Air function¹ (blank) Static, no reveal B Static with reveal A Air Supply/Return with reveal H Heat-removal with reveal	Lamp Type RS 2', 3' or 4' T12 (RS or TS) T8 2', 3' or 4' T8	Options¹ GLR Internal fast-blow fusing GEB Generic electronic ballast GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified	Internal reflector R		

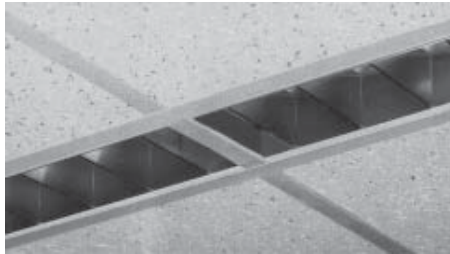
Row Takeoff Information

Start condition E End IC Inside corner OC Outside corner	Corner angle⁴ 90 90° 135 135°	End condition E End IC Inside corner OC Outside corner	Corner angle⁴ 90 90° 135 135°	Row length ___ (Specify feet and inches)
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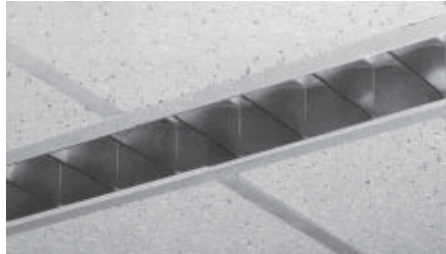


NOTES:
 1 Others available. Consult factory.
 2 Add S for silver or G for gold. Example: PC1S.
 3 Add S for silver, G for gold, C for champagne gold or D for semi-specular silver. Example: PBL12D.
 4 Available only with IC or OC.

NAT CNAT



NAT – For single-unit applications



CNAT – For continuous-row applications

Intended Use

Recessed louvered (or lensed) architecturally styled products provide linear illumination for retail and other applications.

Features

Narrow 6", 8", 9" and 12" linear products for single or continuous-row applications. NAT models in 2', 3' and 4' lengths. CNAT models suitable for continuous-row applications in sizes up to 8'.

Up to 2" deep parabolic louver available in choice of louver finish. Other shielding types available. See pages 90 and 91 for door frames and diffuser options.

Compatible with most ceiling types. See page 94.

Ordering Information

Example: **8NAT G 1 32 203LD 120 GEB**

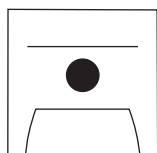
Series	Mounting	Number of lamps	Lamp type	Voltage	Options
6NAT 6" wide 8NAT 8" wide 9NAT 9" wide NAT 12" wide 6CNAT 6" wide 8CNAT 8" wide 9CNAT 9" wide CNAT 12" wide	G Lay-in grid F Flanged (see chart below) GF Grid ends, flanged sides ¹	1, 2 Not included.	17 17W T8 (24") 25 25W T8 (36") 30 30W T12 (36") 32 32W T8 (48")	120 277 347 MVOLT* Others available. * 120-277V. Must specify GEB10IS.	GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified NOM NOM Certified See pages 90 & 91 for others.
Louver depth	Louver blade spacing	Louver finish ³	OR	Door type ³	Diffuser type
15 1.5" louver 20 2" louver	2 2" center-to-center ² 3 3" center-to-center	LD Low iridescent anodized semi-specular silver LS Low iridescent anodized specular silver		(blank) No frame, lay-in shielding FW Flush white aluminum FN Flush natural aluminum FM Flush black aluminum RW Regressed white aluminum RN Regressed natural aluminum RM Regressed black aluminum	A12 #12 pattern acrylic A19 #19 pattern acrylic, .156" thick PC1S ½"x ½"x ½" plastic cube louver, silver ¹

Row Information For NAT, Flanged Mounting Only
(Add suffix to catalog number)

- CRE** Trim for NAT Continuous Row End. Two required per row.
- CRM** Trim for NAT Continuous Row Middle. Quantity per row is number of fixtures in row less two CRE.

NOTES:

- Available in NAT models only.
- 2" spacing available on 1.5" louver depth only.
- All doors and louvers lift and shift. Door frames available for NAT models only.
- T(tandem) units use two louvers.



Series	Nominal length	Number of lamps	Lamp type	Number of cells 2" spacing	Number of cells 3" spacing	Height in.(cm)
NAT/CNAT	2' (Standard)	1, 2	17	12	8	6 (15.2)
NAT/CNAT	3' (Standard)	1, 2	25, 30	18	12	6 (15.2)
NAT/CNAT	4' (Standard)	1, 2	32	24	16	6 (15.2)
TCNAT	6' (Tandem) ⁴	1, 2	25, 30	18x2 ⁴	12x2 ⁴	6 (15.2)
TCNAT	8' (Tandem) ⁴	1, 2	32	24x2 ⁴	16x2 ⁴	6 (15.2)

CNAT Accessories (Order separately)

- _CNATGEP** One pair end plates for CNAT with G trim. End plate trim supports ceiling tile. Order one pair per row. Specify 6 (6"), 8 (8"), 9 (9") or leave blank for 12".
- _CNATFEP** One pair end plates for CNAT with F trim. Order one pair per row. Specify 6 (6"), 8 (8"), 9 (9") or leave blank for 12".

RR/CRR/ CRRS

Intended Use

Recessed open (or lensed) row system provides linear illumination for retail and other applications. On CRRS models, lamps are visible from street to attract attention to retail operations.

Features

Channel rests on standard 12" center-to-center T-bar components. T-bar support required along length of fixture or row and across ends.

T-bar clips secure channel to ceiling system.

Bi-pin, slimline or 800mA lamps.

RR units shipped assembled in 2', 3', 4', 6' and 8' lengths for easy installation. End plates included and assembled on fixture.

CRR provides a continuous row of illumination without interruption by end plates and cross tees.

In row wiring, connection is made through continuous channel. Access to ballast is through channel cover (retained by quarter-turn fasteners).

High-gloss, baked white enamel, die-embossed reflector.

CRRS features shallow continuous reflector design that drops lamp center even with ceiling plane.

Listings – UL Listed (standard). CSA Certified (see Options).



Example: **CRR 2 96T8 120 GEB**

Ordering Information

Series	Lamp type	Diffuser type	Voltage	Options
RR Recessed row	17 17W T8 (24")	(blank) Open channel	120	1/4 One 4-lamp ballast
CRR Continuous recessed row	20 20W T12 (24")	A12 #12 pattern acrylic diffuser (RR and CRR only)	277	GEB Electronic ballast, ≤20% THD
CRRS Continuous recessed row, shallow	24HO 35W 800mA (24")		347	GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified See page 98 for others.
	25 25W T8 (36")		MVOLT*	
	30 30W T12 (36")		Others available.	
	32 32W T8 (48")		* 120-277V. Must specify GEB10IS.	
	36HO 45W 800mA (36")			
	40 40W T12 (48")			
	48 38W slimline (48")			
	48HO 60W 800mA (48")			
	72 55W slimline (72")			
	72HO 85W 800mA (72")			
Number of lamps				
1, 2, 3¹				
Not included.				
96 75W slimline (96")				
96HO 110W 800mA (96")				
96T8 59W T8 slimline (96")				

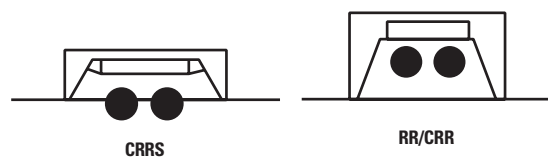
For tandem double-length unit, add prefix T. Example: **TCRR**.

Accessories (Order separately)

CRREP End plates flanged to support ceiling tile (pair). Order one pair per row. Required on all CRR and CRRS installations.

NOTES:

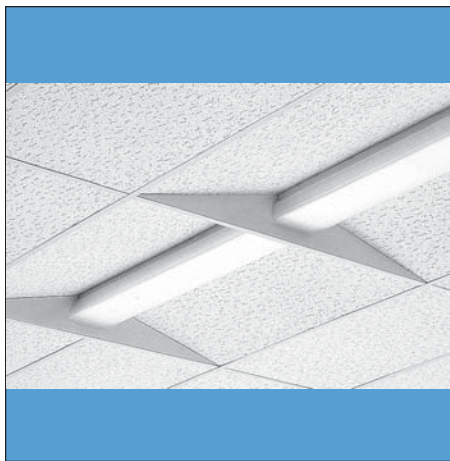
- 3-lamp models are T8 only.
- Fixture is shipped in two 96" cartons, tandem-wired using quick-connect plugs (installed).



Availability and Dimensions

Nominal length	Series	Lamps per cross section	Lamps per fixture	Lamp type	Depth in.(cm)	Length in.(cm)
2'	RR/CRR	1, 2, 3 ¹	1, 2, 3	17, 20	5 ¹³ / ₁₆ (14.8)	24 (61.0)
	RR/CRR	1, 2	1, 2	24HO	6 ¹ / ₈ (15.6)	24 (61.0)
	CRRS	1, 2	1, 2	24HO	5 ¹³ / ₁₆ (14.8)	24 (61.0)
3'	RR/CRR	1, 2, 3 ¹	1, 2, 3	25, 30	5 ¹³ / ₁₆ (14.8)	36 (91.4)
	RR/CRR	1, 2	1, 2	36HO	6 ¹ / ₈ (15.6)	36 (91.4)
	CRRS	1, 2	1, 2	36HO	5 ¹³ / ₁₆ (14.8)	36 (91.4)
4'	RR/CRR	1, 2, 3 ¹	1, 2, 3	32, 40, 48	5 ¹³ / ₁₆ (14.8)	48 (121.9)
	RR/CRR	1, 2	1, 2	48HO	6 ¹ / ₈ (15.6)	48 (121.9)
	CRRS	1, 2	1, 2	48HO	5 ¹³ / ₁₆ (14.8)	48 (121.9)
6'	TRR/TCRR	1, 2, 3 ¹	2, 4, 6	25, 30	5 ¹³ / ₁₆ (14.8)	72 (182.9)
	RR/CRR	1, 2	1, 2	72	5 ¹³ / ₁₆ (14.8)	72 (182.9)
	RR/CRR	1, 2	1, 2	72HO	6 ¹ / ₈ (15.6)	72 (182.9)
	CRRS	1, 2	1, 2	72HO	5 ¹³ / ₁₆ (14.8)	72 (182.9)
8'	TRR/TCRR	1, 2, 3 ¹	2, 4, 6	32, 40	5 ¹³ / ₁₆ (14.8)	96 (243.8)
	RR/CRR	1, 2	1, 2	96, 96T8	5 ¹³ / ₁₆ (14.8)	96 (243.8)
	RR/CRR	1, 2	1, 2	96HO	6 ¹ / ₈ (15.6)	96 (243.8)
	CRRS	1, 2	1, 2	96HO	5 ¹³ / ₁₆ (14.8)	96 (243.8)
16'	TRR/TCRR	1, 2	2, 4	96, 96T8	5 ¹³ / ₁₆ (14.8)	192 (487.7) ²
	TRR/TCRR	1, 2	2, 4	96HO	6 ¹ / ₈ (15.6)	192 (487.7) ²
	TCRRS	1, 2	2, 4	96HO	5 ¹³ / ₁₆ (14.8)	192 (487.7) ²

EC



Intended Use

Use for direct lighting in applications such as schools or all-purpose facilities.

Features

Fits standard 4'x4' inverted tee grid opening.

Uses standard 2'x4' ceiling tiles — no cutting required.

High-gloss, baked white enamel finish.

Extruded acrylic prismatic diffuser.

Holophane® injection-molded diffuser available.

For unit or row installation.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).

Ordering Information

Series EC <small>For tandem double-length unit, add prefix T. Example: TEC.</small>	Number of lamps 1, 2 <small>Not included.</small>	Lamp type 32 32W T8 (48") 40 40W T12 (48")	Diffuser type (blank) Acrylic prismatic 62 Holophane Percepta (1-lamp models only)	Voltage 120 277 347 MVOLT* <small>Others available. * 120-277V. Must specify GEB10IS.</small>	Options 1/4 One 4-lamp ballast GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified NOM NOM Certified <small>See page 98 for others.</small>
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Example: **EC 2 32 120 GEB**



Availability and Dimensions

Nominal length	Series	Lamps per cross section	Lamps per fixture	Length in.(cm)	Height in.(cm)
4'	EC	1	1	48 (121.9)	6 (15.2)
		2	2	48 (121.9)	6 (15.2)
8'	TEC	1	2	96 (243.8)	6 (15.2)
		2	4	96 (243.8)	6 (15.2)

SP8

Static

Intended Use

Specification premium, high performance, static T8 luminaires provide general illumination for recessed applications; ideal for restricted plenum spaces.

Features

Innovative low-profile design optimized around T8 lamps, low-profile electronic ballasts and T8 compact sockets.

Hemmed sides provide smooth edges for easy handling during installation.

Standard steel door frame features precise flush-mitered corners.

Unique door frame design delivers a premium extruded appearance.

Housing and door frame interface provides a superior mechanical light seal without the use of foam gasketing.

Standard latch provides spring action. Door latches and hinges from either side.

Improved performance – higher fixture efficiency and reduced lamp image.

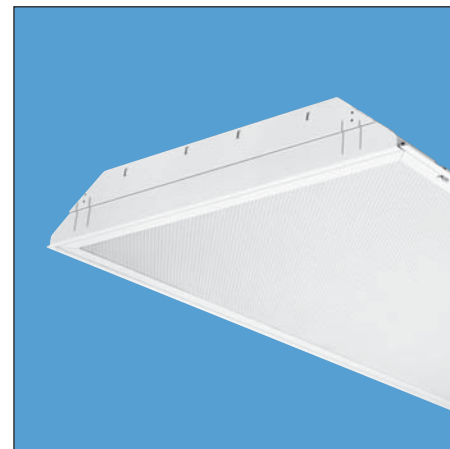
Integral T-bar safety clips are standard – no need to install separate clips.

Aluminum door frames available, flush or regressed.

Compatible with virtually all ceiling types. Field trim modification kits also available. See page 48.

U.S. patents – 6,210,025; 6,231,213; 6,213,625; 2,288,471.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).



Ordering Information

Example: **2SP8 G 3 32 A12 120 1/3 GEB**

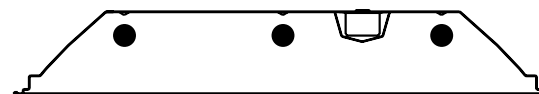
Series	Number of lamps	Frame type	Voltage	Options
2SP8 2' wide	2, 3, 4¹, 6¹ Not included.	(blank) Flush steel, white FN Flush aluminum, natural FM Flush aluminum, matte black FW Flush aluminum, white RN Regressed aluminum, natural RM Regressed aluminum, matte black RW Regressed aluminum, white	120 277 347 MVOLT* Others available. * 120-277V. Must specify GEB10IS.	1/3 One 3-lamp ballast 1/4 One 4-lamp ballast GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified NOM NOM Certified See pages 90 & 91 for others.
Trim type	Lamp type	Diffuser type		
G Grid F Flanged MT Modular fit-in	17 17W T8 (24") U31 31W T8 U (15/8" leg) U316 31W T8 U (6" leg) ² 32 32W T8 (48") CF39 39W TT5 (16") CF40 40W TT5 (24") CF50 50W TT5 (24") CF55 55W TT5 (24")	A12 #12 pattern acrylic ³ A12125 #12 pattern acrylic, .125" thick RA125 #12 pattern acrylic, .125" thick (reverse apex) A19 #19 pattern acrylic, .156" thick K20 #20 pattern acrylic, .140" thick 84Y Holophane 8224 with overlay PC1S 1/2"x1/2"x1/2" plastic cube louver, silver PC2S 1/2"x1/2"x1" plastic cube louver, silver with flange PC3S 3/4"x3/4"x1/2" plastic cube louver, silver		

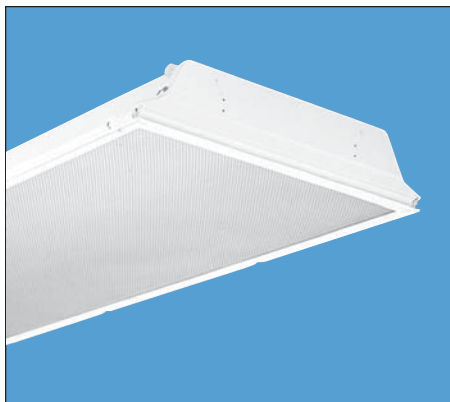
NOTES:

- 1 4- and 6-lamp models available with 17W and 32W straight tubes only.
- 2 Not available on 3-lamp fixtures. Use U31.
- 3 Standard A12 diffuser has reverse apex technology.

Availability and Dimensions

Nominal Size	Series	Number of Lamps	Lamp Type	Height in.(cm)
2x2	2SP8	2	17, U31, U316, CF39	3 ¹¹ / ₁₆ (9.3)
	2SP8	2	CF40, CF50, CF55	3 ¹¹ / ₁₆ (9.3)
	2SP8	3	17, U31, CF39	3 ¹¹ / ₁₆ (9.3)
	2SP8	3	CF40, CF50, CF55	3 ¹¹ / ₁₆ (9.3)
	2SP8	4	17	3 ¹¹ / ₁₆ (9.3)
2x4	2SP8	2, 3, 4, 6	32	3 ¹¹ / ₁₆ (9.3)





Specification Premium Troffers

Intended Use

Complete selection of specification premium static luminaires recommended for all general illumination recessed applications.

Fixtures available in metric sizes. Contact Lithonia Lighting sales representative.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).

Features

Fully gasketed door frame with opposing, rotary-action cam latches (optional spring-loaded latches available).

Aluminum door frames available; flush or regressed.

Integral T-bar safety clips are standard on 1'x4', 2'x2' and 2'x4' fixtures. No need to install separate clips.

Compatible with virtually all ceiling types See page 94. Field trim-modification kits also available.

Ordering Information

Example: **2SP G 2 32 RN A12 120 GEB**

Series	Trim type	Number of lamps	Lamp type	Frame type	Voltage	Options	Diffuser type ³
SP 1' wide	G Grid	1, 2, 3 4, 6, 8 <small>Not included.</small>	17 17W T8 (24")	(blank) Flush steel, white	120	1/3 One 3-lamp ballast	A12 #12 pattern acrylic
2SP 2' wide	F Flanged		20 20W T12 (24")	FN Flush aluminum, natural	277	1/4 One 4-lamp ballast	A12125 #12 pattern acrylic, .125" thick
4SP 4' wide ¹	MT Modular fit-in		U31 31W T8 U (15 ⁷ / ₈ " leg)	FM Flush aluminum, matte black	347	GEB Electronic ballast, ≤20% THD	A19 #19 pattern acrylic, .156" thick
			U316 31W T8 U (6" leg) ²	FW Flush aluminum, white	MVOLT*	GEB10IS T8 electronic ballast, ≤10% THD, instant start	K20 #20 pattern acrylic, .140" thick
			32 32W T8 (48")	RN Regressed aluminum, natural	<small>Others available.</small>	GEB10RS T8 electronic ballast, ≤10% THD, rapid start	84Y Holophane 8224 with overlay
			CF39 39W TT5 (16")	RM Regressed aluminum, matte black	<small>* 120-277V. Must specify GEB10IS.</small>	CSA CSA Certified	
			CF40 40W TT5 (24")	RW Regressed aluminum, white		NOM NOM Certified	
			CF50 50W TT5 (24")			<small>See pages 90 & 91 for others.</small>	
			CF55 55W TT5 (24")				

NOTES:

- 1 Not available with flush steel door.
- 2 Not available on 3-lamp fixtures. Use U31.
- 3 Center mullion standard on 4SP. 4'x4' lens optional.
- 4 Integral T-bar clips not available. Use **LATC** option.
- 5 Some options increase fixture depth. Consult Lithonia Lighting sales representative if plenum depth is a factor.



Availability and Dimensions

Nominal size	Series	Number of lamps	Lamp type	Height ⁵ in. (cm)
1x2	SP	1, 2	17, 20	4 ⁷ / ₈ (12.4)
			32	4 ⁷ / ₈ (12.4)
2x2	2SP	2, 3, 4	U40	3 ¹¹ / ₁₆ (9.3)
			17, 20, U31, U316, CF39	4 ¹ / ₄ (10.8)
			CF40, CF50, CF55	4 ¹ / ₄ (10.8)
			17, 20	4 ¹ / ₄ (10.8)
			U31, CF39, CF40	7 (17.8)
			CF50, CF55	7 (17.8)
2x4	2SP	2, 3, 4	17, 20, CF39	4 ¹ / ₄ (10.8)
			CF40, CF50, CF55	4 ¹ / ₄ (10.8)
			32	4 ¹ / ₂ (11.4)
4x4	4SP ^{3,4}	4, 6, 8	32	5 (12.7)

SP

Air-Handling

Intended Use

Complete selection of specification premium air-handling luminaires recommended for all general illumination recessed applications.

Features

Fully gasketed door frame with opposing rotary-action cam latches (optional spring-loaded latches available).

Full black reveal has floating door appearance.

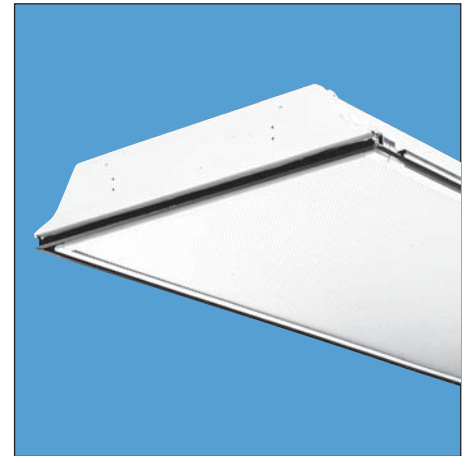
Aluminum door frames available; flush or regressed. Deep regress on 1'x4', 2'x2', 2'x4' and 4'x4' fixtures only. Air-flow control available with optional heat removal dampers and air pattern control blades.

Integral T-bar safety clips are standard on 1'x4', 2'x2' and 2'x4' fixtures. No need to install separate clips.

Compatible with virtually all ceiling types. See page 94. Field trim modification kits also available.

Fixtures available in metric sizes. Contact Lithonia Lighting sales representative.

Listings – Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).



Ordering Information

Example: **2SP G A 3 32 A12 120 1/3 GEB**

Series	Air function	Lamp type	Frame type	Voltage	Options	
SP 1' wide	B No air function, with reveal	17 17W T8 (24")	(blank) Flush steel, white	120	1/3 One 3-lamp ballast	
2SP 2' wide		20 20W T12 (24")	FN Flush aluminum, natural	277	1/4 One 4-lamp ballast	
4SP 4' wide ¹		U31 31W T8 U (1 ⁵ / ₈ " leg)	FM Flush aluminum, matte black	347	GEB Electronic ballast, ≤20% THD	
Trim type	A Air supply/return	U316 31W T8 U (6" leg) ³	FW Flush aluminum, white	MVOLT* Others available.	GEB10IS T8 electronic ballast, ≤10% THD, instant start	
		32 32W T8 (48")	RN Regressed aluminum, natural		GEB10RS T8 electronic ballast, ≤10% THD, rapid start	
G Grid	H Heat removal	40 40W T12 (48")	RM Regressed aluminum, matte black	* 120-277V. Must specify GEB10IS.	CSA CSA Certified	
		U40 40W T12 U (6" leg) ³	DRW Regressed aluminum, white		NOM NOM Certified	
F Flanged	D Dual A and H	CF39 39W TT5 (16")	DRW Regressed aluminum, white	Diffuser type ⁴		
		CF40 40W TT5 (24")		A12 #12 pattern acrylic		
MT Modular fit-in	Number of lamps	CF50 50W TT5 (24")	DRW Regressed aluminum, white	A12125 #12 pattern acrylic, .125" thick	See pages 90 & 91 for others.	
		CF55 55W TT5 (24")		A19 #19 pattern acrylic, .156" thick		
ST Screw slot ^{1,2}	2, 3, 4, 6, 8 Not included.					K20 #20 pattern acrylic, .140" thick
						84Y Holophane 8224 with overlay

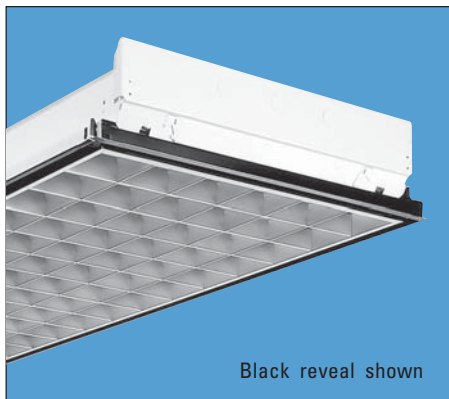
Availability and Dimensions				
Nominal size	Series	Number of lamps	Lamp type	Height ⁶ in. (cm)
1x2	SP AIR	1, 2	17, 20	4 ⁷ / ₈ (12.4)
1x4	SP AIR	1, 2, 3	32, 40	4 ⁷ / ₈ (12.4)
	SP AIR (DRW) ⁵	1, 2, 3	32, 40	6 ⁷ / ₈ (17.5)
2x2	2SP AIR	2	17, 20, U31, U40, U316, CF39, CF40, CF50, CF55	4 ³ / ₄ (10.8)
		3	17, 20	4 ¹ / ₂ (10.8)
		3	U31, CF39, CF40, CF50, CF55	7 (17.8)
		4	17, 20, CF39, CF40, CF50, CF55	4 ³ / ₄ (10.8)
2x2	2SP AIR (DRW) ⁵	2, 3	17, 20, U31, CF39, CF40, CF50, CF55	5 ¹³ / ₁₆ (14.8)
		2	U40, U316	6 ⁷ / ₈ (17.5)
		4	17, 20	5 ¹³ / ₁₆ (14.8)
2x4	2SP AIR	2, 3, 4	32, 40	4 ¹ / ₂ (11.4)
		2SP AIR (DRW) ⁵	2, 3, 4	5 ¹³ / ₁₆ (15.1)
4x4	4SP AIR ^{4,5}	4, 6, 8	32, 40	5 (12.7)
		4SP AIR (DRW) ^{4,5}	4, 6, 8	6 (15.2)

- NOTES:
- Not available with flush steel door.
 - Consult factory for fixture depth.
 - Not available on 3-lamp fixtures. Use U31.
 - Center mullion standard on 4SP AIR. 4'x4' lens optional.
 - Integral T-bar clips not available. Use LATIC option.
 - Some options increase fixture depth. Consult Lithonia Lighting sales representative if plenum depth is a factor.



SP

Small-Cell Louvers Static and Air-Handling



Black reveal shown

Specification Premium Troffers

Intended Use

Specification premium static and air-handling luminaires recommended for all general illumination applications.

Features

Premium-grade troffer with architectural small-cell aluminum louvers.

Choice of 1.5" and .75" deep cells.

Louver available in choice of low iridescent silver or low iridescent diffuse anodized finish.

Full black reveal and floating louver when air function is specified.

Full width louver, no black reveal when no air function is specified.

Integral T-bar clips standard on 1'x4', 2'x2' and 2'x4' fixtures. Eliminates the need to install separate clips.

Rotary cam latches standard.

Fixtures available in metric sizes. Contact Lithonia Lighting sales representative.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).

Ordering Information

Example: **2SP G D 3 32 10515LD 120 GEB**

Series	Air function ²	Number of lamps	Louver type	Louver finish	Options
SP 1' wide	(blank) Static, no reveal	1, 2, 3, 4, 6 Not included.	1'X4'	LD Low iridescent anodized diffuse silver	1/3 One 3-lamp ballast 1/4 One 4-lamp ballast GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified NOM NOM Certified See pages 90 & 91 for others.
2SP 2' wide	B No air function (with reveal) A Air supply/return H Heat removal D Dual A and H				
Trim type		Lamp type		Voltage	
G Grid		17 17W T8 (24")	2'X2'	120	
F Flanged		20 20W T12 (24")	3615 36 cells, 1.5" deep	277	
MT Modular fit-in		U31 31W T8 U (1 ⁵ / ₈ " leg)	4915 49 cells, 1.5" deep	347	
		U316 31W T8 U (6" leg) ¹	16975 169 cells, .75" deep	MVOLT*	
		32 32W T8 (48")	7815 78 cells, 1.5" deep	Others available.	
		40 40W T12 (48")	10515 105 cells, 1.5" deep	* 120-277V. Must specify GEB10IS.	
		U40 40W T12 U (6" leg) ¹	37775 377 cells, .75" deep		
		CF39 39W TT5 (16")			
		CF40 40W TT5 (24")			
		CF50 50W TT5 (24")			
		CF55 55W TT5 (24")			

NOTES:

- 1 Not available on 3-lamp fixtures. Use U31.
- 2 Some options increase fixture depth. Consult Lithonia Lighting sales representative if plenum depth is a factor.



Availability and Dimensions

Nominal size	Series	Number of lamps	Lamp type	Height ² in.(cm)
1x4	SP, SP AIR	1, 2, 3	32, 40	4 ⁷ / ₈ (12.4)
		2	17, 20, U31, U40, U316, CF39, CF40, CF50, CF55,	4 ¹ / ₄ (10.8)
		3	17, 20	4 ¹ / ₄ (10.8)
2x2	2SP, 2SP AIR	3	U31, CF39	7 (17.8)
		3	CF40, CF50, CF55	7 (17.8)
		4	17, 20, CF39	4 ¹ / ₄ (10.8)
		4	CF40, CF50, CF55	4 ¹ / ₄ (10.8)
2x4	2SP, 2SP AIR	2, 3, 4, 6	32, 40	4 ¹ / ₂ (11.4)

GT8

Static

Intended Use

Low-profile, static T8 luminaire provides general illumination for recessed applications. Ideal for restricted plenums.

Features

Innovative low-profile design optimized around T8 lamps and low-profile electronic ballasts.

Hemmed sides offer smooth, easy handling during installation.

Standard steel door frame features precise flush mitered corners. Unique design delivers a premium extruded appearance.

Housing and door frame interface provides a superior mechanical light seal without the use of foam gasketing.

Spring action latches are optional. Specify SAL. Door latches and hinges from either side.

Improved performance – higher fixture efficiency.

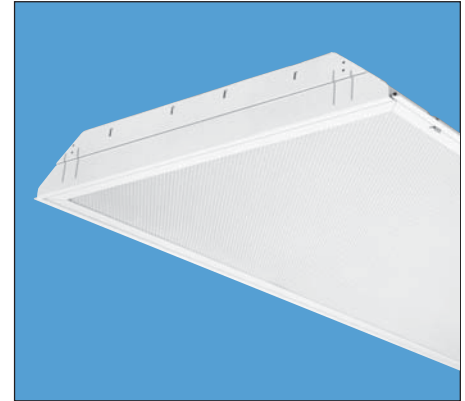
Integral T-bar safety clips are standard – no need to install separate clips.

Flush or regressed aluminum door frames available.

Compatible with most ceiling types. Field trim modification kits also available. See page 94.

U.S. patents – 6,210,025; 6,231,213; 6,213,625; 2,288,471.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).



Ordering Information

Example: **2GT8 2 32 A12 120 GEB**

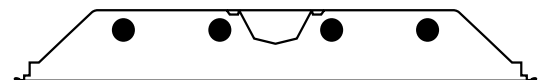
Series 2GT8 2' wide	Number of lamps 2, 3, 4 ¹ Not included.	Frame type (blank) Flush steel, white FN Flush aluminum, natural FM Flush aluminum, matte black FW Flush aluminum, white RN Regressed aluminum, natural RM Regressed aluminum, matte black RW Regressed aluminum, white	Voltage 120 277 347 MVOLT* Others available. * 120-277V. Must specify GEB10IS.	Options 1/3 One 3-lamp ballast 1/4 One 4-lamp ballast GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified NOM NOM Certified See pages 90 & 91 for others.
Trim type (blank) Grid F Flanged	Lamp type 17 17W T8 (24") U31 31W T8 U (1 ⁵ / ₈ " leg) U316 31W T8 U (6" leg) ² 32 32W T8 (48") CF39 39W TT5 (16") CF40 40W TT5 (24") ² CF50 50W TT5 (24") CF55 55W TT5 (24")	Diffuser type A12 #12 pattern acrylic A12125 #12 pattern acrylic, .125" thick A19 #19 pattern acrylic, .156" thick A15 #15 pattern acrylic, .200" thick K20 #20 pattern acrylic, .140" thick 84Y Holophane 8224 with overlay PC1S ½"x½"x½" plastic cube louver, silver PC2S 1½"x1½"x1" plastic cube louver, silver with flange ³ PC3S ¾"x¾"x½" plastic cube louver, silver		

Availability and Dimensions

Nominal size	Series	Number of lamps	Lamp type	Height in.(cm)
2x2	2GT8	2	17, U31, U316, CF40	3 ³ / ₁₆ (8.0)
		3	17, U31	3 ³ / ₁₆ (8.0)
		4	17	3 ³ / ₁₆ (8.0)
2x4	2GT8	2, 3, 4	32	3 ³ / ₁₆ (8.0)

NOTES:

- 1 4-lamp models available with 17W or 32W straight tube lamps only.
- 2 Not available on 3-lamp fixtures. Use U31.
- 3 Available with flush door frames only. Some 2x2 lamp and electrical combinations not available with PC2 louvers. Consult factory.



GT

Static



Grid Troffers

Intended Use

Static fixtures for all general illumination applications.

Features

Standard door is flush steel with opposing, rotary-action cam latches. Latches are painted after fabrication.

T-hinge is die-formed steel.

Aluminum doors available flush or regressed on GT and 2GT 2x4.

In-and-out wiring standard, ballast leads identified.

Integral T-bar safety clips are standard. Eliminates the need to install separate clips.

Flange trim option available on 1'x4' fixture. Field-installable trim modification kits also available.

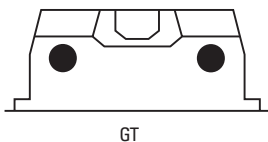
Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).

Ordering Information

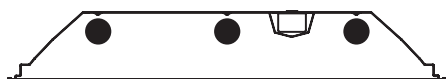
Example: **2GT 2 32 A12 120 GEB**

Series	Lamp type	Frame type	Voltage	Options
GT 1' wide 2GT 2' wide	32 32W T8 (48") 40 40W T12 (48")	(blank) Flush steel, white FN Flush aluminum, natural FM Flush aluminum, matte black FW Flush aluminum, white RN Regressed aluminum, natural RM Regressed aluminum, matte black RW Regressed aluminum, white	120 277 347 MVOLT* <small>Others available. * 120-277V. Must specify GEB10IS.</small>	1/3 One 3-lamp ballast 1/4 One 4-lamp ballast GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified NOM NOM Certified <small>See pages 90 & 91 for others.</small>
Trim type (blank) Grid F Flanged ¹				
Number of lamps 1, 2, 3, 4 <small>Not included.</small>				
			Diffuser type	
			A12 #12 pattern acrylic A12125 #12 pattern acrylic, .125" thick A19 #19 pattern acrylic, .156" thick K20 #20 pattern acrylic, .140" thick 84Y Holophane 8224 with overlay PC1S ½" x ½" x ½" plastic cube louver, silver ²	

NOTES:
1 Available on 1x4 fixtures only.
2 For gold finish, change S to G.



GT



2GT
2x4

Availability and Dimensions

Nominal size	Series	Number of lamps	Lamp type	Height in. (cm)
1x4	GT	1, 2	32, 40	4 ⁷ / ₈ (12.4)
2x4	2GT	2, 3, 4	32, 40	3 ¹¹ / ₁₆ (9.3)

PMOX

Optimax®

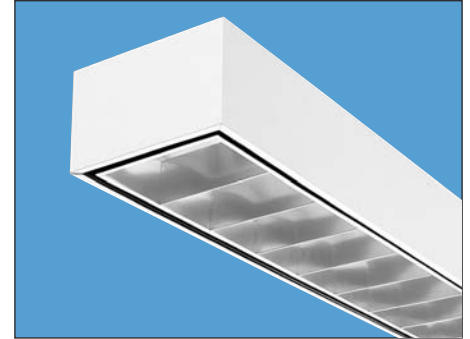
Intended Use

Full family of surface-mounted parabolic luminaires designed to control screen glare in VDT open office environments.

Features

- Optimax light-controlling optical assembly.
- Surface or stem mounting. A perfect companion to Optimax recessed luminaires.
- Floating louver appearance with full black reveal.
- Standard exterior finish is gloss white. Optional colors available.
- Provides optimum light control to eliminate objectionable glare on VDT screens caused by reflections from overhead lighting.
- Full top cover available.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).



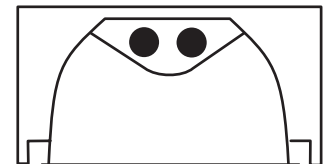
Ordering Information

Example: **2PMOX 3 32 27LS 120 GEB**

Series	Number of lamps	Number of cells	Louver finish	Voltage	Options
PMOX 1' wide	1, 2, 3 Not included.	4 1 row of 4 (20"x2')	LD Low iridescent anodized diffuse silver	120	GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified NOM NOM Certified See page 97 for others.
2PMOX 2' wide		8 2 rows of 4 (20"x4')		277	
TPMOX 1' wide (8' housing)		9 1 row of 9 (1'x4')	LS Low iridescent anodized specular silver	347	
	12 3 rows of 4 (2'x2')	MVOLT*			
		18 2 rows of 9 (20"x4')		Others available.	
		27 3 rows of 9 (2'x4')		* 120-277V. Must specify GEB10IS.	
	Lamp type				
	17 17W T8 (24")				
	U31 31W T8 U (1 5/8" leg)				
	32 32W T8 (48")				
	CF40 40W TT5 (24")				

Availability and Dimensions

Nominal size	Series	Number of lamps	Lamp type	Number of cells	Height in.(cm)
1x2	PMOX	1	17, U31, CF40	4 (1x4)	7 1/4 (18.4)
	PMOX	2	17	4 (1x4)	7 1/4 (18.4)
1x4	PMOX	1	32	9 (1x9)	7 1/4 (18.4)
	PMOX	2	32	9 (1x9)	7 1/4 (18.4)
	TPMOX	1	(2)CF40	9 (1x9)	7 1/4 (18.4)
1x8	TPMOX	1	(2) 32	D9 (1x18) ¹	7 1/4 (18.4)
	TPMOX	2	(4) 32	D9 (1x18) ¹	7 1/4 (18.4)
2x2	2PMOX	3	17, U31, CF40	12 (3x4)	6 1/8 (15.6)
	2PMOX	2	17, U31, CF40	8 (2x4)	6 1/8 (15.6)
	2PMOX	2	17, U31, CF40	12 (3x4)	6 1/8 (15.6)
2x4	2PMOX	3	32	27 (3x9)	6 1/8 (15.6)
	2PMOX	2	32	18 (2x9)	6 1/8 (15.6)
	2PMOX	2	32	27 (3x9)	6 1/8 (15.6)

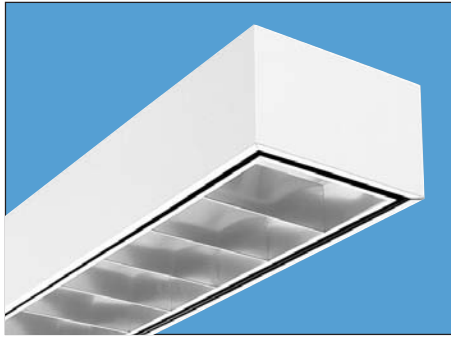


NOTES:

¹ **D** indicates double louver assemblies in tandem.

PM3X

Paramax®



Surface-Mounted Paramax

Intended Use

High-performance surface-mounted parabolic luminaires for superior light control, visual comfort and light cutoff in open area applications.

Features

Sturdy steel housing with Paramax 3" premium-grade aluminum louver.

For surface or stem mounting. A perfect companion to Paramax recessed luminaires.

Choice of size, lampping, cell configuration and louver finish.

Floating louver appearance with full black reveal.

Standard exterior finish is gloss white. Optional colors available.

Full top cover available.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).

Ordering Information

Example: **2PM3X 3 32 18LD 120 GEB**

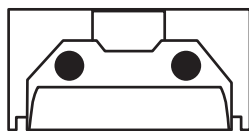
Series	Lamp type	Number of cells	Louver finish	Voltage	Options
PM3X 1' wide	U31 31W T8 U (1 $\frac{1}{8}$ " leg)	3, 4, 6, 8,	ND Achroma® non-iridescent diffuse silver ¹	120	1/3 One 3-lamp ballast
20PM3X 20" wide	U316 31W T8 U (6" leg)	9, 12, 16, 18,	LD Low iridescent anodized semi-specular silver	277	1/4 One 4-lamp ballast
2PM3X 2' wide	32 32W T8 (48")	24, 32, 64	LS Low iridescent anodized specular silver	347	GEB Electronic ballast, ≤20% THD
4PM3X 4' wide	40 40W T12 (48")			MVOLT*	GEB10IS T8 electronic ballast, ≤10% THD, instant start
TPM3X 1' wide (8' housing)	U40 40W T12 U (24")			Others available.	GEB10RS T8 electronic ballast, ≤10% THD, rapid start
HPM3X 1' wide	CF40 40W TT5 (24")			* 120-277V. Must specify GEB10IS.	CSA CSA Certified
See page 23 for HPM3 Series.	17 17W T8 (24")				NOM NOM Certified
	20 20W T12 (24")				See page 97 for others.
	25 25W T8 (36")				
	30 30W T12 (36")				
Number of lamps					
1, 2, 3, 4, 6, 8					
Not included.					

NOTES:

- 1x2 and 1x3 not available with ND Achroma® louver.
- Popular cell configurations are shown in **bold** type.
- Some options increase fixture depth. Consult Lithonia Lighting sales representative if plenum depth is a factor.
- D** indicates double louver assemblies in tandem.

Availability and Dimensions

Nominal size	Series	Number of lamps	Lamp type	Number of cells ² (rows x number in row)	Height ³ in.(cm)
1x2	PM3X	1, 2	17,20, U31, CF40	3(1x3), 4(1x4) , 6(2x3), 8(2x4)	7 $\frac{1}{16}$ (17.9)
		1	U40, U316	3(1x3), 4(1x4) , 6(2x3), 8(2x4)	7 $\frac{1}{16}$ (17.9)
1x3	PM3X	1, 2	25, 30	6(1x6) , 12(2x6)	7 $\frac{1}{16}$ (17.9)
		1, 2, 3	32, 40	6(1x6), 8(1x8), 9(1x9)	7 $\frac{1}{16}$ (17.9)
1x4	PM3X	2	32, 40	12(2x6), 16(2x8)	7 $\frac{1}{16}$ (17.9)
		1	(2) 32, 40	D6(1x12), D8(1x16), D9(1x18) ⁴	7 $\frac{1}{8}$ (18.1)
1x8	TPM3X	2	(4) 32, 40	D6(1x12), D8(1x16), D9(1x18) ⁴	7 $\frac{1}{8}$ (18.1)
		2	(4) 32, 40	D12(2x12), D16(2x16) ⁴	7 $\frac{1}{8}$ (18.1)
20"x4	20PM3X	2	32, 40	12(2x6) , 16(2x8), 18(3x6), 24(3x8)	6 $\frac{1}{8}$ (15.6)
		3	32, 40	18(3x6) , 24(3x8)	6 $\frac{1}{8}$ (15.6)
		4	32, 40	12(2x6) , 16(2x8), 18(3x6), 24(3x8)	6 $\frac{1}{8}$ (15.6)
2x2	2PM3X	2	U40, U316	6(2x3), 9(3x3) , 12(3x4), 16(4x4)	6 $\frac{1}{8}$ (15.6)
		2	17, 20, U31, CF40	6(2x3), 9(3x3) , 12(4x3), 16(4x4)	6 $\frac{1}{8}$ (15.6)
		3	17, 20, U31, CF40	9(3x3) , 12(3x4), 16(4x4)	6 $\frac{1}{8}$ (15.6)
		4	17, 20, CF40	9(3x3) , 12(4x3), 16(4x4)	6 $\frac{1}{8}$ (15.6)
2x4	2PM3X	2	32,40	12(2x6) , 16(2x8), 18(3x6), 24(4x6), 32(4x8)	6 $\frac{1}{8}$ (15.6)
		3	32, 40	18(3x6) , 24(3x8) , 32(4x8)	6 $\frac{1}{8}$ (15.6)
		4	32, 40	12(2x6), 16(2x8), 18(3x6), 24(4x6), 32(4x8)	6 $\frac{1}{8}$ (15.6)
4x4	4PM3X	6	32, 40	36(6x6) , 64(8x8)	6 $\frac{1}{2}$ (16.5)
		8	32, 40	36(6x6), 64(8x8)	6 $\frac{1}{2}$ (16.5)



Intended Use

Surface or stem-mounted lensed fixture for general illumination in commercial offices and retail applications.

Features

Die-formed, cold-rolled steel housing finished with baked white enamel.

Standard door is fully gasketed flush steel with sturdy tee hinges and opposing, rotary-action cam latches.

Spring-loaded latches optional.

Aluminum doors available, flush or regressed with choice of finish.

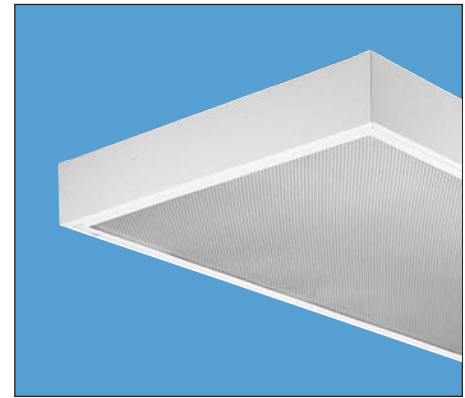
Optional plastic side panels available.

For surface or stem mounting, unit or row installation.

For unit mounting on stems: Minimum of two mounting stems required on 1'x4' models (four required on 3-lamp models). Four stems required on 2'x4' models.

For row mounting on stems: Use half the number of stems required for unit mounting except on last fixture in row. Example: on 2'x4' two-lamp and four-lamp fixtures, use two stems per fixture plus two per row.

Listings – 120V, 277V and MVOLT are UL Listed and CSA Certified (standard). See Options for 347V and NOM Certified.



Example: **2M 2 32 RW A19 120 GEB**

Ordering Information

Series	Lamp type	Frame type	Diffuser type	Voltage
M 1' wide	17 17W T8 (24")	(blank) Flush steel, white	A12 #12 pattern acrylic	120
2M 2' wide	20 20W T12 (24")	FN Flush aluminum, natural	A12125 #12 pattern acrylic, .125" thick	277
4M 4' wide	U31 31W T8 U (1 ⁵ / ₈ " leg)	FM Flush aluminum, matte black	A19 #19 pattern acrylic, .156" thick	347
Number of lamps 1, 2, 3¹, 4, 6, 8 Not included.	U316 31W T8 U (6" leg) ²	FW Flush aluminum, white	IM Injection-molded acrylic, .150" thick	MVOLT*
	32 32W T8 (48")	RN Regressed aluminum, natural	AC Dropped-dish, matte white acrylic	Others available.
	40 40W T12 (48")	RM Regressed aluminum, matte black	PC1S 1/2"x1/2"x1/2" plastic cube louver, silver	* 120-277V. Must specify GEB10IS.
	U40 40W T12 U (24") ²	RW Regressed aluminum, white	Center mullion standard on 4'x4' models.	
	CF40 40W TT5 (24")			

Options
1/3 One 3-lamp ballast
1/4 One 4-lamp ballast
GEB Electronic ballast, ≤20% THD
GEB10IS T8 electronic ballast, ≤10% THD, instant start
GEB10RS T8 electronic ballast, ≤10% THD, rapid start
PSP Luminous plastic side panels
CSA CSA Certified (347V only)
NOM NOM Certified

See page 97 for others.

Availability and Dimensions

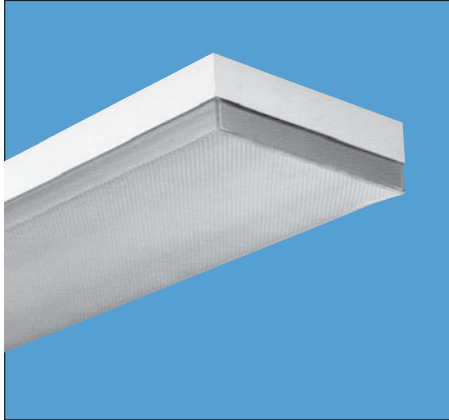
Nominal size	Series	Number of lamps	Lamp type	Width in.(cm)	Depth in.(cm)	Length in.(cm)
1x4	M	1, 2, 3	32, 40	12 (30.5)	3 ³ / ₄ (9.5)	48 (121.9)
2x2	2M	1, 2	U40, U316	24 (61.0)	3 ³ / ₄ (9.5)	24 (61.0)
		2, 3	17, 20, U31, CF40	24 (61.0)	3 ³ / ₄ (9.5)	24 (61.0)
		4 ³	17, 20, CF40	24 (61.0)	3 ³ / ₄ (9.5)	24 (61.0)
2x4	2M	2, 3, 4	32, 40	24 (61.0)	3 ³ / ₄ (9.5)	48 (121.9)
4x4	4M	4, 6, 8	32, 40	48 (121.9)	3 ³ / ₄ (9.5)	48 (121.9)

NOTES:

- 1 Stem mounting is not recommended for 3-lamp 2x4 models.
- 2 6" leg spacing standard on 2-lamp models. Not available on 3-lamp models; specify U31.
- 3 4 CF40 available with electronic ballast only.



AW



Architectural Wraparounds

Intended Use

For surface or suspended applications that require a low-profile architectural appearance. Provides high vertical and horizontal illumination for walkways, corridors, offices and retail applications.

Features

Flat-bottom acrylic prismatic diffuser with sonic-welded, injection-molded, luminous ends.

Diffuser held by four torsion springs. Hinges or latches from either side for easy cleaning and service.

Choice of width — models available with 2, 3 or 4 lamps. For 5¼" width, see companion CA Series.

Optional high-impact-resistant acrylic (AR) diffuser includes 50% DR additive for strength.

Two 4-foot diffusers provided on tandem models.

White housing standard, black and special colors optional.

For surface or stem mounting, unit or row installation. Order two hangers for 2-lamp and 4-lamp models, four hangers for 3-lamp models.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).

Ordering Information

Example: **AW 2 32 AR 120 GEB**

Series	Number of lamps	Lamp type	Diffuser type	Voltage	Options
AW Standard width	2, 3, 4 Not included.	32 32W T8 (48")	(blank) Prismatic	120	1/3 One 3-lamp ballast
2AW 2 lamps in wide housing		40 40W T12 (48")	AR High-impact prismatic	277	1/4 One 4-lamp ballast
				347	GEB Electronic ballast, <20% THD
				MVOLT*	GEB10IS T8 electronic ballast, <10% THD, instant start
				Others available.	GEB10RS T8 electronic ballast, <10% THD, rapid start
				* 120-277V. Must specify GEB10IS.	CSA CSA Certified
					NOM NOM Certified
					See page 97 for others.

For tandem double-length unit, add prefix T. Example: **TAW**



Availability and Dimensions						
Series	Lamps per cross section	Lamps per fixture	Lamp length in.	Width in.(cm)	Depth in.(cm)	Length in.(cm)
AW	2	2	48	11¼ (28.6)	3 ⁵ / ₁₆ (8.4)	48 (121.9)
	3	3	48	16¾ (42.5)	3 ⁵ / ₁₆ (8.4)	48 (121.9)
	4	4	48	16¾ (42.5)	3 ⁵ / ₁₆ (8.4)	48 (121.9)
2AW	2	2	48	16¾ (42.5)	3 ⁵ / ₁₆ (8.4)	48 (121.9)
TAW	2	4	48	11¼ (28.6)	3 ⁵ / ₁₆ (7.9)	96 (243.8)
	3	6	48	16¾ (42.5)	3 ⁵ / ₁₆ (7.9)	96 (243.8)
	4	8	48	16¾ (42.5)	3 ⁵ / ₁₆ (7.9)	96 (243.8)
T2AW	2	4	48	16¾ (42.5)	3 ⁵ / ₁₆ (7.9)	96 (243.8)

Intended Use

For applications where a narrow-profile architectural appearance is desired. Ideal for areas such as corridors or stairwells where size is critical.

Slim, low-profile housing for ceiling or wall mounting.

White housing standard. Black and special colors optional.

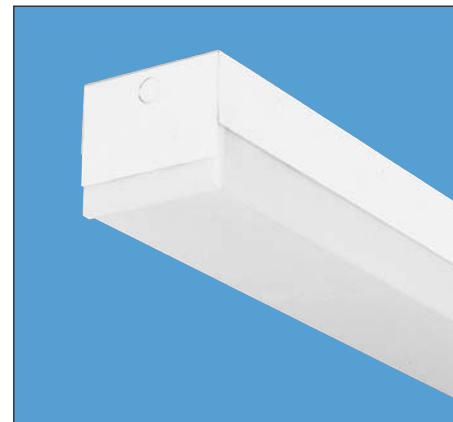
Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).

Features

Companion to AW Series, but only 5¼" wide.

Choice of flat-bottom diffusers — prismatic acrylic or matte white opal acrylic. Both available in high-impact versions.

Diffuser held by four torsion springs. Hinges open from either side for easy cleaning and service.



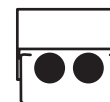
Ordering Information

Series	Number of lamps	Lamp type	Diffuser type	Voltage	Options
CA <small>For tandem double-length unit, add prefix T. Example: TCA</small>	1, 2 <small>Not included.</small>	17 17W T8 (24") 20 20W T12 (24") 25 25W T8 (36") 30 30W T12 (36") 32 32W T8 (48") 40 40W T12 (48")	(blank) Prismatic AR High-impact prismatic ACW Matte white AWR High-impact matte white	120 277 347 MVOLT* <small>Others available. * 120-277V. Must specify GEB10IS.</small>	1/4 One 4-lamp ballast GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified NOM NOM Certified <small>See page 97 for others.</small>

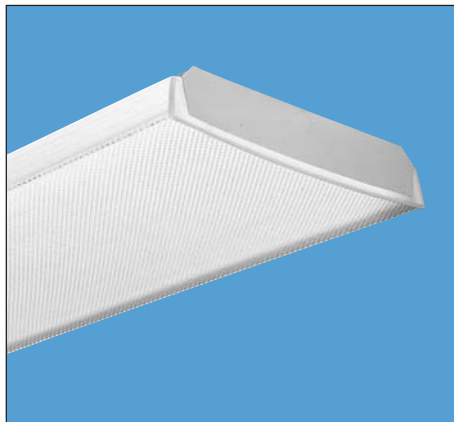
Example: **CA 1 32 ACW 120 GEB**

Availability and Dimensions

Series	Lamps per cross section	Lamps per fixture	Lamp length in.	Width in.(cm)	Depth in.(cm)	Length in.(cm)
CA	1	1	24	5¼ (13.3)	4⅝ (11.8)	24½ (62.2)
	2	2	24	5¼ (13.3)	4⅝ (11.8)	24½ (62.2)
CA	1	1	36	5¼ (13.3)	4⅝ (11.8)	36½ (92.7)
	2	2	36	5¼ (13.3)	4⅝ (11.8)	36½ (92.7)
CA	1	1	48	5¼ (13.3)	4⅝ (11.8)	48½ (123.2)
	2	2	48	5¼ (13.3)	4⅝ (11.8)	48½ (123.2)
TCA	1	2	48	5¼ (13.3)	4⅝ (11.8)	97 (246.4)
	2	4	48	5¼ (13.3)	4⅝ (11.8)	97 (246.4)



LB



Low-Profile Wraparounds

Intended Use

For applications requiring a clean, decorative appearance. Provides high vertical illumination and brightness control.

Features

Acrylic prismatic diffuser with sonic-welded, injection-molded, luminous ends. Matches CB Series in appearance.

White enamel end plates – optional appliques available for field installation.

Linear side prisms control brightness; pyramidal bottom prisms minimize lamp image.

Continuous, interlocking-diffuser support prevents accidental opening, simplifies cleaning and service.

For surface or stem mounting, unit or row installation. Snap-in aligners permit row mounting without tools.

Minimum two hangers required. For row installation, one hanger per fixture plus one per row required. Four single-stem hangers required for 3-lamp versions.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).

Ordering Information

Series	Number of lamps	Lamp type	Voltage	Options
LB Standard width	2, 3, 4	17 17W T8 (24")	120	1/3 One 3-lamp ballast
2LB 2 lamps in wide housing	Not included.	20 20W T12 (24")	277	1/4 One 4-lamp ballast
For tandem double-length unit, add prefix T . Example: TLB		32 32W T8 (48")	347	GEB Electronic ballast, ≤20% THD
		40 40W T12 (48")	MVOLT*	GEB10IS T8 electronic ballast, ≤10% THD, instant start
			Others available.	GEB10RS T8 electronic ballast, ≤10% THD, rapid start
			* 120-277V. Must specify GEB10IS.	CSA CSA Certified
				NOM NOM Certified
				See page 97 for others.

Example: **LB 2 32 120 GEB**

Accessories (Order separately)

Order one pair per fixture or row

LB2W* Walnut end plate appliques for narrow body, one pair.

LB4W* Walnut end plate appliques for wide body, one pair.

* For teak appliques, substitute T for W in catalog number. Example: LB2T.



Availability and Dimensions

Series	Lamps per cross section	Lamps per fixture	Lamp length in.	Width in. (cm)	Depth in. (cm)	Length in. (cm)
LB	2	2	24	10 (25.4)	3 (7.6)	24 (61.0)
	4	4	24	15 ³ / ₈ (39.1)	3 (7.6)	24 (61.0)
LB	2	2	48	10 (25.4)	3 (7.6)	48 (121.9)
	3	3	48	15 ³ / ₈ (39.1)	3 (7.6)	48 (121.9)
LB	4	4	48	15 ³ / ₈ (39.1)	3 (7.6)	48 (121.9)
	2	2	48	15 ³ / ₈ (39.1)	3 (7.6)	48 (121.9)
2LB	2	2	48	10 (25.4)	3 (7.6)	96 (243.8)
	4	4	48	15 ³ / ₈ (39.1)	3 (7.6)	96 (243.8)
TLB	3	6	48	15 ³ / ₈ (39.1)	3 (7.6)	96 (243.8)
	4	8	48	15 ³ / ₈ (39.1)	3 (7.6)	96 (243.8)
T2LB	2	4	48	15 ³ / ₈ (39.1)	3 (7.6)	96 (243.8)

Intended Use

For applications requiring a narrow profile and decorative appearance. Ideal for corridors or spaces where medium light levels in a compact design are preferred.

Features

Acrylic prismatic diffuser with sonic-welded, injection-molded, luminous ends. Matches LB Series in appearance.

White enamel end plates.

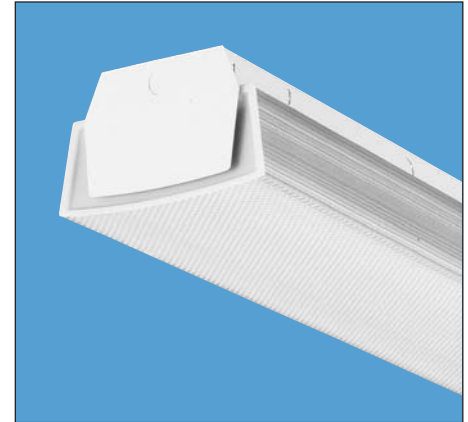
Linear side prisms control brightness, pyramidal bottom prisms minimize lamp image.

Continuous, interlocking-diffuser support prevents accidental opening, simplifies cleaning and service.

For surface or stem mounting, unit or row installation. Snap-in couplers permit row mounting without tools.

Minimum two hangers required. For row installation, one hanger per fixture plus one per row required.

Listings – UL Listed (standard). CSA Certified (see Options).



Example: **CB 1 32 120 GEB**

Ordering Information

Series	Number of lamps	Lamp type	Voltage	Options
CB <small>For tandem double-length unit, add prefix T. Example: TCB</small>	1, 2 <small>Not included.</small>	17 17W T8 (24") 20 20W T12 (48") 32 32W T8 (48") 40 40W T12 (48")	120 277 347 MVOLT* <small>Others available. * 120-277V. Must specify GEB10IS.</small>	1/4 One 4-lamp ballast GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified <small>See page 97 for others.</small>

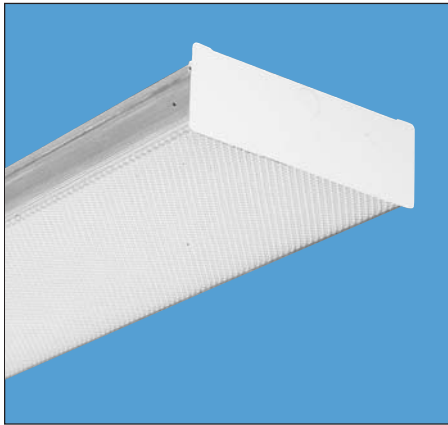
Availability and Dimensions

Series	Lamps per cross section	Lamps per fixture	Lamp length in.	Width in. (cm)	Depth in. (cm)	Length in. (cm)
CB	1,2	1,2	24	7 (17.8)	4½ (11.4)	24 (61.0)
			48	7 (17.8)	4½ (11.4)	48 (121.9)
TCB	1,2	2,4	48	7 (17.8)	4½ (11.4)	96 (243.8)



SB

Square-Basket Wraparounds



Intended Use

For applications that require the clean appearance of a flat-bottom diffuser. Provides high light levels for storage rooms, offices or retail applications.

Features

Flat-bottom acrylic prismatic diffuser. Matches CS Series in appearance.

Full-depth, white enamel end plates.

Linear side prisms control brightness, pyramidal bottom prisms minimize lamp image.

Diffuser hinges open from either side for easy cleaning and service.

For surface or stem mounting (4-foot models only), unit or row installation.

Minimum two single-stem hangers required. For row installation, one hanger per fixture plus one per row required.

Listings – 120V, 277V and MVOLT are UL Listed and CSA Certified (standard). See Options for 347V and NOM Certified.

Ordering Information

Example: **SB 2 32 120 GEB**

Series	Number of lamps	Lamp type	Voltage	Options
SB Standard width 2SB 2 lamps in wide housing	2, 4 Not included.	17 17W T8 (24") 20 20W T12 (24") 32 32W T8 (48") 40 40W T12 (48")	120 277 347 MVOLT* <small>Others available. * 120-277V. Must specify GEB10IS.</small>	1/3 One 3-lamp ballast 1/4 One 4-lamp ballast GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified (347V only) NOM NOM Certified <small>See page 97 for others.</small>



Availability and Dimensions						
Series	Lamps per cross section	Lamps per fixture	Lamp length in.	Width in. (cm)	Depth in. (cm)	Length in. (cm)
SB	2	2	24	8 ¹ / ₃ (21.2)	2 ⁷ / ₈ (6.0)	24 (61.0)
	2	2	48	8 ¹ / ₃ (21.2)	2 ⁷ / ₈ (6.0)	48 (121.9)
	4	4	48	13 ³ / ₄ (34.9)	2 ⁷ / ₈ (6.0)	48 (121.9)
2SB	2	2	48	13 ³ / ₄ (34.9)	2 ⁷ / ₈ (6.0)	48 (121.9)

Intended Use

For applications that require a narrow-profile design with flat-bottom diffuser. Provides medium light levels in a compact fixture.

Features

Contemporary style with flat-bottom acrylic prismatic diffuser. Matches SB Series in appearance.

Linear side prisms control brightness. Pyramidal bottom prisms minimize lamp image.

Diffuser hinges open from either side for easy cleaning and service.

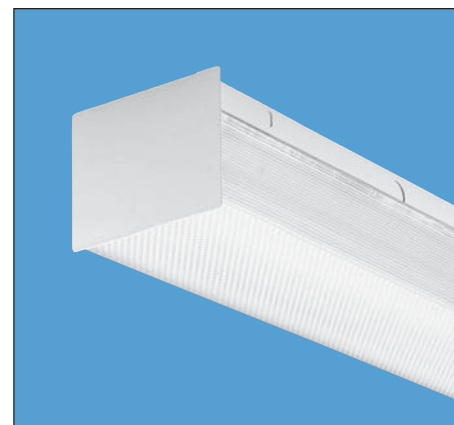
Two 4-foot diffusers provided on 8-foot units.

For surface or stem mounting, unit or row installation.

Minimum two hangers required. For row installation, one hanger per fixture plus one per row required.

Suitable for wall mounting with diffuser mounting clips (included with fixture).

Listings –UL Listed (standard). CSA Certified (see Options).



Catalog Number

Example: **CS 1 32 120 GEB**

Series	Number of lamps	Lamp type	Voltage	Options
CS <small>For tandem double-length unit, add prefix T. Example: TCS</small>	1, 2 <small>Not included.</small>	17 17W T8 (24") 20 20W T12 (24") 32 32W T8 (48") 40 40W T12 (48")	120 277 347 MVOLT* <small>Others available. * 120-277V. Must specify GEB10IS.</small>	1/4 One 4-lamp ballast GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified <small>See page 97 for others.</small>

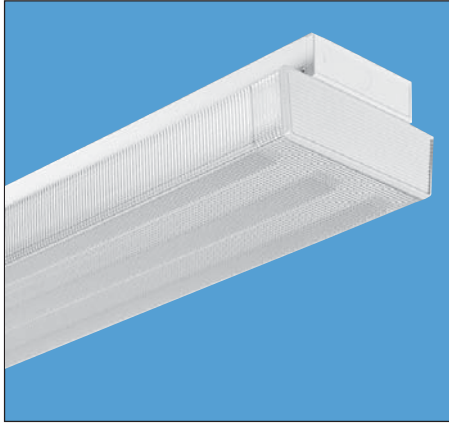
Availability and Dimensions

Series	Lamps per cross section	Lamps per fixture	Lamp length in.	Width in. (cm)	Depth in. (cm)	Length in. (cm)
CS	1	1	24	5 ¹³ / ₁₆ (14.8)	4½ (11.4)	24 (61.0)
	2	2	24	5 ¹³ / ₁₆ (14.8)	4½ (11.4)	24 (61.0)
	1	1	48	5 ¹³ / ₁₆ (14.8)	4½ (11.4)	48 (121.9)
	2	2	48	5 ¹³ / ₁₆ (14.8)	4½ (11.4)	48 (121.9)
TCS	1	2	48	5 ¹³ / ₁₆ (14.8)	4½ (11.4)	96 (243.8)
	2	4	48	5 ¹³ / ₁₆ (14.8)	4½ (11.4)	96 (243.8)



CLM

Classmate™



Specification Premium Wraparounds

Intended Use

For applications where brightness and vertical illumination are beneficial. Ideal for schools and other applications that require high light levels.

Features

High-impact, vandal-resistant acrylic diffuser with white, sonic-welded, injection-molded ends standard.

Optional Holophane® injection-molded acrylic Controlens® wraparound shielding bonded to opaque acrylic end caps.

Shielding is secured by spring-loaded metal latches — hinges open from either side for easy cleaning and service.

For surface or stem mounting, unit or row installation.

Unit installation requires two single-stem hangers or one double-stem hanger on 4-foot units. Row installation requires one hanger per fixture plus one per row.

Ballast cover secured by quarter-turn fastener – no tools required to access electrical chamber.

Rotary, anti-vibration lampholders standard.

Listings – UL Listed (standard). CSA Certified (see Options).

Ordering Information

Example: **CLM 2 32 120 GEB**

Series	Number of lamps	Lamp type	Diffuser type ¹	Voltage	Options
CLM <small>For tandem double-length unit, add prefix T. Example: TCLM</small>	1, 2, 3 <small>Not included.</small>	32 32W T8 (48") 40 40W T12 (48")	(blank) High-impact acrylic IM Holophane #7100 injection-molded acrylic	120 277 347 MVOLT* <small>Others available.</small>	1/3 One 3-lamp ballast 1/4 One 4-lamp ballast GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified NOM NOM Certified <small>See page 97 for others.</small>
* 120-277V. Must specify GEB10IS.					

NOTES:
1 Diffuser shipped separately.

Availability and Dimensions						
Series	Lamps per cross section	Lamps per fixture	Lamp length in.	Width in. (cm)	Depth in. (cm)	Length in. (cm)
CLM	1	1	48	8 ⁹ / ₁₆ (21.7)	4 ³ / ₈ (11.1)	48 (121.8)
	2	2	48	8 ⁹ / ₁₆ (21.7)	4 ³ / ₈ (11.1)	48 (121.8)
	3	3	48	8 ⁹ / ₁₆ (21.7)	4 ³ / ₈ (11.1)	48 (121.8)
TCLM	1	2	48	8 ⁹ / ₁₆ (21.7)	4 ³ / ₈ (11.1)	96 (243.6)
	2	4	48	8 ⁹ / ₁₆ (21.7)	4 ³ / ₈ (11.1)	96 (243.6)
	3	6	48	8 ⁹ / ₁₆ (21.7)	4 ³ / ₈ (11.1)	96 (243.6)



Intended Use

For surface-mount applications that require optimum optical control with low brightness. Ideal for public areas such as schools, airports, libraries, retail stores and offices.

Features

Injection-molded, flat-bottom acrylic prismatic diffuser provides optimum controlled, low brightness illumination.

Linear side prisms control brightness. Pyramidal bottom prisms minimize lamp image.

Concealed hinge or latch system permits diffuser to be hinged from either side.

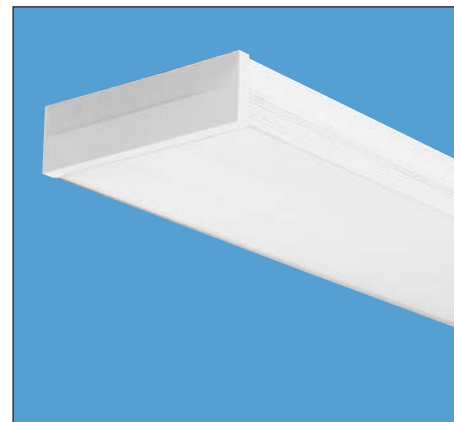
Design minimizes ceiling shadows and sharp contrasts.

For surface or stem mounting, individual or row installation. For row installation, one hanger per fixture plus one per row required.

End plates shipped as accessory, one pair required for individual or end of row mount.

Decorative end plates are required for individual mount or one pair for each row of fixtures.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).



Ordering Information

Example: **VC 2 32 120 GEB VC2WH**

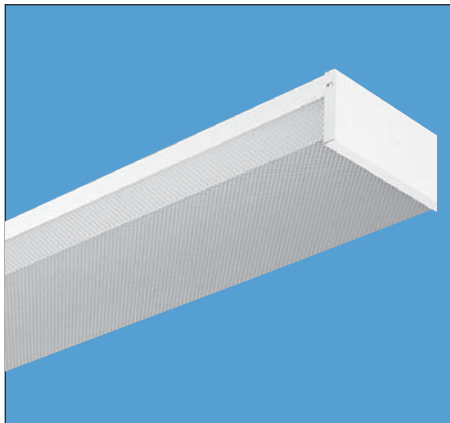
Series	Number of lamps	Lamp type	Voltage	Options	End plates
VC Standard width	2, 4	32 32W T8 (48")	120	1/4 One 4-lamp ballast	(blank) No end plates (for continuous runs)
2VC 2 lamps in wide housing	Not included.	40 40W T12 (48")	277	GEB Electronic ballast, ≤20% THD	VC2WH Two end plates, standard width, white (for individual fixture or end of row)
For tandem double-length unit, add prefix T . Example: TVC			347	GEB10IS T8 electronic ballast, ≤10% THD, instant start	VC4WH Two end plates, wide width, white (for individual fixture or end of row)
			MVOLT*	GEB10RS T8 electronic ballast, ≤10% THD, rapid start	
			Others available.	CSA CSA Certified	
			* 120-277V. Must specify GEB10IS.	NOM NOM Certified	
				See page 97 for others.	

Availability and Dimensions

Series	Lamps per cross section	Lamps per fixture	Width in.(cm)	Depth in.(cm)	Length in.(cm)
VC	2	2	10¾ (27.3)	3¼ (8.3)	48 (121.9)
	4	4	15¾ (40.0)	3¼ (8.3)	48 (121.9)
2VC	2	2	15¾ (40.0)	3¼ (8.3)	48 (121.9)
TVC	2	4	10¾ (27.3)	3¼ (8.3)	96 (243.8)
	4	8	15¾ (40.0)	3¼ (8.3)	96 (243.8)
T2VC	2	4	15¾ (40.0)	3¼ (8.3)	96 (243.8)



BWX



Commercial Wraparounds

Intended Use

Provides general area illumination in a compact design. Ideal for applications that require high brightness and vertical illumination.

Features

White, surface-mounted housing.
 No. 12 prismatic acrylic wraparound shielding standard.
 Pyramidal bottom prisms minimize lamp image. Design minimizes ceiling shadows and sharp contrasts.
 For surface mounting, unit or row installation.
 Stem-mounting unit installation requires two single-stem hangers per 4-foot unit.

Listings – CSA Certified. **These models not available in U.S.**

Ordering Information

Example: **BWX 2 32 120 GEB**

Series	Number of lamps	Lamp type	Voltage	Ballast options	Options
BWX Narrow, low-profile channel	2 Not included.	32 32W T8 (48") 40 40W T12 (48")	120 277 347 MVOLT* Others available.	ES Energy-saving (40W only) GEB T8 electronic ballast ≤ 20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start	See page 97.

* 120-277V. Must specify GEB10IS.

Availability and Dimensions

Series	Lamps per cross section	Lamps per fixture	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
BWX	2	2	32, 40	6½ (16.5)	2½ (6.3)	48 (121.8)



N2S

Finesse®

Intended Use

For undercabinet applications that require additional shielding from direct glare. Ideal for offices, hospitals, laboratories and kitchens.

Features

Trim, 1⁵/₈" low-profile design with a smooth show surface, free of knockouts.

Paint after fabrication, gloss-white enamel finish on all metal parts.

Solid-front housing eliminates direct glare.

Snap-in, positive lens retention.

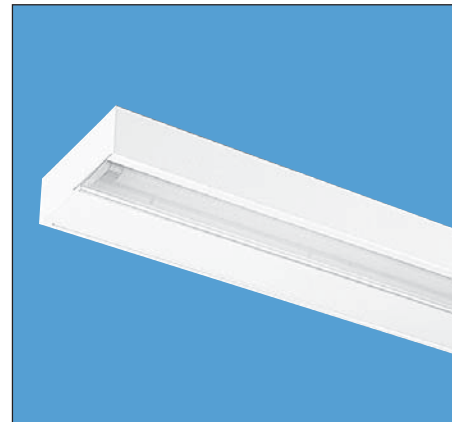
Proprietary, shatter-resistant diffuser provides optimum uniformity of light distribution.

Utilizes T8 lamp technology for energy efficiency and maximum visual clarity.

Separate, hingeable service tray for easy installation and maintenance — no tools required for relamping.

Limited Lifetime Warranty.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).



Example: **N2S 13T8PH 120 SWR**

Ordering Information

Series	Lamp type	Voltage	Options
N2S	13T8PH 13W T8 preheat (12") ¹	120	GEB Electronic ballast, ≤20% THD
	15T8PH 15W T8 preheat (18") ¹	277	GEB10IS T8 electronic ballast, ≤10% THD, instant start
	15T8 15W T8 trigger start HPF (18") ¹	347	GEB10RS T8 electronic ballast, ≤10% THD, rapid start
	17 17W T8 (24") ¹	MVOLT*	GLR Internal fast-blow fuse
	25 25W T8 (36")	Others available.	GMF Internal slow-blow fuse
	32 32W T8 (48")	* 120-277V. Must specify GEB10IS.	CSW 6-foot, 3-wire grounded cordset, right end ^{2,3,4}
60T8 40W T8 (60")	Not included.	CSWL 6-foot, 3-wire grounded cordset, left end ^{2,3,4}	
			CSWC 6-foot, 3-wire grounded cordset, back center ^{2,3,4}
			CO Convenience outlet, bottom right ^{2,5}
			COL Convenience outlet, bottom left ^{2,5}
			SWR Rocker switch, bottom right ²
			SWRL Rocker switch, bottom left ²
			SWRC Rocker switch, bottom center ^{2,6}
			CSA CSA Certified
			NOM NOM Certified

Availability and Dimensions

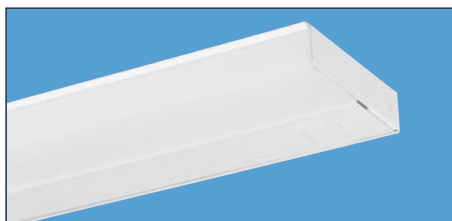
Nominal length (ft.)	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
1	13T8PH	5½ (14.0)	1 ⁵ / ₈ (4.1)	12 ¹ / ₈ (30.8)
1½	15T8PH, 15T8	5½ (14.0)	1 ⁵ / ₈ (4.1)	18 ¹ / ₈ (46.0)
2	17	5½ (14.0)	1 ⁵ / ₈ (4.1)	24 ¹ / ₈ (61.3)
3	25	5½ (14.0)	1 ⁵ / ₈ (4.1)	36 ¹ / ₈ (91.8)
4	32	5½ (14.0)	1 ⁵ / ₈ (4.1)	48 ¹ / ₈ (122.2)
5	60T8	5½ (14.0)	1 ⁵ / ₈ (4.1)	60 (152.4)

NOTES:

- 1 Not available with SWRC or RIF1 options.
- 2 Available with 120V ballast only.
- 3 Not available with CO/COL convenience outlet options.
- 4 Cordset must always be specified for installation on same end of fixture as switch location.
- 5 Not available with CSW/CSWL/CSWC cordset options.
- 6 Not available on 12", 18" or 24" units.



2UC



Ordering Information

Series	Lamp type	Diffuser	Voltage	Ballast options	Options
2UC	15 15W T12 (18")	(blank) Standard white	120, 277, 347, MVOLT* Others available. * 120-277V. Must specify GEB10IS.	HPF High power factor LPF Low power factor ES Energy-saving (40W only) 1/3 One 3-lamp ballast GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start	SWR Rocker switch, installed ¹ GLR Internal fast-blow fuse CSW 6' cordset, white ¹ CO Grounded convenience outlet ¹ RIF1 Radio interference filter (one per fixture) CSA CSA Certified
	17 17W T8 (24")	AR High-impact white			
	20 20W T12 (24")	OP Opaque front, clear acrylic bottom			
	25 25W T8 (36")				
	30 30W T12 (36")				
	32 32W T8 (48")				
40 40W T12 (48")					
Not included.					

NOTES:
1 120V only.



Availability and Dimensions				
Length (ft.)	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
1½	15	5¼ (13.3)	1 ¹³ / ₁₆ (4.6)	18¼ (46.4)
2	17, 20	5¼ (13.3)	1 ¹³ / ₁₆ (4.6)	24¼ (61.6)
3	25, 30	5¼ (13.3)	1 ¹³ / ₁₆ (4.6)	36¼ (92.1)
4	32, 40	5¼ (13.3)	1 ¹³ / ₁₆ (4.6)	48¼ (122.6)

Intended Use
Separate, hingeable service tray for easy installation and maintenance — no tools required for relamping.

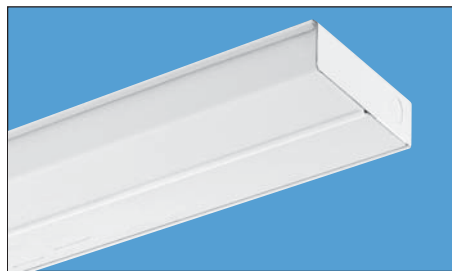
Flanged, shatter-resistant, milk-white diffuser.

Gloss-white enamel finish.

Listings – UL Listed (standard). CSA Certified (see Options).

Example: **2UC 30 AR 120 HPF GLR**

UC



Ordering Information

Series	Lamp number & type ¹	Diffuser	Voltage	Options
UC	12 One 8W T5 (12")	(blank) White	120 277 Others available.	GLR Internal fast-blow fuse CSW 6' cordset ² LPWW Warm white 3000°K T5 lamp(s), installed CO Grounded convenience outlet ² SWR Rocker switch, installed ² CSA CSA Certified
	21 One 13W T5 (21")	OP Opaque front, clear acrylic bottom		
	24 Two 8W T5 (24")			
	33 One 8W T5 & one 13W T5 (33")			
	42 Two 13W T5 (42")			
	Not included.			

Low-Profile Undercabinet Lights

Intended Use

Use under cabinets in school, display or residential applications. Delivers medium light levels in a compact design.

Features

Trim, low-profile design. Available in five lengths. T5 lamp source.

Separate, hingeable service tray for easy installation and maintenance — no tools required for relamping.

Factory-installed starters on all preheat models.

Romex conduit connector provided with each fixture.

Snap-fit, shatter-resistant, milk-white acrylic diffuser design with 15% DR.

Listings – UL Listed (standard). CSA Certified (see Options).

Example: **UC 33 OP 120 CSW**

Availability and Dimensions				
Length (ft.)	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
1	8	5 (12.7)	1 ³ / ₁₆ (3.0)	12 ⁷ / ₈ (31.4)
1¾	13	5 (12.7)	1 ³ / ₁₆ (3.0)	21 ³ / ₈ (52.2)
2	8 (2)	5 (12.7)	1 ³ / ₁₆ (3.0)	24 ¹ / ₂ (62.3)
2¾	8, 13	5 (12.7)	1 ³ / ₁₆ (3.0)	33 ¹ / ₂ (85.1)
3½	13 (2)	5 (12.7)	1 ³ / ₁₆ (3.0)	42 ¹ / ₂ (108.0)

NOTES:
1 For instant-on ballast, add E after fixture length. Example: UC 33 E OP 120 CSW
2 120V only.

CUC

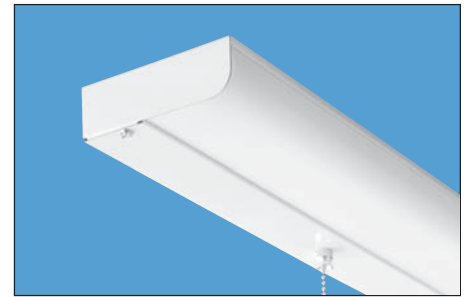
Intended Use

For closets, utility rooms, stairwells or other areas where a compact fixture is needed.

Features

Quickly mounts to j-box with hole cluster on back of channel.
 Electrical wires pulled through back of channel for simple, quick wiring.
 Shatter-resistant lens snaps in for easy maintenance.

Available lamped.
 Convenient on/off pull chain.
 Guaranteed for one year against mechanical defects in manufacture.
 Listings – UL Listed (standard). CSA Certified (see Options).



Ordering Information

Example: **CUC 15T8PH 120 S1**

Series	Lamp number & type	Voltage	Options
CUC	15T8PH One 15W T8 preheat (18") Not included. See Options.	120	LP Cool white T8 lamp, factory-supplied S1 On/off pull chain switch

Availability and Dimensions

Length (feet)	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
1½	15T8PH	4½ (11.43)	1 ⁵ / ₁₆ (3.33)	18 (45.72)



Twin Task Lights

TTL

Intended Use

For task or decorative accent lighting where a slim channel design is preferred.

Features

On/off rocker switch.
 Illuminates from both sides of fixture.
 Trim, low-profile design.
 Snap-fit, shatter-resistant, milk-white acrylic diffuser.
 Utilizes T5 lamp source only.

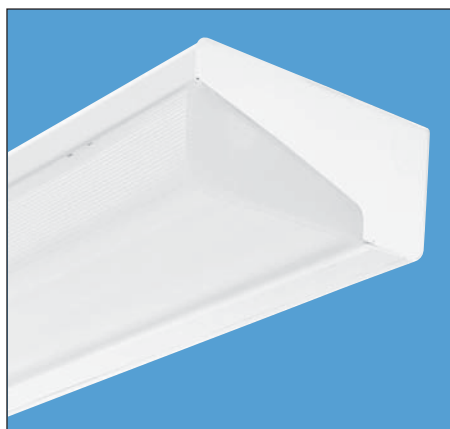


Ordering Information

Example: **TTL 2 8W 120**

Series	Number of lamps	Lamp type	Voltage
TTL Twin task light	2 Lamps not included.	8W 8W T5 13W 13W T5	120 120V

WP



Commercial Wall Brackets

Intended Use

For applications that require a contemporary, low-profile appearance. Ideal for stairwells, restrooms, patient care lobbies or corridors.

Features

Available in 2', 3' or 4' length with one or two lamps in cross-section.

All fabricated components of 20-gauge CRS. All metal parts finished with electrostatically deposited, thermally set polyester powder paint after fabrication

Proprietary, snap-in diffuser of tinted 50% DR acrylic with prismatic pattern.

Direct or direct/indirect distribution available.

Detachable, hinged electrical service tray for easy installation and maintenance. No tools required for relamping.

Fluorescent and incandescent night-light capabilities.

Through-wire/row-mount capabilities.

Standard finish post-paint, gloss-white enamel on all metal parts. Architectural black, 40% gloss post-paint available as an option.

Listings – UL Listed (standard). CSA Certified (see Options).

Ordering Information

Example: **WP 2 32 120 GEB DO CO**

Series	Number of lamps	Lamp type
WP	1, 2 Not included.	17 17W T8 (24")
		20 20W T12 (24")
		25 25W T8 (36")
		30 30W T12 (36")
		32 32W T8 (48")
		40 40W T12 (48")

Shielding type ¹
(blank) #12 pattern inverted, .125" thick acrylic, uplight
ACF125 Matte white flat acrylic, .125" thick, uplight ²
PCL12125V #12 pattern inverted, .125" thick polycarbonate, uplight ²

Voltage
120
277
347
MVOLT*
Others available.
* 120-277V. Must specify GEB10IS.

Accessories (Order separately)

U4220 Hex-base driver bit, Torx TX20, for tamper-resistant screws with center pin

Availability and Dimensions					
Series	Number of lamps	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
WP	1, 2	17, 20	7 ³ / ₈ (18.7)	3 ¹ / ₄ (8.26)	24 ⁷ / ₁₆ (62.1)
WP	1, 2	25, 30	7 ³ / ₈ (18.7)	3 ¹ / ₄ (8.26)	36 ⁷ / ₁₆ (92.6)
WP	1, 2	32, 40	7 ³ / ₈ (18.7)	3 ¹ / ₄ (8.26)	48 ⁷ / ₁₆ (123.0)

NOTES:

- 1 Supplied with standard high-impact acrylic lower diffuser.
- 2 Not available with **DO** option.
- 3 120V.
- 4 Requires **BF** option.
- 5 Requires **2/1** option for 2-lamp fixtures.

Options	
S1	Left-mounted on/off pull-switch (all lamps) ³
S2	Left-mounted on/off pull-switch for downlight, remote uplight switching ^{3,4,5}
S4	Left-mounted 4-position pull-switch (front only, rear only, all on, all off) ^{3,4,5}
BF	Internal baffle to divide uplight and downlight ²
SWR	Rocker switch, bottom right ³
CO	Grounded convenience outlet, right-mounted
MB	Architectural matte black finish
GLR	Internal fast-blow fuse
GMF	Internal slow-blow fuse
RIF1	Radio interference filter (one per fixture)
GEB	Electronic ballast, ≤20% THD
GEB10IS	T8 electronic ballast, ≤10% THD, instant start
GEB10RS	T8 electronic ballast, ≤10% THD, rapid start
2/1	Two 1-lamp ballasts
TPS	Tamperproof screw
NLCF	Compact fluorescent night light available. Must consult factory.
DO	Downlight only; solid-top metal housing
ES	Energy-saving ballast
CSA	CSA Certified

Intended Use

For multi-purpose areas such as corridors, utility rooms and lavatories where high vertical illumination is required.

Features

Available in 2', 3' and 4' models.

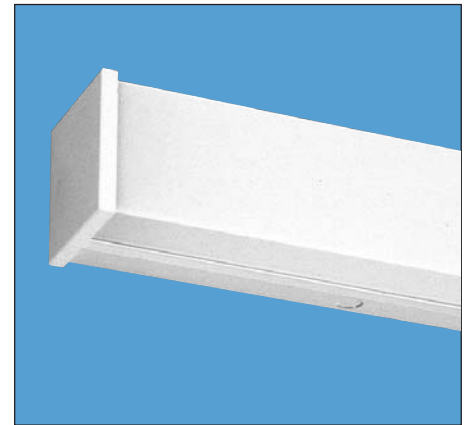
Suitable for wall or ceiling mounting.

Can be mounted vertically or horizontally. For individual mounting.

Steel housing with opal acrylic diffuser standard. Clear, prismatic #12 pattern acrylic lens and front metal fascia available.

Easy-maintenance design. Standard end-caps are spring-loaded for easy diffuser removal – no tools required.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).



Ordering Information

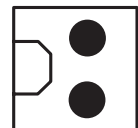
Example: **WC 2 32 120 GEB CO**

Series	Number of lamps	Lamp type	Diffuser type	Voltage	Options
WC	1, 2 Not included.	17 17W T8 (24") 20 20W T12 (24") 25 25W T8 (36") 30 30W T12 (36") 32 32W T8 (48") 40 40W T12 (48")	(blank) Matte white opal acrylic A12 #12 pattern acrylic FAC Matte white opal acrylic with front metal fascia FA12 #12 pattern acrylic with front metal fascia	120 277 347 MVOLT* Others available. * 120-277V. Must specify GEB10IS.	GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start S1 On/off pull-switch (all lamps), lower left ¹ CO Grounded convenience outlet, lower right ¹ ES Energy-saving ballast MB Architectural matte black finish CSA CSA Certified NOM NOM Certified

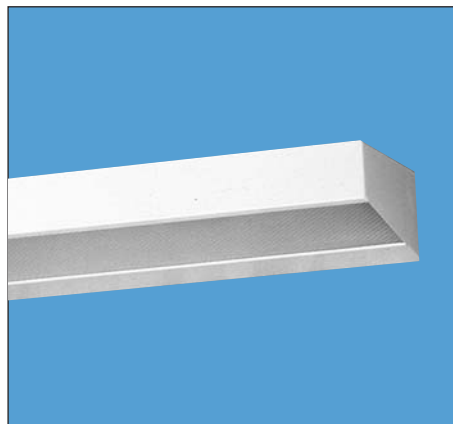
Availability and Dimensions

Series	Number of lamps	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
WC	1, 2	17, 20	4% (11.7)	4% (11.7)	24 (61.0)
WC	1, 2	25, 30	4% (11.7)	4% (11.7)	36 (91.4)
WC	1, 2	32, 40	4% (11.7)	4% (11.7)	48 (121.9)

NOTES:
1 120V only.



WS



Steel Wall Brackets

Intended Use

For applications where direct distribution is preferred in a simple, unobtrusive design.

Features

Trim, contemporary design fits any wall-mount application. Steel housing with high-gloss white enamel PAF finish standard.

Available in 2', 3' and 4' models.

Welded 20-gauge steel construction.

Designed for easy installation and maintenance.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).

Ordering Information

Example: **WS 2 32 A12 120 GEB CO**

Series	Number of lamps	Lamp type	Diffuser type	Voltage	Options
WS	1, 2 Not included.	17 17W T8 (24") 20 20W T12 (24") 25 25W T8 (36") 30 30W T12 (36") 32 32W T8 (48") 40 40W T12 (48")	A12 #12 pattern acrylic A12125 #12 pattern acrylic, .125" thick A19 #19 pattern acrylic, .156" thick Others available.	120 277 347 MVOLT* Others available. * 120-277V. Must specify GEB10IS.	1/3 One 3-lamp ballast 1/4 One 4-lamp ballast GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start S1 On/off pull-switch (all lamps), lower left ¹ CO Grounded convenience outlet, lower right ¹ SWR Rocker switch installed ¹ CSA CSA Certified NOM NOM Certified

Availability and Dimensions

Series	Nominal length (ft.)	Number of lamps	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
WS	2	1, 2	17, 20	6 ⁷ / ₈ (17.5)	3 ¹ / ₂ (8.9)	25 (63.5)
WS	3	1, 2	25, 30	6 ⁷ / ₈ (17.5)	3 ¹ / ₂ (8.9)	37 (94.0)
WS	4	1, 2	32, 40	6 ⁷ / ₈ (17.5)	3 ¹ / ₂ (8.9)	49 (124.5)



NOTES:
1 120V only.



Intended Use

For applications where a sleek, brushed aluminum fixture body in a direct lighting pattern will enhance the space.

Uplight and downlight distribution options available.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).

Features

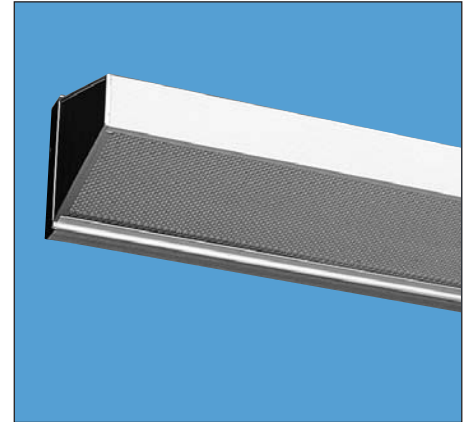
One-piece, brushed aluminum housing assembly.

Injection-molded end plates standard with woodgrain vinyl finish.

Lens housing secured to channel assembly by spring-loaded latches.

Acrylic diffusers standard (prismatic lower .125", matte white upper panel .187").

Grounded convenience outlet available on 120V unit.



Ordering Information

Example: **W 2 32 120 GEB CO**

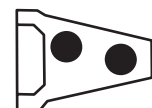
Series	Number of lamps	Lamp type	Diffuser type	Voltage	Options
W	1, 2 Not included.	U16 16W T8 U (12") ¹	(blank) #12 pattern diffuser, .187" thick, upper lens	120 277 347 MVOLT* Others available. * 120-277V. Must specify GEB10IS.	GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start A12U #12 pattern diffuser, .125" thick, upper lens DO Downlight only S1 On/off pull-switch (all lamps) ² S2 On/off pull-switch for downlight, remote uplight switching ^{2,3,4} S4 Four-position pull-switch (up only, down only, all on, all off) ^{2,3,4} BF Baffle to divide uplight and downlight 2/1 Two 1-lamp ballasts N Night light, unswitched, 7W C7 lamp (included), top left NS Night light with push-switch, 7W C7 (included), top left CO Grounded convenience outlet ² AE Brushed aluminum end cap appliques MB Matte black finish MW Matte white finish CSA CSA Certified NOM NOM Certified
		17 17W T8 (24")	#12 pattern diffuser, .125" thick, upper lens		
		CF18 18W TT5 RS (12")	#19 pattern diffuser, .156" thick		
		20 20W T12 (24")	Flat acrylic matte white diffuser, .125" thick		
		25 25W T8 (36")			
		30 30W T12 (36")			
		32 32W T8 (48")			
		40 40W T12 (48")			

Availability and Dimensions

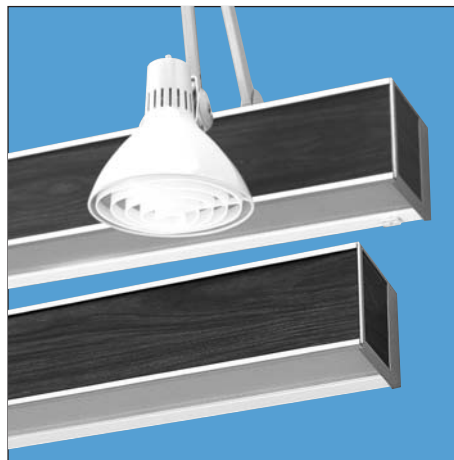
Series	Nominal length (ft.)	Number of lamps	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
W	1	1, 2	U16 CF18	7 ¹ / ₃₂ (17.9)	5 ¹ / ₈ (13.0)	13 ⁵ / ₈ (34.6)
W	2	1, 2	17, 20	7 ¹ / ₃₂ (17.9)	5 ¹ / ₈ (13.0)	24 ³ / ₈ (61.9)
W	3	1, 2	25, 30	7 ¹ / ₃₂ (17.9)	5 ¹ / ₈ (13.0)	36 ³ / ₈ (92.4)
W	4	1, 2	32, 40	7 ¹ / ₃₂ (17.9)	5 ¹ / ₈ (13.0)	48 ³ / ₈ (122.9)

NOTES:

- 1 One lamp only.
- 2 120V only.
- 3 Requires **BF** option.
- 4 Requires **2/1** option for 2-lamp fixtures.



WB WM



Commercial and Medical Wall Brackets

Intended Use

For applications where a controllable direct or indirect component is desired. Ideal for corridors, dressing rooms, hospitals or other patient-care facilities.

Features

Available in 2', 3' and 4' models.
Die-cast aluminum ends and matching aluminum door. Woodgrain vinyl finish standard.
Door locks open for easy relamping.
Heavy-gauge steel housing and wireway assembly.
Internal baffle for uplight and/or downlight, four-position pull-switch and grounded convenience outlet are standard on WM, optional on WB.

WM available in 120V only. Pull-switches and convenience outlets available on 120V only.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).

Ordering Information

Example: **WB 2 32 A12 120 GEB CO**

Series	Number of lamps ¹	Lamp type	Voltage	Options
WB Commercial	1, 2, 3, 4 Not included.	17 17W T8 (24")	120	1/3 One 3-lamp ballast 1/4 One 4-lamp ballast GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start S1 On/off pull-switch (all lamps). WB only ² S2 On/off pull-switch for downlight; remote uplight switching ^{2, 3, 4} S4 Four-position pull-switch (up only, down only, all on, all off) ^{2, 3, 4, 5} BF Baffle to divide uplight and downlight ⁵ CO Grounded convenience outlet ^{2, 5} 2/1 Two 1-lamp ballasts TPS Tamperproof screw ³ N Night light, unswitched, top left. 7W C7 lamp (included) ² NS Nightlight with push-switch, top left. 7W C7 lamp (included) ² XB Mounting bracket and power supply for examination light. WM only ² IV IV arm assembly, right-end mounting. WM only QM Quick-maintenance mounting (consult factory for 3-foot models) AE Brushed aluminum end cap appliques WH White finish CSA CSA Certified NOM NOM Certified
WM Medical		20 20W T12 (24")	277	
		25 25W T8 (36")	347	
		30 30W T12 (36")	MVOLT*	
		32 32W T8 (48")	Others available.	
		40 40W T12 (48")	* 120-277V. Must specify GEB10IS.	

Accessories for WM (Order separately)

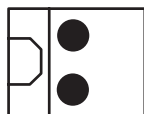
- XL** Examination light. Light gray finish standard. Uses one medium-base A lamp, 100W maximum. Must order XB option for mounting bracket and power supply outlet.²
- XLL** XL with louver.

Shielding type

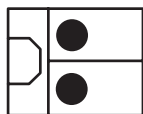
- A12** #12 pattern acrylic (uplight and downlight)
- A12L** #12 pattern acrylic (downlight only) – WB only
- A12U** #12 pattern acrylic (uplight only)
- 3EA** KSH 3-E asymmetric lens (no direct light away from wall)

Availability and Dimensions

Series	Nominal length (ft.)	Number of lamps	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
WB	2	1, 2, 3, 3Y, 4	17, 20	6 ¾ (17.1)	5 ½ (14.0)	24 ¼ (61.6)
WB	3	1, 2, 3, 3Y, 4	25, 30	6 ¾ (17.1)	5 ½ (14.0)	36 ¼ (92.1)
WM						
WB	4	1, 2, 3, 3Y, 4	32, 40	6 ¾ (17.1)	5 ½ (14.0)	48 ¼ (122.6)
WM						



WB



WM

NOTES:

- Three-lamp models are standard with two lamps bottom, one top. Order Y option for one bottom, two top. Example: WB 3Y 32 A12 120.
- 120V only.
- Requires BF option.
- Requires 2/1 option for 2-lamp fixtures.
- Standard on WM. Not available in Canada.

HL

Intended Use

Provides good general lighting. Popular in educational facilities and retail applications due to rugged construction and shielding options.

Features

Direct/Indirect light distribution.
 For surface or stem mounting, unit or row installation.
 Die-formed steel, finished in high-gloss, baked, white enamel.
 Steel louver assembly locks mechanically into V-section with compression latches.
 Suspends by service chains for easy maintenance.

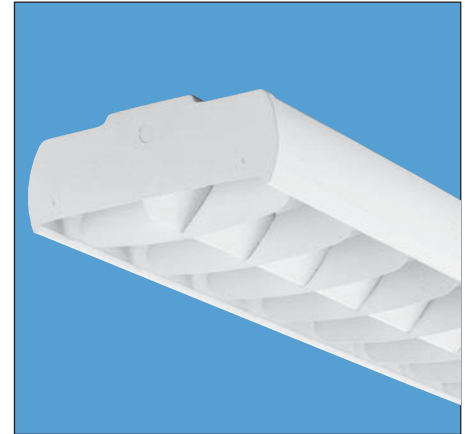
Metal sides standard, luminous plastic side panels optional.

35° perpendicular shielding angle, 25° parallel shielding angle standard.

45° parallel shielding angle optional.

Minimum two hangers required. For row installation, one hanger per fixture plus one per row required.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).



Ordering Information

Example: **HL 2 32 120 GEB PSP**

Series	Number of lamps	Lamp type	Shielding	Voltage	Options
HL <small>For tandem double-length unit¹, add prefix T. Example: TCA</small>	2, 4 <small>Not included.</small>	32 32W T8 (48") 40 40W T12 (48") 48 48W T12 slimline (48") 48HO 60W T12 800 mA (48") 96 75W T12 slimline (96") 96HO 110W T12 800 mA (96") 96T8 96W T8 slimline (96") 96T8HO 86W T8 380 mA (96")	(blank) 25° parallel shielding HL45 45° parallel shielding	120 277 347 MVOLT* <small>Others available. * 120-277V. Must specify GEB10IS.</small>	1/4 One 4-lamp ballast GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start PSP Luminous plastic side panels CSA CSA Certified NOM NOM Certified <small>See page 97 for others.</small>

Accessories (Order separately)

- SQ__** Swivel-stem hanger. Specify length in 2" increments.
- 1B** Ceiling spacer. Adjusts from 1½" to 2½" from ceiling.
- DSH24** Double stem hanger for 48" fixtures. 24" stems.
- HLTR** 2-lamp top reflector for 100% downlight. One pair, 48" long.
- 2HLTR** 4-lamp top reflector for 100% downlight. One pair, 48" long.

Availability and Dimensions					
Series	Lamps per cross section	Lamps per fixture	Width in. (cm)	Depth in. (cm)	Length in. (cm)
HL	2	2	13 (33.0)	5¼ (13.3)	48 (121.9)
	4	4	17 (43.2)	5¼ (13.3)	48 (121.9)
HL	2	2	13 (33.0)	5¼ (13.3)	96 (243.8)
	4	4	17 (43.2)	5¼ (13.3)	96 (243.8)
THL ¹	2	4	13 (33.0)	5¼ (13.3)	96 (243.8)
	4	8	17 (43.2)	5¼ (13.3)	96 (243.8)

NOTES:

1 Compatible with 32W and 40W lamps only.



MS5HB

NEW



Fluorescent High Bay

Intended Use

Intended for use in retail stores, warehouses and manufacturing applications where high lumen package in a compact fixture design is required. Ideal for mounting heights up to 35 feet in controlled ambient facilities.

Sockets feature rotating collars and enclosed contacts.

For individual or row mounting, a variety of hanging methods such as tong hangers, aircraft cable or stems available.

Listings – UL Listed (standard). CSA Certified (see Options).

Features

Available in 2- or 3-lamp cross-section.

White straight blade louver assembly provides shielding and reduces brightness. Louver assembly is hinged and latched for easy servicing.

20-gauge housing/reflector provides rugged construction.

Narrow distribution for aisle applications or wide distribution for general areas, direct or uplight versions available.

Ordering Information

Example: **TMS5HB 3 54T5HO SBL ND MVOLT GEB10PS**

Series	Lamp type	Configuration	Distribution	Voltage	Options
MS5HB T5 low-profile direct/indirect	28T5 28W T5 (46")	(blank) No louver	ND Narrow	120	1/3 One 3-lamp ballast ²
MS5HBST T5 low-profile solid top ¹	54T5HO 54W T5HO (46")	SBL White straight blade louver assembly	WD Wide	277	1/4 One 4-lamp ballast ²
For tandem double-length unit, add prefix T. Example: TMS5HB				347	GEB10PS T5 electronic ballast, ≤10% THD, program start
				480²	GLR Internal fast-blow fuse ³
				MVOLT*	GMF Internal slow-blow fuse ³
				* 120-277V. Must specify GEB10PS.	EL55 T5 emergency battery pack (nominal 390-700 lumens) ³
					CSA CSA Certified

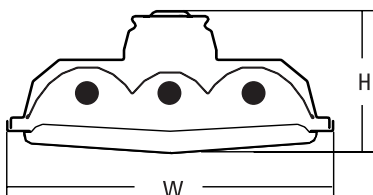
Number of lamps
2, 3
Not included

Accessories (Order separately)

- MSHBAC_** Adjustable aircraft cable support (non-feed), (specify length as **36**, **72** or **120** inches).
- MSHBACF_** Aircraft cable feed and support, (specify length as **36**, **72** or **120** inches).
- THMS5HB** Tong hanger.
- SQ_** Swivel stem hanger (specify length in 2" increments)
- HC36** Chain hanger - 36".

NOTES:

- 1 Available in 2 lamp only.
- 2 F54T5HO only.
- 3 Specify voltage.



Availability and Dimensions

Series	Lamps per Cross-section	Lamps per Fixture	Lamp Type	Width	Depth	Length
MS5HB	2, 3	2, 3	28T5, 54T5HO	9¾	4¼	46 ¹ / ₁₆
TMS5HB	2, 3	4, 6	28T5, 54T5HO	9¾	4¼	92 ¹ / ₈
MS5HBST	2	2	28T5, 54T5HO	9¾	4¼	46 ¹ / ₁₆
TMS5HBST	2	4	28T5, 54T5HO	9¾	4¼	92 ¹ / ₈

MS8

Intended Use

Intended for use in retail stores, warehouses and manufacturing applications where high lumen package in a compact fixture design is required. Ideal for mounting heights up to 35 feet in controlled ambient facilities.

Features

Available in 2- or 3-lamp cross-section with T8 lamps.

White straight blade louver assembly provides shielding and reduces brightness. Louver assembly is hinged and latched for easy servicing.

20-gauge housing/reflector provides rugged construction.

Narrow distribution for aisle applications or wide distribution for general areas, direct or uplight versions available.

Sockets feature rotating collars and enclosed contacts.

For individual or row mounting, a variety of hanging methods such as tong hangers, aircraft cable or stems available.

Listings – UL Listed (standard). CSA Certified (see Options).



Ordering Information

Example: **MS8 3 32 SBL ND MVOLT GEB10IS**

Series	Lamp type	Configuration	Distribution	Voltage	Options
MS8 T8 low-profile direct/indirect	32 32W T8 (48")	(blank) No louver	ND Narrow	120	1/3 One 3-lamp ballast
MS8ST T8 low-profile solid top		SBL White straight blade louver assembly	WD Wide	277	1/4 One 4-lamp ballast
For tandem double-length unit, add prefix T. Example: TMS8				347	GEB T8 electronic ballast, ≤20% THD, instant start
	Number of lamps 2, 3 Not included			MVOLT*	GEB10IS T8 electronic ballast, ≤10% THD, instant start
				* 120-277V. Must specify GEB10IS.	GEB10RS T8 electronic ballast, ≤10% THD, rapid start

NOTES:

1 Specify voltage.

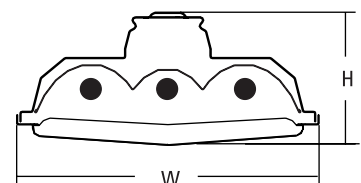
Accessories (Order separately)

- MSHBAC_** Adjustable aircraft cable support (non-feed), (specify length as **36**, **72** or **120** inches).
- MSHBACF_** Aircraft cable feed and support, (specify length as **36**, **72** or **120** inches).
- THMS5HB** Tong hanger.
- SQ_** Swivel stem hanger (specify length in 2" increments)
- HC36** Chain hanger - 36".
- WGMS8Z** MS8, 4' wire guard, zinc coated.

- GLR** Internal fast-blow fuse¹
- GMF** Internal slow-blow fuse¹
- EL** T8 emergency battery pack (nominal 300 lumens)
- CSA** CSA Certified

Availability and Dimensions

Series	Lamps per Cross-section	Lamps per Fixture	Lamp Type	Width	Depth	Length
MS8	2, 3	2, 3	32	9 ¾"	4 ¼"	48"
TMS8	2, 3	4, 6	32	9 ¾"	4 ¼"	96"



Fluorescent High Bay

HB5 HB8

NEW



Intended Use

For mounting heights up to 35 feet that require high light levels. Ideal for retail, manufacturing or warehouse applications. Provides high lumen output in a compact design.

Features

Choice of optical systems to meet individual job requirements. Narrow distribution best utilized in aisle applications; wide distribution best utilized for lower mounting heights or open general areas. Available with or without uplight.

Choice of high-lumen F54T5HO lamps or F32T8 lamps in 4- or 6-lamp configuration. Tool-less access to wiring compartment.

Suitable for single or multiple-point mounting. See appropriate mounting accessories.

Sockets feature rotating collars and enclosed contacts.

High-gloss baked white enamel or optional galvanized finish. Optional heavy-duty 20-gauge channel.

Listings – UL Listed to US and Canadian safety standards. See Options for 347V.

Ordering Information

Example: **HB5 6 54T5HO ND MVOLT GEB10PS**

Series	Number of lamps	Distribution	Voltage	Options
HB5 T5HO high bay with uplight	4, 6 Not included.	ND Narrow	120	<u>Installed in fixture</u>
HB5ST T5HO high bay, solid top		WD Wide	277	2/3 Two 3-lamp ballasts
HB8 T8 high bay with uplight			347	1/4 One 4-lamp ballast
HB8ST T8 high bay, solid top			480¹	GEB T8 electronic ballast, ≤20% THD, instant start
	Lamp type		MVOLT*	GEB10IS T8 electronic ballast, ≤10% THD, instant start
	32 32W T8 (48")		Others available.	GEB10PS T5 electronic ballast, ≤10% THD, program start
	54T5HO 54W T5 HO (46")		* 120-277V. Must specify GEB10IS or GEB10PS.	ACNS90 T5 electronic ballast, ≤10% THD, program start
				GLR Internal fast-blow fuse ²
				GMF Internal slow-blow fuse ²
				EL14 Emergency battery pack (nominal 300 lumens) ²
				CSA Listed and labeled to comply with Canadian Standards (347V only).

NOTES:
 1 Available with 54T5HO lamp type only.
 2 Not available with MVOLT. Must specify voltage.

Accessories	(Order separately)
SCKFV	Safety chain kit
THFV	Tong hanger
HFV36	Chain hanger
WGHB	Wireguard



Availability and Dimensions

Nominal size	Series	Number of lamps	Lamp type	Width	Height in. (cm)	Length
2x4	HB5, HB5ST	4, 6	32, 54T5HO	24"	4 (10.2)	48"
2x4	HB8, HB8ST	4, 6	32, 54T5HO	24"	4 (10.2)	48"

MS5

Intended Use

Use in surface or suspended applications such as retail, manufacturing or renovation where high light levels in a compact luminaire design are required.

Features

Compact, low-profile design. High fixture performance.

Extended-height end caps for socket support. Full end cap available.

High-gloss baked white enamel or galvanized finish.

Choice of 1 or 2 lamps in 2', 3', 4' or 8' lengths.

Available reflectors include white, specular or galvanized finishes in solid or perforated styles.

White straight blade louver available for applications requiring additional shielding and cutoff.

Aircraft cable mounting hardware available.

Listings – UL Listed (standard). CSA Certified (see Options).



Ordering Information

Example: **MS5 1 54T5HO SMR MVOLT GEB10PS**

Series	Lamp type	Configuration	Finish	Voltage	Options
MS5 <small>For tandem double-length unit, add prefix T1. Example: TMS5</small>	14T5 14W T5 (22") 21T5 21W T5 (34") 24T5HO 24W T5 HO (22") 28T5 28W T5 (46") 39T5HO 39W T5 HO (34") 54T5HO 54W T5 HO (46")	(blank) No reflector ASMR Asymmetric reflector SMR Symmetric reflector SBL White straight blade louver assembly (solid, white reflectors included) ^{1, 2}	(blank) White SAR95 Specular aluminum reflector-Miro® (white channel) GALV Galvanized	347³ MVOLT* <small>Others available. * 120-277V. Must specify GEB10PS.</small>	GEB10PS Electronic ballast, ≤10% THD, program start GLR Internal fast-blow fuse ⁴ GMF Internal slow-blow fuse ⁴ PLF_G Plug-in wiring, specify 1, 2, or 3 branch circuits and hot wires (A =black, B =red, C =blue, AB or AC) EL55 Emergency battery pack (nominal 390-700 lumens) ^{1,4,5} CSA CSA Certified
Number of lamps 1, 2 <small>Not included.</small>		Reflector style (blank) Solid PERF Perforated		See page 98 for others.	

Accessories (Order separately)

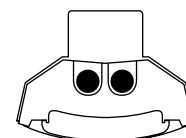
- WGMS5Z** Wireguard, 4', zinc⁶
- THMS5** Tong hanger (1 pair)
- MS5EP** Full depth end plate for standard reflector (1 pair)
- MS5EP SBL** Full depth end plate for louvered reflector (1 pair)
- 1B** Ceiling spacer (adjusts 1-1/2" to 2-1/2" from ceiling)
- SQ_** Swivel stem hanger (specify length in 2" increments)
- MS5ACF_** Adjustable aircraft cable system with power feed (specify length as **36, 72, or 108** inches)^{7,8,9}
- MS5AC_** Adjustable aircraft cable system (specify **36, 72 or 108** inches)⁹

NOTES:

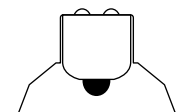
- 1 Only available on 28W and 54W.
- 2 Finish and reflector type not applicable.
- 3 Available with 54T5HO lamp type only.
- 4 Specify voltage.
- 5 Not available in Canada.
- 6 Not for use in combination with reflector.
- 7 Available with 3', 4' and 8' lengths only.
- 8 120-277V only for power feed.
- 9 Standard wire size for power feed is 18 gauge. For 12 gauge add **12AWG** to the end of catalog number. Consult factory for length of runs and required wire size.
- 10 Based on SMR reflector.

Availability and Dimensions¹⁰

Nominal length	Series	Lamps per cross section	Lamps per fixture	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
2'	MS5	1, 2	1, 2	14T5, 24T5HO	4¾ (12.1)	2 ¹³ / ₁₆ (7.1)	22 ⁷ / ₁₆ (56.9)
3'	MS5	1, 2	1, 2	21T5, 39T5HO	4¾ (12.1)	2 ¹³ / ₁₆ (7.1)	34¼ (87)
4'	MS5	1, 2	1, 2	28T5, 54T5HO	4¾ (12.1)	2 ¹³ / ₁₆ (7.1)	46 ¹ / ₁₆ (116.9)
8'	MS5	1, 2	2, 4	28T5, 54T5HO	4¾ (12.1)	2 ¹³ / ₁₆ (7.1)	92 ¹ / ₁₆ (233.7)

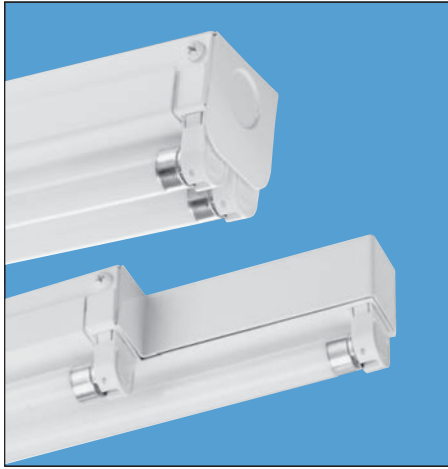


MS5 SBL



MS5 SMR

MS5



Low-Profile T5 Direct

Intended Use

Use for coves, display or any application requiring a low-profile luminaire that provides high light levels. Ideal for commercial, retail or manufacturing.

Features

Compact, low-profile design. High fixture performance.

Available in standard or staggered channels. Staggered design includes 4" stagger for uninterrupted continuous illumination.

Extended-height end caps for socket support.

High-gloss baked white enamel or galvanized finish. Heavy-duty 20-gauge channel.

Choice of 1 or 2 lamps in 2', 3', 4' or 8' lengths.

Listings – UL Listed (standard). CSA Certified (see Options).

Ordering Information

Series	Number of lamps	Lamp type	Voltage	Options
MS5 Standard channel	1,2	14T5 14W T5 (22")	347²	GEB10PS Electronic ballast, ≤10% THD, program start
MS5SS Staggered channel	Not included.	21T5 21W T5 (34")	MVOLT*	GLR Internal fast-blow fuse ³
For tandem double-length unit, add prefix T.1 Example: TMS5		24T5HO 24W T5 HO (22")	Others available.	GMF Internal slow-blow fuse ³
		28T5 28W T5 (46")	* 120-277V. Must specify GEB10PS.	PLF_G Plug-in wiring, specify 1, 2, or 3 branch circuits and hot wires (A =black, B =red, C =blue, AB or AC)
		39T5HO 39W T5 HO (34")		EL55 Emergency battery pack (nominal 390-700 lumens) ^{3,4}
		54T5HO 54W T5 HO (46")		CSA CSA Certified

See page 98 for others.

Example: MS5 1 54T5HO MVOLT GEB10PS

Accessories (Order separately)

WGM5S2	Wireguard, 4', Zinc.
THMS5	Tong hanger (1 pair).
1B	Ceiling spacer (adjusts 1-1/2" to 2-1/2" from ceiling)
SQ_	Swivel stem hanger (specify length in 2" increments).
MS5SSASR 2 48	Asymmetric reflector for staggered, 4', two-lamp configuration. ^{1,6}
MS5SSASR 1 48	Asymmetric reflector for staggered, 4', one-lamp configuration. ⁶

NOTES:

- 1 Only available on 28W and 54W.
- 2 Available with 54T5HO lamp type only.
- 3 Specify voltage.
- 4 Not available in Canada.
- 5 For other lengths, replace 48 with correct length required; nominal 2' = 24, 3' = 36. Two reflectors required for 8' lengths.
- 6



MS5

Availability and Dimensions

Nominal length	Series	Lamps per cross section	Lamps per fixture	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
2'	MS5SS	1, 2	1, 2	14T5, 24T5HO	2 (5.1)	2 1/4 (5.7)	22 1/2 (57.1), 26 1/2 (67.3)
	MS5						22 7/16 (56.9)
3'	MS5SS	1, 2	1, 2	21T5, 39T5HO	2 (5.1)	2 1/4 (5.7)	34 1/4 (87), 38 1/4 (97.1)
	MS5						34 3/4 (87)
4'	MS5SS	1, 2	1, 2	28T5, 54T5HO	2 (5.1)	2 1/4 (5.7)	46 1/16 (117), 50 1/16 (127.2)
	MS5						46 1/16 (117)
8'	MS5SS	1, 2	1, 2	28T5, 54T5HO	2 (5.1)	2 1/4 (5.7)	88 1/16 (223.7), 96 1/16 (243.8)
	MS5						92 1/16 (233.7)

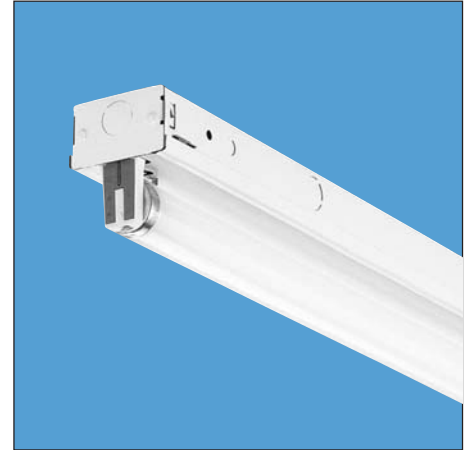
Intended Use

For applications that require medium illumination levels and narrow construction. Suitable for general or task lighting.

Features

- Slim channel for easy handling in unit or row, ceiling or wall-mount applications.
- High-gloss, baked enamel finish.
- Combination end plate/channel connector furnished.
- Wide variety of T5 twin-tube compact fluorescent (CF) lamp types available.
- White or specular reflectors available.
- Channel cover retained by quarter-turn fastener.

Listings – 120V, 277V and MVOLT are UL Listed and CSA Certified (standard). See Options for 347V and NOM Certified.



Ordering Information

Example: **S 1 40 120 ES**

Series	Number of lamps	Lamp type	Voltage	Ballast options	Options
S <small>For tandem double-length unit, add prefix T.¹ Example: TS</small>	1 <small>Not included.</small>	15 15W T12 (18") 15PH 15W T12 (18") 17 17W T8 (24") CF18 18W TT5 (12") 20 20W T12 (24") 20PH 20W T12 (24") 25 25W T8 (36") CF27 27W TT5 (15") 30 30W T12 (36") 30PH 30W T12 (36") 32 32W T8 (48") CF39 39W TT5 (16") 40 40W T12 (48") CF40 40W TT5 (24") 60T8 40W T8 (60")	120 277 347 MVOLT* <small>Others available. * 120-277V. Must specify GEB10IS.</small>	LPF Low power factor (for 15W, 20W, 30W only) HPF High power factor (for 15W, 20W, 30W only) ES Energy-saving ballast ² GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start	CSA CSA Certified (347V only) NOM NOM Certified <small>See page 98 for others.</small>

Reflector Accessories		(Order separately)	
Reflector type	Length	Finish	
SASR Asymmetric	24 24" nominal	(blank) White	
SSMR Symmetric	36 36" nominal ¹	SSR Specular silver, steel	
	48 48" nominal ¹		

Availability and Dimensions

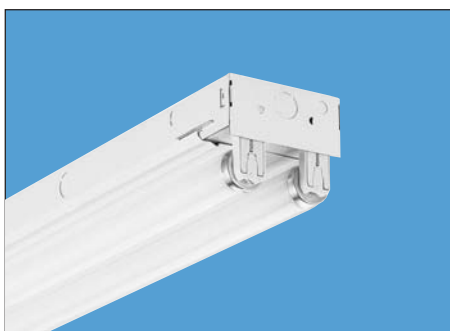
Nominal length	Series	Lamps per cross section	Lamps per fixture	Lamp type	Width in. (cm)	Depth ³ in. (cm)	Length in. (cm)
1'	S	1	1	CF18	2¾ (7.0)	2¾ (7.0)	12 (30.5)
1¼'	S	1	1	CF27	2¾ (7.0)	2¾ (7.0)	15 (38.1)
1½'	S	1	1	15, 15PH, CF39	2¾ (7.0)	2¾ (7.0)	18 (45.7)
2'	S	1	1	17, 20, 20PH, CF40	2¾ (7.0)	2¾ (7.0)	24 (61.0)
	TS	1	2	CF18	2¾ (7.0)	2¾ (7.0)	24 (61.0)
2½'	TS	1	2	CF27	2¾ (7.0)	2¾ (7.0)	30 (76.2)
	S	1	1	25, 30	2¾ (7.0)	2¾ (7.0)	36 (91.4)
3'	TS	1	2	CF39	2¾ (7.0)	2¾ (7.0)	36 (91.4)
	S	1	1	32, 40	2¾ (7.0)	2¾ (7.0)	48 (121.9)
4'	TS	1	2	CF40	2¾ (7.0)	2¾ (7.0)	48 (121.9)
	TS	1	2	25, 30	2¾ (7.0)	2¾ (7.0)	72 (182.9)
6'	TS	1	2	32, 40	2¾ (7.0)	2¾ (7.0)	96 (243.8)

NOTES:

- Order two 36" reflectors for 72" fixtures and two 48" reflectors for 96" fixtures.
- 30W ES available in Canada only.
- Maximum depth to center of lamps.



C



Ordering Information

Series	Number of lamps ¹	Lamp type
C	1, 2 Not included.	
For optional aluminum channel, add suffix AL to catalog number. Example C 2 96 120 AL. See Options.		
For tandem double-length unit, add prefix T. 1 Example: TC		
		17 17W T8 (24")
		20 20W T12 (24")
		24HO 35W T12 800mA (24") ²
		25 25W T8 (36")
		30 30W T12 (36")
		32 32W T8 (48")
		36 30W slimline (36")
		36HO 45W T12 800mA (36") ²
		CF39 39W TT5 RS (16")
		40 40W T12 (48")
		CF40 40W TT5 RS (24")
		48 39W T12 slimline (48")
		48HO 60W T12 800mA (48") ²
		CF50 50W TT5 RS (24")
		CF55 55W TT5 RS (24")
		60T8 40W T8 (60")
		72 55W slimline (72")
		72HO 85W T12 800mA (72") ²
		96 75W T12 slimline (96")
		96HO 110W T12 800mA (96") ²
		96T8 59W T8 slimline (96")
		96T8HO 86W T8 380mA (96") ²

NOTES:

- 1 Tandem CF lamp types available in one-lamp only.
- 2 HO models available with aluminum channel only or steel channel with electronic ballast.
- 3 Order two 36" reflectors for 72" fixtures and two 48" reflectors for 96" fixtures.
- 4 Maximum depth to center of lamps.



General-Purpose Channels

Intended Use

For applications that require low to medium illumination levels. Suitable for general purpose applications.

Features

Steel channel (standard) with high-gloss, baked enamel finish.

Optional aluminum channel available – features corrosion-resistant fasteners for use in damp and harsh locations.

Combination end plates/channel connector furnished for either unit-mounted or continuous-row application.

White or specular reflectors available.

Channel cover retained by quarter-turn fastener.

Listings – 120V, 277V and MVOLT are UL Listed and CSA Certified (standard). See Options for 347V and NOM Certified.

Example: **C 2 96 120 ES**

Voltage	Ballast options	Options
120	1/4 One 4-lamp ballast	AL Aluminum body
277	GEB Electronic ballast, ≤20% THD	CSA CSA Certified (347V only)
347		NOM NOM Certified
MVOLT*	GEB10IS T8 electronic ballast, ≤10% THD, instant start	See page 98 for others.
Others available.	GEB10RS T8 electronic ballast, ≤10% THD, rapid start	
* 120-277V. Must specify GEB10IS.	LPF Low power factor (for 20W or 30W only)	
	HPF High power factor (for 20W or 30W only)	
	ES Energy-saving ballast	

Reflector Accessories (Order separately)

Reflector type	Length	Finish
CASR Asymmetric	24 24" nominal	(blank) White
CSMR Symmetric	36 36" nominal ³	SSR Specular silver, steel
	48 48" nominal ³	

Availability and Dimensions

Nominal length	Series	Lamps per section	Lamps per fixture	Lamp type	Width in. (cm)	Depth ⁴ in. (cm)	Length in. (cm)
1½'	C/C AL	1, 2	1, 2	CF39	4 ³ / ₁₆ (10.6)	2 ¹⁵ / ₁₆ (7.5)	18 (45.7)
2'	C/C AL	1, 2	1, 2	17, 20, CF40, CF50, CF55	4 ³ / ₁₆ (10.6)	2 ¹⁵ / ₁₆ (7.5)	24 (61.0)
	C AL	1, 2	1, 2	24HO	4 ³ / ₁₆ (10.6)	3 ¹⁵ / ₁₆ (9.6)	24 (61.0)
3'	C/C AL	1, 2	1, 2	25, 30	4 ³ / ₁₆ (10.6)	2 ¹⁵ / ₁₆ (7.5)	36 (91.4)
	TC/TC AL	1	2	CF39	4 ³ / ₁₆ (10.6)	2 ¹⁵ / ₁₆ (7.5)	36 (91.4)
	TC AL	1, 2	1, 2	36HO	4 ³ / ₁₆ (10.6)	3 ¹³ / ₁₆ (9.6)	36 (91.4)
4'	TC/TC AL	1	2	CF40, CF50, CF55	4 ³ / ₁₆ (10.6)	2 ¹⁵ / ₁₆ (7.5)	48 (121.9)
	C/C AL	1, 2	1, 2	32, 40, 48	4 ³ / ₁₆ (10.6)	2 ¹⁵ / ₁₆ (7.5)	48 (121.9)
	C AL	1, 2	1, 2	48HO	4 ³ / ₁₆ (10.6)	3 ¹³ / ₁₆ (9.6)	48 (121.9)
5'	C/C AL	1, 2	1, 2	60T8	4 ³ / ₁₆ (10.6)	2 ¹⁵ / ₁₆ (7.5)	60 (152.4)
	TC/TC AL	1	2	25, 30	4 ³ / ₁₆ (10.6)	2 ¹⁵ / ₁₆ (7.5)	72 (182.9)
	TC/TC AL	2	4	25, 30	4 ³ / ₁₆ (10.6)	2 ¹⁵ / ₁₆ (7.5)	72 (182.9)
6'	C/C AL	1, 2	1, 2	72	4 ³ / ₁₆ (10.6)	2 ¹⁵ / ₁₆ (7.5)	72 (182.9)
	C AL	1, 2	1, 2	72HO	4 ³ / ₁₆ (10.6)	3 ¹³ / ₁₆ (9.6)	72 (182.9)
	TC/TC AL	1	2	32, 40	4 ³ / ₁₆ (10.6)	2 ¹⁵ / ₁₆ (7.5)	96 (243.8)
	TC/TC AL	2	4	32, 40	4 ³ / ₁₆ (10.6)	2 ¹⁵ / ₁₆ (7.5)	96 (243.8)
8'	C/C AL	1, 2	1, 2	96, 96T8, 96T8HO	4 ³ / ₁₆ (10.6)	2 ¹⁵ / ₁₆ (7.5)	96 (243.8)
	C AL	1, 2	1, 2	96HO	4 ³ / ₁₆ (10.6)	3 ¹³ / ₁₆ (9.6)	96 (243.8)

Intended Use

Use for applications requiring high illumination in medium to high mounting heights and a rugged, heavy-duty strip design.

Features

Heavy-duty formed channel with high-gloss, baked enamel finish.

Lampholders secured by screwed-on end plates.

Channel connector furnished for continuous mounting.

Symmetric or asymmetric reflectors available.

Listings – 120V, 277V and MVOLT are UL Listed and CSA Certified (standard). See Options for 347V and NOM Certified.



Example: **UN 2 96HO 120 GEB**

Ordering Information

Series	Number of lamps	Lamp type		Voltage	Options
UN Standard width	1, 2, 3, 4 Not included.	17 17W T8 (24")	48HO 60W 800mA T12 (48")	120	1/3 One 3-lamp ballast
2UN 2 lamps in wide housing		20PH 20W T12 (24") ¹	48PG 110W 1500mA T12 (48")	277	1/4 One 4-lamp ballast
For tandem double-length unit, add prefix T. Example: TUN		24 30W slimline (24")	60T8 40W T8 (60")	347	GEB Electronic ballast, ≤20% THD
		24HO 35W T12 800mA (24")	72 55W slimline T12 (72")	MVOLT*	GEB10IS T8 electronic ballast, ≤10% THD, instant start
		25 25W T8 (36")	72HO 85W T12 800mA (72")	Others available.	GEB10RS T8 electronic ballast, ≤10% THD, rapid start
		30 30W T12 (36")	96 75W slimline T12 (96")	* 120-277V. Must specify GEB10IS.	CSA CSA Certified (347V only)
		36 30W slimline T12 (36")	96HO 110W 800mA T12 (96")		NOM NOM Certified
		36HO 45W T12 800mA (36")	96PG 215W 1500mA T12 (96")		See below and page 98 for others.
		32 32W T8 (48")	96T8 59W T8 (96")		
		40 40W T12 (48")	96T8HO 86W T8 380mA (96")		
		48 39W slimline T12 (48")			

Availability and Dimensions

Series	Lamps per cross section	Lamps per fixture	Lamp type	Width in. (cm)	Depth ¹ in. (cm)	Length in. (cm)
UN	1, 2	1, 2	17, 20PH, 24, 24HO	5 (12.7)	3¾ (9.5)	24 (60.9)
	3, 4	3, 4	17, 20PH, 24	9 (22.9)		
UN	1, 2	1, 2	25, 36, 36HO	5 (12.7)	3¾ (9.5)	36 (91.4)
	3, 4	3, 4	25, 36, 36HO	9 (22.9)		
UN	1, 2	1, 2	32, 40, 48	5 (12.7)	3¾ (9.5)	48 (121.9)
	1, 2	1, 2	48HO, 48PG ²	5 (12.7)		
	3, 4	3, 4	32, 40, 48, 48HO	9 (22.9)		
2UN	2	2	32, 40, 48, 48HO, 48PG ²	9 (22.9)	3¾ (9.5)	48 (121.9)
UN	1, 2	1, 2	72, 72HO	5 (12.7)	3¾ (9.5)	72 (182.9)
	3, 4	3, 4	72, 72HO	9 (22.9)		
TUN	1, 2	2, 4	32, 40	5 (12.7)	3¾ (9.5)	96 (243.8)
	3, 4	6, 8		9 (22.9)		
T2UN	2	4	32, 40	9 (22.9)	3¾ (9.5)	96 (243.8)
UN	1, 2	1, 2	96, 96HO, 96T8	5 (12.7)	3¾ (9.5)	96 (243.8)
	1, 2	1, 2	96PG ² , 96T8HO	5 (12.7)		
	3, 4	3, 4	96, 96HO, 96T8, 96T8HO	9 (22.9)		
2UN	2	2	96, 96HO, 96T8	9 (22.9)	3¾ (9.5)	96 (243.8)
	2	2	96T8HO, 96PG ²	9 (22.9)		
TUN	1, 2	2, 4	96, 96HO, 96T8	5 (12.7)	3¾ (9.5)	192 (487.7) ³
	1, 2	2, 4	96T8HO, 96PG ²	5 (12.7)		
	3, 4	6, 8	96, 96HO, 96T8, 96T8HO	9 (22.9)		
T2UN	2	4	96, 96HO	9 (22.9)	3¾ (9.5)	192 (487.7) ³
	2	4	96T8, 96T8HO, 96PG ²	9 (22.9)		

Reflector Accessories (Order separately)

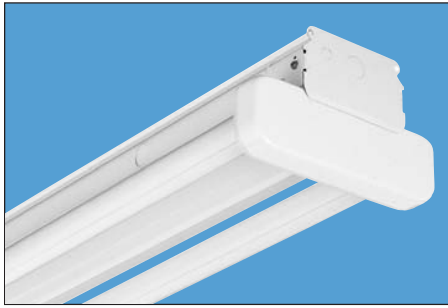
UNASR48	Asymmetric 5" wide, 4' long
UNASR96	Asymmetric 5" wide, 8' long
EJR48	Symmetric 5" wide, 4' long
EJR96	Symmetric 5" wide, 8' long
2UNASR48	Asymmetric 9" wide, 4' long
2UNASR96	Asymmetric 9" wide, 8' long
2EJR48	Symmetric 9" wide, 4' long
2EJR96	Symmetric 9" wide, 8' long

NOTES:

- Maximum depth to center of lamp.
- PG fixture depth is 4½" (10.5).
- One pair of 96" fixtures shipped in one carton.



SL



Heavy-Duty Turret Channels

Intended Use

Used for general illumination in areas such as manufacturing or warehousing where vibration is an issue.

Features

Heavy-duty formed channel with high-gloss, baked enamel finish.
Sockets enclosed in turret-type housing.
6" lamp spacing in 2-lamp models.

End plates and continuous-row channel connectors furnished.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).

Ordering Information

Example: **SL 2 96T8 120 GEB**

Series	Number of lamps	Lamp type		Voltage	Options
SL <small>For tandem double-length unit, add prefix T. Example: TSL</small>	1, 2, 3, 4 <small>Not included.</small>	17 17W T8 (24")	48 38W slimline (48")	120	1/3 One 3-lamp ballast
		20 20W T12 (24")	48HO 60W 800mA (48")	277	1/4 One 4-lamp ballast
		24 30W slimline (24")	48PG 110W 1500mA (48")	347	GEB Electronic ballast, ≤20% THD
		24HO 35W 800mA (24")	96 75W slimline (96")	MVOLT*	GEB10IS T8 electronic ballast, ≤10% THD, instant start
		30 30W T12 (36")	96HO 110W 800mA (96")	<small>Others available.</small>	GEB10RS T8 electronic ballast, ≤10% THD, rapid start
		36 30W slimline (36")	96PG 215W 1500mA (96")	<small>* 120-277V. Must specify GEB10IS.</small>	CSA CSA Certified
		36HO 45W 800mA (36")	96T8 59W T8 slimline (96")		NOM NOM Certified
		32 32W T8 (48")	96T8HO 86W T8 380mA (96")		<small>See page 98 for others.</small>
		40 40W T12 (48")			

Availability and Dimensions

Series	Lamps per cross section	Lamps per fixture	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
SL	1, 2, 3	1, 2, 3	17, 20	9 (22.9)	5 ⁵ / ₁₆ (13.5)	25 ¹³ / ₁₆ (65.6)
	4	4	17, 20	11 (27.9)	5 ⁵ / ₁₆ (13.5)	25 ¹³ / ₁₆ (65.6)
	1, 2, 3	1, 2, 3	24	9 (22.9)	5 ⁵ / ₁₆ (13.5)	24 (61.0)
	4	4	24	11 (27.9)	5 ⁵ / ₁₆ (13.5)	24 (61.0)
	1, 2, 3	1, 2, 3	25, 30	9 (22.9)	5 ⁵ / ₁₆ (13.5)	36 ¹³ / ₁₆ (93.5)
	4	4	25, 30	11 (27.9)	5 ⁵ / ₁₆ (13.5)	36 ¹³ / ₁₆ (93.5)
	1, 2, 3	1, 2, 3	36	9 (22.9)	5 ⁵ / ₁₆ (13.5)	36 (91.4)
	4	4	36	11 (27.9)	5 ⁵ / ₁₆ (13.5)	36 (91.4)
	1, 2, 3	1, 2, 3	32, 40	9 (22.9)	5 ⁵ / ₁₆ (13.5)	49 ¹³ / ₁₆ (126.5)
	4	4	32, 40	11 (27.9)	5 ⁵ / ₁₆ (13.5)	49 ¹³ / ₁₆ (126.5)
	1, 2, 3	1, 2, 3	48, 48HO, 48PG	9 (22.9)	5 ⁵ / ₁₆ (13.5)	48 (121.9)
	4	4	48, 48HO	9 (22.9)	5 ⁵ / ₁₆ (13.5)	48 (121.9)
TSL	1, 2, 3	2, 4, 6	17, 20	9 (22.9)	5 ⁵ / ₁₆ (13.5)	48 (121.9)
	4	8	17, 20	11 (27.9)	5 ⁵ / ₁₆ (13.5)	48 (121.9)
	1, 2, 3	2, 4, 6	24	9 (22.9)	5 ⁵ / ₁₆ (13.5)	48 (121.9)
	4	8	24	11 (27.9)	5 ⁵ / ₁₆ (13.5)	48 (121.9)
	1, 2, 3	2, 4, 6	25, 30	9 (22.9)	5 ⁵ / ₁₆ (13.5)	60 (152.4)
	4	8	25, 30	11 (27.9)	5 ⁵ / ₁₆ (13.5)	60 (152.4)
	1, 2, 3	2, 4, 6	36	9 (22.9)	5 ⁵ / ₁₆ (13.5)	96 (243.8)
	4	8	36	11 (27.9)	5 ⁵ / ₁₆ (13.5)	96 (243.8)
	1, 2, 3	2, 4, 6	32, 40	9 (22.9)	5 ⁵ / ₁₆ (13.5)	96 (243.8)
	4	8	32, 40	11 (27.9)	5 ⁵ / ₁₆ (13.5)	96 (243.8)
	1, 2, 3	2, 4, 6	48, 48HO, 48PG	9 (22.9)	5 ⁵ / ₁₆ (13.5)	96 (243.8)
	4	8	48, 48HO	11 (27.9)	5 ⁵ / ₁₆ (13.5)	96 (243.8)
SL	1, 2, 3	1, 2, 3	96, 96HO, 96PG	9 (22.9)	5 ⁵ / ₁₆ (13.5)	96 (243.8)
	1, 2, 3	1, 2, 3	96T8, 96T8HO	9 (22.9)	5 ⁵ / ₁₆ (13.5)	96 (243.8)
	4	4	96, 96HO	11 (27.9)	5 ⁵ / ₁₆ (13.5)	96 (243.8)
	4	4	96T8, 96T8HO	11 (27.9)	5 ⁵ / ₁₆ (13.5)	96 (243.8)



SM

Intended Use

Ideal for displays or any application with limited space.

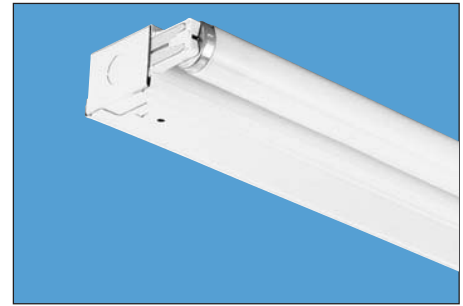
Features

Low-profile body and side-mounted lamps permit installation in shallow spaces and provide good illumination.

High-gloss, baked enamel finish.

Channel cover secured by quarter-turn fasteners for easy access.

Listings – 120V, 277V and MVOLT are UL Listed and CSA Certified (standard). See Options for 347V and NOM Certified.



Ordering Information

Example: **SM 2 40 120 ES**

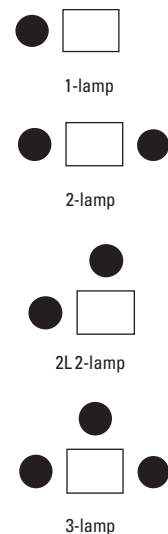
Series	Number of lamps	Lamp type	Voltage	Ballast options	Options
SM <small>For tandem double-length unit, add prefix T. Example: TSM</small>	1, 2, 2L¹, 3 <small>Not included.</small>	15 15W T12 (18") 15PH 15W T12 preheat (18") 17 17W T8 (24") 20 20W T12 (24") 20PH 20W T12 preheat (24") 25 25W T8 (36") 30 30W T12 (36") 30PH 30W T12 preheat (36") 32 32W T8 (48") 40 40W T12 (48")	120 277 347 MVOLT* <small>Others available. * 120-277V. Must specify GEB10IS.</small>	LPF Low power factor (for 15W, 20W, 30W) HPF High power factor (for 15W, 20W, 30W) ES Energy-saving ballast	1/3 One 3-lamp ballast 1/4 One 4-lamp ballast GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified (347V only) NOM NOM Certified <small>See page 99 for others.</small>

Availability and Dimensions

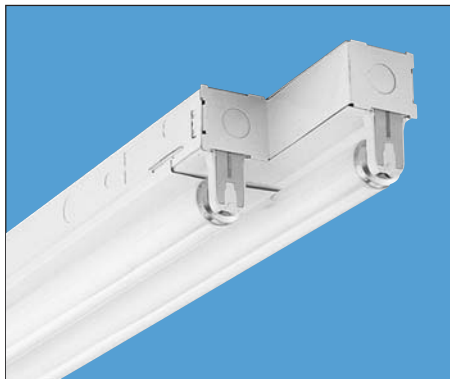
Nominal length	Series	Lamps per cross section	Lamps per fixture	Lamp type	Width in. (cm)	Depth ¹ in. (cm)	Length in. (cm)
1½'	SM	1	1	15, 15PH	4½ (11.4)	1½ ^{1/16} (4.3)	18 (45.7)
		2	2		6¼ (15.9)	1½ ^{1/16} (4.3)	
		2L	2		4½ (11.4)	3 (7.6)	
2'	SM	1	1	17, 20, 20PH	4½ (11.4)	1½ ^{1/16} (4.3)	24 (61.0)
		2	2		6¼ (15.9)	1½ ^{1/16} (4.3)	
		2L	2		4½ (11.4)	3 (7.6)	
3'	SM	3	3	25, 30, 30PH	6¼ (15.9)	3 (7.6)	36 (91.4)
		1	1		4½ (11.4)	1½ ^{1/16} (4.3)	
		2	2		6¼ (15.9)	1½ ^{1/16} (4.3)	
4'	SM	2L	2	32, 40	4½ (11.4)	3 (7.6)	48 (121.9)
		3	3		6¼ (15.9)	3 (7.6)	
		1	1		4½ (11.4)	1½ ^{1/16} (4.3)	
8'	TSM	2	4	32, 40	6¼ (15.9)	1½ ^{1/16} (4.3)	96 (243.8)
		2L	4		4½ (11.4)	3 (7.6)	
		3	6		6¼ (15.9)	3 (7.6)	

NOTES:

1 Maximum depth to center of lamps.



SS



Staggered Strips

Intended Use

Use for applications requiring uninterrupted illumination levels such as coves or displays.

Features

Channel is offset at both ends to accept adjoining fixtures in row applications.

Channel connectors furnished.

Lamps in adjacent fixtures overlap 4" to provide a continuous illumination.

High-gloss, baked-enamel finish.

Optional aluminum fixtures feature corrosion-resistant fasteners for use in damp and harsh locations.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).

Ordering Information

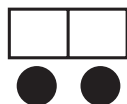
Example: **SS 2 96T8 120 GEB**

Series	Number of lamps	Lamp type		Voltage	Options
SS	1, 2 Not included.	17 17W T8 (24")	40 40W T12 (48")	120	1/4 One 4-lamp ballast
For optional aluminum channel, add suffix AL to catalog number. Example: SS 2 96 120 AL		20 20W T12 (24")	48 38W slimline (48")	277	GEB Electronic ballast, ≤20% THD
For tandem-wired double length unit, add prefix T . Example: TSS		24 30W slimline (24")	48HO 60W T12 800mA (48")	347	GEB10IS T8 electronic ballast, ≤10% THD, instant start
		24HO 35W T12 800mA (24")	72 56W slimline (72")	MVOLT*	GEB10RS T8 electronic ballast, ≤10% THD, rapid start
		25 25W T8 (36")	72HO 85W T12 800mA (72")	Others available.	AL Aluminum
		30 30W T12 (36")	96 75W T12 (96")	* 120-277V. Must specify GEB10IS.	CSA CSA Certified
		32 32W T8 (48")	96HO 110W T12 800mA (96")		NOM NOM Certified
		36 30W slim line (36")	96T8 59W T8 (96")		See page 99 for others.
		36HO 45W T12 800mA (36")	96T8HO 86W T8 380mA (96")		

Availability and Dimensions

Nominal length (feet)	Series	Lamps per cross section	Lamps per fixture	Lamp type	Width in. (cm)	Depth ¹ in. (cm)	Length ² in. (cm)
2	SS/ SS AL	1	1	17, 20, 24	4 ³ / ₁₆ (10.6)	2 ¹⁵ / ₁₆ (7.5)	24 (61.0)
		2	2	17, 20, 24		2 ¹⁵ / ₁₆ (7.5)	28 (71.1)
		1	1	24HO		3 ¹³ / ₁₆ (9.7)	24 (61.0)
		2	2	24HO		3 ¹³ / ₁₆ (9.7)	28 (71.1)
3	SS/ SS AL	1	1	25, 30, 36	4 ³ / ₁₆ (10.6)	2 ¹⁵ / ₁₆ (7.5)	36 (91.4)
		2	2	25, 30, 36		2 ¹⁵ / ₁₆ (7.5)	40 (101.6)
		1	1	36HO		3 ¹³ / ₁₆ (9.7)	36 (91.4)
		2	2	36HO		3 ¹³ / ₁₆ (9.7)	40 (101.6)
4	SS/ SS AL	1	1	32, 40, 48	4 ³ / ₁₆ (10.6)	2 ¹⁵ / ₁₆ (7.5)	48 (121.9)
		2	2	32, 40, 48		2 ¹⁵ / ₁₆ (7.5)	52 (132.1)
		1	1	48HO		3 ¹³ / ₁₆ (9.7)	48 (121.9)
		2	2	48HO		3 ¹³ / ₁₆ (9.7)	52 (132.1)
6	TSS/ TSS AL	1	2	25, 30	4 ³ / ₁₆ (10.6)	2 ¹⁵ / ₁₆ (7.5)	68 (172.7)
		2	4	25, 30		2 ¹⁵ / ₁₆ (7.5)	76 (193.0)
		1	1	72		2 ¹⁵ / ₁₆ (7.5)	72 (182.9)
		2	2	72		2 ¹⁵ / ₁₆ (7.5)	76 (193.0)
8	SS/ SS AL	1	1	72HO	4 ³ / ₁₆ (10.6)	3 ¹³ / ₁₆ (9.7)	72 (182.9)
		2	2	72HO		3 ¹³ / ₁₆ (9.7)	76 (193.0)
		1	2	32, 40, 48		2 ¹⁵ / ₁₆ (7.5)	92 (233.7)
		2	4	32, 40, 48		2 ¹⁵ / ₁₆ (7.5)	100 (254.0)
8	SS/ SS AL	1	1	96T8HO, 96, 96T8	4 ³ / ₁₆ (10.6)	2 ¹⁵ / ₁₆ (7.5)	96 (243.8)
		2	2	96T8HO, 96, 96T8		2 ¹⁵ / ₁₆ (7.5)	100 (254.0)
		1	1	96HO		3 ¹³ / ₁₆ (9.7)	96 (243.8)
		2	2	96HO		3 ¹³ / ₁₆ (9.7)	100 (254.0)

NOTES:
1 Maximum depth to center of lamps.
2 See page 105 to calculate row length.



Intended Use

Use for applications requiring uninterrupted illumination at the end of rows. Ideal for retail and cove application.

Features

Channel is offset to join companion SS Staggered Strip for row mounting.

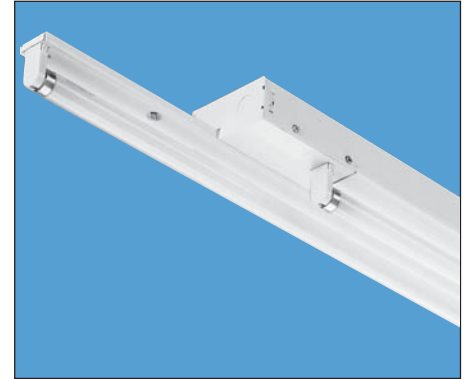
Channel telescopes to provide even, continuous environment without shadows.

Two-lamp configuration.

Accessory asymmetric reflectors available.

High-gloss baked enamel white finish.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).



Example: **SST 2 32 120 GEB**

Ordering Information

Series	Number of lamps	Lamp type	Voltage	Options
SST	2 Not included.	17 17W T8 (24") 20 20W T12 (24") 25 25W T8 (36") 30 30W T12 (36") 32 32W T8 (48") 40 40W T12 (48")	120 277 347 MVOLT* Others available. * 120-277V. Must specify GEB10IS.	GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start GLR Internal fast-blow fuse GMF Internal slow-blow fuse PLF_ Plug-in wiring, specify 1, 2 or 3 branch circuits and hot wires (A =Black, B =Red, C =Blue, AB or AC) CSA CSA Certified NOM NOM Certified See page 99 for others.

Availability and Dimensions

Nominal length	Series	Number of lamps	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
2	SST	2	17, 20	4¾ (11.1)	2 ¹⁵ / ₁₆ (7.5)	28 (71.1)
3	SST	2	25, 30	4¾ (11.1)	2 ¹⁵ / ₁₆ (7.5)	40 (101.6)
4	SST	2	32, 40	4¾ (11.1)	2 ¹⁵ / ₁₆ (7.5)	52 (132.1)

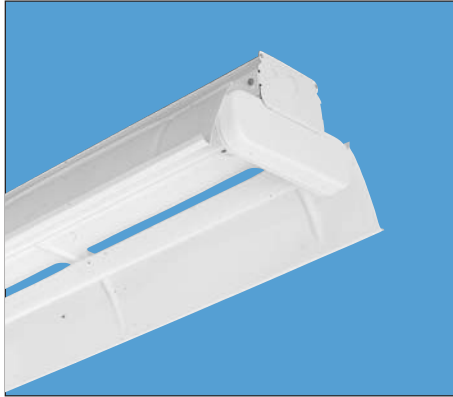
Accessories (Order separately)

SSTASR48WH Asymmetric reflector, 4', white

NOTE:
1 MVOLT available with GEB10IS only



AF



Ordering Information

Series	Number of lamps
AF 20% uplight	1, 2, 3, 4 Not included.
AF10 10% uplight	
AFST Solid reflector	
For tandem double-length unit, add prefix T. Example: TAF	

Heavy-Duty Turret Industrials

Intended Use

For mounting heights up to 25' that require high light levels. Ideal for medium to heavy-duty manufacturing areas, warehousing, storage or task lighting.

Features

Solid-top, 10% uplight or 20% uplight reflector is die-embossed, constructed of heavy-gauge cold rolled steel and painted after fabrication. Baked white enamel finish standard, porcelain available. Pressure-lock lampholders enclosed in a snap-in turret housing.

Available in 4' or 8' tandem wired lengths. Full depth end plates available (order separately, one per fixture or row). Accepts plug-in option for 1, 2 or 3 primary circuits.

Ballast – Thermally-protected, resetting, Class P, HPF, non-PCB, UL listed, CSA certified ballast standard. Sound rating depends on lamp/ballast combination.

Wiring & Electrical – AWM, TFN and THHN wire used throughout, rated for required temperatures.

Mounting – For unit or row installations, surface or suspended mounting.

Listings – 120V, 277V and MVOLT are UL Listed and CSA Certified (standard). See Options for 347V and NOM Certified.

Example: **AF 2 96HO 277 ES CW20**

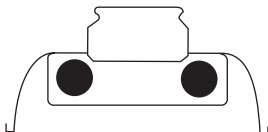
Lamp type	Voltage	Options/Accessories ¹
32 32W T8 (48")	120	1/3 One 3-lamp ballast
40 40W T12 (48")	277	1/4 One 4-lamp ballast
48 38W Slimline (48")	347	GEB Electronic ballast, ≤20% THD
48HO 60W 800mA (48")	MVOLT*	GEB10IS T8 electronic ballast, ≤10% THD, instant start
48T8HO 44W T8 (48")	Others available.	GEB10RS T8 electronic ballast, ≤10% THD, rapid start
48PG 110W 1500mA (48")	* 120-277V. Must specify GEB10IS.	PO White porcelain reflector finish
96 75W Slimline (96")		ACEP Full-depth end plates (1 pair) ¹
96HO 110W 800mA (96")		DLAF ME 30°x30° metal eggcrate louver, 48" long ¹
96PG 215W 1500mA (96")		DLAF A12 Framed acrylic prismatic lens, #12 ¹
96T8 59W T8 Slimline (96")		CSA CSA Certified (347V only)
96T8HO 86W T8 380mA (96")		NOM NOM Certified

See page 99 for others.

Availability and Dimensions

Series	Lamps per cross section	Lamps per fixture	Lamp type	Width ² in. (cm)	Depth ² in. (cm)	Length ² in. (cm)
AF, AF10, AFST	1, 2, 3, 4	1, 2, 3, 4	32, 40	13 ³ / ₈ (33.4)	6 ⁵ / ₈ (15.8)	49 ¹³ / ₁₆ (126.5)
AF, AF10, AFST	2, 3, 4	2, 3, 4	48, 48HO, 48PG ³ , 48HO	13 ³ / ₈ (33.4)	6 ⁵ / ₈ (15.8)	48 (121.9)
TAF, TAF10, TAFST	1, 2, 3, 4	2, 4, 6, 8	32, 40, 48, 48HO, 48PG ³	13 ³ / ₈ (33.4)	6 ⁵ / ₈ (15.8)	99 ¹⁹ / ₃₂ (253.2) 96 (243.8)
AF, AF10, AFST	1, 2, 3, 4	1, 2, 3, 4	96, 96T8, 96HO, 96T8HO, 96PG ³	13 ³ / ₈ (33.4)	6 ⁵ / ₈ (15.8)	96 (243.8)

Drawings for dimensional detail only. May not represent actual mechanical configuration. Dimensions are shown in inches (centimeters).



NOTES:

- Order accessories as separate catalog numbers.
- For detailed mounting information consult the product specification sheets.
- PG fixture not available with 4 lamps.

AFP

Intended Use

For mounting heights up to 25' that require high light levels. Ideal for medium to heavy-duty areas, manufacturing, warehousing, storage or task lighting.

Features

Solid-top, 10% uplight or 20% uplight reflector is die-embossed, constructed of heavy-gauge cold rolled steel and painted after fabrication. Baked white enamel finish standard, porcelain is available. Locking lamp holders are standard with deep end plates.

Available in 4' or 8' tandem wired lengths. Full depth end plates available (order separately, one per fixture or row). Accepts plug-in option for 1, 2 or 3 primary circuits.

Ballast – Thermally protected, resetting, Class P, HPF, non-PCB, UL listed, CSA certified ballast standard. Sound rating depends on lamp/ballast combination.

Wiring & Electrical – AWM, TFN and THHN wire used throughout, rated for required temperatures.

Mounting – For unit or row installations, surface or suspended mounting.

Listings – 120V, 277V and MVOLT are UL Listed and CSA Certified (standard). See Options for 347V and NOM Certified.



Example: **AFP 2 32 277 GEB**

Ordering Information

Series	Number of lamps	Lamp type	Voltage	Options/Accessories ¹
AFP 10% uplight	1, 2, 3	28T5 28W T5 (46")	120	1/3 One 3-lamp ballast
AFPST Solid reflector	Not included.	32 32W T8 (48")	277	1/4 One 4-lamp ballast
For tandem double-length unit, add prefix T. Example: TAF		40 40W T12 (48")	347	GEB Electronic ballast, ≤20% THD
		48T8HO 44W T8 (48")	MVOLT*	GEB10IS T8 electronic ballast, ≤10% THD, instant start
		54T5HO 54W T5 HO (46")	Others available.	GEB10RS T8 electronic ballast, ≤10% THD, rapid start
		96 75W W Slimline (96")	* 120-277V. Must specify GEB10IS or GEB10PS.	GEB10PS T5 electronic ballast, ≤10% THD, program start
		96T8 59W T8 Slimline (96")		ACEP Full-depth endplates (1 pair) ¹
		96T8HO 86W T8 380mA (96")		DLAF ME 30°x30° metal eggcrate louver, 48" long ¹
				DLAF A12 Framed acrylic prismatic lens, #12 pattern, 48" long ¹
				PO White porcelain reflector finish
				CSA CSA Certified (347V only)

See page 99 for others.

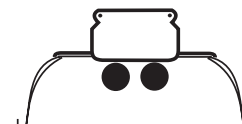
Availability and Dimensions

Series	Lamps per cross section	Lamps per fixture	Lamp type	Width ² in. (cm)	Depth ² in. (cm)	Length ² in. (cm)
AFP, AFPST	1, 2, 3	1, 2, 3	28T5, 32, 40 ³ , 48T8HO, 54T5HO	13 ³ / ₈ (33.4)	6 ⁵ / ₈ (15.8)	49 ¹³ / ₁₆ (126.5)
TAFP, TAFPST	1, 2, 3	2, 4, 6	28T5, 32, 40 ³ , 48T8HO, 54T5HO	13 ³ / ₈ (33.4)	6 ⁵ / ₈ (15.8)	99 ¹⁹ / ₃₂ (253.2)
AFP, AFPST	1, 2, 3	1, 2, 3	96 ³ , 96T8, 96T8HO	13 ³ / ₈ (33.4)	6 ⁵ / ₈ (15.8)	96 (243.8)

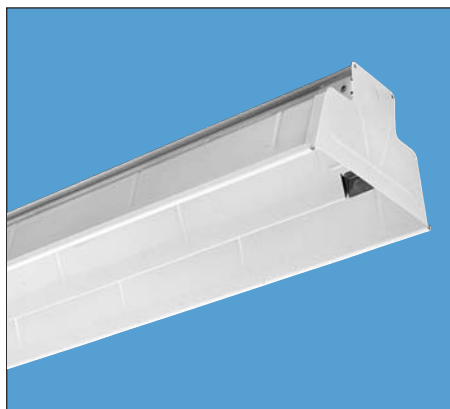
NOTES:

- Order accessories as separate catalog numbers.
- For detailed mounting information consult the product specification sheets.
- T12 lamp option not available with 3 lamps.

Drawings for dimensional detail only. May not represent actual mechanical configuration. Dimensions are shown in inches (centimeters).



PV



Heavy-Duty Parabolic Industrials

Intended Use

For mounting heights up to 25' requiring low to high light levels and excellent glare control. Ideal for manufacturing assembly lines, inspection areas and warehousing.

Features

Heavy-duty formed channel with parabolic, deep die-embossed reflector with high-gloss baked enamel finish. Porcelain finish optional.

Center "V" provides 30° crosswise shielding to minimize glare. 20% upright standard.

Full-depth endplates required. Order separately, one pair per fixture or row.

Reflector aligners and channel connector furnished for continuous-row mounting.

Spring-loaded sockets securely hold lamps in rough-duty applications.

Ballast – Thermally protected, resetting, Class P, HPF, non-PCB, UL listed, CSA-certified ballast is standard. Sound rating depends on lamp/ballast combination.

Wiring & Electrical – AWM, TFN or THHN wire used throughout, rated for required temperatures.

Mounting – For unit or row installations, surface or suspended mounting. Order endplates separately, one per fixture or row.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options). Suitable for damp locations.

Ordering Information

Example: **PV 2 96T8 120 GEB**

Series	Number of lamps	Lamp type	Voltage	Options/Accessories ¹
PV <small>For tandem double-length unit, add prefix T. Example: TPV</small>	2 <small>Not included.</small>	32 32W T8 (48") 40 40W T12 (48") 48 38W Slimline (48") 48HO 60W 800mA (48") 48T8HO 44W T8 (48") 48PG 110W 1500mA (48") 96 75W Slimline (96") 96HO 110W 800mA (96") 96PG 215W 1500mA (96") 96T8 59W T8 Slimline (96") 96T8HO 86W T8 380mA (96") 28T5 28W T5 (46") 54T5HO 54W T5 HO (46")	120 277 347 MVOLT* <small>Others available. * 120-277V. Must specify GEB10IS or GEB10PS.</small>	GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start GEB10PS T8 electronic ballast, ≤10% THD, program start PO White porcelain reflector finish PCEP Full-depth end plates (1 pair) required. Use one pair per fixture for single unit installations or one pair per row. ¹ CSA CSA Certified NOM NOM Certified <small>See page 99 for others.</small>

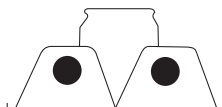
Availability and Dimensions

Series	Lamps per cross section	Lamps per fixture	Lamp type	Width ² in. (cm)	Depth ² in. (cm)	Length ² in. (cm)
PV	2	2	28T5, 32, 40, 54T5HO	13 ³ / ₈ (33.4)	6 ⁵ / ₈ (15.8)	49 ¹³ / ₁₆ (126.5)
TPV	2	4				99 ⁹ / ₃₂ (253.2)
PV	2	2	48, 48HO, 48T8HO, 48PG	13 ³ / ₈ (33.4)	6 ⁵ / ₈ (15.8)	48 (121.9)
TPV	2	4	48, 48HO, 48T8HO, 48PG 28T5, 54T5HO	13 ³ / ₈ (33.4)	6 ⁵ / ₈ (15.8)	96 (243.8)
PV	2	2	96, 96HO, 96PG 96T8, 96T8HO	13 ³ / ₈ (33.4)	6 ⁵ / ₈ (15.8)	96 (243.8)

NOTES:

- Order accessories as separate catalog numbers.
- For detailed mounting information consult the product specification sheets.

Drawings for dimensional detail only. May not represent actual mechanical configuration. Dimensions are shown in inches (centimeters).



EJ EJA

Intended Use

For mounting heights up to 20' requiring low to medium light levels. Ideal for light duty task lighting, aisles, warehousing, storage and retail.

Features

Solid top reflector or 5% uplight is available. Premium gauge channel features gripper-back design for strength and rigidity. Extra-wide channel and reflector on 3 and 4 light fixtures. Sturdy combination reflector and channel cover secured by quarter-turn latch for easy access to wire-way.

Screw-on endplates. Available in tandem wiring lengths. Accepts plug-in options for 1, 2 or 3 primary circuits. High-gloss, baked enamel finish reflector painted after fabrication. (Optional finishes available)

Ballast – Thermally protected, resetting, Class P, HPF, non-PCB, UL listed, CSA-certified ballast is standard. Sound rating depends on lamp/ballast combination.

Wiring & Electrical – AWM, TFN or THHN wire used throughout, rated for required temperatures

Mounting – For unit or row installations, surface or suspended mounting.

Listings – 120V, 277V and MVOLT are UL Listed and CSA Certified (standard). See Options for 347V and NOM Certified. Suitable for damp locations.



Ordering Information

Example: **EJ 2 96T8 120 GEB**

Series	Number of lamps	Lamp type			Options/ Accessories
EJ Solid reflector	1, 2, 3, 4 Not included.	17 17W T8 (24")	36HO 45W 800mA (36")	72 55W Slimline (72")	1/3 One 3-lamp ballast
EJA 5% uplight		20 20W T8 (24")	40 40W T12 (48")	72HO 85W T12 800mA (72")	
2EJ 2 lamps in wide body		24 30W Slimline (24")	48 38W Slimline (48")	96 75W Slimline (96")	1/4 One 4-lamp ballast
2EJA 2 lamps in wide body, apertured reflector		25 25W T8 (36")	48HO 60W 800mA (48")	96HO 110W 800mA (96")	GEB Electronic ballast, ≤20% THD
		24HO 35W 800mA (24")	48T8HO 44W T8 (48")	96PG 215W 1500mA (96")	
		28T5 28W T5 (46")	48PG 110W 1500mA (48")	96T8 59W T8 Slimline (96")	GEB10IS T8 electronic ballast, ≤10% THD, instant start
		32 32W T8 (48")	54T5HO 54W T5 HO (46")	96T8HO 86W T8 380mA (96")	
		36 30W Slimline (36")			GEB10RS T8 electronic ballast, ≤10% THD, rapid start

For tandem double-length unit, add prefix T. Example: **TEJ**

Voltage

120
277
347

MVOLT*

Others available.

* 120-277V. Must specify GEB10IS or GEB10PS.

GEB10PS T8 electronic ballast, ≤10% THD, program start

CSA CSA Certified (347V only)

NOM NOM Certified

See page 99 for others.

Availability and Dimensions

Series	Lamps per cross section	Lamps per fixture	Lamp type	Width ¹ in. (cm)	Depth ¹ in. (cm)	Length ¹ in. (cm)
EJ, EJA	1, 2 3, 4	1, 2 3, 4	17, 20, 24, 24HO 17, 20, 24	12 (30.5) 16 (40.6)	5¼ (13.3) 5¼ (13.3)	24 (69.9) 24 (69.9)
2EJ, 2EJA	1, 2	1, 2	17, 20PH, 24, 24HO	16 (40.6)	5¼ (13.3)	24 (69.9)
EJ, EJA	1, 2 3, 4	1, 2 3, 4	25, 36, 36HO	12 (30.5) 16 (40.6)	5¼ (13.3) 5¼ (13.3)	36 (91.4) 36 (91.4)
2EJ, 2EJA	1, 2	1, 2	25, 36, 36HO	16 (40.6)	5¼ (13.3)	36 (91.4)
EJ, EJA	1, 2 3, 4	1, 2 3, 4	32,40,48,48HO,48T8HO,48PG ² , 28T5, 54T5HO 32,40,48,48HO,48PG ² , 28T5, 54T5HO	12 (30.5) 16 (40.6)	5¼ (13.3) 5¼ (13.3)	48 (121.9) 48 (121.9)
2EJ, 2EJA	2	2	32,40,48,48HO,48PG ²	16 (40.6)	5¼ (13.3)	48 (121.9)
EJ, EJA	1, 2 3, 4	1, 2 3, 4	72, 72HO	12 (30.5) 16 (40.6)	5¼ (13.3) 5¼ (13.3)	72 (182.9) 72 (182.9)
2EJ, 2EJA	1, 2	1, 2	72, 72HO	16 (40.6)	5¼ (13.3)	72 (182.9)
TEJ, TEJA	1, 2 3, 4	2, 4 6, 8	32,40,48,48HO,48T8HO,48PG ² 32,40,48,48HO,48PG ²	12 (30.5) 16 (40.6)	5¼ (13.3) 5¼ (13.3)	96 (243.8) 96 (243.8)
T2EJ, T2EJA	2	4	32,40,48,48HO,48PG ²	16 (40.6)	5¼ (13.3)	96 (243.8)
EJ, EJA	1, 2 3, 4	1, 2 3, 4	96, 96T8, 96HO, 96T8HO, 96PG ² 96, 96T8, 96HO, 96T8HO, 96PG ²	12 (30.5) 16 (40.6)	5¼ (13.3) 5¼ (13.3)	96 (243.8) 96 (243.8)
2EJ, 2EJA	2	2	96, 96T8, 96HO, 96T8HO, 96PG ²	16 (40.6)	5¼ (13.3)	96 (243.8)

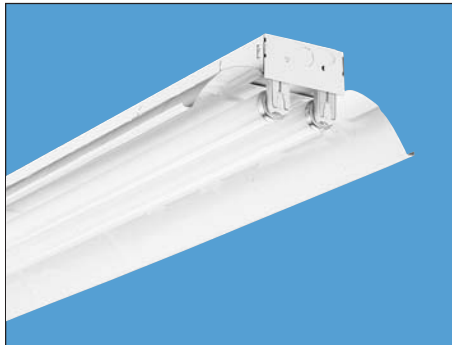
NOTES:

- For detailed mounting information consult the product specification sheets.
- PG fixtures not available with 4 lamps.

Drawings for dimensional detail only. May not represent actual mechanical configuration. Dimensions are shown in inches (centimeters).



L
LA



Intended Use

For mounting heights up to 16' requiring low to medium light levels. Ideal for light duty areas, utility, storage rooms or retail.

Features

Solid top reflector or 8% uplight is available. Sturdy combination reflector and channel cover secured by captive quarter-turn latch for easy access to wireway. Combination endplate/channel connector supplied with each fixture. High-gloss backed white enamel finish. Reflector is painted after fabrication. Available in tandem wired lengths. Accepts plug-ins for 1, 2 or 3 primary circuits.

Ballast – Thermally-protected, resetting, Class P, HPF, non-PCB, UL listed, CSA certi-

fied ballast is standard. Sound rating depends on lamp/ballast combination.

Wiring & Electrical – AWM, TFN or THHN wire used throughout, rated for required temperatures.

Mounting – For unit or row installations, surface or suspended mounting.

Listings – 120V, 277V and MVOLT are UL Listed and CSA Certified (standard). See Options for 347V and NOM Certified.

Ordering Information

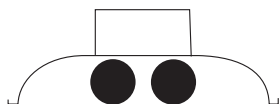
Example: **L 2 96T8 120 GEB**

Series	Number of lamps	Lamp type	Voltage	Options/Accessories
L Solid reflector LA 8% uplight <small>For tandem double-length unit, add prefix T. Example: TL</small>	1, 2 <small>Not included.</small>	17 17W T8 (24") 20 20W T12 (24") ¹ 32 32W T8 (48") 40 40W T12 (48") 48 38W Slimline (48") 48T8HO 44W T8 (48") 96 75W Slimline (96") 96T8 59W T8 Slimline (96") 96T8HO 86W T8 380mA (96")	120 277 347 MVOLT* <small>Others available. * 120-277V. Must specify GEB10IS.</small>	1/4 One 4-lamp ballast GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified (347V only) NOM NOM Certified <small>See page 99 for others.</small>

NOTES:

- Specify ballast option HPF or LPF for 20W.
- For detailed mounting information consult the product specification sheets.

Drawings for dimensional detail only.
May not represent actual mechanical configuration.
Dimensions are shown in inches (centimeters).



Availability and Dimensions

Series	Lamps per Cross Section	Lamps per Fixture	Lamp Type	Width ² in.(cm)	Depth ² in.(cm)	Length ² in.(cm)
L, LA	1	1	17, 20 ¹	12 (30.5)	4 (10.2)	24 (61.0)
	2	2	17, 20 ¹	12 (30.5)	4 (10.2)	24 (61.0)
L, LA	1	1	32, 40, 48	12 (30.5)	4 (10.2)	48 (121.9)
	2	2	32, 40, 48, 48T8HO	12 (30.5)	4 (10.2)	48 (121.9)
TL, TLA	1	2	32, 40, 48, 48T8HO	12 (30.5)	4 (10.2)	96 (243.8)
	2	4	32, 40, 48	12 (30.5)	4 (10.2)	96 (243.8)
L, LA	1	1	96, 96T8, 96T8HO	12 (30.5)	4 (10.2)	96 (243.8)
	2	2	96, 96T8, 96T8HO	12 (30.5)	4 (10.2)	96 (243.8)

RI
RIU

Intended Use

Intended for mounting heights up to 16' requiring low to medium light levels. Ideal for light-duty areas, utility, storage rooms or retail.

Features

Solid top reflector or 5% uplight is available. Sturdy combination reflector and channel cover secured by two screws. Combination endplate/channel connector supplied with each fixture. High-gloss baked white enamel finish. Reflector is painted after fabrication. Available in tandem wired lengths. Accepts plug-ins for one or two primary circuits.

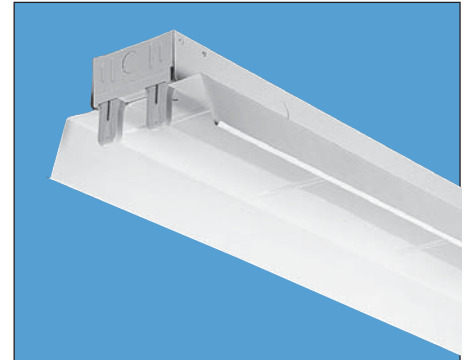
Ballast – Thermally protected, resetting, Class P, HPF, non-PCB, UL listed, CSA-cer-

tified ballast is standard. Sound rating depends on lamp/ballast combination.

Wiring & Electrical – AWM, TFN or THHN wire used throughout, rated for required temperatures.

Mounting – For unit or row installations, surface or suspended mounting.

Listings – CSA Certified. Suitable for damp locations. **These models not available in U.S.**



Example: **RI 2 96T8 120 GEB**

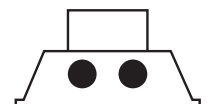
Ordering Information

Series	Number of lamps	Lamp type	Voltage	Options/Accessories
RI Solid reflector RIU 5% uplight For tandem double-length unit, add prefix T . Example: TRIU	1, 2 Not included.	17 17W T8 (24") 20 20W T12 (24") ¹ 32 32W T8 (48") 40 40W T12 (48") 48 38W Slimline (48") 96 75W Slimline (96") 96T8 59WT8 Slimline (96")	120 277 347 MVOLT* Others available. * 120-277V. Must specify GEB10IS.	1/4 One 4-lamp ballast GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start See page 99 for others.

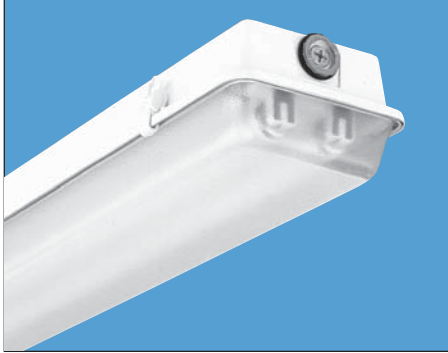
Availability and Dimensions						
Series	Lamps per cross section	Lamps per fixture	Lamp type	Width ² in. (cm)	Depth ² in. (cm)	Length ² in. (cm)
RI, RIU	1 2	1 2	17, 20 ¹	9 (22.9)	4¼ (10.8)	24 (61.0)
RI, RIU	1 2	1 2	32, 40, 48	9 (22.9)	4¼ (10.8)	48 (121.8)
TRI, TRIU	1 2	2 4	32, 40, 48	9 (22.9)	4¼ (10.8)	96 (243.6)
RI, RIU	1 2	1 2	96, 96T8	9 (22.9)	4¼ (10.8)	96 (243.6)

NOTES:
 1 Specify ballast option HPF or LPF for 20W.
 2 For detailed mounting information consult the product specification sheets.

Drawings for dimensional detail only. May not represent actual mechanical configuration. Dimensions are shown in inches (centimeters).



DM DMW



Enclosed Fiberglass Housing

Intended Use

For low to medium mounting heights and harsh environments where dust, dirt, humidity or moisture is present. Ideal for canopies, shipping docks, refrigerated areas, food processing and other non-hazardous environments.

Features

Impact-resistant, UV-stabilized, reinforced polyester fiberglass housing. Shatter-resistant 15% DR acrylic diffuser standard, high impact 50% DR available. Poured-in gasketing provides a continuous seal between housing and diffuser. Captive, corrosion-resistant, cam-action latches secure the diffuser. Stainless steel (STSL) latches are also available.

Ballast – Thermally protected, resetting, Class P, HPF, non-PCB, UL listed, CSA certified ballast is standard. Sound rating depends on lamp/ballast combination.

Wiring and Electrical – AWM, TFN or THHN wire used throughout, rated for required temperatures.

Mounting – For unit or row installations, surface (ceiling or wall) or suspended mounting.

Listings – 120V, 277V and MVOLT are UL Listed and CSA Certified (standard). See Options for 347V and NOM Certified. DMW is listed for wet locations.

Ordering Information

Example: **DM 2 96T8 120 GEB**

Series	Lamp type	Diffuser type	Voltage	Options/Accessories ^{3,4}
DM Damp location DMW Wet location <small>For tandem double-length unit, add prefix T. Example: TDM</small>	32 32W T8 (48") 40 40W T12 (48") 48 38W Slimline (48") 48HO 60W 800mA (48") 96 75W Slimline (96") 96HO 110W 800mA (96") 96T8 59W T8 Slimline (96") 96T8HO 86W T8 380mA (96")	(blank) Acrylic, 15% DR AR High-impact acrylic, 50% DR DP Deep acrylic, 15% DR ² ARDP Deep high-impact acrylic, 50% DR ²	120 277 347 MVOLT* <small>Others available. * 120-277V. Must specify GEB10IS.</small>	1/3 One 3-lamp ballast 1/4 One 4-lamp ballast GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start GEB10RS T8 electronic ballast, ≤10% THD, rapid start BCD Mounting bracket to chain-hang DM/DMW (2 per package, excludes chain) ⁴ HC Wire hook and 36" chain set (2 per package) ⁴ WLF Field-installable wet location fittings to stem-hang DMW on ½" rigid conduit (2 per package). For factory-installed fittings on top, order WLF as an option. CSA CSA Certified (347V only) NOM NOM Certified <small>See page 99 for others.</small>
Number of lamps 1, 2, 3¹ <small>Not included.</small>				

Availability and Dimensions

Series	Lamps per cross section	Lamps per fixture	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
DM, DMW	1, 2, 3 ¹	1, 2, 3	32, 40	7 ⁵ / ₈ (18.4)	4 ³ / ₈ (9.5)	50 (127.0)
DM, DMW	1, 2	1, 2	48, 48HO, 48T8HO	7 ⁵ / ₈ (18.4)	5 ⁵ / ₈ (13.3)	50 (127.0)
DM, DMW (DP or ARDP)	1, 2, 3 ¹	1, 2, 3	32, 40	7 ⁵ / ₈ (18.4)	5 ⁵ / ₈ (13.3)	50 (127.0)
TDM, TDMW	1, 2	2, 4	32, 40, 48, 48HO, 48T8HO	7 ⁵ / ₈ (18.4)	5 ⁵ / ₈ (13.3)	98 (248.9)
DM, DMW	1, 2	1, 2	96, 96HO, 96T8, 96T8HO	7 ⁵ / ₈ (18.4)	5 ⁵ / ₈ (13.3)	98 (248.9)

Drawings for dimensional detail only.
May not represent actual mechanical configuration.
Dimensions are shown in inches (centimeters).



NOTES:

- 3-lamp models only available with T8 lamp source.
- Deep lens is standard on 4' slimline, HO (800mA) and 8' fixtures. To match deep appearance on 4' rapid start, order **DP** or **ARDP** option.
- Cold weather ballasts (**CW** or **CW20**) for use at 40°F ambient temperature or below.
- Please order accessories as separate catalog numbers.

DMS DMSW

Intended Use

For low to medium mounting heights and harsh environments where dust, dirt, humidity or moisture is present. Ideal for canopies, shipping docks, refrigerated areas, food processing and other non-hazardous environments.

Features

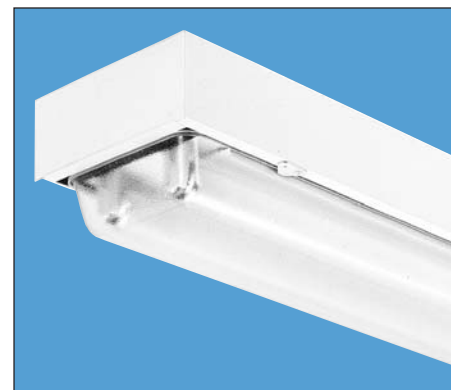
Fully gasketed, totally enclosed fixture is available in heavy-duty steel or aluminum housing (AL option) with a baked white enamel finish. A shatter-resistant 15% DR acrylic diffuser (50% DR available) is secured by captive, corrosion-resistant pivot latches.

Ballast – Thermally protected, resetting, Class P, HPF, non-PCB, UL listed, CSA certified ballast is standard. Sound rating depends on lamp/ballast combination.

Wiring and Electrical – AWM, TFN or THHN wire used throughout, rated for required temperatures.

Mounting – For unit or row installations, surface or suspended mounting. Wet location DMSW available for ceiling mount only.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options). Suitable for damp locations. DMSW is listed for wet locations.



Example: **DMS 2 96T8 120 GEB AL**

Ordering Information

Series	Number of lamps	Lamp type	Diffuser type
DMS Damp location	1, 2, 3 ¹	32 32W T8 (48") 40 40W T12 (48")	(blank) Acrylic, 15% DR
DMSW Wet location	Not included.	48 38W Slimline (48") 48HO 60W 800mA (48") 48T8HO 44W T8 (48")	AR High-impact acrylic, 50% DR
For tandem double-length unit, add prefix T. Example: TDMS		96 75W Slimline (96") 96HO 110W 800mA (96") 96T8 59W T8 Slimline (96") 96T8HO 86W T8 380mA (96")	DP Deep acrylic, 15% DR ² ARDP High-impact deep acrylic, 50 DR ²

Voltage	Options/Accessories ^{3,4}
120	GEB Electronic ballast, ≤20% THD
277	GEB10IS T8 electronic ballast, ≤10% THD, instant start
347	GEB10RS T8 electronic ballast, ≤10% THD, rapid start
MVOLT*	AL Aluminum body
Others available.	WLF Field-installable wet location fittings to stem-hang DMS on ½" rigid conduit (2 per package). For factory-installed fittings on top, order WLF as an option.
* 120-277V. Must specify GEB10IS.	CSA CSA Certified
	NOM NOM Certified

See page 99 for others.

Availability and Dimensions

Series	Lamps per cross section	Lamps per fixture	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
DMS, DMSW	1, 2, 3 ¹	1, 2, 3	32, 40, 48T8HO 48, 48HO, 48T8HO	8 ⁵ / ₈ (20.9)	5 ¹ / ₄ (13.3) 6 ¹ / ₈ (15.3)	50 ⁹ / ₁₆ (129.4)
DMS, DMSW (DP or ARDP)	1, 2, 3 ¹	1, 2, 3	32, 40, 48, 48HO, 48T8HO	8 ⁵ / ₈ (20.9)	6 ¹ / ₈ (15.3)	50 ⁹ / ₁₆ (129.4)
TDMS, TDMSW	1, 2, 3 ¹	2, 4, 6	32, 40, 48, 48HO, 48T8HO	8 ⁵ / ₈ (20.9)	6 ¹ / ₈ (15.3)	98 ⁵ / ₁₆ (251.3)
DMS, DMSW	1, 2	1, 2	96, 96HO, 96T8, 96T8HO	8 ⁵ / ₈ (20.9)	6 ¹ / ₈ (15.3)	98 ⁵ / ₁₆ (251.3)

NOTES:

- 3-lamp models only available with T8 lamp source.
- Deep lens is standard on 4' slimline, HO (800mA) and 8' fixtures. To match deep appearance on 4' rapid start, order **DP** or **ARDP** option.
- Please order accessories as separate catalog numbers.
- Cold weather ballasts (CW or CW20) for use at 40°F ambient temperatures or below.

Drawings for dimensional detail only. May not represent actual mechanical configuration. Dimensions are shown in inches (centimeters).



EIS EFS

Tough Task™

Intended Use

Intended for demanding areas such as dust or hosedown (EIS) and food processing (EFS) applications. Applications include EIS – docks, marine environments, heavy industrials and other non-hazardous environments; EFS – food/beverage processing, cosmetics and pharmaceuticals.

Features

Fully gasketed, totally enclosed fixture formed of heavy-duty aluminum construc-

tion. Fully seam-welded construction. A wide variety of finishes available.

Clear prismatic, injection-molded high strength acrylic diffuser (polycarbonate optional). Diffuser retained to housing with stainless steel fasteners.

Available in standard (2- or 3-lamp) or narrow (1 lamp) channel with your choice of T5, T8 or T12 lamps.

Listing includes:

EIS – IP65 rated for protection against the ingress of water and contaminants.

EFS – IP65 rated for the protection against the ingress of water and contaminants. Complies with FDA/USDA guidelines and is Food Zone Non-Contact certified.

For unit or row installation, surface (ceiling or wall) or suspended.

UL Listed to US and Canadian safety standards (standard).



Ordering Information

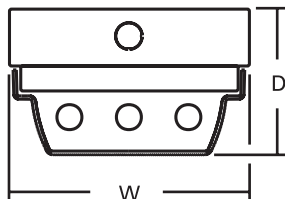
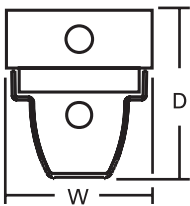
Example: **EIS 2 32 120 GEB**

Series	Lamps ¹	Diffuser Type	Voltage	Options
EIS Enclosed industrial (wide)	1, 2, 3 Not included.	(blank) Prismatic acrylic	120	1/3 One 3-lamp ballast (T8 only)
EISC Enclosed industrial (narrow)		PCL Prismatic polycarbonate ³	277	GEB T8 electronic ballast, ≤20% THD
EFS Enclosed food service (wide)			347	GEB10IS T8 electronic ballast, ≤10% THD, instant start
EFSC Enclosed food service (narrow)			MVOLT*	GEB10PS T5 electronic ballast, ≤10% THD, program start
			* 120-277V. Must specify GEB10IS or GEB10PS.	GEB10RS T8 electronic ballast, ≤10% THD, rapid start
				CW20 T12 cold-weather ballast, -20°F starting
				ACNS90 T5HO program start series with a 90°C case temperature ⁴
				ELDW Emergency lighting wet location (nominal 300 lumens) ⁵
				EL5DW Emergency lighting wet location (nominal 500 lumens) ⁵
				EL6DW Emergency lighting wet location (nominal 600 lumens) ⁵
				EL14DW Emergency lighting wet location (nominal 1400 lumens) ⁵
				GLR Internal fast-blow fusing
				GMF Internal slow-blow fusing
				RIF1 Radio interference filter, one per fixture ⁶
				STSW Stainless steel housing, white
				STS Stainless steel housing, natural
				NSCR Non-stick Chemlon® finish ⁷

- NOTES:
- Reference availability chart below.
 - Must be specified with ACNS90 ballast.
 - Not available with EFS or EFSC.
 - Available with T5HO only.
 - Luminaires ordered with **DW** option; (Example: **EL5DW**), will bear the UL Emergency Lighting Equipment label for damp or wet locations. Available only with T12 and T8 lamp types.
 - For one filter per ballast, specify RIF2.
 - Not available with EIS or EISC.

Accessories (Order separately)

WLF Wet location fittings (1 pair, not installed)



Availability and Dimensions

Series	Lamps per Fixture	Lamp Type	Width	Depth	Length
EIS	3	28T5, 32, 40, 48HO	9¾	6	4
EIS	2	54T5HO	9¾	6	4
EFS	3	28T5, 32, 40, 48HO	9¾	6	4
EFS	2	54T5HO	9¾	6	4
EISC	1	28T5, 32, 40, 54T5HO	5⅞	6¾	4
EFSC	1	28T5, 32, 40, 54T5HO	5⅞	6¾	4

EFT

Tough Task™

Intended Use

For low to medium mounting heights in demanding applications including hosedown and food processing areas requiring ease of cleanability, compliance to FDA/USDA requirements and NSF splash-zone certification. Applications include meat/poultry/beverage processing, cosmetics and pharmaceuticals.

Features

Totally enclosed fixture with tubular acrylic, high-impact lens surrounding an aluminum channel. Channel is finished with a high-gloss, baked white polymeric powder.

Stainless steel end caps with silicone o-ring closed cell gaskets close off fixture ends.

High-impact, clear DR acrylic lens; .125" nominal thickness.

Two 7" stainless steel aircraft cables and s-hooks included.

Fixture supplied with 5' power cord.

4' and 8' lengths available.

Listings – 120V, 277V and MVOLT are UL Listed and CUL Listed for wet locations, maximum 40°C ambient temperature (standard). 347V is CUL listed to Canadian safety standards (see Options). IP65 rated for protection against ingress of water and contaminants. NSF International certified splash-zone and meets FDA/USDA guidelines (standard).



Ordering Information

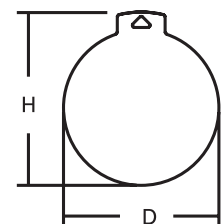
Example: **EFT 2 32 120 GEB**

Series	Number of lamps	Wattage	Voltage	Options
EFT	2 Not included.	32 32W T8 (48") 40 40W T12 (48") 48HO 60W 800mA (48") 48T8HO 44W T8 (48") 96HO 110W 800mA (96") 96T8HO 86W T8 380mA (96")	120, 277, 347, MVOLT* <small>* 120-277V. Must specify GEB10IS.</small>	Shipped installed in fixture CW20 Cold weather ballast -20°F ¹ GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant-start GEB10RS T8 electronic ballast, ≤10% THD, rapid-start ELDW Emergency lighting wet location, 300 lumens EL5DW Emergency lighting wet location, 500 lumens EL6DW Emergency lighting wet location, 600 lumens EL14DW Emergency lighting wet location, 1400 lumens GLR Internal fast-blow fusing CS88 Brad Harrison 16/3 Cord & Plug Set 5' CSA Listed and labeled to comply with Canadian Standards (347 only)

NOTES:
1 T12HO only.

Availability and Dimensions

Series	Number of lamps	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
EFT	2	32, 40, 48HO 48T8HO	6½ (16.5)	7¼ (18.4)	50 (127.0)
EFT	2	96HO, 96T8HO	6½ (16.5)	7¼ (18.4)	98 (248.9)



WRT

NEW



Wet Location Troffers

Intended Use

General illumination for indoor and outdoor, covered-ceiling locations. Ideal for showers locker rooms, recreational facilities, kitchens and other applications calling for a wet location listing.

Features

Code gauge steel housing. All metal parts are finished with electrostatically deposited, thermally set polyester powder paint after fabrication.

Available for grid or flange ceiling types.

Closed-cell neoprene gasketing between the lens, door frame, housing and mounting surface.

Extruded aluminum door frame features mitered corners.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options). UL listed for wet locations.

Ordering Information

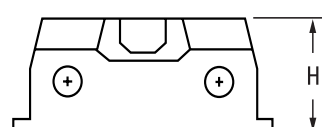
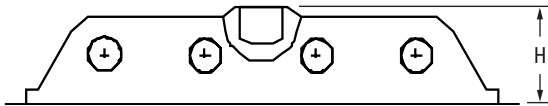
Example: **2WRT G 2 32 A12125 MVOLT GEB10IS**

Series	Lamps	Lamp type	Door frame	Voltage	Options
2WRT 2' wide WRT 1' wide	1, 2, 3, 4, 6 Not included.	17 17W T8 (24") 20 20W TS T12 (24") U31 31W T8 U-lamp (24") U316 31W T8 U-lamp (24", 6" leg spacing) 32 32W T8 (48") 40 40W T12 (48") U40 40W T12 U-lamp (24") CF40 40W CF lamp (35")	(blank) Flush aluminum, white FN Flush aluminum, natural FM Flush aluminum, black	120 277 347 MVOLT* <small>* 120-277V. Must specify GEB10IS.</small>	1/3 One 3-lamp ballast 1/4 One 4-lamp ballast CW Cold weather ballast 0°F ² ES Energy-saving ballast, (40W only) GEB Electronic ballast, ≤20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start, GEB10RS T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified NOM NOM Certified
Trim type			Diffuser type ¹		
G Lay-in grid trim F Overlapping flange trim			A12125 #12 pattern acrylic, .125" thick A15 #15 pattern acrylic, .2" thick A19 #19 pattern acrylic, .156" thick		

NOTES:
1 Add suffix V for internal prisms. Example: A12125V
2 Not recommended for use in ambient temperatures exceeding 40°F.

Availability and Dimensions

Nominal size	Series	Number of lamps	Lamp type	Height in. (cm)
1x4	WRT	1, 2, 3	32, 40	4 ⁷ / ₈ (12.4)
		2	17, 20, U31	
2x2	2WRT	2	U316, U40, CF40	4 ⁵ / ₁₆ (11.0)
		3	17, 20, U31, CF40	
		4	17, 20, CF40	
2x4	2WRT	2, 3, 4, 6	32, 40	4 ¹ / ₂ (11.4)



SRT

IntegraSeal®

Intended Use

Suitable for use in contamination-controlled environments ISO7 (Class 10,000) and ISO8 (Class 100,000) applications.

Features

Code-gauge steel housing is completely sealed with silicone caulk. Aluminum mitered-corner door frame features sealed cam latches and neoprene gasketing between door and housing.

Metal parts are finished after fabrication with electrostatically deposited, thermally set polyester paint.

Meets requirements for hosedowns up to 100 psi (see Options).

Suitable for use in 1", 1-1/2" and 2" wide T-bars, or with overlapping flange and swing-out hangers for use in dry or plaster ceilings.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options). UL listed for wet locations and covered-ceiling installations.



Ordering Information

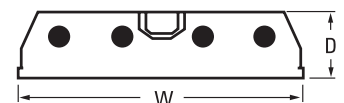
Example: 2SRT G 4 32 FW A12125V 120 GEB

Series	Lamp type	Frame type	Diffuser type ⁴	Options/Accessories
SRT 1' wide	CF40 40W TT5 (24")	FW Aluminum inset, white	A12125V #12 pattern acrylic, .125" thick, inverted	1/3 One 3-lamp ballast
2SRT 2' wide	CF50 50W TT5 (24")	FN Aluminum inset, natural	PCL12125V #12 pattern polycarbonate, .125" thick, inverted	1/4 One 4-lamp ballast
For CF lamps in tandem, add prefix T. Example: T2SRT	CF55 55W TT5 (24")			GEB Electronic ballast, ≤20% THD
	17 17W T8 (24")		K12UVAV KSH12 UVA lite, ultraviolet filtering lens, inverted	GEB10IS T8 electronic ballast, ≤10% THD, instant start
	20 20W T12 (24")		SYA PSI symmetric/asymmetric acrylic	GEB10RS T8 electronic ballast, ≤10% THD, rapid start
	U31 31W T8-U (24", 15/8" leg spacing)			ABC Triple neoprene gasketing (frame, lens and housing).
	U316 31W T8-U (24", 6" leg spacing)		SYAR PSI symmetric/asymmetric acrylic with radio filter grid ⁵	FPA Suitable for food processing areas; meets USDA and FDA requirements. ^{6,7}
	U40 40W T12-U (6" leg spacing)			LG Additional lens gasketing, neoprene.
	U403 40W T12-U (35/8" leg spacing) ²		Voltage	LPD Suitable for low-pressure hosedown, up to 100 psi. ⁷
	32 32W T8 (48")			120
	40 40W T12 (48")		277	CSA CSA Certified
	48HO 60W 800mA (48") ³		347	NOM NOM Certified
			MVOLT*	See page 91 for others.
			Others available.	
			* 120-277V. Must specify GEB10S.	

Availability and Dimensions (SRT, SRH, SSH)

Nominal size	Series	Number of lamps	Lamp type	SRT depth ⁹ in. (cm)	SRH depth ⁹ in. (cm)	SSH depth ⁹ in. (cm)
1x2	SRT, SRH, SSH	1, 2, 3	17, 20	4 7/8 (12.38) ⁹	4 5/8 (11.75) ¹⁰	4 1/2 (11.4)
		1, 2	U31, CF40, CF50, CF55, U316, U40			
1x4	SRT, SRH, SSH	1, 2, 3	32, 40	4 7/8 (12.38) ⁹	4 5/8 (11.75) ¹⁰	4 1/2 (11.4)
2x2	2SRT, 2SRH, 2SSH	1, 2, 3, 4	17, 20	4 7/8 (12.38) ⁹	4 5/8 (11.75) ¹⁰	4 1/2 (11.4)
		1, 2, 3	U403 ² , U31, CF40, CF50, CF55			
2x4	2SRT, 2SRH, 2SSH	2	48HO	4 7/8 (12.38) ⁹	4 5/8 (11.75) ¹⁰	4 1/2 (11.4)
		2, 3, 4, 6	32, 40			
2x4	T2SRT, T2SRH, T2SSH	2, 3	CF40, CF50, CF55	4 7/8 (12.38) ⁹	4 5/8 (11.75) ¹⁰	4 1/2 (11.4)

Drawings for dimensional detail only. May not represent actual mechanical configuration. Dimensions are shown in inches (centimeters).



SRH

IntegraSeal®



Troffers

Intended Use

Suitable for use in contamination-controlled environments ISO5 (Class 100) and ISO6 (Class 1,000) applications, such as electronic assembly, pharmaceutical processing, semiconductor manufacturing, chemical labs, food processing areas and the medical industry.

Features

Completely sealed, one-piece housing is fabricated from 20-gauge cold-rolled steel. Seams sealed with silicone caulk.

Full door frame is one-piece, 18-gauge CRS featuring triple closed-cell, cross-linked neoprene gasketing between the door, lens and housing. Optional four-piece inset door also available for grid mounted fixtures.

Full 2'x4' door frame secured to housing by 10 stainless steel captive screws, while inset door features four screws.

Optional stainless steel and aluminum housings and door frames available.

Metal parts finished with electrostatically deposited, thermally set polyester powder paint after fabrication.

Meets requirements for hosedowns up to 200 psi (see Options).

Suitable for use in 1", 1-1/2" and 2" wide T-grids, or with overlapping flange and swing-out hangers for use in dry or plaster ceilings.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options). UL listed for wet locations and covered-ceiling installations.

Ordering Information

Example: **2SRH G 4 32 FSF A12156V MVOLT GEB10IS**

Series	Number of lamps	Lamp type	Frame type	Diffuser type ⁵	Options/Accessories
SRH 1' wide	1, 2, 3, 4, 6 Not included.	CF40 40W TT5 (24")	FSF Steel full, white	A12125V #12 pattern acrylic, .125" thick, inverted	1/3 One 3-lamp ballast
2SRH 2' wide		CF50 50W TT5 (24")	FSSF Stainless full, natural	A12156V #12 pattern acrylic, .156" thick, inverted	1/4 One 4-lamp ballast
For CF lamps in tandem, add prefix T. Example T2SRH					
Trim type					
G Grid, 1" to 1½" wide tees		CF55 55W TT5 (24")	FSSFW Stainless full, white	PCL12125V #12 pattern polycarbonate, .125" thick, inverted	GEB Electronic ballast, ≤20% THD
F Overlapping flanged		17 17W T8 (24")	FWF Aluminum full, white	K12UVAV KSH12 UVA lite, ultraviolet filtering lens, inverted	GEB10IS T8 electronic ballast, ≤10% THD, instant start
G20 Grid, 2" wide tee ¹		20 20W T12 (24")	FW Aluminum inset, white ⁴	SYA PSI symmetric/asymmetric acrylic	GEB10RS T8 electronic ballast, ≤10% THD, rapid start
		U31 31W T8-U (24", 1½" leg spacing)	FN Aluminum inset, natural ⁴	SYAR PSI symmetric/asymmetric acrylic with radio filter grid	AL Painted aluminum housing, white
		U316 31W T8-U (24", 6" leg spacing)	FSS Stainless inset, natural ⁴		FPA Suitable for food processing areas; meets USDA, FDA requirements ^{6,7}
		U40 40W T12-U (6" leg spacing)	FSSW Stainless inset, white ⁴		HPD Suitable for high pressure hose-down up to 200 psi ⁷
		U403 40W T12-U (3½" leg spacing) ²			STSW Stainless steel housing, white
		32 32W T8 (48")			TPS Tamper-resistant door, Torx TX20 with center pin screws
		40 40W T12 (48")			CSA CSA Certified
		48HO 60W 800mA (48") ³			NOM NOM Certified
				Voltage	
				120	
				277	
				344	
				MVOLT*	
				Others available.	
				* 120-277V. Must specify GEB10IS.	

NOTES:

- 1 Not available for 1x2 and 1x4.
- 2 3-5/8" spacing (**U403**) on 3-lamp fixtures.
- 3 Maximum 2-lamp availability.
- 4 For use with grid mounted fixtures only.
- 5 Only pattern #12 shielding will ship inverted standard and is indicated by a V. Example: **A12125V**.
- 6 Must specify **HPD**.
- 7 Must specify lens thickness of at least .156".

For availability and dimensions, see chart on page 85.

See page 91 for others.

SSH

IntegraSeal®

Intended Use

Suitable for use in contamination-controlled environments ISO5 (Class 100) and ISO6 (Class 1,000) applications, such as electronic assembly, pharmaceutical processing, semiconductor manufacturing, chemical labs, food processing areas and the medical industry.

Features

Surface models feature seam-welded housing. Completely-sealed, one-piece housing is fabricated from 20-gauge cold-rolled steel.

Full door frame is one-piece, 18-gauge CRS featuring triple closed-cell, cross-linked neoprene gasketing between the door, lens and housing. Optional four-piece inset door also available.

Full 2'x4' door frame secured to housing by 10 stainless steel captive screws, while inset door features four screws.

Optional stainless steel and aluminum housings and door frames available.

Metal parts finished with electrostatically deposited, thermally set polyester powder paint after fabrication.

Meets requirements for hosedowns up to 200 psi (see Options).

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options). UL listed for wet locations and covered-ceiling installations.



Ordering Information

Example: **2SSH 6 32 FW A12125V 120 GEB**

Series	Number of lamps	Lamp type	Diffuser type ²	Options/Accessories
SSH 1' wide	1, 2, 3, 4, 6 Not included.	CF40 40W TT5 (24")	A12125V #12 pattern acrylic, .125" thick, inverted	1/3 One 3-lamp ballast
2SSH 2' wide		CF50 50W TT5 (24")	A12156V #12 pattern acrylic, .156" thick, inverted	1/4 One 4-lamp ballast
For CF lamps in tandem, add prefix T. Example T2SSH		CF55 55W TT5 (24")	PCL12125V #12 pattern polycarbonate, .125" thick, inverted	GEB Electronic ballast, <20% THD
		17 17W T8 (24")	K12UVAV KSH12 UVALite, ultraviolet filtering lens, inverted	GEB10IS T8 electronic ballast, <10% THD, instant start
		20 20W T12 (24")	SYA PSI symmetric/asymmetric acrylic	GEB10RS T8 electronic ballast, <10% THD, rapid start
		U31 31W T8-U (24", 1 5/8" leg spacing)	SYAR PSI symmetric/asymmetric acrylic with radio filter grid	AL Painted aluminum housing, white
		U316 31W T8-U (24", 6" leg spacing)		FPA Suitable for food processing areas. Meets USDA, FDA requirements ^{3,4}
		U40 40W T12-U (6" leg spacing)		HPD Suitable for high pressure hose-down up to 200 psi ⁴
		U403 40W T12-U (3 5/8" leg spacing ¹)		STS Stainless steel housing, natural.
		32 32W T8 (48")		STSW Stainless steel housing, white.
		40 40W T12 (48")		TPS Tamper-resistant door, Torx TX20 with center pin screws.
				CSA CSA Certified
				NOM NOM Certified
				See page 97 for others.
			Frame type	Voltage
			FSF Steel full, white	120
			FSSF Stainless full, natural	277
			FSSFW Stainless full, white	347
			FWF Aluminum full, white	MVOLT*
			FW Aluminum inset, white	Others available.
			FN Aluminum inset, natural	* 120-277V. Must specify GEB10IS.
			FSS Stainless inset, natural	
			FSSW Stainless inset, white	

NOTES:
 1 3-5/8" spacing (U403) on 3-lamp fixtures.
 2 Only pattern #12 shielding will ship inverted standard and is indicated by a V. Example: A12125V.
 3 Must specify HPD.
 4 Must specify lens thickness of at least .156".

SRF

IntegraSeal®

NEW



Gasket-Sealed Flow-Thru Troffer

Intended Use

Suitable for use in ISO4 (Class 10) and ISO5 (Class 100) cleanroom applications.

Features

Die-formed 20-gauge cold rolled steel housing.

Fixture ends are spot welded to ensure structural integrity.

Available with 2-, 3- or 4-lamp configuration.

Extruded white aluminum door frame assembly.

Acrylic 1/2" x 1/2" x 1/2" louver standard, others available.

Listings – UL Listed to US and Canadian safety standards (see Options). Tested in compliance with the International Organization for Standardization (ISO) World-wide Contamination Classification.

Ordering Information

Example: **2SRF G 4 32 PLA 120 1/4 GEB**

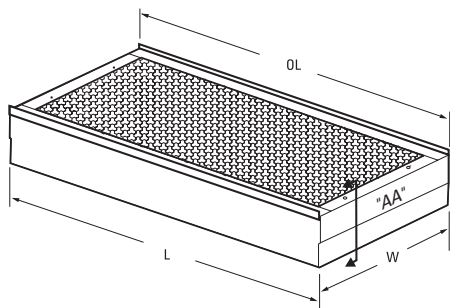
Series	Trim type	Lamps	Wattage	Louver type ¹	Voltage	Options
2SRF Cleanroom flow-through troffer, 2' wide	G Grid - 2" wide tee	2, 3, 4 <small>Not included.</small>	32 32W T8 (48") 40 40W T12 (48")	PLA Acrylic louver, white ALE Aluminum louver, white ALN Aluminum louver, natural	120 277 347 MVOLT*	1/4 One 4-lamp ballast (T8 only) 1/3 One 3-lamp ballast (T8 only) GEB Electronic ballast(s) for T8 < 20% THD GEB10IS T8 electronic ballast, < 10% THD, instant start GEB10RS T8 electronic ballast, < 10% THD, rapid start EL Emergency lighting GLR Internal fast-blow fusing GMF Internal slow-blow fusing RIF1 Radio interference filter (one per fixture) ² WLD Seam-welded housing CSA CSA Certified (347V only)

* 120-277V. Must specify GEB10IS.

NOTES:
1 1/2" x 1/2" x 1/2" louver grids.
2 For one filter per ballast, specify RIF2.

Availability and Dimensions

Nominal size	Number of lamps	Lamp type	Width in. (cm)	Length in. (cm)	Overall length in. (cm)	Height in. (cm)
2x4	2, 3, 4	32, 40	23 3/4 (59.1)	47 3/16 (119.9)	47 15/16 (121.8)	7 (17.8)



STP/STPE

IntegraSeal®

Intended Use

Suitable for use in ISO4 (Class 10) and ISO5 (Class 100) cleanroom applications.

Features

Die formed 20-gauge cold rolled steel or extruded aluminum channel. Stainless steel or formed aluminum housings available. Finish (standard) STP – White polyester powder paint, STPE Anodized aluminum finish, other finishes available (see Options).

Diffuser is one piece, extruded, whiter acrylic with internal linear prisms for optimum light control. Smooth external surface for undisturbed airflow. Clear available.

For surface mounting to 2" T-bar. Suitable for individual or row mounting.

STP – End caps included.

STPE – End caps not included, order as an accessory.

Listings – 120V, 277V and MVOLT are UL Listed and CUL Listed (standard). 347V is CUL Listed to Canadian safety standards (see Options). Tested in compliance with the International Organization for Standardization (ISO) Worldwide Contamination Classification.



Ordering Information

Example: **STP 1 32 MVOLT GEB10IS**

Series	Number of lamps	Lamp type	Diffuser	Voltage	Options
STP STPE	1	32 32W T8 (48") 40 40W T12 (48")	(blank) White acrylic ACR Clear acrylic	120, 277, 347, MVOLT* * 120-277V. Must specify GEB10IS.	GEB Electronic ballast for T8 < 20% THD GEB10IS Electronic ballast for T8 < 10% THD, Instant start GEB10RS Electronic ballast for T8 < 10% THD, Rapid start GLR Internal fast-blow fusing GMF Internal slow-blow fusing RIF Radio interference filter (one per fixture) STSW Stainless steel housing, white ¹ AL Aluminum housing, white ¹ WH White painted housing and end caps ² CSA Listed and labeled to comply with Canadian standards (347V only)

For tandem double-length unit, add prefix **T**.
Example: **TSTP**

Not included.

NOTES:

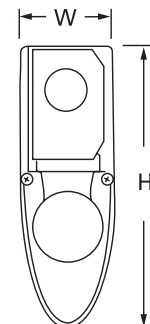
- 1 Available with STP only.
- 2 Available with STPE only.

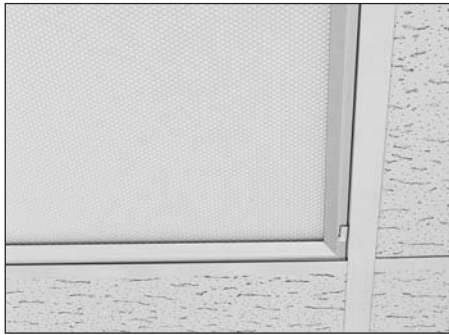
Availability and Dimensions

Series	Lamps per fixture	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
STP	1	32, 40	2 (5.1)	6 (15.2)	48 (121.9)
STPE	1	32, 40	2 (5.1)	6 (15.2)	48 (121.9)
TSTP	2	32, 40	2 (5.1)	6 (15.2)	96 (243.8)
TSTPE	2	32, 40	2 (5.1)	6 (15.2)	96 (243.8)

Accessories (Order separately)

- STPEP** Pair of cold rolled steel end caps, white²
- STPEP AL** Pair of aluminum end caps, white²
- STPEP STSW** Pair of stainless steel end caps, white²





Troffer Options

Listed below are the door frames and shielding media available for Lithonia static and air-handling troffers. The matrix shows the availability for each option within specific troffer families.

Other diffusers in addition to those listed below are available. Contact your Lithonia Lighting sales representative.

- Option available on **all models**.
- Option available on **most models**; consult factory for exceptions.

Availability Matrix

	See page	Option Designation	GT 2GT	GT8 SP8	SP VRT	SP AIR	PM2 PM4	PM0 PM3 HPM3	NAT CNAT
DOOR FRAMES Flush steel door standard unless otherwise noted. To order door frames below, add designation after lamps in catalog number.									
Regressed natural anodized aluminum	94	RN	■	■	■	■	□	□	□
Regressed aluminum, white finish	94	RW	■	■	■	■	□	□	□
Regressed aluminum, matte black finish	94	RM	■	■	■	■	□	□	□
Flush natural anodized aluminum	94	FN	■	■	■	■	□	□	□
Flush aluminum, white finish	94	FW	■	■	■	■	□	□	□
Flush aluminum, matte black finish	94	FM	■	■	■	■	□	□	
LENSES AND LOUVERS									
#12 pattern acrylic	92	A12	■	■	■	■	■	■	■
#12 pattern acrylic, .125" thick	92	A12125	■	■	■	■	■	■	■
#19 pattern acrylic, .156" thick	92	A19	■	■	■	■	■	■	■
Low-brightness acrylic school lens	92	ASL	■	■	■	■	■	■	■
Injection-molded acrylic, .140"-.150" thick	92	IM	■	■	■	□	□	□	■
Vandal-resistant acrylic lens, .375" thick	92	VL	■	■	■	□	□	□	
Radio frequency shielding (A12; others available)	92	ARF12	■	■	■	□	□	□	
Dropped dish, matte white acrylic	93	AC		■	■				
White aluminum eggcrate ½" x ½" x ½"	93	ALE	■	■	□	□			■
White plastic eggcrate, ½" x ½" x ½"	93	PL	■	■	■				■
Parabolic plastic-cube, ½" x ½" x ½" ¹	93	PC1	■	■	■	□	□	□	■
Parabolic plastic-cube, 1½" x 1½" x 1" ¹	93	PC2	■	□	■	□	□	□	■
Parabolic plastic-cube, ¾" x ¾" x ½" ¹	93	PC3	■	■	■	□			■
Parabolic plastic hex-cell, ½" deep ¹	93	PX	■	■	■				■
REFLECTIVE SURFACES									
95% reflective silver	93	SSR	■		■	■	■	■	■

NOTES:

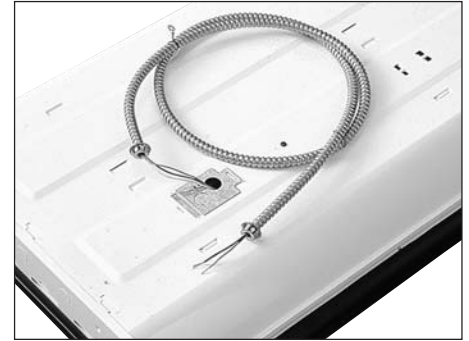
¹ Add suffix **S** for silver or **G** for gold. Example: **PC1G**. For acrylic, add **A**. Example: **PC1SA**.

Troffer Options

Listed below are the major electrical wiring and other options available for Lithonia Lighting static and air-handling troffers. The matrix shows the availability of each option within specific troffer families.

Certain combinations of options are incompatible in the same fixture. Consult factory for details.

- Option available on **all models**.
- Option available on **most models**; consult factory for exceptions.

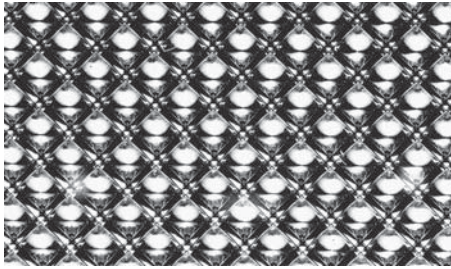


Availability Matrix

	See page	Option Designation	GT 2GT	GT8 SP8	SP VRT	SRT SRH	SP AIR	PM2 PM4	PMO PM3 HPM3	2PM3N	NAT CNAT	AV	WW
ELECTRICAL	To order, add designation as a suffix to fixture catalog number, unless otherwise noted.												
Ballast options	101	—	■	□	■	■	■	■	■	■	■	■	■
Dimming ballasts	—	—	□	□	□	□	□	□	□	□	□	□	□
Multi-volt ballasts (120-277V) ¹	—	MVOLT	□	□	□	□	□	■	□	■	□	□	□
Emergency lighting ²	102	EL/EL14	□	■	■	□	■	■	■	■	■	■	□
Fusing	101	GLR/GMF	■	■	■	■	■	■	■	■	■	■	■
Radio interference filter	102	RIF	■	■	■	■	■	■	■	■	■	■	■
Labeled for fire-rated ceiling	101	FR	■	■	■	■	■	■	■	■	■	■	■
WIRING	To order, add designation as a suffix to fixture catalog number, unless otherwise noted.												
Prewiring	101	PW_	■	■	■	■	■	■	■	■	■	■	■
Labor-saving tandem	95	LST	■	■	■	■	■	■	■	■	■	■	□
RELOC wiring systems	365	—	■	■	■	■	■	■	■	■	■	■	■
MISCELLANEOUS	To order, add designation as a suffix to fixture catalog number, unless otherwise noted.												
2 channel covers installed	—	2R	■	■	■	□	■	■	■	■	■	■	■
Tamper-resistant door ³	102	TPS/TP4	□	■	□	□	□	■	■	■	■	■	■
Additional lens gasketing	—	LG	■	■	■	□	■	■	■	■	■	■	■
T-bar safety clips (snap-on) ⁴	101	HTC	■	■	■	■	■	■	■	■	■	■	■
T-bar safety clips (screw-on) ⁴	101	LATC	■	■	■	□	■	■	■	■	■	■	■
Air-pattern control blades	96	APB	■	■	■	■	■	■	■	□	■	■	■
Heat-removal dampers	96	HRD	■	■	■	■	■	■	■	■	■	■	■
Lamps furnished and installed	102	—	■	■	■	■	■	■	■	■	■	■	■
Job pack ⁵	102	JP	■	■	■	■	■	■	■	■	■	■	□
Air closure strips	96	ACS	■	■	■	■	■	■	■	■	■	■	■

NOTES:

- 1 Consult factory for availability.
- 2 Addition of emergency battery pack options may increase overall fixture depth. Consult factory.
- 3 **TPS** = one tamperproof screw per latch, **TP4** = 4 tamperproof screws (2 on latch side, 2 on hinge side). Available on aluminum doors only for SP AIR.
- 4 Integral T-bar safety clips are standard for most models of GT8, GT, 2GT, SP8, SP, and 2PM3N fixture families. Also available on 1x4 PM3, PMO and HPM3 fixtures. Consult factory for specific exceptions.
- 5 Palletized and stretch-wrapped without individual cartons. Available for **G** (grid) and **MT** (modular) trims only.



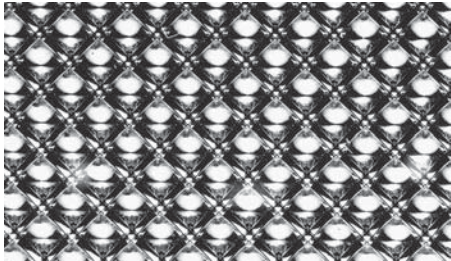
A12*

- Standard Lithonia shielding
- Extruded, clear 100% acrylic
- 3/16" female prisms
- Nominal .095" thick (.125", .156" and .187" optional)

EXAMPLE: 2GT8 4 32 A12 120 1/4 GEB

Add suffix **T** for tinted.

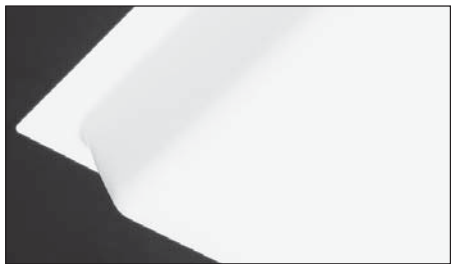
* Reverse apex prism design used on SP8 only. (for .125", specify RA125)



AR12

- High-impact-resistant shielding
- Extruded, clear 100% acrylic
- 3/16" female prisms
- Nominal .140" thick

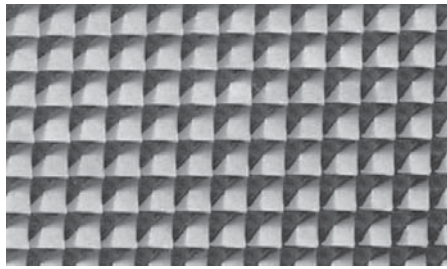
EXAMPLE: 2SP8 G 3 32 **AR12** 120 1/3 GEB



AC

- Lithonia standard formed, white acrylic, dropped-dish diffuser
- Nominal .054"/.060" thick (.125" optional)
- 1/8" drop
- Door/lens assembly packaged separately

EXAMPLE: 2SP G 4 32 **AC** 120 GEB

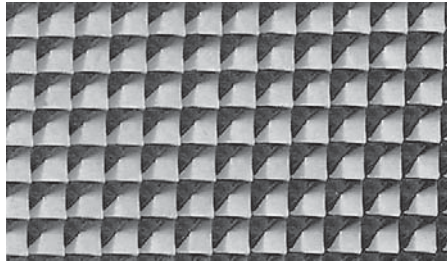


A19

- High VCP — very low brightness in direct glare zone
- 3/16" square-base male conical prisms
- High efficiency
- Minimizes lamp image
- Nominal .156" thick (.187" optional)

EXAMPLE: 2SP8 G 3 32 **A19** 120 1/3 GEB

Add suffix **T** for tinted.

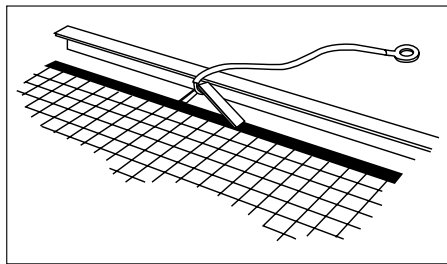


ASL

- Acrylic school lens, developed for lighting applications where brightness control is critical (schools, libraries, etc.)
- Extruded, clear 100% acrylic
- Nominal .156" thick (.187" optional)

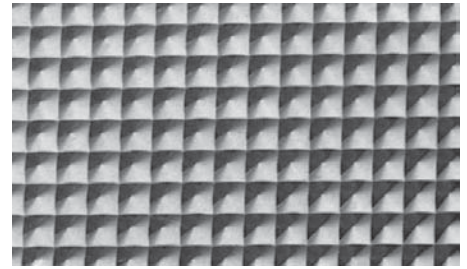
EXAMPLE: 2SP8 G 3 32 **ASL** 120 1/3 GEB

Add suffix **T** for tinted.



Radio frequency shielding

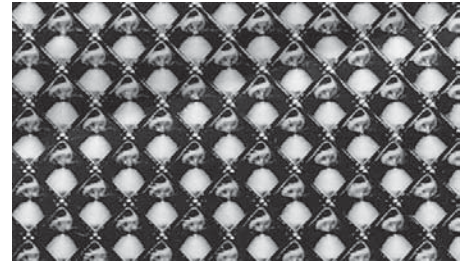
- For hospitals, TV stations or wherever sensitive electronic equipment is in use
- Choice of patterns and thicknesses
- Consult factory for application assistance



IM

- Injection-molded, light-stable 100% acrylic
- Accurate, uniform light control
- Minimizes lamp image
- Variety of lens thicknesses, choice of manufacturer available; consult factory

EXAMPLE: 2SP8 G 3 32 **IM** 120 1/3 GEB

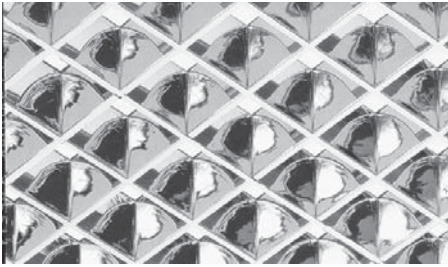


VL

- Vandal-resistant lens, for use where vandalism or accidental breakage may occur — schools, racquetball courts, institutions, etc.
- Nominal .250" thick polycarbonate with laminated .125" thick acrylic prismatic overlay
- 15 times stronger than acrylic, 30 times stronger than glass

To order any lens with optional thickness, add thickness to designation.

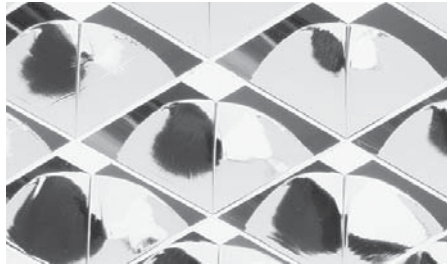
EXAMPLE: 2SP8 G 3 32 **A12125** 120 GEB



PC1

- Injection-molded parabolic polystyrene plastic louver
- 1/2" x 1/2" x 1/2" square cell, 45° shielding
- Specify choice of specular gold (G) or specular silver (S)

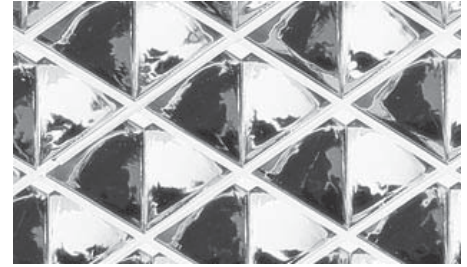
EXAMPLE: 2SP8 G 3 32 **PC1S** 120 1/3 GEB
Add suffix **A** for acrylic.



PC2

- Injection-molded parabolic polystyrene plastic louver
- 1 1/2" x 1 1/2" x 1" square cell, 35° shielding
- Specify choice of specular gold (G) or specular silver (S)

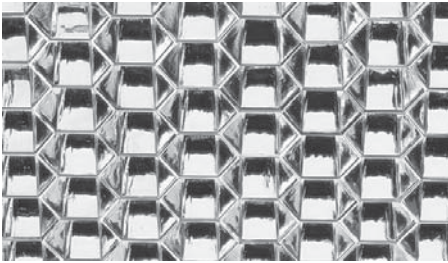
EXAMPLE: 2SP8 G 3 32 **PC2S** 120 1/3 GEB
Add suffix **A** for acrylic.



PC3

- Injection-molded parabolic polystyrene plastic louver
- 3/4" x 3/4" x 1/2" square cell
- Specify choice of specular gold (G) or specular silver (S)

EXAMPLE: 2SP8 G 3 32 **PC3S** 120 1/3 GEB
Add suffix **A** for acrylic.



PX

- Hexagonal polystyrene louver with parabolic cell surfaces
- 1/2" thick
- Specify choice of specular gold (G) or specular silver (S)

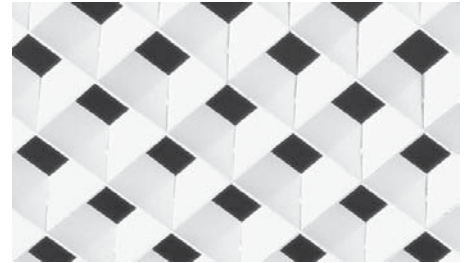
EXAMPLE: 2SP8 G 3 32 **PXS** 120 1/3 GEB



PL

- White polystyrene plastic cube louver
- 1/2" x 1/2" x 1/2", 45° shielding

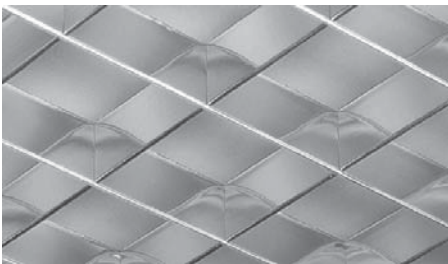
EXAMPLE: 2SP8 G 3 32 **PL** 120 1/3 GEB
Add suffix **A** for acrylic.



ALE

- Aluminum louver with baked white enamel finish
- 1/2" x 1/2" x 1/2" 45° shielding

EXAMPLE: 2SP8 G 3 32 **ALE** 120 1/3 GEB
Specify **ALN** for natural aluminum finish.
Add suffix **44** for use with 4x4 fixtures.



Small-Cell

- Small-cell aluminum parabolic louvers for SP AIR and PM family fixtures
- Choice of cell size and 1/2" or 3/4" depth
- Specify number of cells, plus louver depth (15 for 1.5" and 75 for .75") and finish. For 78 cells, 1.5" deep, specular finish:
2SP G B 3 32 **7815LS** 120 1/3 GEB.

Reflective Surface

SSR

95% minimum-reflectance silver. At Lithonia's discretion, housings and channel covers may be manufactured from code-gauge steel reflective material, or may have reflective inserts. 10-year warranty by material manufacturer. See pages 97-99 for availability.

For additional lenses and louvers, consult factory or Lithonia Lighting sales representative.

Door Frames

Regressed Aluminum

- **RN** – Natural anodized
- **RM** – Matte black
- **RW** – White



Regressed aluminum, white finish

Flush Aluminum

- **FN** – Natural anodized
- **FM** – Matte black
- **FW** – White



Flush aluminum, white finish

Flush Steel

- Matte black (optional on some models)
- White (standard)

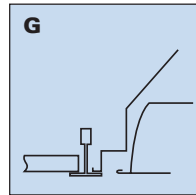


Flush steel, white finish

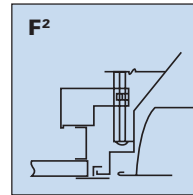
Ceiling Compatibility

Paramax® and Optimax®

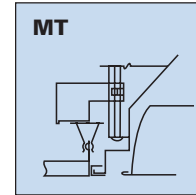
Type of Ceiling	Appropriate Trim Type			
	G	F	MT	ST
Exposed grid tee	■			
Concealed grid tee	■			■
Concealed Z spline		■	■	
Metal pan ¹			■	
Screw slot ¹				■
Plaster or plasterboard		■		



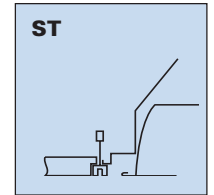
LAY-IN TRIM
Exposed grid tee



OVERLAPPING
FLANGED TRIM with
swing-gate hangers



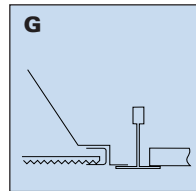
MODULAR FIT-IN
TRIM with swing-gate
hangers



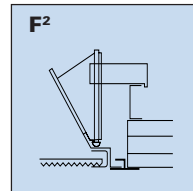
SCREW SLOT TRIM,
louver flush to ceiling

SP, SP8, GT8 and VRT

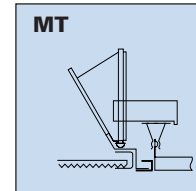
Type of Ceiling	Appropriate Trim Type		
	G	F	MT
Exposed grid tee	■		
Concealed grid tee	■		
Concealed Z spline		■	■
Metal pan ¹		■	■
Screw slot ¹	■		
Plaster or plasterboard		■	



LAY-IN TRIM
Exposed or
concealed grid tee



OVERLAPPING
FLANGED TRIM with
swing-gate hangers



MODULAR FIT-IN
TRIM with swing-gate
hangers

Plaster Frames

Plaster frames provide a clean, square edge for wet plaster ceiling openings. Order **F trim** factory installed on fixture, then order appropriate size plaster frame option for each fixture to be installed. (Not required for drywall ceilings.)

Cat. No.	(Order separately)
PF4	Pair of sides for 4' long
PF2	Pair of sides for 2' long
PFE	Pair of ends for 1'x4'
2PFE	Pair of ends for 2' wide
20PFE	Pair of ends for 20" wide

Filler Pans

Accessory filler pans to finish out ceiling grids. Side filler pans typically are used when 20"-wide fixtures are installed in 2'-wide grid systems. End filler pans are used to install 4' units into 5' grid systems.

Cat. No.	(Order separately)
2FP2	Side filler pans (pair), white, 2" wide, 2' long.
2FP6	End filler pans (pair), white, 6" wide, 2' long.
4FP2	Side filler pans (pair), white, 2" wide, 4' long.
20FP6	Side filler pans (pair), white, 6" wide, 20" long.

Drywall Grid Adapter

Drywall grid adapters (**DGA**) are used to install grid trimmed troffers in plasterboard or other hard ceilings. Order DGA accessories separately. Compatible with all lay-in troffers. Order using DGA plus nominal fixture size. Example: **DGA24**.

Metric Availability

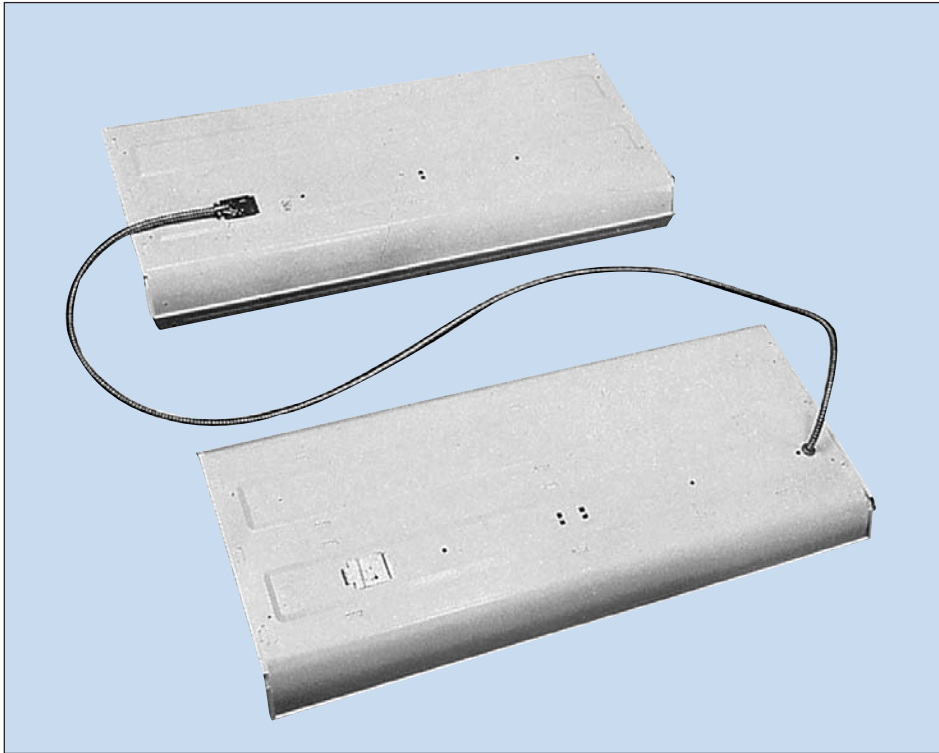
Metric versions of some recessed fluorescent fixtures are available. Consult your Lithonia Lighting sales representative.

NOTES:

- 1 Consult factory prior to order.
- 2 Requires CRE and CRM trim options for continuous row mounting.

REDUCES THE NUMBER OF BALLASTS REQUIRED FOR FLUORESCENT TROFFERS.

Simple, Snap-Together Design Uses *Half* the Connections, *Half* the Wiring and Components.



- Available on all sizes and types of Lithonia troffers with access plates.
- Wiring connections for both fixtures located at one access plate.
- Interconnection cable is fully prewired and pre-assembled.
- Polarized nylon plugs ensure positive connections, prevent miswiring.
- Identified ballast leads simplify multi-level switching.

Ordering Information

1. Select desired troffer model.
2. Add one of the following as a suffix to standard Lithonia Lighting catalog number:

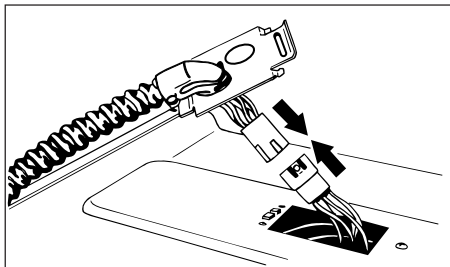
LST 9' cable (standard cable length)

LST7 7' cable

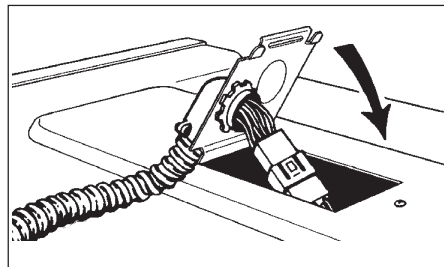
LST11 11' cable

(Consult factory for other lengths.)

Simply wire in the Master unit using hardwiring, prewiring or RELOC. Then snap-connect the Satellite unit to the Master unit. Installation is complete.



Join nylon connector

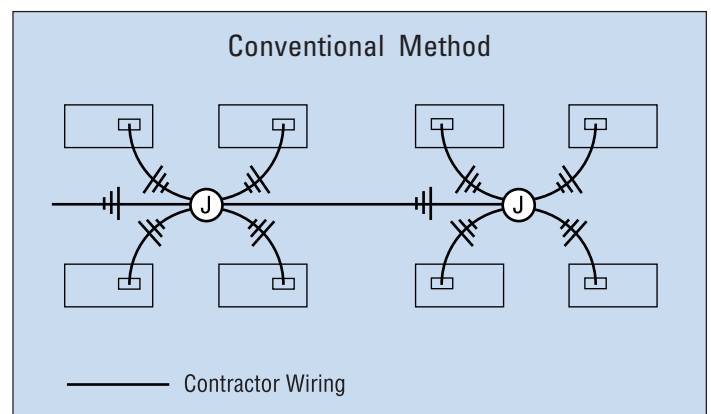
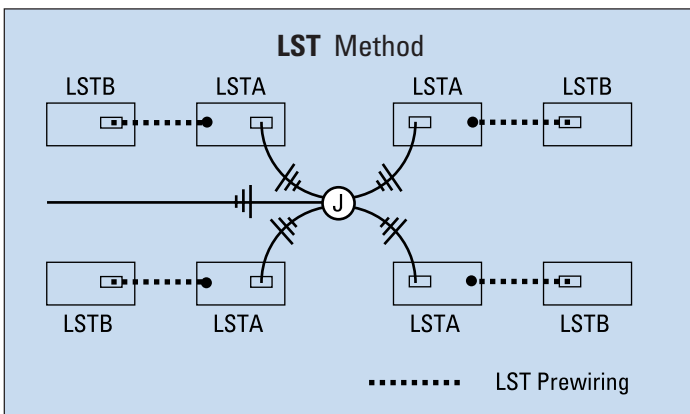


Close access plate

Example: 2SP8 G 3 32 A12 120 GEB **LST11**

NOTE: Order fixtures in pairs. Factory will supply correct number of Master and Satellite units.

LST Saves Up To 40% of Installation Labor and Wiring Costs... *HERE'S HOW.*

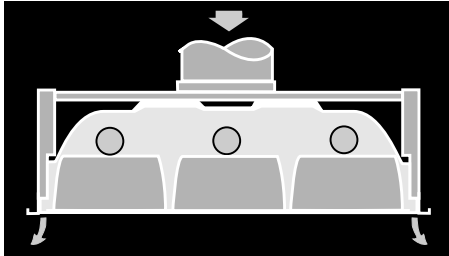


Lithonia Lighting manufactures a complete line of troffers designed to provide any level of air-handling capability, from simple heat removal to a combination of all air functions. Compatible with a full range of air equipment by major manufacturers, these fixtures comprise the most complete and comprehensive family of air-handling troffers available. Ductwork, including air boots, supplied by others.

Best choice for...

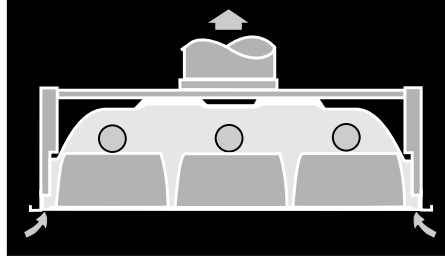
- Dependable Performance
- Application Flexibility
- Air-Equipment Compatibility

Complete Air-Handling Capability



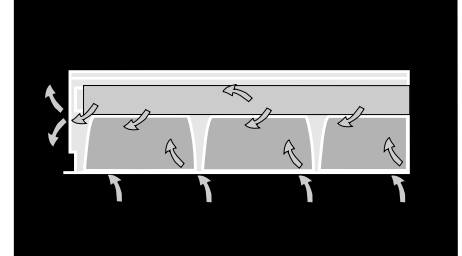
A – Air Supply

Air is supplied to occupied space through slots in side rails. Air diffusers connected to slots provide cooled or heated air to the space. Optional air-pattern control blades control airflow. Available on SP AIR, Paramax and Optimax.



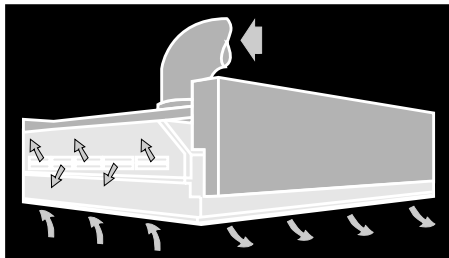
A – Air Return

Air is removed from occupied space through slots in side rails. Air is returned to plenum or to air diffusers connected to slots. Available on SP AIR, Paramax and Optimax.



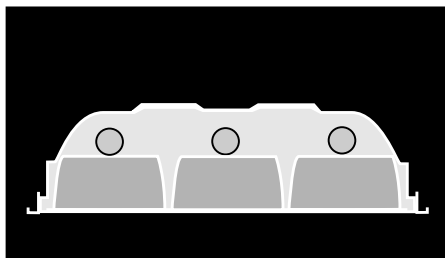
H – Heat Removal

Room air and fixture heat are removed through slots in the top or end of fixture housing. Slots in top are louvered to minimize entry of plenum contaminants into lamp cavity. Optional dampers available to control air flow. Available on SP AIR, Paramax and Optimax.



D – All Air Functions

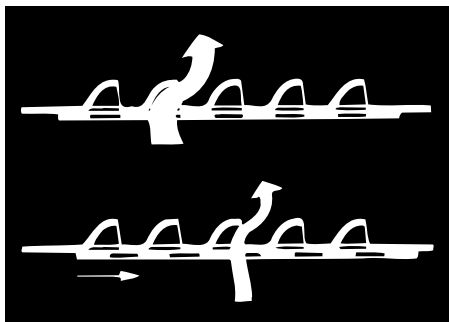
Full-function air-handling capability. Dual-function air supply and/or return through side rails and heat removal through lamp cavity. Available on SP AIR, Paramax and Optimax.



B – No Air Functions

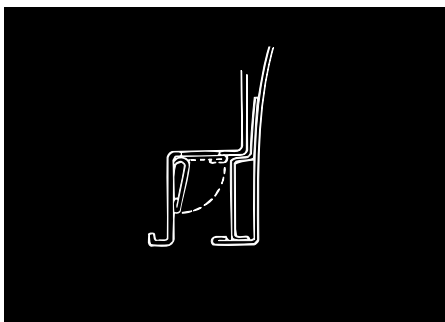
Static troffer that provides no air functions, but matches other models in appearance for continuity of design. Available on SP AIR, Paramax and Optimax.

Air Control Options



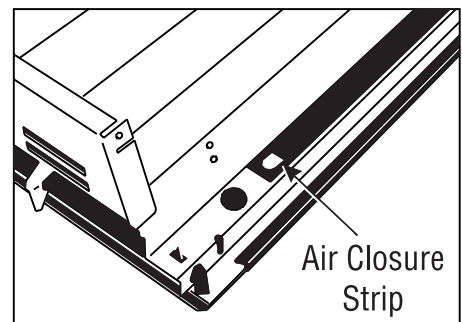
HRD – Heat-Removal Dampers

Designed to adjust or close off airflow through louvered slots on heat-removal models. Accessible from below. Design varies by fixture.



APB – Air-Pattern Control Blades

Designed to adjust or direct airflow on air supply/return models. Adjusts without tools from fully open to fully closed. Accessible from below.



ACS – Air Closure Strips

Designed to convert fixture from air-handling to static in the field (no tools required). Not accessible from below.

Availability

Listed below are the major electrical and other options available for Lithonia Lighting commercial fixtures. The matrix shows the availability of each option within specific fixture families.

Additional options and accessories are available. Contact your Lithonia Lighting sales representative for information.

- Option available on **all models**.
- Option available on **most models**; consult factory for exceptions.



Commercial Fixtures

	Option Designation	PMOX PM3X	M VRS	SSH	AW	CA	SB	LB CB	CS	CLM	VC	BWX	HL
ELECTRICAL		To order, add designation as a suffix to fixture catalog number, unless otherwise noted.											
Energy-saving systems	ES	■	□	□	■	□	□	■	■	■	■	□	■
Ballast options (page 101)	—	□	□	□	□	□	□	□	□	□	□	□	□
Dimming ballasts	—	□	□	□	□	□	□	■	■	□	□	□	□
Multivolt ballast (120-277V range) ¹	MVOLT	□	□	□	□	□	□	□	□	□	□	□	□
Emergency lighting (page 102) ²	EL, EL14	■	■	□	■	■	□	■	■	□	■	□	■
Fusing (page 101)	GLR/GMF	■	■	■	■	■	■	■	■	■	■	■	■
Radio interference filter (page 102)	RIF	■	■	□	■	□	■	■	■	□	■	■	■
HANGING DEVICES													
Swivel-stem hanger (page 104)	SQ_	□			□	■		■	■	■	■	■	■
Double-stem hanger (page 103)	DSH24				□	□		□	□		□		□
Ceiling spacer (page 103)	1B	□			□	■		■	■	■	■		■
Hooker [®] hanger (page 104)	HRC/HRC1								■				
Single stem rod	SQRH_											■	■
MISCELLANEOUS													
95% reflective silver (page 93)	SSR	□	□					□					
Tamper-resistant (page 102)	TPS		□	■									□
Spring-loaded latch (page 102)	SLL	□	□										

NOTES:

- 1 Consult factory for availability.
Order hanging devices as accessories, using separate catalog numbers. Order options by adding suffix to catalog number, unless otherwise noted.
- 2 For CSA emergency lighting, add prefix B50C. See page 102.

Metric Availability

Metric versions of some surface fluorescent fixtures are available. Consult your Lithonia Lighting sales representative.



Availability

Listed on these two pages are the major electrical and other options available for Lithonia Lighting strip and industrial fixtures. The matrix shows the availability of each option within specific fixture families.

- Option available on **all models**.
- Option available on **most models**; consult factory for exceptions.

Additional options and accessories are available. Contact your Lithonia Lighting sales representative for information.

Strips and Industrials

	Designation	RR CRR CRRS	EC	MS5 MS5SS	S	C	UN	SL
ELECTRICAL								
Plug-In (page 100)	PLF	■	■	□	■	■	■	■
Tandem quick-connect (page 100)	TWP	■	■		□	□	■	□
Emergency lighting (page 102) ¹	EL, EL14	■	■	□	□	■	■	■
Fusing (page 101)	GLR/GMF	■	■	■	■	■	■	■
Radio interference filter (page 102)	RIF	■	■		■	■	■	■
Cordset, 120V (U-ground plug) (page 102)	CS1				■	■	■	■
Cordset, 120V (Twist-lock grounded plug) (102)	CS3				■	■	■	■
Cordset, 277V (U-ground plug) (page 102)	CS7				■	■	■	■
Cordset, 277V (Twist-lock grounded plug) (102)	CS11				■	■	■	■
HANGING DEVICES								
Tong (slide clamp) hanger (page 108)	THUN						□	■
	TH2UN						□	
	THC					■		
Hooker® hanger (page 104)	HR_					□	□	
Swivel-stem hanger (page 104)	SQ_			■	■	■	■	■
Double-stem hanger (page 103) ²	DSH24				□	□	□	□
Ceiling spacer (page 103)	1B			■	■	■	■	■
Chain hanger (page 103)	HC36				■	■	□	■
MISCELLANEOUS								
95% reflective silver (page 93)	SSR	■				□		
Wireguards (page 103)	WG_				■	■	■	■
Aluminum housing	AL					■		

NOTES:
 1 For CSA emergency lighting, add prefix B50C. See page 106.
 2 Available on most 4' fixtures. Consult factory.

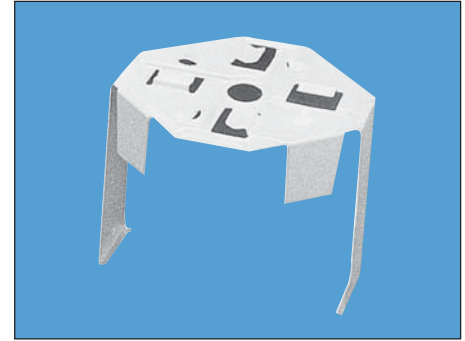
Order hanging devices and wireguard accessories as separate catalog numbers. Order options by adding suffix to catalog number, unless otherwise noted.

Availability

Listed on these two pages are the major electrical and other options available for Lithonia Lighting strip and industrial fixtures. The matrix shows the availability of each option within specific families.

Additional options and accessories are available. Contact your Lithonia Lighting sales representative for information.

- Option available on **all models**.
- Option available on **most models**; consult factory for exceptions.



Strips and Industrials

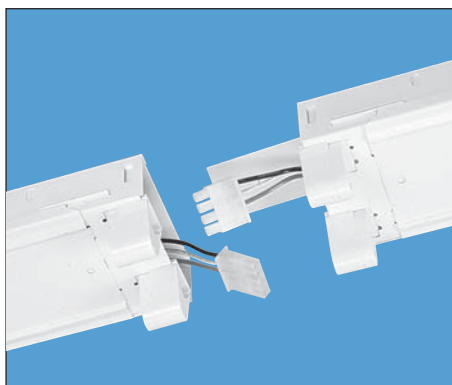
	Designation	SM	SS SST	AF AFP	PV	EJ EJA	L LA	RI RIU	DMW VRI	DMS DMSW	DM FCD
ELECTRICAL											
Plug-In (page 100)	PLF_G	■	■	■	■	■	■	■			
Tandem quick-connect (page 100)	TWP	□	□	■	□	□	□	□			
Emergency lighting (page 102) ¹	EL, EL14	□	□	■	■	■	■	□	■	■	■
Fusing (page 101)	GLR/GMF	■	■	■	■	■	■	■	■	■	■
Radio interference filter (page 102)	RIF	■	■	■	■	■	■		■	■	■
Cordset, 120V (U-ground plug) (page 102)	CS1	■	■	■	■	■	■	■			
Cordset, 120V (Twist-lock grounded plug) (102)	CS3	■	■	■	■	■	■	■			
Cordset, 277V (U-ground plug) (page 102)	CS7	■	■	■	■	■	■	■			
Cordset, 277V (Twist-lock grounded plug) (102)	CS11	■	■	■	■	■	■	■			
HANGING DEVICES											
Tong (slide clamp) hanger (page 104)	THUN			■	■	□					
	TH2UN					□					
	THC		□				■	■			
	THK										
Hooker® hanger (page 104)	HR_			■	■	□	□				
Swivel-stem hanger (page 104)	SO_	□	□	■	■	■	■	■	□	□	□
Double-stem hanger (page 103) ²	DSH24		□	□	□	□	□				
Ceiling spacer (page 103)	1B	□	□	■	■	□	□	■			
Chain hanger (page 103)	HC36		□	■	■	□	■	■	□	□	
MISCELLANEOUS											
95% reflective silver (page 93)	SSR			■		■					
Wireguards (page 103)	WG_		■	■	□	■	■	■			
Aluminum housing	AL		■							■	

NOTES:

- 1 For CSA emergency lighting, add prefix B50C. See page 102.
- 2 Available on most 4' fixtures. Consult factory.

Order hanging devices and wireguard accessories as separate catalog numbers. Order options by adding suffix to catalog number, unless otherwise noted.

PLF – Advanced 3-Circuit Plug-In



Advanced plug-in system with three-circuit capability. Available on industrial and strip products and a variety of architectural products mounted in continuous rows. 1, 2, 3 and 4-lamp fixtures. PLF22 (2-circuit) and PLF33 (3-circuit) crossover harness switches hot circuit serving next fixture in row. Reduces fixture types on job for alternating circuit applications (see example below.)

Easy one-step installation, saves up to 35% on labor costs. Expanded switching flexibility helps save energy. Rows can be 50% longer with two-circuit systems. Polarized, lock-together nylon connectors prevent miswiring in the field. #12 THHN conductor, rated 600V, 90°C. White neutral wire included. Grounding accomplished by fixture in-row connectors.

CSA Certified systems available with up to 2 circuits. **G** ground required.

Ordering Information

Example: UN 3 96 120 ES **PLF3C**

Series	Number of "hot" wires	Branch circuits	Ground
PLF	(blank) Not required for 22 or 33	(Circuits to which ballasts are connected)	(blank) No ground in PLF
PLF22	1 Black	(blank) Not required for 22 or 33	G Ground. Maximum 2 circuits.
PLF33*	2 Black and red	A Black wire	
	3 Black, red and blue ¹	B Red wire	
		C Blue wire ¹	
		AB Outboard lamps to black, inboard to red	
		AC Outboard lamps to black, inboard to blue ¹	

NOTES:

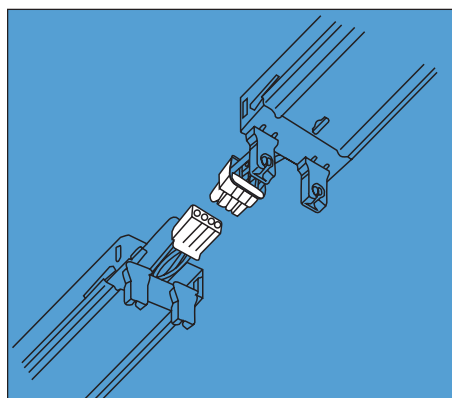
1 Ground not available.

Typical Applications

- Multiple circuit and single circuit for longer continuous rows
- Multiple circuit with alternating fixtures on separate circuits, 2-circuit (PLF 22) and 3-circuit (PLF 33)
- Multiple circuit with night lights located along row as desired

PLF 3 C	PLF 3 C	PLF 3 C	PLF 3 C	PLF 2 B	PLF 2 B	PLF 2 B	PLF 2 B	PLF 1	PLF 1	PLF 1
(All PLF 22)										
Circuit A	Circuit B	Circuit A	Circuit B	Circuit A	Circuit B	Circuit A	Circuit B	Circuit A	Circuit B	Circuit A
(All PLF 33)										
Circuit A	Circuit B	Circuit C	Circuit A	Circuit B	Circuit C	Circuit A	Circuit B	Circuit C	Circuit A	Circuit B
PLF 3 A	PLF 3 A	PLF 3 A	PLF 3 C	PLF 3 B	PLF 3 B	PLF 3 B	PLF 3 C	PLF 3 A	PLF 3 A	PLF 3 A

Tandem Quick-Connect Plug-In



Fully prewired secondary wiring for continuous row strip and industrial applications. Simply install two channel sections and connect plugs.

One worker can install – more efficient than a two-worker installation of one 16-foot length. Lock-together nylon plugs are polarized to prevent miswiring.

Available on all tandem-wired (T) strip, industrial fixtures and a variety of architectural row-mounted products.

TWP and **TILWP** available. Consult factory.

PW – Rewiring Option

(Troffers only)

Complete range of prewired whips for every installation requirement.

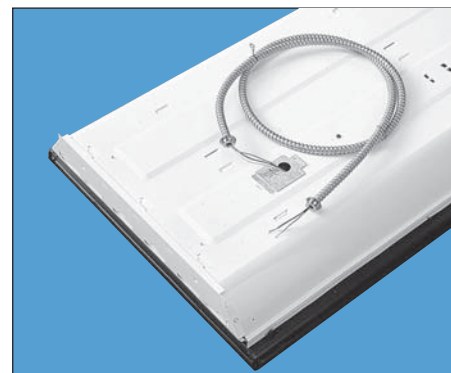
Ordering Information

Develop 6- or 7-digit suffix as explained below. Add suffix to fixture catalog number.

Example: 2GT8 3 32 A12 120 **PWS1836**

($\frac{3}{8}$ " flex cable with three No. 18 AWG leads B, W, GR, cable 6' long.)

- Factory-installed flexible cable, wired into fixture through access plate.
- $\frac{3}{8}$ " cable with snap-in connectors standard. $\frac{1}{2}$ " cable optional.
- Choice of wire gauge.
- Up to five wires, including one neutral (white) and one ground (green) – permits multi-level switching.
- Ready to connect to J-box.

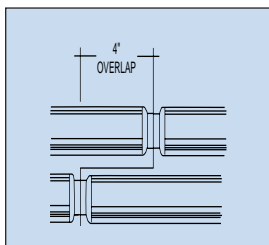


Family	Cable	Wire gauge	Number of wires	Cable length
PW Prewire	(blank) $\frac{1}{2}$ " dia. S $\frac{3}{8}$ " dia.	12, 14, 18	3 1 circuit 4 2 circuits 5 3 circuits	6 6 feet

T-Bar Safety Clips

Screw-on Clips (Troffers only)

LATC Hold-down clips to secure troffer to T-bar. Field installed. Attach by screwing to fixture end plates. Four furnished per fixture.

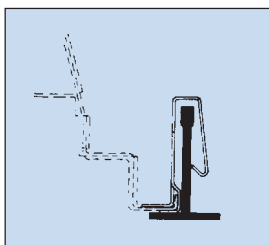


Example: 2PM4 G B 3 32 18LD 120 GEB **LATC**

NOTE: Safety clips may be used on fixtures with integral T-bar clips if additional means of attachment are required.

Snap-on Clips (Troffers, RR, CRR)

HTC Hold-down clips to secure troffer to T-bar. Four furnished per fixture.



Ballast Options

- CW** Cold-weather ballast; 0°F starting for RS slimline lamps and some T8 lamps.
- CW20** Cold-weather ballast; -20°F starting for HO and PG lamps.
- GEB** Electronic ballast, maximum 20% THD. Factory choice; see page 589 for specification and ordering information.
- GEB10IS** Electronic ballast, instant start maximum 10% THD. MVOLT standard. Factory choice; see page 589 for specification and ordering information.
- GEB10PS** Electronic ballast, program start, maximum 10% THD. Factory choice; see page 589 for specification and ordering information.
- GEB10RS** Electronic ballast, rapid start, maximum 10% THD. Factory choice; see page 589 for specification and ordering information.

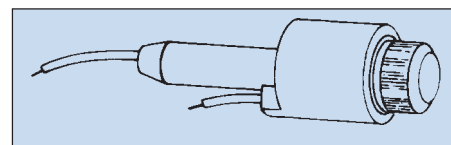
Example: C 2 96 120 **CW**

Fusing

One per ballast furnished. Fusing not recommended for use with 277V magnetic dimming ballasts.

Internal Fusing

- BKTK** Internal fast-blow fuse. For use in 347V fixtures.
- GLR** Internal fast-blow fuse.
- GMF** Internal slow-blow fuse.



External Fusing

(Strips and open industrials only)

- GLRX** External fast-blow fuse.
- GMFX** External slow-blow fuse.



Construction for Fire-Rated Ceilings

(Troffers only)

FR Lithonia fluorescent troffers are UL Listed and are compatible with UL Fire-Rated Ceiling assemblies. Upon request for the FR option, the FR label is applied to the back of the housing. Label states: *This troffer is specially designed to be installed in fire-rated or insulated ceilings.*

Example: 2GT8 4 32 A12 120 GEB **FR**

NOTE:
Not applicable for CSA or NOM listings. Some dimming and some compact lamp troffers may require electronic ballasts.

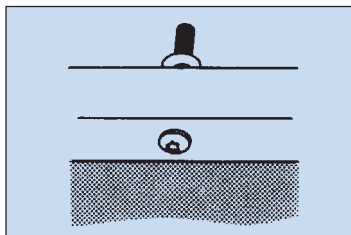
Tamper-Resistant Doors

Tamper-resistant Torx head T20H (with pin) screws to secure door to housing.

- TPS** Torx head T20H screws – 1 per latch
- TP4** Torx head T20H screws – 2 latch side/ 2 hinge side

Example: 2SP G 3 40 A12 120 ES **TPS**

Note: Four Torx head T20H screws are standard on VRS and VRT Series.



Spring Latches (Troffers and M Series only)

- SLL** Spring-loaded latch option
- SAL** Spring-action latch option for 2GT8 only.

Example: 2M 4 40 FW A12 120 ES **SLL**

Lamps Furnished and Installed (Troffers only)

- LPESCW** Energy-Saving Cool White
- LPESWW** Energy-Saving Warm White
- LP730** Min. 70 CRI & 3000K color temp.
- LP735** Min. 70 CRI & 3500K color temp.
- LP741** Min. 70 CRI & 4100K color temp.
- LP830** Min. 80 CRI & 3000K color temp.
- LP835** Min. 80 CRI & 3500K color temp.
- LP841** Min. 80 CRI & 4100K color temp.

Example: 2SP8 G 3 32 A12 120 GEB **LP735**

Radio Interference Filters

RIF Inductive capacitor circuit designed to minimize interference from feedback into line. 120V or 277V, 50Hz or 60Hz. Order either one per fixture (RIF1) or one per ballast (RIF2).

Example: 2SP8 G 3 32 A12 277 GEB **RIF1**

EIS Inductive capacitor circuit designed to minimize interference from feedback into line. Meets MIL-STD 461A/462/463. Order either one per fixture (EIS1) or one per ballast (EIS2).

Example: 2SP8 G 3 32 A12 120 GEB **EIS2**

Cordsets

Grounded, three-wire cordsets (black) are 6' long, 18-gauge, with SJT insulation. Prewired to fixture. Others available; consult sales representative.

- CS1** 120V, U-ground plug (NEMA 5-15P)
- CS3** 120V, twist-lock plug (NEMA L5-15P)
- CS7** 277V, U-ground plug (NEMA 7-15P)
- CS11** 277V, twist-lock plug (NEMA L7-15P)
- CS24** 347V, twist-lock plug (NEMA L24-20P)

Example: AF 2 96 277 **CS7**



Emergency Battery Packs

Factory-installed Lithonia Emergency Systems battery pack available for most fluorescent fixtures. See Emergency Systems section for lamp and ballast compatibility. Addition of an emergency option may increase fixture depth in some 2'x2' troffers. Consult factory.

*UL CSA
Listed Certified*

- EL B100C** Fixture equipped for one-lamp emergency operation of 4' lamps. (PS300 installed)
- EL5 B90C** Fixture equipped for one-lamp emergency operation of 4' lamps. (PS500 installed)
- EL6 B70C** Fixture equipped for one-lamp or two-lamp emergency operation of 4' lamps and one-lamp emergency operation of 8' lamps. (PS600 installed)
- EL14 B50C** Fixture equipped for one-lamp or two-lamp emergency operation of 4' lamps and one-lamp operation of 8' lamps. (PS1400 installed) (PS1100 installed for CSA)
- EM CEM** Inverter only option. Fixture labeled for emergency use, no integral ballast.

Add suffix **DW** to catalog number to specify damp/wet listing. UL Listed only. Example: **EL6DW**

Packaging

JP – Job Pack Consult factory for availability.

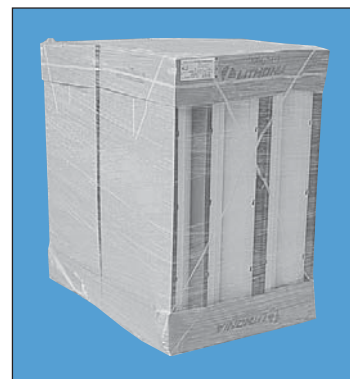
Job-site load of fixtures on pallets, wrapped with individual cartons. Secured to pallet.

- No carton disposal.
- Faster and easier to unload.
- Superior protection – reduces handling damage.
- Paramax® and other Lithonia troffers G grid and MT modular trim only, packed with end protectors, secured to pallet by heavy-duty plastic.
- Industrials and strips protected by heavy-duty corrugated sheet and secured to pallet. Reflectors packed separately.

Ordering Information

Add suffix JP to fixture catalog number. Factory will determine number of fixtures per pallet.

Example: 2GT8 4 32 A12 120 GEB **JP**



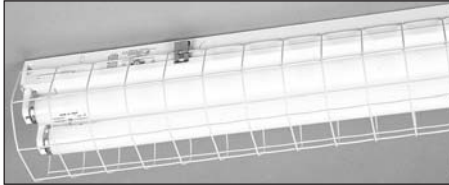
Wireguards (Order separately)

14-gauge baked white enamel, 4' long. Order two for 8' fixtures. (IT, R, RI wireguards are zinc plated.)

For use with:	Cat. No.
UN (with UNASR48 reflector)	WGUNASR
2UN (9" wide)	WG2UN
UN (5" wide) and C	WGCUN
C (with CASR48 reflector)	WGCASR
C (with CSMR48 reflector)	WGCSMR
S (with SASR48 reflector)	WGSASR
S (with SSMR48 reflector)	WGSSMR
S (without reflector)	WGS
AF, PV	WGAFPV
EJ (12" wide)	WGEJ
2EJ (16" wide)	WG2EJ
L	WGL
RI and RIU (zinc plated)	WGRIZ

For optional 11-gauge construction, add suffix 11 to catalog number. Example: **WGSASR11**

For optional zinc-plate finish, add suffix Z to catalog number. Example: **WGSZ11**



Ceiling Spacer (Order separately)

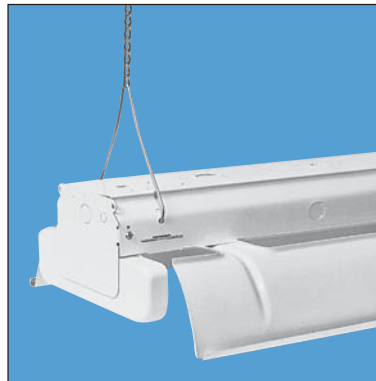
1B Hanger spaces fixtures 1½" to 2½" from ceiling. For unit mounting, order two per fixture; for row mounting, order one per fixture plus one per row. Standard pack: 2, 20, 100.



Chain Hangers (Order separately)

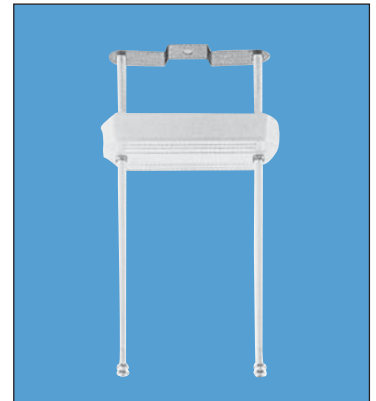
HC Wire hook and 36" chain set, option or accessory. One pair per fixture furnished. Not compatible with fixtures over 5" wide.

Example: **UN 2 32 120 HC**
or **HC36** (accessory)



Double-Stem Hangers (Order separately)

DSH24 Complete assembly with double canopy and two 24" stems on 10" centers. For most 4' fixtures. Other stem lengths available.



Hooker® Hangers (Order separately)

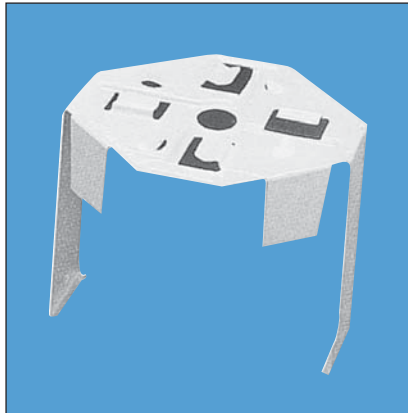
Patented, no-tools system for easy mounting to grid tee ceilings. For use with inverted tee exposed grid ceilings, nominal 1" wide.

- Hooks anywhere on grid – main tee, cross tee or intersection.
- Die-formed from heavy-gauge steel.
- Fixture can be mounted parallel or perpendicular to grid, flush to ceiling or 1/2" below tee.

Two required per fixture. Standard pack: 10, 48.

Number	Type of mounting	For use with
HRC	Flush to ceiling	CB, L, C, and ALC fixtures
HRC1	Spaced 1/2" from ceiling	with 4 ³ / ₁₆ " wide and 2 ¹ / ₁₆ " deep channels.
HRUN	Flush to ceiling	PV, AF, EJ, SL and UN
HRUN1	Spaced 1/2" from ceiling	fixtures with 5" channels

HOOKER® Hanger, Pat. No. 3,589,660



Tong Hangers (Order separately)

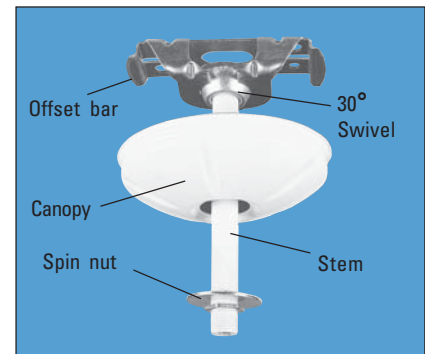
Order by channel width. For unit or row mounting, order two per fixture. All tong (slide clamp) hangers are suitable for use with 3/8" or smaller mounting rods. Rods smaller than 3/8" diameter require use of appropriate washers (supplied by others). Standard pack: 2, 100.

- THUN** Hanger for 5" channel
- TH2UN** Hanger for 9" channel
- THC** Hanger for 4³/₁₆" channel
- THK** Hanger for 4⁹/₁₆" channel
- THSR** Hanger for 5" channel (uses carriage bolt mounting rod)

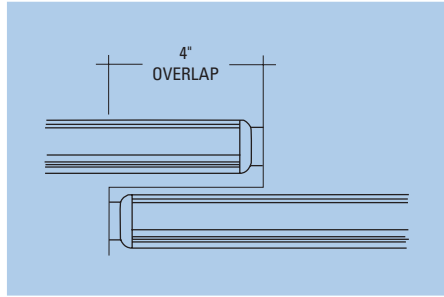
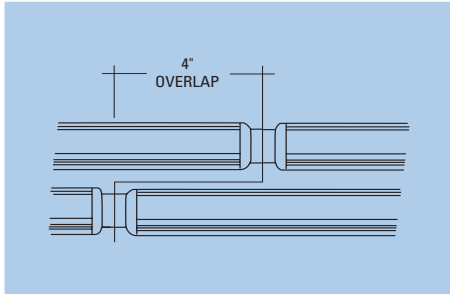


Swivel-Stem Hangers (Order separately)

- SQ_** Complete assembly with stem up to 48" (consult factory for longer lengths). Specify stem length in 2" increments and adjust as needed. 5/8" O.D. stem. Swivels 30° from vertical in any direction. Example: **SQ24**
- HDSQ_** Complete heavy-duty assembly. Specify length in 2" increments and adjust as needed, swivels 45° from vertical. Example: **HDSQ36**
- ST_** Pipe stem only. Specify length up to 60". Example: **ST18**
- Q** Canopy, offset bar and parts only.
- ST_TBE** Pipe stem only, threaded both ends. Coupler included. Specify length from 6" to 60". Example: **ST48TBE**.



Staggered Strips are offset at both ends of the channel to create a 4-inch overlap of the lamps in continuous-row mounting. Provides illumination without shadows throughout the length of the row.



Use the tables below to determine the number and type(s) of fixtures needed for your application. Consult factory for row lengths over 30' 4" and slimline applications.

Instructions:

1. Determine required row length.
2. Refer to maximum and minimum columns in either 1-lamp or 2-lamp matrix. Locate range that includes your row length.
3. Read down to find appropriate number and type(s) of fixtures needed.

NOTE: Fixtures are centered on row.

Example:

1. Row length is 18' 0".
2. In one-lamp T12 or T8 matrix, length is between 17' 8" and 18' 8".
3. Fixtures required: two TSS 1 32 or 40 and one SS 1 25 or 30.

One-Lamp T5

Minimum Row Length	3'5"	4'5"	5'5"	6'5"	7'5"	7'11"	8'11"	9'11"	10'11"	11'5"	12'5"	13'5"	14'5"	14'11"	15'11"	16'11"	17'11"	18'5"	19'5"	20'5"	21'5"	21'11"	22'11"	23'11"	24'11"	25'5"	26'5"	27'5"	28'5"	28'11"
Maximum Row Length	4'5"	5'5"	6'5"	7'5"	7'11"	8'11"	9'11"	10'11"	11'5"	12'5"	13'5"	14'5"	14'11"	15'11"	16'11"	17'11"	18'5"	19'5"	20'5"	21'5"	21'11"	22'11"	23'11"	24'11"	25'5"	26'5"	27'5"	28'5"	28'11"	29'11"
TMS5SS 154T5HO/128T5					1			1	1		1	1	2	1	1	2	2	1	2	2	3	2	2	3	3	2	3	3	4	3
MS5SS 154T5HO/128T5				1			1		1	1		1			1		1	1		1			1		1	1		1		
MS5SS 139T5HO/121T5		1	2	1		3	2	1		3	2	1		3	2	1		3	2	1		3	2	1		3	2	1		3
MS5SS 124T5HO/114T5	2	1																												

One-Lamp T12 or T8

Minimum Row Length	3'8"	4'8"	5'8"	6'8"	7'8"	8'4"	9'4"	10'4"	11'4"	12'0"	13'0"	14'0"	15'0"	15'8"	16'8"	17'8"	18'8"	19'4"	20'4"	21'4"	22'4"	23'0"	24'0"	25'0"	26'0"	26'8"	27'8"	28'8"	29'8"	30'4"
Maximum Row Length	4'8"	5'8"	6'8"	7'8"	8'8"	9'4"	10'4"	11'4"	12'4"	13'0"	14'0"	15'0"	16'0"	16'8"	17'8"	18'8"	19'8"	20'4"	21'4"	22'4"	23'4"	24'0"	25'0"	26'0"	27'0"	27'8"	28'8"	29'8"	30'8"	31'4"
TSS 140/132					1			1	1		1	1	2	1	1	2	2	1	2	2	3	2	2	3	3	2	3	3	4	3
TSS 130/125			1			1	1			1	1			1	1			1	1			1	1			1	1			1
SS 140/132				1			1		1	1		1			1		1	1		1			1		1	1		1		
SS 130/125		1		1		1		1		1		1		1		1		1		1		1		1		1	1		1	1
SS 120/117	2	1																												

Two-Lamp T12 or T8

Minimum Row Length	4'4"	5'4"	6'4"	7'4"	8'4"	9'4"	10'4"	11'4"	12'4"	13'4"	14'4"	15'4"	16'4"	17'4"	18'4"	19'4"	20'4"	21'4"	22'4"	23'4"	24'4"	25'4"	26'4"	27'4"	28'4"	29'4"	30'4"
Maximum Row Length	5'4"	6'4"	7'4"	8'4"	9'4"	10'4"	11'4"	12'4"	13'4"	14'4"	15'4"	16'4"	17'4"	18'4"	19'4"	20'4"	21'4"	22'4"	23'4"	24'4"	25'4"	26'4"	27'4"	28'4"	29'4"	30'4"	31'4"
TSS 240/232					1			1	1		1	1	2	1	1	2	2	1	2	2	3	2	2	3	3	2	3
TSS 230/225			1			1	1			1	1			1	1			1	1			1	1			1	1
SS 240/232				1			1		1	1		1			1	1		1		1			1		1	1	
SS 230/236		1		1		1		1		1		1		1		1		1		1		1		1		1	
SS 220/217	2	1																									



SPECIALTY FLUORESCENT

Specialty Fluorescent

Whether you are looking for standard fluorescent luminaires that incorporate the latest innovations in reflector, lamp and ballast technology or custom fluorescent lighting solutions, SpecLight is the answer. Flexible manufacturing systems support innovative design with the material and finish you desire. SpecLight is uniquely capable of delivering the optimal lighting solution for you.

Our state-of-the-art facility in Austin, Texas, features CNC turret punches, press brakes and laser cutting tools; progressive tooling; and a premium powder coat system. Choose one of our standard designs or tell us what you want; we are ready to develop a solution for you.



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FTS

Specular Reflector

NEW



Medium Unibody High Bay

Intended Use

Unibody industrial for demanding applications features one-piece housing with riveted end caps. Surface-mounted or suspended. Provides large-area lighting in a variety of photometric distributions for retail, warehouse, industrial, commercial and manufacturing areas.

Features

Channel, ends and socket brackets are 22-gauge cold-rolled steel, riveted and screwed. Tool-less ballast and wiring access.

Reflector is precision-formed, high-performance, 95% total reflectance, segmented optics utilizing Alanod Miro® 4 specular aluminum. Warranted for 25 years.

Finished in high-gloss baked white enamel, pretreated with a 5-stage iron phosphate system. Optional premium polyester powder coat is available. Galvanized steel finish also available.

Ballasts are electronic, energy-saving, thermally-protected, UL 935 listed, Class P, CSA certified where applicable, HPF, non-PCB, Sound Rating A. Ballasts comply with Federal Ballast Law (Public Law 100-357, 1988).

May be suspended by chain or cable or surface-mounted.

Lamps available in various CRI ratings, temperature colors and rated life. Secured with rotary locking lamp sockets to minimize disconnection from vibration or incidental contact.

UL listed wire, rated for required temperatures, used throughout. Listed and conforms to UL 1598. Suitable for damp locations.

Custom Solutions

May be modified to meet any custom application. Contact your SpecLight representative for assistance.

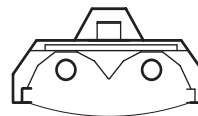
Ordering Information

Example: **FTS4 3 54T5HO T1X12U BAF75 MVOLT GEB10PS LP841**

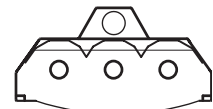
Series FTS4 7½"X4" FTS8 7½"X8"	Distribution F1 SC 0.4, focus beam T1 SC 1.1, task beam N1 SC 1.4, normal beam B1 SC 2.1, broad beam	Reflector X12 Miro® 4, .012" X20 Miro® 4, .020" D20 White powder coat, .020"	Voltage 120, 277, MVOLT, 347, HVOLT* Others available. * 347-480V, 60Hz.	Lamps (blank) No lamps LP841 85 CRI, 4100°K, standard life	Number of lamps 1, 2, 3	Uplight (blank) No uplight U Uplight	Ballast type GEB ≤20% THD GEB10PS ≤10% THD, program start	Lamp type 28T5 28W T5 (46") 32 32W T8 (48") 54T5HO 54W T5 HO (46")	Shielding (blank) No shielding BAF75 White baffle, .75" PCL062 Polycarbonate, .062" WGRL Flat wire grille	Ballast configuration (blank) All 2-lamp ballasts 1/4 One 4-lamp ballast 2/3 Two 3-lamp ballasts	Options AL Aluminum construction GALV Galvanized construction PAF Powder coat after fabrication PERF Perforated upper reflector WG Wireguard
---	---	---	---	--	--	--	--	---	---	--	---

Availability and Dimensions

Nominal size	Series	Number of lamps	Lamp type	Width	Height in. (cm)	Length
7½"x4"	FTS4	1, 2, 3	28T5, 32, 54T5HO	7½"	3½ (8.9)	48"
7½"x8"	FTS8					96"



2-lamp



3-lamp



Specular Reflector

Intended Use

Unibody industrial for demanding applications features one-piece housing with riveted end caps. Surface-mounted or suspended. Provides large-area lighting in a variety of photometric distributions for retail, warehouse, industrial, commercial and manufacturing areas.

Features

Channel, ends and socket brackets are 22-gauge cold-rolled steel, riveted and screwed. Tool-less ballast and wiring access.

Reflector is precision-formed, high-performance, 95% total reflectance, segmented optics utilizing Alanod Miro® 4 specular aluminum. Warranted for 25 years.

Finished in high-gloss baked white enamel, pretreated with a 5-stage iron phosphate system. Optional premium polyester powder coat is available. Galvanized steel finish also available.

Ballasts are electronic, energy-saving, thermally-protected, UL 935 listed, Class P, CSA certified where applicable, HPF, non-PCB, Sound Rating A. Ballasts comply with Federal Ballast Law (Public Law 100-357, 1988).

May be suspended by chain or cable or surface-mounted.

Lamps available in various CRI ratings, temperature colors and rated life. Secured with rotary locking lamp sockets to minimize disconnection from vibration or incidental contact.

UL listed wire, rated for required temperatures, used throughout. Listed and conforms to UL 1598. Suitable for damp locations.

Custom Solutions

May be modified to meet any custom application. Contact your SpecLight representative for assistance.



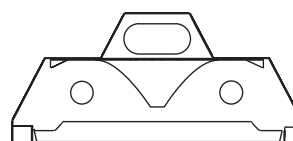
Ordering Information

Example: **FHI8 3 54T5HO T1X12U WGRL MVOLT GEB10PS LP841**

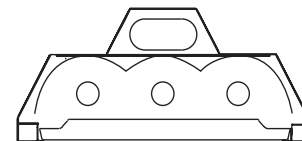
Series FHI4 1'X4' FHI8 1'X8'	Distribution T1 SC 1.0, task beam N1 SC 1.2, normal beam S1 SC 1.5, spread beam	Reflector X12 Miro® 4, .012" X20 Miro® 4, .020" X26 Miro® 4, .026" X32 Miro® 4, .032"	Voltage 120, 277, MVOLT, 347, HVOLT* <small>Others available. * 347-480V, 60Hz.</small>	Lamps (blank) No lamps LP841 85 CRI, 4100°K, standard life LPM841 85 CRI, 4100°K, standard life, low mercury LP841XS 85 CRI, 4100°K, extended life LPM841XS 85 CRI, 4100°K, extended life, low mercury
Number of lamps 2, 3		Uplight (blank) No uplight U Uplight	Ballast configuration (blank) Three 2-lamp ballasts 1/2 One 2-lamp ballast 1/4 One 4-lamp ballast 2/3 Two 3-lamp ballasts	
Lamp type 32 32W T8 (48") 54T5HO 54W T5 HO (46")		Shielding (blank) No shielding BAF1 White baffle, 1" PCL062 Polycarbonate, .062" WGRL Flat wire grille	Ballast type GEB ≤20% THD GEB10PS ≤10% THD, program start	Options AL Aluminum construction PAF Powder coat after fabrication WG Wireguard

Availability and Dimensions

Nominal size	Series	Number of lamps	Lamp type	Width	Height in. (cm)	Length
1'x4'	FHI4	2, 3	54T5HO	12"	6½ (16.5)	48"
1'x8'	FHI8					96"



2-lamp



3-lamp

FHB

Specular Reflector

NEW



Intended Use

Ideal replacement for HID high bay luminaires. Surface-mounted or suspended. Provides large-area lighting in a variety of photometric distributions for retail, warehouse, industrial, commercial and manufacturing areas.

Features

Channel, ends and socket brackets are 22-gauge cold-rolled steel, riveted and screwed. Tool-less ballast and wiring access.

Reflector is precision-formed, high-performance, 90% total reflectance, segmented optics utilizing Alanod Miro® 4 specular aluminum. Warranted for 25 years.

Finished in high-gloss baked white enamel, pretreated with a 5-stage iron phosphate system. Optional premium polyester powder coat is available. Galvanized steel finish also available.

Ballasts are electronic, energy-saving, thermally-protected, UL 935 listed, Class P, CSA certified where applicable, HPF, non-PCB, Sound Rating A. Ballasts comply with Federal Ballast Law (Public Law 100-357, 1988).

May be suspended by chain or cable or monopoint-mounted with appropriate accessories.

Lamps available in various CRI ratings, temperature colors and rated life. Secured with rotary locking lamp sockets to minimize disconnection from vibration or incidental contact.

UL listed wire, rated for required temperatures, used throughout. Listed and conforms to UL 1598. Suitable for damp locations.

Custom Solutions

May be modified to meet any custom application. Contact your SpecLight representative for assistance.

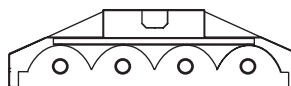
Ordering Information

Example: **FHB24 6 54T5HO T1X12 MVOLT GEB10PS LP841**

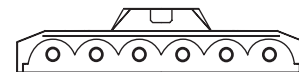
Series FHB14 1'x4' FHB164 16"x2' FHB204 20"x4' FHB24 2'x4'	Distribution F1 SC 0.8, focus beam T1 SC 1.0, task beam B1 SC 1.8, broad beam	Reflector X12 Miro® 4, .012" X20 Miro® 4, .020" D20 White powder coat, .020"	Voltage 120, 277, MVOLT, 347, HVOLT* Others available. * 347-480V, 60Hz.	Lamps (blank) No lamps LP841 85 CRI, 4100°K, standard life LPM841 85 CRI, 4100°K, standard life, low mercury LP841XS 85 CRI, 4100°K, extended life LPM841XS 85 CRI, 4100°K, extended life, low mercury
Number of lamps 2, 3, 4, 6		Uplight (blank) No uplight U Uplight	Ballast configuration (blank) Three 2-lamp ballasts 1/2 One 2-lamp ballast 1/4 One 4-lamp ballast 2/3 Two 3-lamp ballasts	
Lamp type 32 32W T8 (48") 54T5HO 54W T5 HO (46")			Ballast type GEB ≤20% THD GEB10PS ≤10% THD, program start	Options AL Aluminum construction PAF Powder coat after fabrication WG Wireguard

Availability and Dimensions

Nominal size	Series	Number of lamps	Lamp type	Width	Height in. (cm)	Length
1x4	FHB14	3		12"		
16"x4	FHB164	4	32, 54T5HO	16"	4 (10.2)	48"
20"x4	FHB204	5		20"		
2x4	FHB24	6		24"		



16" wide, 4-lamp



24" wide, 6-lamp

FPI

Specular Reflector

Intended Use

High-performance premium industrial for applications where optimum photometric performance is required. Surface-mounted or suspended. A wide selection of highly efficient reflectors is available for 1, 2 or 3-lamp cross-sections.

Features

Channel, ends and socket brackets are 22-gauge cold-rolled steel. Snap-together components make installation fast and easy.

Reflector is precision-formed, high-performance, 95% total reflectance, segmented optics utilizing Alanod Miro® 4 specular aluminum. Warranted for 25 years.

Finished in high-gloss baked white enamel, pretreated with a 5-stage iron phosphate system. Optional premium polyester powder coat is available. Galvanized steel finish also available.

Ballasts are electronic, energy-saving, thermally-protected, UL 935 listed, Class P, CSA certified where applicable, HPF, non-PCB, Sound Rating A. Ballasts comply with Federal Ballast Law (Public Law 100-357, 1988).

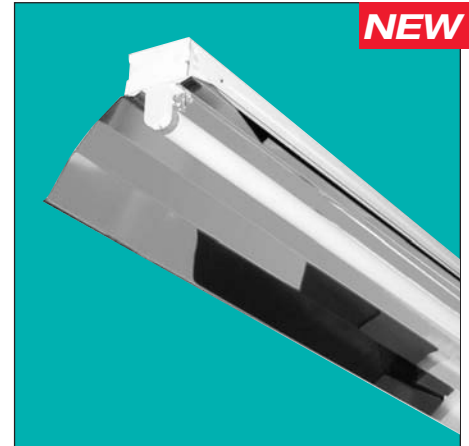
May be suspended by chain or cable or surface-mounted.

Lamps available in various CRI ratings, temperature colors and rated life. Secured with rotary locking lamp sockets to minimize disconnection from vibration or incidental contact.

UL listed wire, rated for required temperatures, used throughout. Listed and conforms to UL 1598. Suitable for damp locations.

Custom Solutions

May be modified to meet any custom application. Contact your SpecLight representative for assistance.



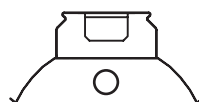
Ordering Information

Example: **FPI4 3 54T5HO N1X20 MVOLT GEB10PS LP841**

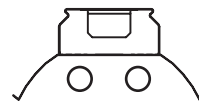
Series FPI4 8"x4' FPI8 8"x8'	Distribution F1 SC 0.4, focus beam T1 SC 1.1, task beam N1 SC 1.4, normal beam S1 SC 1.2, spread beam B1 SC 2.1, broad beam A1 45° asymmetric	Reflector X20 Miro® 4, .020" X26 Miro® 4, .026"	Voltage 120, 277, MVOLT, 347, HVOLT* Others available. * 347-480V, 60Hz.	Lamps (blank) No lamps LP841 85 CRI, 4100°K, standard life
Number of lamps 1, 2, 3			Ballast configuration (blank) All 2-lamp ballasts 1/4 One 4-lamp ballast 2/3 Two 3-lamp ballasts	Ballast type GEB ≤20% THD GEB10PS ≤10% THD, program start
Lamp type 28T5 28W T5 (46") 32 32W T8 (48") 54T5HO 54W T5 HO (46")				Options AL Aluminum construction GALV Galvanized construction PAF Powder coat, after fabrication PERF Perforated upper reflector WG Wireguard

Availability and Dimensions

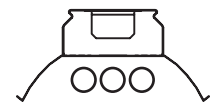
Nominal size	Series	Number of lamps	Lamp type	Width	Height in. (cm)	Length
8"x4'	FPI4	1, 2, 3	28T5, 32, 54T5HO	8"	3½ (8.9)	48"
8"x8'	FPI8					96"



FPI 1-lamp



FPI 2-lamp



FPI 3-lamp

FPP

Specular Reflector

NEW



Parabolic Troffers

Intended Use

Delivers maximum efficiency and light control. Different photometric distributions are available to balance vertical and horizontal illuminance in different applications.

Features

Channel, ends and socket brackets are .26" Miro® 4 aluminum. Top-access ballast channel is 22-gauge cold-rolled steel, riveted and screwed. Tool-less ballast and wiring access.

Reflector is precision-formed, high-performance, 90% total reflectance, segmented optics utilizing Alanod Miro® 4 specular aluminum. Warranted for 25 years.

Fixture interior is high-performance Miro® 4 to maximize efficiency and control. Specular interior lowers ceiling brightness and boosts vertical and horizontal illumination.

Ballasts are electronic, energy-saving, thermally-protected, UL 935 listed, Class P, CSA certified where applicable, HPF, non-PCB, Sound Rating A. Ballasts comply with Federal Ballast Law (Public Law 100-357, 1988).

Mounts in a grid ceiling. Drywall grid adapter accessory is available.

Lamps available in various CRI ratings, temperature colors and rated life. Secured with rotary locking lamp sockets to minimize disconnection from vibration or incidental contact.

UL listed wire, rated for required temperatures, used throughout. Listed and conforms to UL 1598. Suitable for damp locations.

Custom Solutions

May be modified to meet any custom application. Contact your SpecLight representative for assistance.

Ordering Information

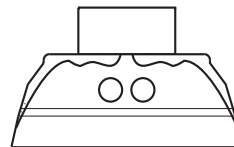
Example: **FPP24 2 32 T1X26 120 BF12 GEB LP841**

Series FPP14 1'X4' FPP22 2'X2' FPP24 2'X4'	Distribution T1 SC 0.9-1.2 task beam B1 SC 1.9-2.1 broad beam	Reflector X12 Miro® 4, .012" X26 Miro® 4, .026"	Voltage 120, 277 Others available.	Lamps (blank) No lamps LP841 85 CRI, 4100°K, standard life
Number of lamps 2, 3, 4, 6	Lamp type 17 17W T8 (24") ¹ 32 32W T8 (48") ² CF40 40W TT5 (24") CF55 55W TT5 (24")	Ballast configuration (blank) All 2-lamp ballasts 1/3 One 3-lamp ballast 2/1 Two 1-lamp ballasts 2/3 Two 3-lamp ballasts	Ballast type GEB ≤20% THD GEB10 ≤10% THD	Ballast factor (blank) 0.85 - 0.94 BF80 0.75 - 0.84 BF10 0.95 - 1.06 BF11 1.07 - 1.15 BF12 1.16 - 1.20

NOTES:
 1 Available with 2-foot models only.
 2 Available with 4-foot models only.

Availability and Dimensions

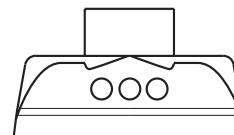
Nominal size	Series	Lamps per cross section	Width	Height in. (cm)	Length
1x4	FPP14		12"	6 (15.2)	48"
2x2	FPP22	2, 3, 4, 5	24"	5 (12.7)	24"
2x4	FPP24		24"	5 (12.7)	48"



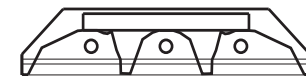
1' wide, 2-lamp



2' wide, 2-lamp



1' wide, 3-lamp



2' wide, 3-lamp

FAT

Specular Reflector

Intended Use

Provides efficient illumination with little spill light and no glare. Ideal choice for video conferencing facilities and other applications that require targeted fluorescent light.

Features

Channel, ends and socket brackets are 22-gauge cold-rolled steel, riveted and screwed. Tool-less ballast and wiring access.

Reflector is precision-formed, high-performance, 90% total reflectance, segmented optics utilizing Alanod Miro® 4 specular aluminum. Warranted for 25 years.

Finished in high-gloss baked white enamel, pretreated with a 5-stage iron phosphate system. Optional premium polyester powder coat is available.

Ballasts are electronic, energy-saving,

thermally-protected, UL 935 listed, Class P, CSA certified where applicable, HPF, non-PCB, Sound Rating A. Ballasts comply with Federal Ballast Law (Public Law 100-357, 1988).

Mounts in a grid ceiling. Drywall grid adapter accessory is available.

Lamps available in various CRI ratings, temperature colors and rated life. Secured with rotary locking lamp sockets to minimize disconnection from vibration or incidental contact.

Custom Solutions

May be modified to meet any custom application. Contact your SpecLight representative for assistance.



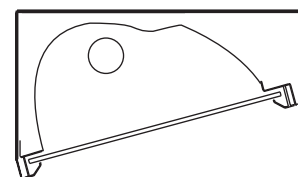
Ordering Information

Example: **FAT12 2 32 A1X12 A12 120 BF12 GEB LP841**

Series FAT12 1'X2' FAT14 1'X4'	Distribution A1 Asymmetric	Reflector X12 Miro® 4, .012" X20 Miro® 4, .020"	Voltage 120, 277 Others available.	Lamps (blank) No lamps LP841 85 CRI, 4100°K, standard life		
Number of lamps 1, 2	Lamp type 17 17W T8 (24") 32 32W T8 (48") 14T5 14W T5 (22") 28T5 28W T5 (46") 24T5HO 24W T5 HO (22") 54T5HO 54W T5 HO (46") CF40 40W TT5 (24")		Door frame (blank) Flush steel RW Regressed aluminum, white	Ballast configuration (blank) One 1-lamp ballast 1/2 One 2-lamp ballast 2/1 Two 1-lamp ballasts	Ballast type GEB ≤20% THD GEB10 ≤10% THD	Options PAF Powder coat after fabrication
Diffuser A12 #12 pattern acrylic A12125 #12 pattern acrylic, .125" thick 84Y Holophane 8224 with overlay			Ballast factor (blank) 0.75 - 0.84 BF80 0.85 - 0.94 BF10 0.95 - 1.06 BF11 1.07 - 1.15 BF12 1.16 - 1.20			

Availability and Dimensions

Nominal size	Series	Lamps per cross section	Width	Height in. (cm)	Length
1x2	FAT12	1, 2	12"	6½ (16.5)	24"
1x4	FAT14				48"



FPL

Multi-Reflector

NEW



Modular Recessed

Intended Use

Combines the features of standard troffers, Avante® recessed indirect lighting and Perceiva® wallwash units in a single housing. This speeds installation and provides a variety of lighting effects from a single ceiling opening.

Features

Channel, ends and socket brackets are manufactured from 22-gauge cold-rolled steel.

Main compartment – Standard troffer door frames and lenses combined with a high-performance reflector.

Recessed/indirect compartment – Center or side-mounted Avante® baskets.

Wallwash compartment – Perceiva® specular or powder-coated white reflectors.

Reflector is precision-formed, high-performance, 90% total reflectance, segmented

optics utilizing Alanod Miro® 4 specular aluminum. Warranted for 25 years.

Fixture interior is high-performance Miro® 4 to maximize efficiency and control. Specular interior lowers ceiling brightness and boosts vertical and horizontal illumination.

Ballasts are electronic, energy-saving, thermally-protected, UL 935 listed, Class P, CSA certified where applicable, HPF, non-PCB, Sound Rating A. Ballasts comply with Federal Ballast Law (Public Law 100-357, 1988).

UL listed wire, rated for required temperatures, used throughout. Listed and conforms to UL 1598. Suitable for damp locations.

Custom Solutions

May be modified to meet any custom application. Contact your SpecLight representative for assistance.

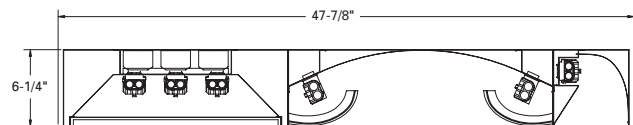
Ordering Information

Example: **FPL24 G 6 CF40 84Y MDR AD20 277 GEB PAF**

Series FPL24 2'X4'	Lamp type CF40 40W TT5 (24") CF55 55W TT5 (24") 24T5HO 24W T5 HO (22")	Diffuser 2 ADP Acrylic diffuser, linear prismatic lens MDM Metal diffuser, aligned mini-slats MDR Metal diffuser, round holes SBL Straight-blade louver, round holes	Diffuser 2 configuration (blank) Single diffuser SMD Double side-mount diffuser	Voltage 120, 277, MVOLT, 347, HVOLT Others available.
Trim type G Grid	Number of lamps 5, 6	Diffuser 1 A12 #12 pattern acrylic, .110" thick A12125 #12 pattern acrylic, .125" thick 84Y Holophane 8224 with overlay	Reflector 3 AD20 Asymmetric, white powder coat AX20 Asymmetric, specular silver	Options GEB Generic electronic ballast, <20% THD NLCF13 Night light, 13W compact fluorescent PAF Powder coat after fabrication (standard)

Availability and Dimensions

Nominal size	Series	Number of lamps	Lamp type	Length
2'x4'	FPL24	5, 6	CF40, CF55, 24T5HO	48"



FRA FRS

Intended Use

Delivers maximum efficiency and light control. Different photometric distributions are available to balance vertical and horizontal illuminance in different applications.

Features

Channel, ends and socket brackets are .26" Miro® 4 aluminum. Top-access ballast channel is 22-gauge cold-rolled steel, riveted and screwed. Tool-less ballast and wiring access.

Reflector is precision-formed, high-performance, 90% total reflectance, segmented optics utilizing Alanod Miro® 4 specular aluminum. Warranted for 25 years.

Fixture interior is high-performance Miro® 4 to maximize efficiency and control. Specular interior lowers ceiling brightness and boosts vertical and horizontal illumination.

Ballasts are electronic, energy-saving, thermally-protected, UL 935 listed, Class P, CSA certified where applicable, HPF, non-PCB, Sound Rating A. Ballasts comply with Federal Ballast Law (Public Law 100-357, 1988).

Mounts in a grid ceiling. Drywall grid adapter accessory is available.

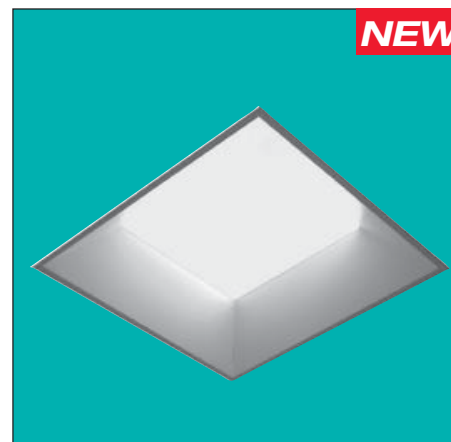
Lamps available in various CRI ratings, temperature colors and rated life. Secured with rotary locking lamp sockets to minimize disconnection from vibration or incidental contact.

UL listed wire, rated for required temperatures, used throughout. Listed and conforms to UL 1598. Suitable for damp locations.

Custom Solutions

May be modified to meet any custom application. Contact your SpecLight representative for assistance.

Angled or Stepped Sides



Ordering Information

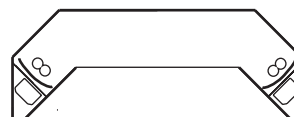
Example: **FRA22 4 G CF36 120 GEB**

Series	Size	Trim	Voltage	Options
FRA Angled sides FRS Stepped sides	22 2'x2' 33 3'x3' 44 4'x4'	G Grid	120, 277, 347 Others available.	PAF Powder coat after fabrication
Number of lamps		Lamp type	Ballast configuration	Ballast type
4		17 17W T8 (24) ¹ 25 25W T8 (36) ² CF36 36W TT5 (18") ³	(blank) All 2-lamp ballasts 1/4 One 4-lamp ballast	GEB ≤20% THD GEB10 ≤10% THD
			Ballast factor	
			BF80 0.75 - 0.84 BF90 0.85 - 0.94 BF10 0.95 - 1.06 BF11 1.07 - 1.15 BF12 1.16 - 1.20	

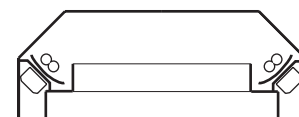
NOTES:
 1 Available with 3'x3' models only.
 2 Available with 4'x4' models only.
 3 Available with 2'x2' models only.

Availability and Dimensions

Nominal size	Series	Number of lamps	Width	Height in. (cm)	Length
2x2			2'		2'
3x3	FRA, FRS	4	3'	9 (22.7)	3'
4x4			4'		4'



FRA 2'



FRS 2'

P E E R L E S S ®

SUSPENDED ARCHITECTURAL



P E E R L E S S ®

For generations, the name Peerless® has been synonymous with contemporary design and an extraordinary quality of illumination. Through our continuing research into how light influences a space and the people who inhabit it Peerless products are engineered for superior results.

Ingenious, technologically-advanced luminaires control and emit a remarkably soft, natural light, offering a refined balance of visual comfort, dimensionality and drama within an architectural setting.



Peerlite®

Sleek architectural forms, advanced optics and a flexible modular design make Peerlite the lighting product of choice where performance is desired and resources are limited.

Peerlite provides a cost-effective quality lighting solution for everyday lighting needs whether it is an office, school or retail environment. Using the latest technologies, Peerlite systems deliver soft, people-pleasing ambient illumination. Light levels are comfortably appropriate. Glare and eyestrain are minimized. Productivity is enhanced.



PRODUCT OVERVIEW

Mirage™

High-performance, modular indirect/direct lighting in a visually striking package.

Diminutive Lightfin®

A streamlined profile trimmed for HOT-5® fixture performance.

Diminutive Lightduct™

HOT-5® performance, exquisitely fashioned.

Envision®

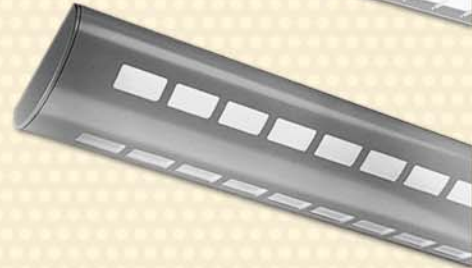
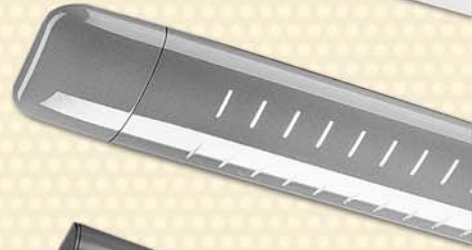
A family of gracefully shaped lighting products encompassing pendant-mounted, wall-mounted and cove fixtures.

Lightedge®

Beautifully proportioned and exquisitely detailed. The look is leading edge and completely unique.

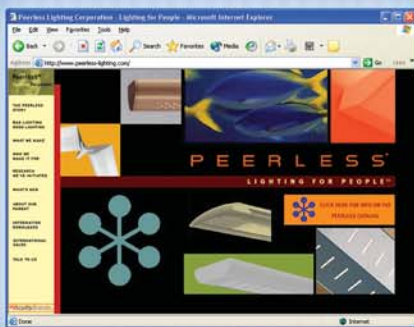
Lightline™ Wall Wash

Uniform wall lighting with HOT-5® optics. Discreetly Peerless.

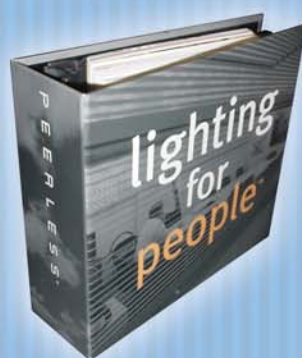




For detailed product and ordering information, please consult:



www.peerless-lighting.com



Specification Binder



Brochures



SUSPENDED LIGHTING



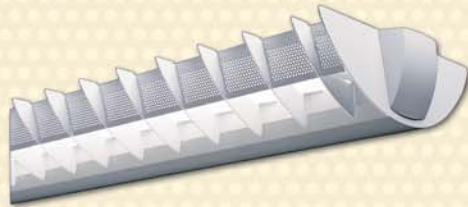
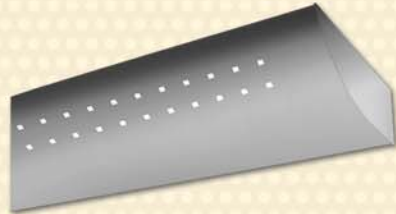


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Cerra® Direct

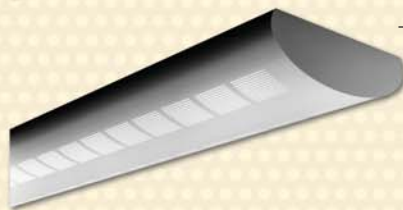
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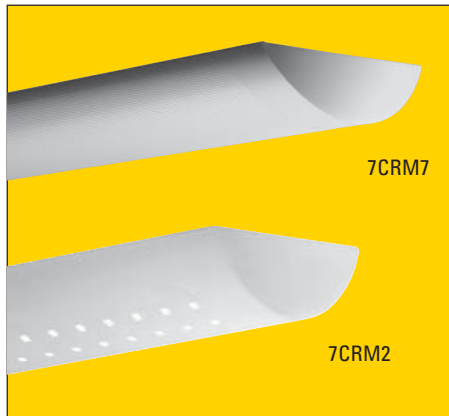
Installation Guide

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Cerra® 7

Peerlite®



Indirect/Open or Partially Perforated

Intended Use

The Cerra 7 Series features a pure crescent architectural form and delivers exceptional performance and versatility. Cerra 7 optical systems are precisely engineered to fully utilize our advanced high-output T5 (HOT-5®) fixture technology.

Designed for commercial and educational spaces, the petite Cerra 7 Series has a nominal height of only 2". The optional die-cast sculptured end caps finish the rows with an elegant accent.

Features

2" x 7" Crescent.

1, 2 or 3 lamps T5HO.

Partial Perf and Indirect/Open.

Rugged, one-piece, cold rolled steel construction.

The Cerra 7 Series features the smallest crescent profile in the industry and pure architectural form.

The distinctive square window pattern creates a dynamic visual fluidity as a unique highlight option.

Specular high-performance reflectors are offered for Partial Perf and Indirect/Open.

Sculptured end caps also are available for an elegant accent.

Refer to the Peerlite catalog or your agent for ordering information.

Listings – UL Listed to US and Canadian safety standards.

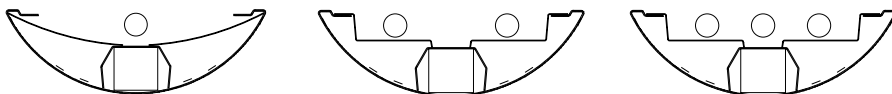
Ordering Information

Example: **7CRM2 2 54T5HO WHR 40FT R12 277 GEB10 DCT LP835 F1/18 SCEP**

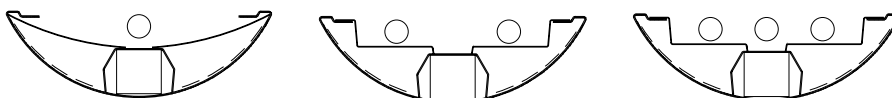
Type 7CRM2 Indirect/Open 7CRM7 Partially perforated	Rows and sections¹ _FT R4 _FT R8 _FT R12	Voltage 120 277	Ballast² GEB10	Type of emergency sections^{3,4} (blank) None EL Emergency battery pack EC Emergency/night-light circuit EN Emergency battery pack with night-light circuit	Mounting/Suspension⁵ F1/ T-bar ceiling (Universal mounting bracket) F2/ Hard ceiling (horizontal j-box) F4A/ IDS clip, 15/16" tee F4B/ IDS clip, 9/16" tee F4C/ IDS clip, screw slot
Lamps 1 54T5HO 2 54T5HO 3 54T5HO Number of lamps in cross section and lamp type.	Reflector WHR White (standard) SPR Specular	No. of emergency sections³ (blank) None 1SE One section 2SE Two sections _SE ___ sections* * May specify up to number of fixture sections per run.	Switching SCT Single circuit DCT Dual circuit	Lamp color L/LP No lamp LP830 3000°K, 80 + CRI LP835 3500°K, 80 + CRI (standard) LP841 4100°K, 80 + CRI	Options ACG Adjustable cable grippers SCEP Sculptured end caps ELH Emergency through-wire with separate feed ⁶ DU Dust cover GMF Fusing, slow-blow GLR Fusing, fast-blow CMG Cord manager OTM On tenon mounting

LUMINAIRE CROSS SECTIONS (2" x 7" Nominal)

7CRM2 – Indirect/Open



7CRM7 – Partially perforated



NOTES:

- Specify nominal row length in 4' increments. R4/R8/R12 indicates maximum length of section. Example: 40FT R12 is a 40' run with a 12' maximum section length.
- GEB10 = generic electronic ballast, <10% THD. Consult factory for dimming options.
- Optional.
- EL, EN and EC are installed in last 4' of fixture sections and are not available concurrently. Separate feed required for each EL or EC unless ELH option is specified.
- Suspension length is measured from finished ceiling to bottom of fixture.
- For single feed of all emergency or night-light sections in row from opposite end of normal power feed.



Intended Use

The Cerra 10 Series features a pure crescent architectural form and delivers exceptional performance and versatility. Cerra 10 optical systems are precisely engineered to fully conventional T8 lamps.

Designed for commercial and educational spaces, the slender Cerra 10 Series has a nominal height of only 3". The optional die-cast sculptured end caps finish the rows with an elegant accent.

Features

3" x 10" Crescent.

2, 3, or 4 lamps T8.

Partial Perf, Full Perf and Indirect/Open.

Rugged, one-piece, cold rolled steel construction.

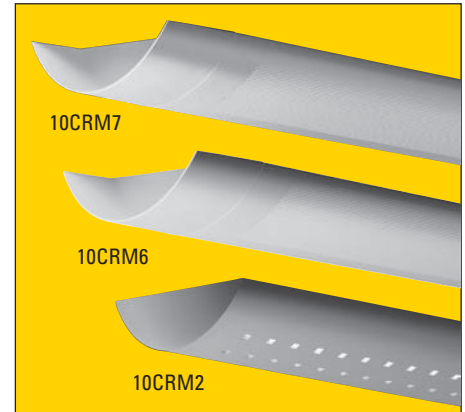
The Cerra 10 Series shares the crescent form of the Cerra 7 Series with a slightly larger scale.

On projects where other crescent shapes are specified, the Cerra 10 Series is a competitive alternative with many value-added features.

Stems are also available for Partial Perf and Indirect/Open.

Refer to the Peerlite catalog or your agent for ordering information.

Listings – UL Listed to US and Canadian safety standards.



Ordering Information

Example: **10CRM2 4 32 WHR 40FT R12 277 GEB DCT LP735 F1/18 SCEP**

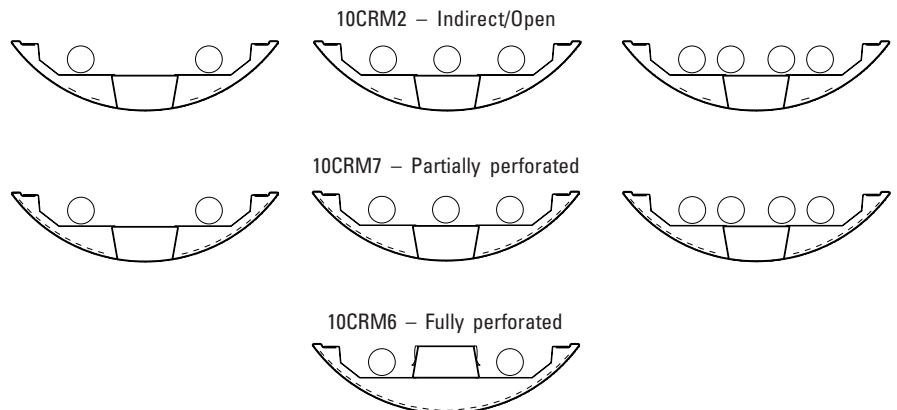
Type	Lamps	Rows and sections ²	No. of emergency sections ⁴	Switching	Mounting/Suspension ⁶
10CRM2 Indirect/Open	2 32	_ FT R4	(blank) None	SCT Single circuit	F1/ T-bar ceiling 12, 15, 18
10CRM6 Fully perforated	3 32¹	_ FT R8	1SE One section	DCT Dual circuit	F2/ Hard ceiling 21, 24, __* (horizontal j-box) * Overall suspension, shown in inches. Custom length may be specified.
10CRM7 Partially perforated	4 32¹	_ FT R12	2SE Two sections		F3/ Stem mount ¹
	Number of lamps in cross section and lamp type.		_SE ___ sections*		F4A/ IDS clip, 15/16" tee
			* May specify up to number of fixture sections per run.		F4B/ IDS clip, 9/16" tee
					F4C/ IDS clip, screw slot

Reflector	Voltage	Ballast ³	Type of emergency sections ^{4,5}	Lamp color	Options
WHR White (standard)	120	GEB	(blank) None	L/LP No lamp	ACG Adjustable cable grippers
SPR Specular	277	GEB10	EL Emergency battery pack	LP730 3000°K, 70+CRI	SCEP Sculptured end caps
	347		EC Emergency/night-light circuit	LP735 3500°K, 70+CRI (standard)	ELH Emergency through-wire with separate feed ⁷
			EN Emergency battery pack with night-light circuit	LP741 4100°K, 70+CRI	DU Dust cover
				LP830 3000°K, 80+CRI	GMF Fusing, slow-blow
				LP835 3500°K, 80+CRI	GLR Fusing, fast-blow
				LP841 4100°K, 80+CRI	CMG Cord manager
					OTM On tenon mounting

NOTES:

- Not available with 10CRM6.
- Specify nominal row length in 4' increments. R4/R8/R12 indicates maximum length of section. Example: 40FT R12 is a 40' run with a 12' maximum section length.
- GEB = generic electronic ballast, <20% THD. GEB10 = generic electronic ballast, <10% THD. Consult factory for dimming options.
- Optional.
- EL, EN and EC are installed in last 4' of fixture sections and are not available concurrently. Separate feed required for each EL or EC unless ELH option is specified.
- Suspension length is measured from finished ceiling to bottom of fixture.
- For single feed of all emergency or night-light sections in row from opposite end of normal power feed.

LUMINAIRE CROSS SECTIONS (3" x 10" Nominal)



Decorative Accessories

Features

Sculptured ends

Die-cast aluminum with a minimizing, elegant design.

Available for all Cerra product offerings.

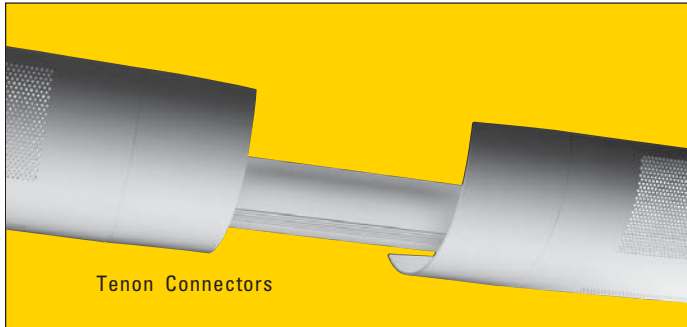
Corners and Tenons

Die-cast aluminum with aluminum extrusions.

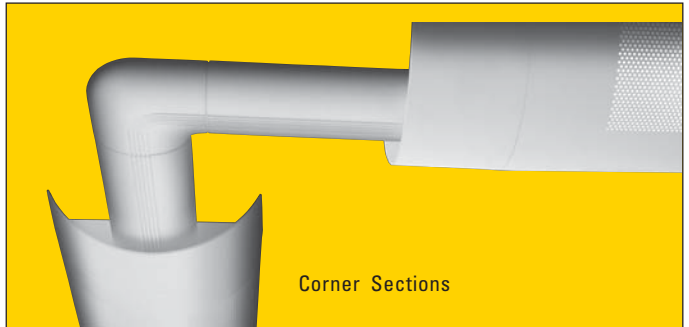
Allows you to create configurations or introduce architectural rhythm into a space.

Available for all Cerra product offerings.

Refer to the Peerlite catalog or your agent for ordering information.



Extruded aluminum, sculptured die-cast end caps separate luminaire sections creating an architectural rhythm.



Two aluminum extrusions, a die-cast corner, and two sculptured end caps permits 90° angles and maintain electrical feed.

- 1** Determine desired configuration of fixtures, tenons and corners.
For total row length, sum 4', 8' and 12' fixture sections and add tenon and corner dimensions as shown in the Peerlite catalog. Consult factory for layout assistance if required.

- 2** Order fixture sections.
See Peerlite catalog for ordering information.

- 3** Specify desired component.
See below.

End Caps and Connector Kits

Notes:

- 1) Each end cap kit includes two end caps. Only one set is needed per row.
- 2) Flat end caps should not be used in conjunction with tenon or corner configurations.
- 3) Through-wire harnesses required on tenon and corner kits when feeding emergency sections.

Cerra 7 end caps, connector kits	
7CRM EP SCEP	Sculptured end cap kit
7CRM EP	Flat end plate kit
7CRM TNN	Tenon kit (includes end cap, attached on each end)
7CRM TNN ELH	Tenon kit with emergency through-wire harness
7CRM CNR	90° corner kit (includes end cap, attached on each end)
7CRM CNR ELH	90° corner kit with emergency through-wire harness

Cerra 10 end caps, connector kits	
10CRM EP SCEP	Sculptured end cap kit
10CRM EP	Flat end plate kit
10CRM TNN	Tenon kit (includes end cap, attached on each end)
10CRM TNN ELH	Tenon kit with emergency through-wire harness
10CRM CNR	90° corner kit (includes end cap, attached on each end)
10CRM CNR ELH	90° corner kit with emergency through-wire harness

Cerra® Wall

Peerlite®

Intended Use

With a clean architectural form and exceptional performance, Cerra Wall offers extraordinary versatility in a wall-mount indirect luminaire. Available in 1- and 2-lamp T8 and T5HO, the Cerra Wall Series is available as an indirect, indirect/open, and partial perforated luminaire.

These elegant luminaires complement the Cerra 7 and Cerra 10 suspended products enabling them to be used together on projects. The optional die-cast sculptured end caps finish the rows with an elegant accent.

Unlike the competition, the optics of the Cerra Wall Series are designed to create uniform illumination with no socket shadows. This superior performance is offered at the same or lower price.

The Cerra Wall systems complement the Cerra 7 and Cerra 10 suspended products enabling them to be used together on projects.

Refer to the Peerlite catalog or your agent for ordering information.

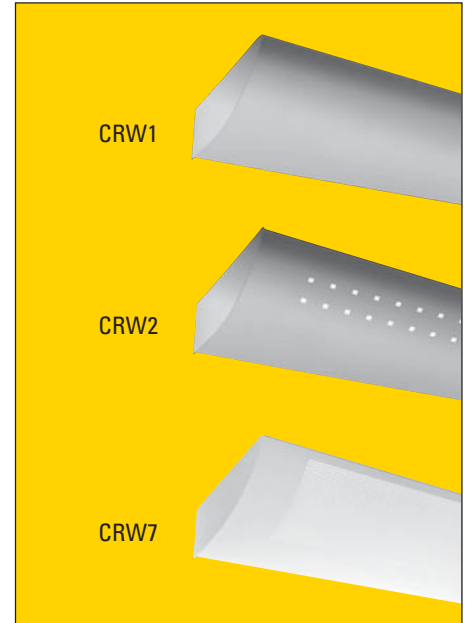
Listings – UL Listed to US and Canadian safety standards.

Features

1 or 2 lamps, T8 or T5HO.

Indirect, Partial Perforated and Indirect/Open.

Rugged, one-piece, cold rolled steel construction.



Ordering Information

Example: **CRW2 1 54T5HO WHR 40FTN R12 277 GEB10 SCT LP835 SCEP**

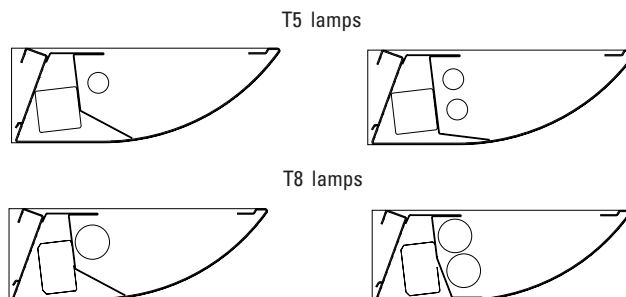
Type	Lamps	Rows and sections ¹	Voltage	Ballast ²	Type of emergency sections ^{3,4}	Options
CRW1 Indirect	1 32		120	GEB10	(blank) None	ACG Adjustable cable grippers
CRW2 Indirect/Open	1 54T5HO	_FTN R4	277		EL Emergency battery pack	SCEP Sculptured end caps
CRW3 Indirect/Partially perforated	2 32	_FTN R8			EC Emergency/night-light circuit	ELH Emergency through-wire with separate feed ⁵
CRW7 Partially perforated	2 54T5HO <small>Number of lamps in cross section and lamp type.</small>	_FTN R12			EN Emergency battery pack with night-light circuit	DU Dust cover
		_FT R4				GMF Fusing, slow-blow
		_FT R8				GLR Fusing, fast-blow
		_FT R12				

Reflector	No. of emergency sections ³	Switching	Lamp color
WHR White (standard)	(blank) None	SCT Single circuit	L/LP No lamp
SPR Specular	1SE One section	DCT Dual circuit	LP730 3000°K, 70+ CRI
	2SE Two sections		LP735 3500°K, 70+ CRI (standard)
	_SE ___ sections*		LP741 4100°K, 70+ CRI
	<small>* May specify up to number of fixture sections per run.</small>		LP830 3000°K, 80+ CRI
			LP835 3500°K, 80+ CRI (standard)
			LP841 4100°K, 80+ CRI

NOTES:

- Specify nominal row length in 4' increments. R4/R8/R12 indicates maximum length of section. Example: 40FT R12 is a 40' run with a 12' maximum section length. Consult factory for additional increments.
- GEB10 = generic electronic ballast, <10% THD. Consult factory for dimming options. GEB is standard for T8. GEB is standard for HOT-5®.
- Optional.
- EL, EN and EC are installed in last 4' of fixture sections and are not available concurrently. Separate feed required for each EL or EC unless ELH option is specified.
- For single feed of all emergency or night-light sections in row from opposite end of normal power feed.

LUMINAIRE CROSS SECTIONS (8" x 3" Nominal)



Cerra® Baffle

Peerlite®

Indirect, Indirect/Open or Perforated

NEW



Intended Use

A new take on a classic full baffle design, Cerra Baffle features a pure crescent form, sculptured endcaps, and balanced zonal brightness to create a crisp, fresh look. Available in T8, T5, and T5HO lamp configurations.

Designed for school, library, and commercial spaces Cerra Baffle also works well in retail and other public spaces where the distinctive look combined with the ability to have a higher, direct-light component are desired.

Features

Full-baffle style crescent form. Nominal 3" x 10" size.

Extruded aluminum spline with one-piece aluminum baffle and steel and die-cast aluminum endcap.

Available in 2,3,4 T8 lamp configurations and 1,2,3,4 T5/T5HO lamp configurations.

Opal diffuser available to shield lamp view. Standard with T5/T5HO lamping and as an option with T8.

Multiple indirect and direct light distribution options: T8 – 70/30, 50/50. 70/30, 5/95. T5/T5HO – 80/20, 40/60, 5/95.

Two standard finishes are available; white low-gloss and natural aluminum. Optional custom colors also available on spline and end plates.

Listing – UL Listed to US and Canadian safety standards.

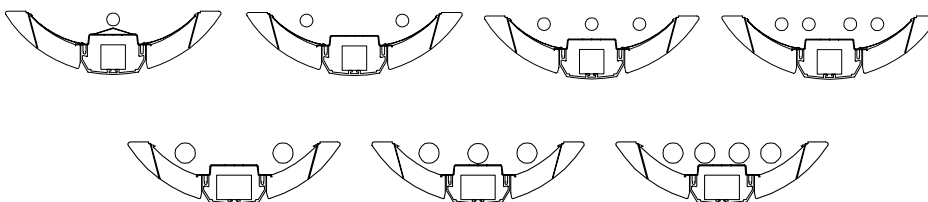
Ordering Information

Example: **10CRM8 2 32 70/30 40FT R8 277 GEB10 DCT LP835 F1/18 C100 ACG**

Fixture	Rows and sections ¹	Number of emergency/night-light sections ⁴	Switching ⁶	Lamp color	Finish
10CRM8	_FT R4 _FT R8 _FT R12	(blank) None 1SE 1 section 2SE 2 sections _SE ___ sections*	SCT Single circuit DCT Dual circuit	L/LP No lamp LP730 3000°K, 70 + CRI LP735 3500°K, 70 + CRI (standard T8) LP741 4100°K, 70 + CRI LP830 3000°K, 80 + CRI LP835 3500°K, 80 + CRI (standard T5/T5HO) LP841 4100°K, 80 + CRI	C041 White (standard) C100 Natural aluminum <small>Consult Peerlite Color Ordering Guide for other color options.</small>
Lamps	Voltage²	Ballast³	Emergency night-light type^{2,4,5}	Mounting/Suspension	Options
1 T5 1 T5HO 2 32 2 T5 2 T5HO 3 32 3 T5 3 T5HO 4 32 4 T5 4 T5HO	120 277 347	GEB GEB10	(blank) None EL Emergency battery pack EC Emergency/night-light circuit EN Emergency battery pack with night-light circuit	F1/ T-bar ceiling (universal mounting bracket) F2/ Hard ceiling (horizontal J-box) F3/ Rigid stem mount F4A/ IDS clip 15/16" tee F4B/ IDS clip 9/16" tee F4C/ IDS clip screw slot	ACG Adjustable cable grippers CMG Cord manager DU Dust cover ELH Emergency through-wire with separate feed ELS Emergency through-wire with single feed GLR Fast-blow fuse GMF Slow-blow fuse RIF Radio interference
Shielding options	Ballast³	Emergency night-light type^{2,4,5}	Mounting/Suspension		
T5/T5HO 80/20 40/60 5/95 T8 70/30 50/50 30/70 5/95	GEB GEB10	(blank) None EL Emergency battery pack EC Emergency/night-light circuit EN Emergency battery pack with night-light circuit	F1/ T-bar ceiling (universal mounting bracket) F2/ Hard ceiling (horizontal J-box) F3/ Rigid stem mount F4A/ IDS clip 15/16" tee F4B/ IDS clip 9/16" tee F4C/ IDS clip screw slot		

Number of lamps in cross section and lamp type.

LUMINAIRE CROSS SECTIONS (3" x 10" Nominal)



NOTES:

- Specify nominal row length in 4' increments. R4/R8/R12 indicates maximum length of section. Example: 40FT R12 is a 40' run with a 12' maximum section length.
- EL, EN, dimming ballast not available with 347V.
- GEB = generic electronic ballast, <20% THD. GEB10 = generic electronic ballast, 40% THD. Consult factory for dimming options.
- Optional.
- EL and EC are installed in last 4' of fixture sections and are not available concurrently with each other. Separate feed required for each EL, EC, or EN unless ELH or ELS specified.
- Use with DCT option to switch indirect and direct separately.



Cerra® Baffle Wall

PeerLite®

Intended Use

Cerra baffle wall uses the distinct design element of the classic full baffle luminaire and applies them to a wall-mount luminaire that provides balanced zonal brightness and a crisp, fresh look. Available in 1- and 2-lamp T8, T5, and T5HO.

These elegant luminaires complement the Cerra Baffle and Cerra Direct suspended products enabling them to be used together on projects. Designed for commercial, educational, and public spaces where a wall-mount indirect luminaire is required.

Features

Full-baffle style half-crescent form. Nominal 3"x 6.5" size.

Extruded aluminum spline with one-piece aluminum baffle and steel and die-cast aluminum endcap.

Available in 1- and 2-lamp T8, T5, and T5HO lamp configurations.

Two standard finishes are available; white low-gloss and natural aluminum. Optional custom color also available on spline and end plates.

Listing – UL Listed to US and Canadian safety standards.

NEW



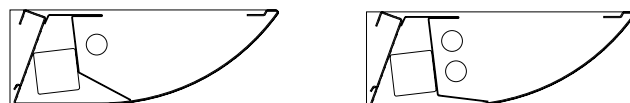
Ordering Information

Example: **CRW8 2 54T5HO WHR 40FT R8 277 GEB10 DCT LP835 C100 GLR**

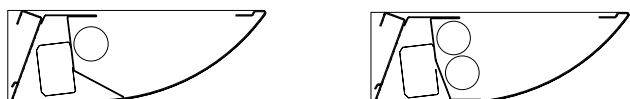
Fixture	Reflector	Voltage ²	Number of emergency/ night-light sections ³	Switching	Finish
CRW8	WHR (standard)	120 277 347	(blank) None _SE ___ sections* * May specify up to number of fixture sections per run.	SCT Single circuit DCT Dual circuit	C041 White (standard) C100 Natural aluminum <small>Consult Peerlite Color Ordering Guide for other color options.</small>
	Lamps	Ballast^{3,4}	Emergency night-light type^{3,5}	Lamp color	Options
	1 32 2 32 2 28T5 2 54T5HO <small>Number of lamps in cross section and lamp type.</small>	(blank) None GEB GEB10	(blank) None EL Emergency battery pack EC Emergency circuit/night-light circuit EN Emergency battery pack with night-light circuit	L/LP No lamp LP730 3000°K, 70 + CRI LP735 3500°K, 70 + CRI (standard T8) LP741 4100°K, 70 + CRI LP830 3000°K, 80 + CRI LP835 3500°K, 80 + CRI (standard T5/T5HO) LP841 4100°K, 80 + CRI	DU Dust cover ELH Emergency through-wire with separate feed ELS Emergency through-wire with single feed GLR Fusing, fast-blow GMF Fusing, slow-blow
	Rows and sections¹				
	_FT R4 _FT R8 _FT R12				

LUMINAIRE CROSS SECTIONS (8" x 3" Nominal)

T5 lamps



T8 lamps



NOTES:

- Specify nominal row length in 4' increments. R4/R8/R12 indicates maximum length of section. Example: 40FT R12 is a 40' run with a 12' maximum section length. Consult factory for additional increments.
- EL, EN, dimming ballast not available with 347V.
- Optional.
- GEB = generic electronic ballast, <20% THD. GEB10 = generic electronic ballast, 40% THD. Consult factory for dimming options.
- EL and EC are installed in last 4' of fixture sections and are not available concurrently with each other. Separate feed required for each EL, EC, or EN unless ELH or ELS specified.

Cerra® Direct

PeerLite®

Indirect, Indirect/Open or Perforated

NEW



Intended Use

For those applications where only direct light is needed from a suspended or surface-mounted luminaire, Cerra Direct is the solution. With a clean crescent shape and classic full baffle design, the Cerra Direct can be applied successfully in a variety of applications in commercial and retail spaces.

Available in 1- and 2-lamp T8, T5, and T5HO, Cerra Direct offers two baffle styles and three diffuser options to provide varying degrees of brightness and light control.

Features

Full-baffle style crescent form. Nominal 3" x 7" size.

Pendant and surface-mount products available.

Extruded aluminum spline with one-piece aluminum baffle and steel and die-cast aluminum endcap.

Available in 1- and 2-lamp T8, T5, and T5HO lamp configurations.

Two baffle styles and three diffusers are available, each providing varying degrees of brightness.

Two standard finishes are available; white low-gloss and natural aluminum. Optional custom color also available on spline and end plates.

Listing – UL Listed to US and Canadian safety standards.

Ordering Information

Example: **7CDM8 2 54T5HO 40FT R8 277 GEB10 DCT LP835 F1/18 C100 GMF**

Fixture 7CDM8 pendant mount 7CDC8 surface mount	Rows and sections³ _FT R4 _FT R8 _FT R12	Voltage 120 277 347 ⁴	Switching SCT Single circuit DCT Dual circuit	Mounting/Suspension F1 T-bar ceiling 12, 15, 18 F2 Hard ceiling 21, 24, ___* F3 Rigid stem mount F4A IDS clip, 15/16" tee F4B IDS clip, 9/16" tee F4C IDS clip, screw slot	Finish C041 White (standard) C100 Natural aluminum Consult PeerLite Color Ordering Guide for other color options.
Lamps 1 32 1 28T5 1 54T5HO 2 32 2 28T5 2 54T5HO Number of lamps in cross section and lamp type.	Ballast^{1,5} (blank) None GEB GEB10	Emergency night-light type^{1,6} (blank) None EL Emergency battery pack EC Emergency circuit/night-light circuit EN Emergency battery pack with night-light circuit	Lamp color L/LP No lamp LP730 3000°K, 70 + CRI LP735 3500°K, 70 + CRI (standard T8) LP741 4100°K, 70 + CRI LP830 3000°K, 80 + CRI LP835 3500°K, 80 + CRI (standard T5/T5HO) LP841 4100°K, 80 + CRI	Options ACG Adjustable cable grippers ELH Emergency through-wire with separate feed ELS Emergency through-wire with single feed VSS Variable support spacing NYC New York code OTM On tenon mounting GLR Fusing, fast-blow GMF Fusing, slow-blow CMG Cord manager	
Baffle options¹ (blank) Straight blade baffle with perf. rail OPD Straight blade baffle with standard brightness diffuser ² OPL Straight blade baffle with low brightness diffuser ² OPI Straight blade baffle with intermediate brightness diffuser ²	Number of emergency/night-light sections¹ (blank) None _SE ___ sections* * May specify up to number of fixture sections per run.	NOTES: 1 Optional. 2 Only available with 1-lamp T5, T5HO, or T8 option. 3 Specify nominal row length in 4' increments. R4/R8/R12 indicates maximum length of section. Example: 40FT R12 is a 40' run with a 12' maximum section length. 4 EL, EN, dimming ballast not available with 347V. 5 GEB = generic electronic ballast, <20% THD. GEB10 = generic electronic ballast, 40% THD. Consult factory for dimming options. 6 EL and EC are installed in last 4' of fixture sections and are not available concurrently with each other. Separate feed required for each EL, EC, or EN unless ELH or ELS specified.			

LUMINAIRE CROSS SECTIONS (3" x 7" Nominal)



Cerra® Direct Accents

PeerLite®

Intended Use

With a clean crescent shape and classic full baffle design, Cerra Direct Accents can be applied successfully in a variety of applications in commercial and retail spaces. These elegant luminaires complement the Cerra Baffle and Cerra Direct suspended products enabling them to be used together on projects.

Available in 1-lamp T8, T5, and T5HO, Cerra Direct Accent offers three diffuser options to provide varying degrees of brightness and light control. A 1' and 2' sconce version is also available.

Extruded aluminum spline with one-piece aluminum baffle and steel and die-cast aluminum endcap.

Available in 1-lamp T8, T5, and T5HO lamp configurations.

Three diffusers are available, each providing varying degrees of brightness.

Two standard finishes are available; white low-gloss and natural aluminum. Optional custom colors also available on spline and end plates.

Listing – UL Listed to US and Canadian safety standards.

Features

Full-baffle style crescent form. Nominal 3" x 7" size.

Wall-mount and decorative sconce.

NEW



Ordering Information

Example: **CDW8 2 54T5HO 40FT R8 277 GEB10 DCT LP835 C100 GMF**

Fixture	Lamps	Rows and sections ²	Voltage	Emergency night-light type ^{1,5}	Switching	Finish	Options
CDW8 wall mount CDA8 angle mount	1 32 1 28T5 1 54T5HO Number of lamps in cross section and lamp type.	_FT R4 _FT R8 _FT R12	120 277 347³	(blank) None EL Emergency battery pack EN Battery pack/night-light combination EC Emergency circuit/night-light circuit	SCT Single circuit DCT Dual circuit	C041 White (standard) C100 Natural aluminum Consult PeerLite Color Ordering Guide for other color options.	ELH Emergency through-wire with separate feed ELS Emergency through-wire with single feed NYC New York code GLR Fusing, fast-blow GMF Fusing, slow-blow
Baffle options¹		Number of emergency/night-light sections¹		Lamp color			
(blank) Straight blade baffle with intermediate brightness diffuser (standard) OPD Straight blade baffle with standard brightness diffuser OPL Straight blade baffle with low brightness diffuser		(blank) None _SE ___ sections* * May specify up to number of fixture sections per run.		L/LP No lamp LP730 3000°K, 70 + CRI LP735 3500°K, 70 + CRI (standard T8) LP741 4100°K, 70 + CRI LP830 3000°K, 80 + CRI LP835 3500°K, 80 + CRI (standard T5/T5HO) LP841 4100°K, 80 + CRI			

- NOTES:
- Optional.
 - Specify nominal row length in 4' increments. R4/R8/R12 indicates maximum length of section. Example: 40FT R12 is a 40' run with a 12' maximum section length. Consult factory for additional increments.
 - EL, EN, dimming ballast not available with 347V.
 - GEB = generic electronic ballast, <20% THD. GEB10 = generic electronic ballast, 40% THD. Consult factory for dimming options.
 - EL and EC are installed in last 4' of fixture sections and are not available concurrently with each other. Separate feed required for each EL, EC, or EN unless ELH or ELS specified.

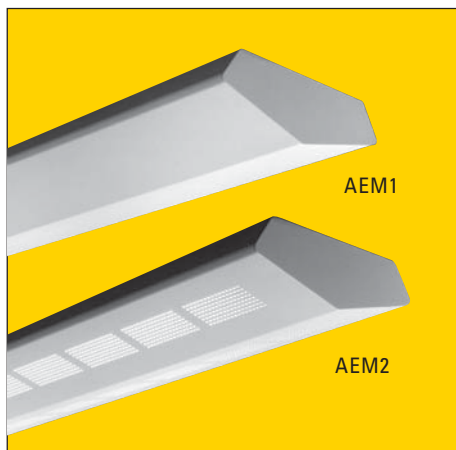
Ordering Information

Example: **CDS8 2 OPL U1 277 GEB10 C100 WAV**

Fixture	Lamps	Baffle options	Max. section length	Voltage	Ballast type ³	Finish	Options
CDS8 Sconce	1 2 Number of lamps in cross section.	OPL Straight blade baffle with low brightness diffuser (standard) OPI Straight blade baffle with intermediate brightness diffuser	U1 1' U2 2'	120 277	GEB10	C041 White (standard) C100 Natural aluminum Consult PeerLite Color Ordering Guide for other color options.	WAV Angle mount, vertical WAH Angle mount, horizontal

Peerlite Aero®

Peerlite®



Indirect or Indirect/Open

Intended Use

The Aero Series offers superior design and engineering in a choice of totally indirect or indirect/open fixtures, all of which meet stringent IES RP-1 standards for office lighting. Its angular lines and slim proportions complement any interior environment.

The Aero Series delivers advanced T5 high-output (HOT-5®) fixture technology, nearly doubling the lumen output of a T8 fixture.

Features

Contemporary, ultra-shallow, angular form.
Rugged, one-piece, cold-rolled steel construction.

Die-formed white reflector with minimum 85 percent reflectance.

Utilizes energy-efficient, T5 high-output lamps.

Choice of total indirect distribution or die-punched perforated hole pattern on underside, providing an appealing visual cue.

Electrical quick connectors facilitate installation and joining.

Fine textured white paint standard. Consult factory for special finish requirements.

HOT-5 luminaire technology significantly enhances the benefits of the T5 high output lamp.

Listings – UL Listed to US and Canadian safety standards.

Ordering Information

Example: **AEM2 2 54T5HO 12FT R8 277 GEB10 SCT L/LP F2/15 ACG**

Type	Rows and sections ¹	Ballast ²	Type of emergency sections ^{3,4}	Switching	Mounting/Suspension ⁵
AEM1 Indirect		GEB10	(blank) None	SCT Single circuit	F1/ T-bar ceiling 12, 15, 18 F2/ Hard ceiling 21, 24, ___* (horizontal j-box) F4A/ IDS clip, 15/16" tee F4B/ IDS clip, 9/16" tee F4C/ IDS clip, screw slot *Overall suspension, shown in inches. Custom length may be specified.
AEM2 Indirect/Open	<u> </u> FT R4		EL Emergency battery pack	DCT Dual circuit	
AEM2 CWIN Indirect/Open, continuous window	<u> </u> FT R8 <u> </u> FT R12		EC Emergency circuit/night-light circuit		
			EN Battery pack/night-light combination		
	Lamps	Voltage	No. of emergency sections³	Lamp color	Options
	1 54T5HO	120	(blank) None	L/LP No lamp	ACG Adjustable cable grippers
	2 54T5HO	277	1SE One section	LP830 3000°K, 80 + CRI	SPR Specular reflector
	Number of lamps in cross section and lamp type.		2SE Two sections	LP835 3500°K, 80 + CRI (standard)	ELH Emergency through-wire with separate feed ⁶
			_SE ___ sections*	LP841 4100°K, 80 + CRI	DU Dust cover
			* May specify up to number of fixture sections per run.		GMF Fusing, slow-blow
					GLR Fusing, fast-blow
					CMG Cord manager

LUMINAIRE CROSS SECTIONS (6" x 2" Nominal)

AEM1 – Indirect



AEM2 – Indirect/Open



NOTES:

- 1 Specify nominal row length in 4' increments. R4/R8/R12 indicates maximum length of section. Example: 40FT R12 is a 40' run with a 12' maximum section length.
- 2 GEB 10 = generic electronic ballast, <10% THD. Consult factory for dimming options.
- 3 Optional.
- 4 EL, EN and EC are installed in last 4' of fixture sections and are not available concurrently. Separate feed required for each EL or EC unless ELH option is specified.
- 5 Suspension length is measured from finished ceiling to bottom of fixture.
- 6 For single feed of all emergency or night-light sections in row from opposite end of normal power feed.



Intended Use

The Enzo Series complements any interior architecture with its diminutive elliptical shape and flawless textured finish. The Enzo Series offers superior design and engineering in a choice of totally indirect or indirect/open fixtures, all of which meet stringent IES RP-1 standards for office lighting.

The Enzo Series delivers advanced T5 high-output (HOT-5®) fixture technology, nearly doubling the lumen output of a T8 fixture.

Features

Contemporary, ultra-shallow, oval form.
Rugged, one-piece, cold-rolled steel construction.

Die-formed white reflector with minimum 85% reflectance.

Utilizes energy-efficient T5 high-output lamps.

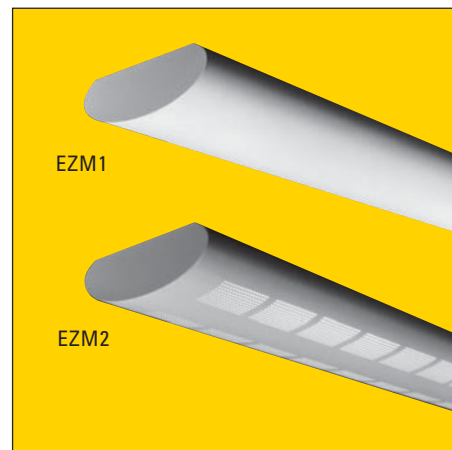
Choice of total indirect distribution or die-punched perforated hole pattern on underside providing an appealing visual cue.

Electrical quick connectors facilitate installation and joining.

Fine textured white paint standard. Consult factory for special finish requirements.

HOT-5 luminaire technology significantly enhances the benefits of the T5 high output lamp.

Listings – UL Listed to US and Canadian safety standards.



Ordering Information

Example: **EZM2 2 54T5HO 12FT R8 277 GEB10 SCT L/LP F1/24 ACG**

Type	Rows and sections ¹	Ballast ²	Type of emergency sections ^{3,4}	Switching	Mounting/Suspension ⁵
EZM1 Indirect	_FT R4	GEB10	(blank) None	SCT Single circuit	F1/ T-bar ceiling
EZM2 Indirect/Open	_FT R8		EL Emergency battery pack	DCT Dual circuit	F2/ Hard ceiling (horizontal j-box)
EZM2 CWIN Indirect/Open, continuous window	_FT R12		EC Emergency circuit/night-light circuit		F4A/ IDS clip, 15/16" tee
			EN Battery pack/night-light combination		F4B/ IDS clip, 9/16" tee
					F4C/ IDS clip, screw slot
					12, 15, 18, 21, 24, ___* * Overall suspension, shown in inches. Custom length may be specified.
Lamps	Voltage	No. of emergency sections ³	Lamp color	Options	
1 54T5HO	120	(blank) None	L/LP No lamp	ACG Adjustable cable grippers	
2 54T5HO	277	1SE One section	LP830 3000°K, 80 + CRI	SPR Specular reflector	
Number of lamps in cross section and lamp type.		2SE Two sections	LP835 3500°K, 80 + CRI (standard)	ELH Emergency through-wire with separate feed ⁶	
		_SE ___ sections*	LP841 4100°K, 80 + CRI	DU Dust cover	
		* May specify up to number of fixture sections per run.		GMF Fusing, slow-blow	
				GLR Fusing, fast-blow	

NOTES:

- Specify nominal row length in 4' increments. R4/R8/R12 indicates maximum length of section. Example: 40FT R12 is a 40' run with a 12' maximum section length.
- GEB10 = generic electronic ballast, <10% THD. Consult factory for dimming options.
- Optional.
- EL, EN and EC are installed in last 4' of fixture sections and are not available concurrently. Separate feed required for each EL or EC unless ELH option is specified.
- Suspension length is measured from finished ceiling to bottom of fixture.
- For single feed of all emergency or night-light sections in row from opposite end of normal power feed.

LUMINAIRE CROSS SECTIONS (6" x 2" Nominal)

EZM1 – Indirect

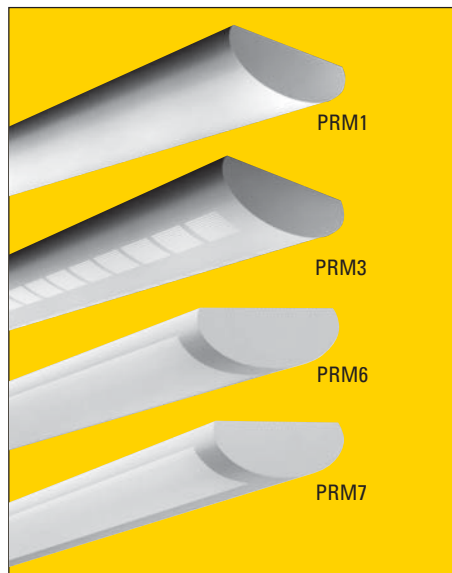


EZM2 – Indirect/Open



Prima®

Peerlite®



Indirect or Perforated

Intended Use

The Prima family offers superior design and engineering in a wide variety of low-cost fixtures. Designed to offer high-quality lighting for general office, school, and library installations.

All Prima fixtures share the same gracefully rounded shape and can be combined on the same project, providing an additional level of versatility where needs vary.

Features

Pure, low-profile oval form.

Rugged, one-piece, roll-formed, cold-rolled steel construction.

Choice of optical system – Indirect only, Indirect with Lightvent, Indirect/fully perforated or Indirect/partially perforated.

Die-formed white reflector system.

Electrical quick connectors facilitate installation and joining.

Fine textured white paint standard. Consult factory for special finish requirements.

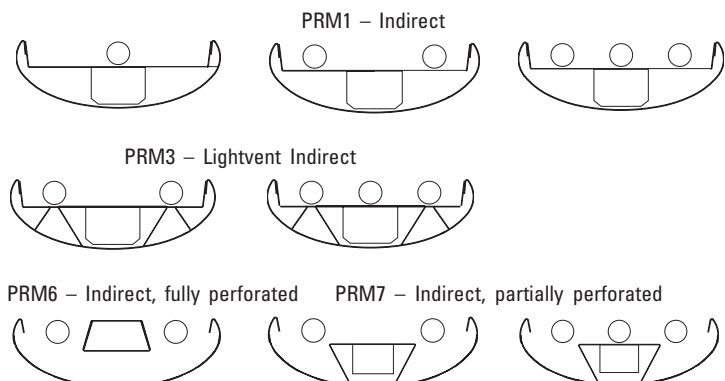
Listings – UL Listed to US and Canadian safety standards.

Ordering Information

Example: **PRM1 1 32 40FT R12 347 GEB 2SE EL SCT LP735 F1/24**

Type	Rows and sections ²	Ballast ³	Type of emergency sections ^{4,5}	Switching	Mounting/Suspension ⁶
PRM1 Indirect		GEB	(blank) None	SCT Single circuit	F1/ T-bar ceiling
PRM3 Lightvent Indirect	_FT R4	GEB10	EL Emergency battery pack	DCT Dual circuit	F2/ Hard ceiling (horizontal j-box)
PRM6 Indirect, fully perforated ¹	_FT R8		EC Emergency circuit/night-light circuit		F4A/ IDS clip, 15/16" tee
PRM7 Indirect, partially perforated ¹	_FT R12		EN Battery pack/night-light combination		F4B/ IDS clip, 9/16" tee
					F4C/ IDS clip, screw slot
					12, 15, 18, 21, 24, ___* *Overall suspension, shown in inches. Custom length may be specified.
Lamps ¹	Voltage	No. of emergency sections ⁴	Lamp color	Options	
1 32	120	(blank) None	L/LP No lamp	ACG Adjustable cable grippers	
2 32	277	1SE One section	LP730 3000°K, 70 + CRI	ELH Emergency through-wire with separate feed ⁷	
3 32	347	2SE Two sections	LP735 3500°K, 70 + CRI (standard)	DU Dust cover	
No. of lamps in cross section and lamp type.		_SE ___ sections*	LP741 4100°K, 70 + CRI	GMF Fusing, slow-blow	
		* May specify up to number of fixture sections per run.		GLR Fusing, fast-blow	
				CMG Cord manager	

LUMINAIRE CROSS SECTIONS (9" x 3" Nominal)



NOTES:

- PRM6 available for 2 lamps only. PRM3 and PRM7 available for 2 or 3 lamps only.
- Specify nominal row length in 4' increments. R4/R8/R12 indicates maximum length of section. Example: 40FT R12 is a 40' run with a 12' maximum section length.
- GEB = generic electronic ballast, <10% THD. GEB10 = generic electronic ballast, <20% THD. Consult factory for dimming options.
- Optional.
- EL, EN and EC are installed in last 4' of fixture sections and are not available concurrently. Separate feed required for each EL or EC unless ELH option is specified. EL not available in 347V.
- Suspension length is measured from finished ceiling to bottom of fixture.
- For single feed of all emergency or night-light sections in row from opposite end of normal power feed.

Intended Use

The Prima I/D provides excellent ceiling uniformity and visual comfort while adding the dimensionality that comes from a well controlled direct lighting component. Designed to offer high-quality lighting for general office, school and library installations.

All Prima fixtures share the same gracefully rounded shape and can be combined on the same project, providing an additional level of versatility where needs vary.

Features

Pure, low-profile oval form.

Rugged, one-piece, cold-rolled-steel construction.

Softshine® optical system provides uniform ceiling illumination, a well-controlled direct lighting component and remarkable

luminaire brightness control.

Easy-to-maintain Achroma® specular baffle finish provides precise light distribution while exhibiting a soft, uniform louver appearance.

Electrical quick connectors facilitate installation and joining.

Fine textured white paint standard. Consult factory for special finish requirements.

Listings – UL Listed to US and Canadian safety standards.



Ordering Information

Example: **PRM4 1 32 40FT R12 347 GEB 2SE EL SCT LP735 F1/24**

Type	Rows and sections ¹	Ballast ²	Type of emergency sections ^{3,4}	Switching	Mounting/Suspension ⁵
PRM4 Indirect/Direct	_FT R4 _FT R8 _FT R12	GEB GEB10	(blank) None EL Emergency battery pack EC Emergency circuit/night-light circuit EN Battery pack/night-light combination	SCT Single circuit DCT Dual circuit	F1/ T-bar ceiling F2/ Hard ceiling (horizontal j-box) F4A/ IDS clip, 15/16" tee F4B/ IDS clip, 9/16" tee F4C/ IDS clip, screw slot
					12, 15, 18, 21, 24, ___* * Overall suspension, shown in inches. Custom length may be specified.
Lamps	Voltage	No. of emergency sections ³	Lamp color	Options	
1 32 1 54T5HO 2 32 2 54T5HO 3 32	120 277 347	(blank) None 1SE One section 2SE Two sections _SE ___ sections*	L/LP No lamp LP730 3000°K, 70 + CRI LP735 3500°K, 70 + CRI (standard T8) LP741 4100°K, 70 + CRI LP830 3000°K, 80 + CRI LP835 3500°K, 80 + CRI (standard T5HO) LP841 4100°K, 80 + CRI	ACG Adjustable cable grippers SSB Semi-specular anodized baffle ELH Emergency through-wire with separate feed ⁶ DU Dust cover GMF Fusing, slow-blow GLR Fusing, fast-blow CMG Cord manager	

No. of lamps in cross section and lamp type.

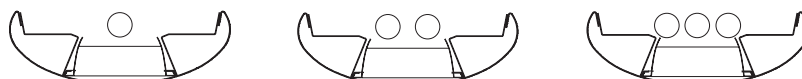
* May specify up to number of fixture sections per run.

NOTES:

- Specify nominal row length in 4' increments. R4/R8/R12 indicates maximum length of section. Example: 40FT R12 is a 40' run with a 12' maximum section length.
- GEB = generic electronic ballast, <10% THD. GEB10 = generic electronic ballast, <20% THD. Consult factory for dimming options.
- Optional.
- EL, EN and EC are installed in last 4' of fixture sections and are not available concurrently. Separate feed required for each EL or EC unless ELH option is specified. EL not available in 347V.
- Suspension length is measured from finished ceiling to bottom of fixture.
- For single feed of all emergency or night-light sections in row from opposite end of normal power feed.

LUMINAIRE CROSS SECTIONS (9" x 3" Nominal)

PRM4 – Indirect/Direct



HOT-5®

Peerlite®



Covelight

Intended Use

Peerlite HOT-5 cove lighting offers a compact, easy-to-install fixture that fits into smaller architectural cavities.

HOT-5 cove projects a wide distribution of illumination from fewer, smaller, higher-efficiency lamps, transforming a ceiling into a source of pure, diffuse light, virtually eliminating all hot spots and glare in the space.

Features

High-performance HOT-5 cove lighting system creates indirect ambient illumination from a concealed source.

Utilizes energy-efficient, T5 high-output lamps.

Die-formed white reflector and micro-pris-

matic specular acrylic diffusing lens provide uniform ceiling illumination, superior visual comfort and remarkably high light levels at the work plane.

Ultra-shallow depth permits use in narrow architectural cavities.

Rugged, one-piece, cold-rolled steel-housing.

HOT-5 luminaire technology significantly enhances the benefits of the T5 high output lamp.

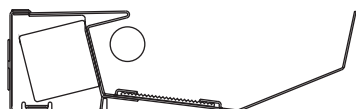
Listings – UL Listed to US and Canadian safety standards.

Ordering Information

Example: **HCM5 1 54T5HO U8 277 GEB10 LP835**

Type	Lamps	Nominal Luminaire Length ¹	Voltage	Ballast ²	Type of emergency sections ^{3,4}	Lamp color	Options
HCM5 Cove	1 24T5HO 1 39T5HO 1 54T5HO 1 54T5HO	U2 2' U3 3' U4 4' U8 8'	120 277	GEB10	(blank) None EL Emergency battery pack EC Emergency circuit/night-light circuit EN Battery pack/night-light combination	L/LP No lamp LP830 3000°K, 80 + CRI LP835 3500°K, 80 + CRI (standard) LP841 4100°K, 80 + CRI	ELH Emergency through-wire with separate feed ⁵ DU Dust cover GMF Fusing, slow-blow GLR Fusing, fast-blow

LUMINAIRE CROSS SECTION (6" x 2" Nominal)



NOTES:

- Actual length of 4' nominal fixture is 46 1/2" and 8' nominal fixture is 93". Consult factory for availability of 2' and 3' nominal luminaires.
- GEB10 = generic electronic ballast, <10% THD. Consult factory for dimming options.
- Optional.
- EL and EC not available concurrently.
- For single feed of all emergency or night-light sections in row from opposite end of normal power feed.





All Peerless and Peerlite modular luminaires utilize this easy mounting system. Shown below is a representative installation guide. Mounting instructions for specific products are included with each luminaire and also may be ordered through your Lithonia Lighting sales representative.

Mount on the grid...

1. Insert 1/4-20 x 3/4" bolt* into bracket A (#MP-1997).
2. Hook bracket A onto T-bar.
3. Hook bracket B (#MP-1996) onto bracket A. Screw brackets together. Secure bracket assembly to structure above.

...or off the grid

1. Insert 1/4-20 x 3/4" bolt* into bracket A (#MP-1997).
* For special ceiling systems, may need to use 1/4-20 x 1" bolt (by others).
2. Hook bracket B (#MP-1996) onto bracket A. Secure with 1/4-20 hex nut. Do not tighten.
3. Attach brackets to hanger bar. Screw brackets together. Secure bracket assembly to structure above.

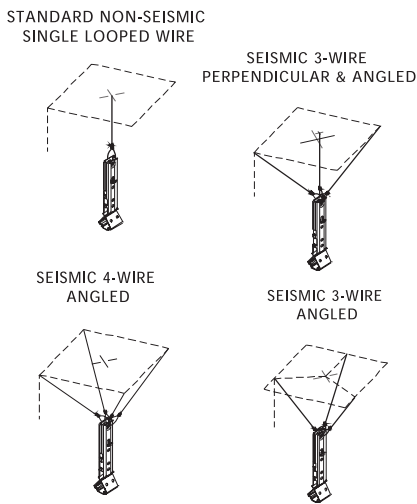
Create support locations

1. Place 2" canopy flush with ceiling tile.
2. Thread upper cable retainer onto 1/4-20 bolt.

Create feed locations

1. Attach bushing and Greenfield connector to J-box.
2. Hang J-box on bracket tab.
3. Screw J-box to bracket assembly.
4. Insert feed cord through Greenfield connector and into J-box; attach strain relief.
5. Place canopy flush with ceiling tile.
6. Thread upper cable retainer onto 1/4-20 bolt.

Secure the structure



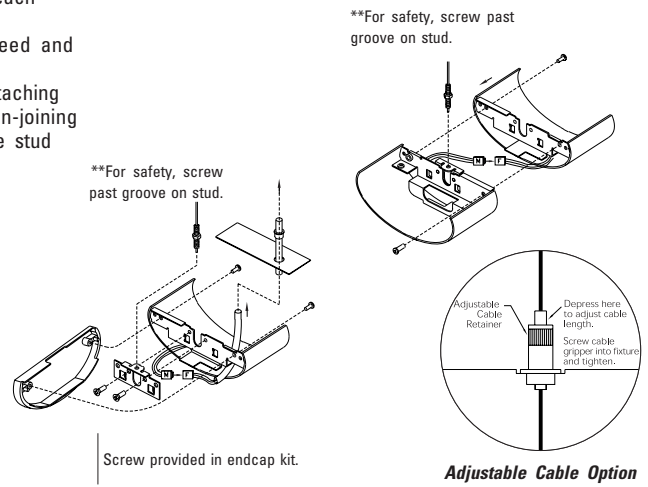
All top-mounting brackets must be secured to the building structure. Shown are standard support configurations. Check with your local code authority as to which applies to your specific application.

IMPORTANT NOTE:
Always use UBC-approved-gauge wire.

Hang and join the fixtures

- Note: Hang fixtures prior to joining.
- Hanging a run
1. Attach hanger brackets (included in mounting kits) onto each end of first fixture section.*
 2. Screw cable stud into each hanger.**
 3. Quick-connect power feed and insert through fixture.
 4. Hang next fixture by attaching mounting bracket to non-joining end and screwing cable stud into hanger bracket.

* Note: Hanger bracket at end(s) of complete run must be secured with screw provided in endcap kit.



Note: Hang fixtures prior to joining.

- Joining the fixtures
1. After hanging fixtures, attach quick-connects.
 2. Align fixture tabs.
 3. Bolt fixtures together.

DECORATIVE FLUORESCENT

Decorative Fluorescent

Lithonia Lighting is the industry leader in attractive, affordable, energy-efficient decorative lighting.

The decorative line includes a comprehensive selection of models, ranging from rich solid oak frames to durable steel with various styles of acrylic diffusers. Many styles are suitable for both residential and light commercial use. A variety of fluorescent lamps and ballast options is available.





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Metro Series

Perforated Aluminum Diffusers

Intended Use

Innovative design that provides general illumination in residential and light commercial applications.

Features

Unique light source from a distinctly attractive fixture.

Creates soft, ambient light while providing soft, non-glare downlight through a con-

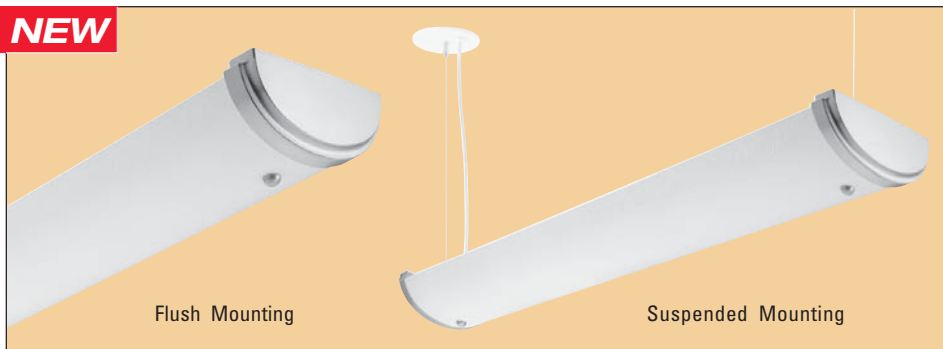
temporary, perforated white aluminum diffuser.

Can be suspended or mounted flush to ceiling.

Cable suspension kit included with fixture.

Standard with residential-grade electronic ballast (RE).

NEW



Ordering Information

Example: **11722RE**

Model number		Ballast	Voltage	Options	
11722	2 lamps, 17W T8 (24") ¹	RE Residential grade electronic T8 (standard)	(blank) 120V	CSA CSA Certified	NOM NOM Certified
11742	4 lamps, 32W T8 (48") ¹		277 277V		
			347 347V		

NOTES:

¹ Lamps not included.

Availability and Dimensions

Nominal size	Model number	Number of lamps	Width in. (cm)	Depth* in. (cm)	Length in. (cm)
1x2	11722	2	7 ⁷ / ₈ (20.0)	24 ¹ / ₂ (62.2)	3 ¹ / ₂ (8.9)
1x4	11742	2	7 ⁷ / ₈ (20.0)	48 ¹ / ₂ (123.2)	3 ¹ / ₂ (8.9)

* Depth of fixture from ceiling.

Sculptured Frames

Ceiling Mount

Sculpture Series

Intended Use

Innovative platform that provides general illumination in residential and light commercial applications.

Features

Frames available in choice of sculptured shapes.

Universal, one-size housing for all frames.

Provides direct and indirect lighting.

Channel cover hinges down for easy wiring during installation.

Housing and frame packaged separately for protection during shipment.

UL Listed (standard). CSA Certified or NOM Certified (see Options).



Ordering Information

Example: **SCS RDOAK 3CF40**

Series	Decorative frame ¹	Housing ^{2,3}	Voltage	Options
SCS Sculpture Series	RDOAK Classic Round, oak finish RDWH Classic Round, white finish RTWH Modern Rectangular, white finish OVWH Deco Oval, white finish OVCH Deco Oval, cherry finish OVMS Deco Oval, metallic silver finish	3CF40	(blank) 120V 277 277V 347 347V	CSA CSA Certified NOM NOM Certified Consult factory for other options and accessories.

NOTE: Ordering information above is for **complete fixtures**, consisting of *decorative frame/diffuser* and *universal housing*.

To order **decorative frame/diffuser only**, omit the housing component from the catalog number.

Example: **SCS RDOAK**.

To order **housing only**, omit the frame component from the catalog number.

Example: **SCS 3CF40**.

Decorative frame and housing are packaged and **shipped separately** for protection.

Availability and Dimensions

Model	Number of lamps	Lamp type	Width in. (cm)	Length in. (cm)	Depth* in. (cm)
SCS RDOAK	–	–	35 (88.9) dia.		5 (12.7)
SCS RDWH	–	–	29 (73.7)		5 (12.7)
SCS RTWH	–	–	32½ (82.6)	40½ (102.9)	6¼ (15.9)
SCS OVWH	–	–	21½ (54.6)		(Note 4)
SCS OVCH	–	–	21½ (54.6)		(Note 4)
SCS OVMS	–	–	21½ (54.6)		(Note 4)
SCS 3CF40	3	CF40	16¾ (42.6)	21½ (54.6)	(Note 4)

* Depth of fixture from ceiling.

NOTES:

- Lamps included.**
- 2'x2' universal housing. Accepts three 40W TT5 lamps (24").
- Housing is 1" (27.8 cm) deep without the trapeze bars installed. Edge of trim starts approximately 2" (50.8 cm) from the ceiling.

Designer Series

Premium Solid Oak Frames

Intended Use

Provides general illumination in residential and light commercial applications.

Features

Models available in oak wood frame with a light oak finish.

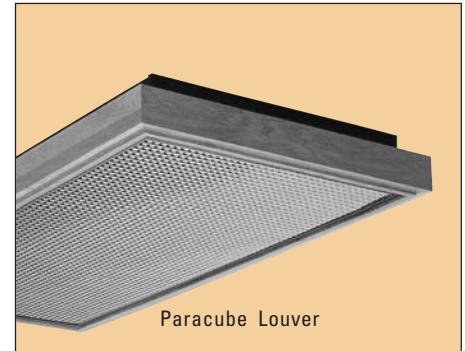
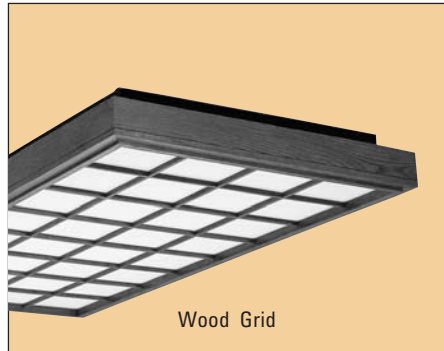
Choice of matte white, flat acrylic diffuser; flat acrylic with wood grid; or 1/2" plastic cube louvers in gold or silver. Diffuser is separate from frame.

Low-brightness, high-efficiency plastic cube louvers provide precise light control.

Wood frames mitered and splined at corners for a clean, finished appearance. Housing and frame packaged separately for protection during shipment.

Offset mounting gives floating frame appearance. No upright.

UL Listed (standard). CSA Certified or NOM Certified (see Options).



Ordering Information

Example: **SW01424 ES**

Series	Fixture size	Number of lamps ¹	Wattage designation	Lamp type ¹	Voltage	Options ³
SWO Solid oak, flat diffuser				(blank) 40W T12 (48") or 40W T12-U (6" leg) ²	(blank) 120V	CSA CSA Certified
GWO Solid oak, wood grid	14 1'x4'	2	2 17W or 20W lamps	17 17W T8 (24")	277 277V	NOM NOM Certified
WLOG Solid oak, gold paracube louver	22 2'x2'	3		20 20W T12 TS (24")	347 347V	See page 163 for ballasts and other options and accessories.
WLOS Solid oak, silver paracube louver	24 2'x4'	4	4 U31, U316, 32, 40, U40 or CF40 lamps	U31 31W T8-U (24", 1 5/8" leg)		
	44 4'x4'	6		U316 31W T8-U (24", 6" leg)		
		8		32 32W T8 (48")		
				U403 40W T12-U (3 5/8" leg)		
				CF40 40W TT5 (24")		

- NOTES:
 1 Lamps not included.
 2 Not available on 3-lamp fixtures. Use U31 or U403.
 3 For white ballast housing, add suffix "WH" to nomenclature.

Decorative frame and housing are packaged and **shipped separately** for protection.

Availability and Dimensions

Nominal size	Series	Number of lamps	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
1x4	SWO, GWO WLOG, WLOS	2, 3	32, 40	15 (38.1)	5 (12.7)	51 1/8 (129.9)
2x2	SWO, GWO WLOS	2 3 4	17, 20, U31, U316, U40, CF40, U403 17, 20, U31, CF 40 17, 20	27 (68.6)	5 (12.7)	26 1/8 (66.4)
2x4	SWO, GWO WLOG, WLOS	2, 3, 4	32, 40	27 (68.8)	5 (12.7)	51 1/8 (129.9)
4x4	SWO, GWO WLOG, WLOS	4, 6, 8	32, 40	51 (129.5)	5 (12.7)	51 1/8 (129.9)

Intended Use

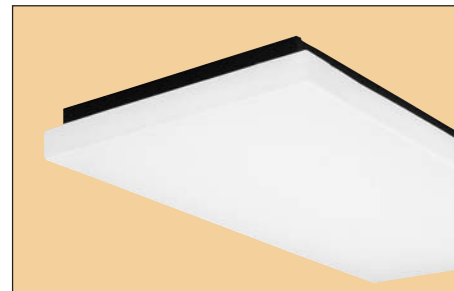
Provides general illumination in residential and light commercial applications.

UL Listed (standard). CSA Certified or NOM Certified (see options).

Features

One-piece, matte white, molded acrylic diffuser.

Exterior of housing is finished with white or semi-gloss black enamel to provide a floating appearance.



Ordering Information

Example: **MP2224**

Series	Fixture size	Number of lamps ¹	Wattage designation	Lamp type ¹	Voltage	Options
MP Molded acrylic	14 1'x4'	2	2 17W or 20W	(blank) 40W T12 (48") or 40W T12-U (6"leg)	(blank) 120V	CSA CSA Certified NOM NOM Certified See page 163 for ballasts and other options and accessories.
	22 2'x2'	4	4 U31, U316, 32, 40, U40 or CF40	17 17W T8 (24")	277 277V	
	24 2'x4'	6		20 20W T12 TS (24")	347 347V	
	44 4'x4'	8		U31 31W T8-U (24", 1 5/8" leg)		
				U316 31W T8-U (24", 6" leg)		
				32 32W T8 (48")		
				U403 40W T12-U (3 5/8" leg)		
				CF40 40W TT5 (24")		

NOTES:

- Lamps not included.**
- For white ballast housing add "WH" suffix to the nomenclature.

Availability and Dimensions

Nominal size	Series	Width in. (cm)	Depth in. (cm)	Length in. (cm)	Number of lamps	Lamp type
1x4	MP	14 1/2 (36.8)	6 1/2 (16.5)	51 (129.5)	2, 3	32, 40
2x2	MP	26 (66.0)	6 1/2 (16.5)	27 1/2 (69.9)	2	17, 20, U31, U316, U40, CF40, U403
					3	17, 20, U31, CF40
2x4	MP	26 (66.0)	6 1/2 (16.5)	51 (129.5)	2, 3, 4	32, 40
4x4	MP	49 1/2 (125.7)	4 1/4 (10.8)	50 (127.0)	4, 6, 8	32, 40

Decorative frame and housing are packaged and **shipped separately** for protection.

One-Piece Contoured Diffusers



Intended Use

Provides general illumination in residential and light commercial applications.

UL Listed (standard). CSA Certified or NOM Certified (see Options).

Features

White acrylic lens lifts and shifts off housing for easy maintenance.

Creates soft, uniform illumination, presenting a cloud-like appearance.

Ordering Information

Example: **CL2224 ES**

Series	Fixture size	Number of lamps ¹	Wattage designation	Lamp type ¹	Voltage	Options
CL Lumina	14 1'x4'	2	2 17W or 20W lamps	(blank) 40W T12 (48") or 40 W T12-U (6" leg)	(blank) 120V	CSA CSA Certified NOM NOM Certified <small>See page 163 for ballasts and other options and accessories.</small>
	22 2'x2'	3	4 U31, U316, 32, 40, U40 or CF40 lamps	17 17W T8 (24")	277 277V	
	24 2'x4'	4		20 20W T12 TS (24")	347 347V	
	48 4'x4'	8		U31 31W T8-U (24", 1 5/8" leg) U316 31W T8-U (24", 6" leg) 32 32W T8 (48") U403 40W T12-U (3 5/8" leg) CF40 40W TT5 (24")		

NOTES:
 1 Lamps not included.
 2 For white ballast housing, add suffix "WH" to nomenclature.

Availability and Dimensions

Nominal size	Series	Width in. (cm)	Depth in. (cm)	Length in. (cm)	Number of lamps	Lamp type
1x4	CL	14 1/2 (36.8)	6 1/2 (16.5)	51 (129.5)	2	32, 40
2x2	CL	26 (66.0)	6 1/2 (16.5)	27 1/2 (69.9)	2	17, 20, U31, U316, U40, CF40, U403
					3	17, 20, U31, CF40
2x4	CL	26 (66.0)	6 1/2 (16.5)	51 (129.5)	4	17, 20
					2, 3, 4	32, 40
4x4	CL	49 1/2 (125.7)	6 1/2 (16.5)	50 (127.0)	4, 6, 8	32, 40

Decorative frame and housing are packaged and **shipped separately** for protection.

Molded Frames and Diffusers

Intended Use

Provides general illumination in residential and light commercial applications. Ideal for use in kitchens, office, utility areas or closets.

Features

Very low profile with white acrylic diffuser for uniform illumination.

Standard with residential-grade electronic ballast (RE).

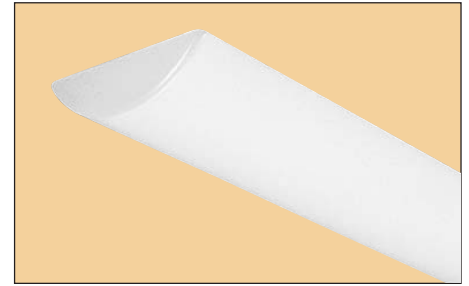
Clip-on lens for easy access and maintenance.

Utilizes T8 lamps for trim appearance, energy efficiency, superior color rendering and long life.

UL Listed (standard). CSA Certified or NOM Certified (see Options).

Ceiling Mount

Cirrus®



Example: **11604RE**

Ordering Information

Model number	Ballast	Voltage	Options
11602 2 lamps, 32W T8 (48") ¹	(Blank) Residential grade magnetic T12 (unless other ballast is specified in Options)	(blank) 120V 277 277V 347 347V	CSA CSA Certified NOM NOM Certified
11604 4 lamps, 32W T8 (48") ¹	RE Residential grade electronic T8 (standard)		See page 163 for ballasts and other options and accessories.

Availability and Dimensions

Nominal size	Model number	Number of lamps	Width in. (cm)	Depth in. (cm)	Length in. (cm)
1x4	11602	2	9 ³ / ₄ (24.8)	3 ¹ / ₂ (8.9)	48 ¹ / ₂ (123.1)
2x4	11604	4	9 ³ / ₄ (24.8)	3 ¹ / ₂ (8.9)	48 ¹ / ₂ (123.1)

NOTES:

¹ Lamps not included.

One-Piece Contoured Diffusers

Intended Use

Provides general illumination in residential and light commercial applications. Ideal for use in kitchens, office, utility areas or closets.

Features

Sleek contoured diffuser of durable white acrylic provides soft lighting.

Standard with residential-grade electronic T8 ballast (RE).

Diffuser hinges from either side for easy relamping and maintenance.

UL Listed (standard). CSA Certified or NOM Certified (see Options).

Litepuff®



Example: **10640 277**

Ordering Information

Model number	Ballast	Lamp type (non-RE ballast only) ²	Voltage	Options
10640 2 lamps ¹	(Blank) Residential grade magnetic T12 (unless other ballast is specified in Options)	(blank) 40W T12 (48") or 40W T12-U (24")	(blank) 120V 277 277V 347 347V	CSA CSA Certified. NOM NOM Certified.
10641 4 lamps ¹	RE Residential grade electronic T8 (standard) ²	32 32W T8 (48")		See page 163 for ballasts and other options and accessories.
10642 4 lamps ¹		U31 31W T8-U (24", 1 ⁵ / ₈ " leg) ³		
10651 2 U-lamps ^{1,4}		U316 31W T8-U (24", 6" leg) ³		
		U403 40W T12-U (24", 3 ⁵ / ₈ " leg)		

Availability and Dimensions

Nominal size	Model number	Number of lamps	Width in. (cm)	Depth in. (cm)	Length in. (cm)
1x4	10640	2	11 ¹ / ₄ (28.6)	5 ³ / ₈ (13.7)	51 ¹ / ₂ (130.8)
1 ¹ / ₂ x2	10641	4	16 ⁵ / ₈ (42.2)	5 ³ / ₈ (13.7)	27 ¹ / ₂ (69.9)
2x2	10651	2	26 (66.0)	4 ¹ / ₂ (11.4)	27 ¹ / ₂ (69.9)
1 ¹ / ₂ x4	10642	4	16 ⁵ / ₈ (42.2)	5 ³ / ₈ (13.7)	51 ¹ / ₂ (130.8)

NOTES:

¹ Lamps not included.

² RE fixtures use 32W T8 lamps. No designation for Lamp Type is required in the catalog number.

³ Only available with 2x2 fixtures.

⁴ Lamp configuration for RE 2x2 fixtures is standard U316.

Velegant

Contoured Acrylic Diffusers

Intended Use

Provides general illumination in residential and light commercial applications. Ideal for use in kitchens, office, utility areas or closets.

Features

High-end look without high-end price.
 Sleek, contoured design to complement any decor.
 Faux marble insert available in white or taupe.
 Decorative finials available in brass or brushed nickel.
 Standard with residential-grade electronic ballast (RE).



Ordering Information

Example: **11692RE FMT**

Model number	Ballast (Linear only)	Finish	Voltage	Options
<u>Linear</u> 11690 1'x4', 2-32W T8 lamps ¹ 11692 1'x2', 2-17W T8 lamps ¹ 11691 1½'x4', 4-32W T8 lamps ¹	RE Residential grade electronic T8 (standard)	(Blank) White with nickel finial FMT Taupe with brass finial ²	(blank) 120V	CSA CSA Certified NOM NOM Certified
<u>Circline</u> FMVL 54 17" dia., two T9 lamps ¹ (1-22W & 1-32W) FMVL 72 21" dia., two T9 lamps ¹ (1-32W & 1-40W)				

NOTES:
 1 Lamps not included.
 2 Not available on circline models.

Availability and Dimensions					
Nominal size	Model number	Number of lamps	Width in. (cm)	Depth in. (cm)	Length in. (cm)
1x2	11690	2	12 (30.5)	3 ⁷ / ₈ (9.8)	31 ³ / ₄ (80.6)
1x4	11692	2	12 (30.5)	3 ⁷ / ₈ (9.8)	55 ³ / ₄ (141.6)
1½'x4	11691	4	14 (35.6)	4 ³ / ₈ (11.1)	56 ¹ / ₈ (142.6)
17" dia.	FMVL 54	2	17 ¹ / ₄ (43.8) dia.	4 ⁷ / ₈ (10.5)	
21" dia.	FMVL 72	2	21 (53.3) dia.	5 ³ / ₈ (13.7)	

Cambridge

Intended Use

Provides general illumination in residential and light commercial applications. Ideal for use in kitchens, office, utility areas or closets.

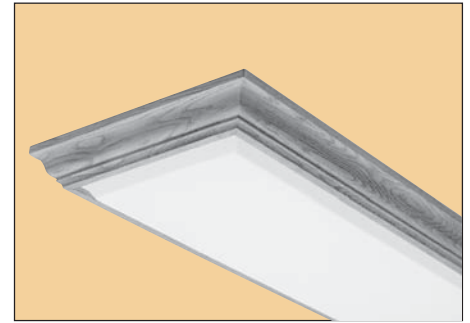
Features

Crown molding frame is solid wood. Acrylic diffuser provides widespread, uniform illumination.

Available in finished oak, unfinished oak, white and maple.

Unique flush mount system utilizes lift/shift diffuser to eliminate light leaks.

UL Listed (standard). CSA Certified or NOM Certified (see options).



Example: 11430 ES

Ordering Information

Model number		Finish	Lamp type ¹	Voltage	Options
11430	1'x4', 2 lamps ¹	OA Oak	(blank) 40W T12 (48") or 40W T12-U (24")	(blank) 120V	CSA CSA Certified
11431	2'x2', 2 U-lamps ^{1,4}	UNFIN Unfinished	32 32W T8 (48")	277 277V	NOM NOM Certified
11432	1½'x4', 4 lamps ¹	WH White	U31 31W T8-U (1½" leg) ³	347 347V	
		MA Maple	U316 31W T8-U (6" leg) ³		
			U403 40W T12-U (3¾" leg) ³		
Ballast					
	(Blank)	Residential grade magnetic T12 (unless other ballast is specified in Options)			
	RE	Residential grade electronic T8 (standard) ²			

See page 163 for ballasts and other options and accessories.

NOTES:

- Lamps not included.**
- RE fixtures use 32W T8 lamps. No designation for Lamp Type is required in the catalog number.
- Only available with 2x2 fixtures.
- Lamp configuration for RE 2x2 fixtures is standard U316.

Availability and Dimensions

Nominal size	Model number	Number of lamps	Width in. (cm)	Depth in. (cm)	Length in. (cm)
1x4	11430	2	15½ (39.4)	4½ (10.5)	53½ (134.9)
2x2	11431	2	29 (73.6)	4½ (10.5)	29 (73.6)
1½x4	11432	4	20¾ (53.0)	4½ (10.5)	53½ (134.9)

Old English®

Solid Wood Frames

Intended Use

Provides general illumination in residential and light commercial applications. Ideal for use in kitchens, office, utility areas or closets.

Features

Solid wood frame with white acrylic dropped dish diffuser available in oak,

unfinished or white.

Solid wood frame with flat lens with integral wood grid available in oak or white.

Bracket and single screw frame design provides one person frame removal for easy maintenance.

Standard with residential-grade electronic T8 ballast (RE).

UL Listed (standard). CSA Certified or NOM Certified (see options).



Ordering Information

Example: **11287 ES**

Model number	Finish	Lamp type ¹	Voltage	Options
Dropped Diffuser				
11287 1'x4', 2 lamps ¹	OA Oak	(blank) 40W T12 (48" or 40W T12-U (24")	(blank) 120V	CSA CSA Certified
11288 2'x2', 2 U-lamps ^{1,5}	UNFIN Unfinished ³	32 32W T8 (48")	277 277V	NOM NOM Certified
11289 1½'x4', 4 lamps ¹	WH White	U31 31W T8-U (1½" leg) ⁴	347 347V	See page 163 for ballasts and other options and accessories.
Oak Grid				
11291 1'x4', 2 lamps ¹		U316 31W T8-U (6" leg) ⁴		
11292 2'x2', 2 U-lamps ^{1,2}		U403 40W T12-U (3½" leg) ⁴		
11293 1½'x4', 4 lamps ¹				
	Ballast			
	(Blank) Residential grade magnetic T12 (unless other ballast is specified in Options)			
	RE Residential grade electronic T8 (standard) ²			

NOTES:

- Lamps not included.
- RE fixtures use 32W T8 lamps. No designation for Lamp Type is required in the catalog number.
- Oak Grid models not available unfinished.
- Only available with 2x2 fixtures.
- Lamp configuration for RE 2x2 fixtures is standard U316.

Availability and Dimensions

Nominal size	Model number	Number of lamps	Width in. (cm)	Depth in. (cm)	Length in. (cm)
1x4	11287	2	11 ³ / ₈ (28.9)	4 ³ / ₈ (11.1)	49 ¹ / ₈ (124.8)
	11291	2	11 ³ / ₈ (28.9)	3 ³ / ₈ (8.6)	49 ⁵ / ₁₆ (125.3)
2x2	11288	2	24 ⁷ / ₈ (63.2)	4 ³ / ₈ (11.1)	24 ⁷ / ₈ (63.2)
	11292	2	24 ⁷ / ₈ (63.2)	3 ³ / ₈ (8.6)	24 ⁷ / ₈ (63.2)
1½x4	11289	4	16 ³ / ₄ (42.5)	4 ³ / ₈ (11.1)	49 ¹ / ₈ (124.8)
	11293	4	16 ³ / ₄ (42.5)	3 ³ / ₈ (8.6)	49 ⁵ / ₁₆ (125.3)

Intended Use

Provides general illumination in residential and light commercial applications. Ideal for use in kitchens, office, utility areas or closets.

Features

Contemporary design with a white acrylic lens.

Oval and Round models available in hi-gloss white and light oak.

Rectangular solid wood frame available in hi-gloss white.

Oval and Rectangular standard with residential-grade electronic T8 ballast (RE).

UL Listed (standard). CSA Certified or NOM Certified (see options).



Ordering Information

Example: **11501 ES**

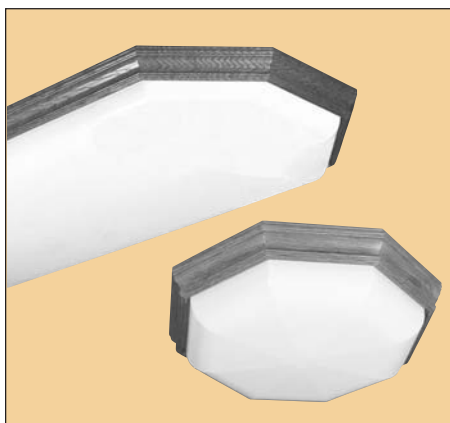
Model number	Finish	Lamp type ^{1,3}	Voltage	Options
Rectangular (straight lamps)¹	OA Light Oak (<i>specify for Oval only</i>)	(blank) 40W T12 (48") or 20W T12 (24") ⁴	(blank) 120V	CSA CSA Certified
11501 1½'x4', 2 lamps, (White finish only)	WH White (<i>Must specify for Rectangular. Omit for Round.</i>)	17 17W T8 (24")	277 277V	NOM NOM Certified
11503 2'x2', 2 U-lamps ⁵ , (White finish only)		32 32W T8 (48")	347 347V	See page 164 for ballasts and other options and accessories.
11505 2'x4', 4 lamps, (White finish only)		316/25 2-U316 & one 25W ⁴ (<i>Oval models only</i>)		
Oval (straight lamps)¹	Ballast (Linear only)			
11483 1½'x4', 3 lamps	(Blank) Residential grade magnetic T12 (unless other ballast is specified in Options)			
11498 1'x4', 2 lamps	RE Residential grade electronic T8 (standard). ² <i>N/A Round models.</i>			
Round (circline lamps)¹				
10810 27" dia., 22/32W lamps, Light Oak finish				
10811 27" dia., 22/32W lamps, White finish				
10805 31" dia., 32/40W lamps, Light Oak finish				
10806 31" dia., 32/40W lamps, White finish				

Nominal size	Model number	Number of lamps	Width in. (cm)	Depth in. (cm)	Length in. (cm)
1½x4	11501	2	16¾ (41.6)	3¾ (9.5)	57½ (146.1)
2x2	11503	4	28 (71.1)	4 (10.2)	35½ (90.2)
2x4	11505	4	28 (71.1)	4 (10.2)	59½ (151.1)
1x4	11498	2	16 (40.6)	4½ (11.4)	60 (152.4)
1½x4	11483	3	25 (63.5)	5½ (15.2)	57 (144.8)
27" dia.	10810, 10811	1	27 (68.6) dia.	5½ (15.2)	
31" dia.	10805, 10806	2	31 (78.7) dia.	5½ (15.2)	

NOTES:

- Lamps not included.**
- RE fixtures use 32W T8 lamps. No designation for Lamp Type is required in the catalog number.
- Do not specify for circline models.
- Lamp configuration for 3-lamp fixtures.
- Lamp configuration for RE 2x2 fixtures is standard U316.

Octa-Traditional®



Molded Frames and Diffusers

Intended Use

Provides general illumination in residential and light commercial applications. Ideal for use in kitchens, office, utility areas or closets.

Features

Eight-sided flush mounted fixture with molded frame and white acrylic diffuser.

Solid wood construction available in light oak or white.

Diffuser lifts out without removing frame for easy maintenance.

Rectangular models standard with residential-grade electronic T8 ballast (RE).

UL Listed (standard). CSA Certified or NOM Certified (see options).

Ordering Information

Example: **11495 ES**

Model number	Finish*	Lamp type ¹	Voltage	Options
Rectangular (straight lamps)¹				
11490 4 lamps, 32W T8 (48")	OA Light Oak	(blank) 40W T12 (48")	(blank) 120V	CSA CSA Certified
11495 2 lamps, 32W T8 (48")	WH White	32 32W T8 (48")	277 277V	NOM NOM Certified
* Omit for Round				
Round (circline lamps)¹				
FMOTOA 54 22/32W lamps, Light Oak finish	Ballast (Linear only)			
FMOTWH 54 22/32W lamps, White finish	(blank) Residential grade magnetic T12 (unless other ballast is specified in Options)			
FMOTOA 72 32/40W lamps, Light Oak finish	RE Residential grade electronic T8 (standard). ²			
FMOTWH 72 32/40W lamps, White finish	<i>N/A Round models.</i>			

See page 163 for ballasts and other options and accessories.

NOTES:

- Lamps not included.
- RE fixtures use 32W T8 lamps. No designation for Lamp Type is required in the catalog number.

Availability and Dimensions

Nominal Size	Model number	Number of lamps	Width in. (cm)	Depth in. (cm)	Length in. (cm)
1½x4	11495, 11496	2	15½ (39.4)	5 (12.7)	52¾ (134.0)
2x4	11490, 11497	4	24⅞ (63.2)	5 (12.7)	56⅞ (144.5)
16" dia.	FMOTOA 54, FMOTWH 54	2	15½ (39.4)	5 (12.7)	–
20" dia.	FMOTOA 72, FMOTWH 72	2	19½ (49.5)	5 (12.7)	–

Dura-Steel

Intended Use

Provides general illumination in residential and light commercial applications. Ideal for use in kitchens, office, utility areas or closets.

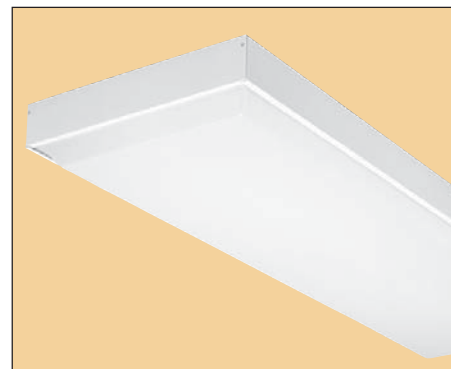
Features

Versatile steel fixture with a dropped dish diffuser.

Economical and energy efficient.

Standard with residential-grade electronic T8 ballast (RE).

UL Listed (standard). CSA Certified or NOM Certified (see options).



Ordering Information

Example: **11232 ES**

Model number	Finish	Lamp type ¹	Voltage	Options
11231 1'x2', 2 lamps ¹	WH White	(blank) 40W T12 (48") or 40W T12-U (24")	(blank) 120V	CSA CSA Certified
11232 1'x4', 2 lamps ¹	PB Polished brass	32 32W T8 (48")	277 277V	NOM NOM Certified
11233 1½'x4', 4 lamps ¹		U31 31W T8-U (1½" leg) ³	347 347V	See page 163 for ballasts and other options and accessories.
11235 2'x2', 2 U-lamps ^{1,4}		U316 31W T8-U (6" leg) ³		
		U403 40W T12-U (3½" leg)		
	Ballast			
	(blank) Residential grade magnetic T12 (unless other ballast is specified in Options)			
	RE Residential grade electronic T8 (standard) ²			

NOTES:

- 1 Lamps not included.
- 2 RE fixtures use 32W T8 lamps. No designation for Lamp Type is required in the catalog number.
- 3 Only available with 2x2 fixtures.
- 4 Lamp configuration for RE 2x2 fixtures is standard U316.

Availability and Dimensions

Nominal size	Model number	Number of Lamps	Width in.(cm)	Depth in.(cm)	Length in.(cm)
1x2	11231	2	10½ (26.7)	4 (10.2)	24 (61.0)
1x4	11232	2	10½ (26.7)	4 (10.2)	48 (121.9)
2x2	11235	2	24 (61.0)	4 (10.2)	24 (61.0)
1½x4	11233	4	16 (40.6)	4 (10.2)	48 (121.9)

Wraparounds

Solid Oak Frames

Intended Use

Provides general illumination in residential and light commercial applications. Ideal for use in kitchens, office, utility areas or closets.

Features

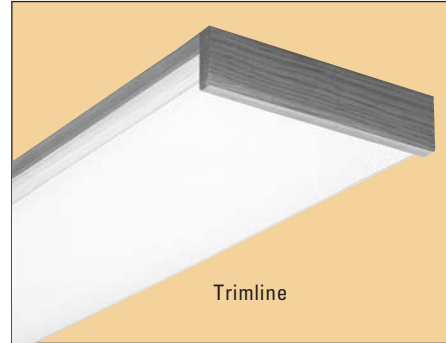
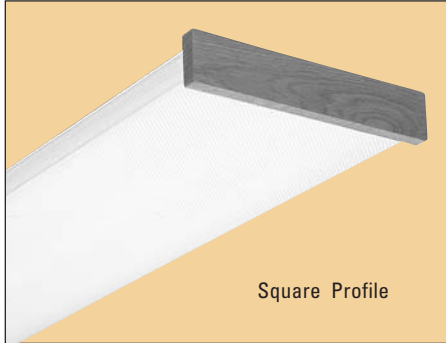
Durable, non-yellowing wraparound diffuser with choice of white acrylic or prismatic lens.

Square Profile models feature with solid oak ends. Trimline models feature solid oak ends and side rails.

Standard with residential-grade electronic T8 ballast (RE).

See companion vanity wall brackets, page 161.

UL Listed (standard). CSA Certified or NOM Certified (see options).



Ordering Information

Example: **10652RE OA**

Model number	Ballast	Diffuser	Lamp type ¹	Voltage	Options
Trimline	(blank) Residential grade magnetic T12 (unless other ballast is specified in Options)	(blank) Clear lens ACW White lens	(blank) 40W T12 (48") or 40W T12-U (24") 32 32W T8 (48")	(blank) 120V 277 277V 347 347V	CSA CSA Certified NOM NOM Certified <small>See page 164 for ballasts and other options and accessories.</small>
Square Profile	RE Residential grade electronic T8 (standard). ²	OA Solid oak frame <i>(Must specify)</i>			
		Finish			

NOTES:

¹ Lamps not included.

² RE fixtures use 32W T8 lamps. No designation for Lamp Type is required in the catalog number.

Availability and Dimensions

Nominal size	Model number	Number of lamps	Width in. (cm)	Depth in. (cm)	Length in. (cm)
1x2	10650, 10635	2	8 ³ / ₄ (22.2)	3 ¹ / ₈ (7.9)	25 ¹ / ₂ (64.7)
1x4	10652, 10636	2	8 ³ / ₄ (22.2)	3 ¹ / ₈ (7.9)	49 ¹ / ₂ (125.7)
1 ¹ / ₂ x4	10654, 10637	4	14 ¹ / ₈ (35.9)	3 ¹ / ₈ (7.9)	49 ¹ / ₂ (125.7)

Flush or Semi-Flush Mounting

Intended Use

Provides general illumination in residential and light commercial applications. Ideal for use in dining areas, kitchens, bathrooms, foyers and hallways.

Features

Choice of flush or semi-flush mounting. Semi-flush extension kit included.

Energy-efficient 13W, 18W and 26W quad-tube (4-pin) compact fluorescent lamps.

Bright, uniform illumination.

Standard with residential-grade electronic ballast.

Sheffield – Traditional fixtures with a black bronze finish. Satin-etched swirled-white glass diffusers are locked in place with a decorative center finial.

Saturn – Contemporary fixtures with brushed nickel finish on twin steel rings and hardware. White acrylic diffuser.

Pristine – Clean Art Deco fixtures with satin-etched glass diffuser. Diffuser twist-locks into brushed nickel housing for a hardware-free look.

UL Listed (standard). CSA Certified or NOM Certified (see options).

Sheffield

Saturn

Pristine



Sheffield



Saturn



Pristine

Ordering Information

Example: 11780 BZ

Model number

Sheffield

- 11780 BZ** 11" dia., two 13W CF13Q lamps
- 11782 BZ** 13" dia., two 18W CF18Q lamps
- 11784 BZ** 15" dia., two 26W CF26Q lamps

Saturn

- 11750 BN** 13" dia., one 26W CF26Q lamp
- 11752 BN** 16" dia., two 26W CF26Q lamps

Pristine

- 11734 BN** 14" dia., one 26W CF26Q lamp
- 11736 BN** 16½" dia., two 26W CF26Q lamps

Voltage

(blank) 120V

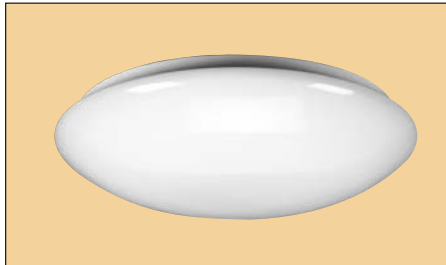
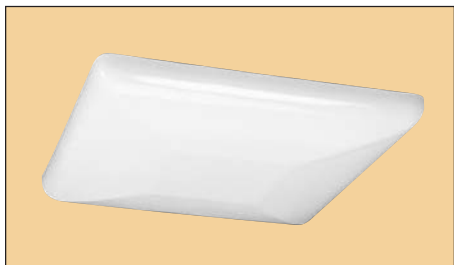
NOTES:

1 Lamps included.

Mounting and Dimensions

Model number	Dia. in. (cm)	Lamps	Extension from ceiling:	
			Flush in. (cm)	Semi-Flush in. (cm)
<i>Sheffield</i>				
11780 BZ	11 (27.9)	2-13W CF13Q	4¾ (12.1)	12¾ (32.4)
11782 BZ	13 (27.9)	2-18W CF18Q	5 (12.7)	13 (33.0)
11784 BZ	15 (27.9)	2-26W CF26Q	6 (15.2)	13¾ (34.9)
<i>Saturn</i>				
11750 BN	13 (27.9)	1-26W CF26Q	2⅞ (7.3)	8⅝ (21.3)
11752 BN	16 (27.9)	2-26W CF26Q	3¼ (8.3)	8⅝ (21.9)
<i>Pristine</i>				
11734 BN	14 (27.9)	1-26W CF26Q	4½ (11.4)	10½ (26.6)
11736 BN	16½ (27.9)	2-26W CF26Q	5 (12.7)	10¾ (27.3)

Low Profile



Intended Use

Suitable for use in residential and light commercial applications. Ideal for use in closets, laundry areas and pantries.

Features

White acrylic diffuser.

Both round and square models available in three sizes. Models available for circline and compact fluorescent lamps.

Suitable for ceiling or wall mounting.

UL listed to US and Canadian safety standards.

Ordering Information

Example: **FMLR 22**

Series	Lamp type/Wattage ¹	Voltage	Options
FMLR Low Profile Round FMLS Low Profile Square	22 1-22W Circline (11" RD/12" SQ) 54 1-22W/1-32W Circline (14" RD/15" SQ) 72 1-32W/1-40W Circline (19" RD/20" SQ)	(blank) 120V	Consult factory

Series/size	No. of lamps	Lamp type ¹	Voltage	Options
FMLR11 Low Profile Round, 11" dia. FMLR14 Low Profile Round, 14" dia. FMLR19 Low Profile Round, 19" dia. FMLS12 Low Profile Square, 12" x 12" FMLS15 Low Profile Square, 15" x 15" FMLS20 Low Profile Square, 20" x 20"	1 2 3	13DTT 13W Double Twin/Quad Tube (11" RD/12" SQ) 18DTT 18W Double Twin/Quad Tube (14" RD/15" SQ) 26 DTT 26W Double Twin/Quad Tube (19" RD/20" SQ)	(blank) 120V	Consult factory

Availability and Dimensions

	Nominal size	Depth	Standard lamp configuration	Optional lamp configuration
FMLR11	11" (27.9) dia.	3-3/8 (8.6)	1-22W, 2-13DTT	Consult factory
FMLR12	12" (30.5) sq.	3-1/4 (8.3)		
FMLR14	14" (35.6) dia.	3-1/4 (8.3)	1-22W/1-32W, 2-18DTT	Consult factory
FMLS15	15" (38.1) sq.	3-3/8 (8.6)		
FMLR19	19" (48.3) dia.	3-3/4 (9.5)	1-32W/1-40W, 3-26DTT	Consult factory
FMLS20	20" (50.8) sq.	3-5/8 (9.2)		

NOTES:
1 Lamps not included.

■ Option available
(blank) Option not available
▲ Standard

	Lamp Options								
	One 13DTT	Two 13DTT	One 18DTT	Two 18DTT	Three 18DTT	One 26DTT	Two 26DTT	Three 26DTT	
FMLR11		▲	■						
FMLR14		■	■	▲		■			
FMLR19					■		■	▲	
FMLS12		▲	■						
FMLS15		■	■	▲		■			
FMLS20					■		■	▲	

Round and Square Diffusers

Surface Mount

Intended Use

Suitable for use in residential and light commercial applications. Ideal for use in closets, laundry areas and pantries.

Features

White acrylic diffuser with choice of black or white housing.

Suitable for ceiling or wall mounting.

UL Listed (standard). CSA Certified or NOM Certified (see options).



Molded Acrylic



Example: 10972

Ordering Information

Model number		Lamp type ¹	Voltage	Options ³
<u>Round, black housing</u>	<u>Square, black housing</u>	(blank) 22W <i>or</i> 32W <i>or</i> 1-22W/1-32W <i>or</i> 1-32W/1-40W	(blank) 120V 277 277V	CSA CSA Certified NOM NOM Certified <small>See page 165 for ballasts and other options and accessories.</small>
10970 1-22W	10981 1-32W	9TT 9W twin-tube ²		
10971 1-32W	10982 1-22W & 1-32W	13TT 13W twin-tube ²		
10972 1-22W & 1-32W	10984 1-32W & 1-40W	13DTT 13W quad-tube ²		
10974 1-32W & 1-40W		13DTT23 13W quad-tube ²		
<u>Round, white housing</u>	<u>Square, white housing</u>			
10990 1-22W	10996 1-32W			
10991 1-32W	10997 1-22W & 1-32W			
10992 1-22W & 1-32W	10998 1-32W & 1-40W			
10994 1-32W & 1-40W				

Availability and Dimensions

Nominal size	Model number	Number of lamps	Width in. (cm)	Depth in. (cm)
<i>Round</i>				
11 (27.9) dia.	10990, 10970	1	11 (27.9)	3¼ (8.3)
14 (35.6) dia.	10991, 10971 10992, 10972	1	13⅞ (35.2)	3¼ (8.3)
18½ (47.0) dia.	10994, 10974	2	18½ (47.0)	4 (10.2)
<i>Square</i>				
14(35.6)	10981, 10996 10982, 10997	1	14 (35.6)	3⅞ (9.9)
18⅞ (47.9)	10984, 10998	2	18⅞ (47.9)	3½ (8.9)

Lamp Descriptions

Lamp Type	Description
9TT	9W T4 twin tube, 2-pin, G23 base
13TT	13W T4 twin tube, 2-pin, GX23 base
13DTT	13W quad tube, 4-pin, G24Q-1 base
13DTT23	13W quad tube, 2-pin, GX23-2 base

NOTES:

- Lamps not included.**
- Refer to Lamp Designations chart for more information on lamp specifications.
- For electronic ballast options, consult factory.

Circline Lamps

Intended Use

Suitable for use in residential and light commercial applications. Ideal for use in closets, laundry areas and pantries.

Features

Circular-shaped lamps without diffusers.

Bare lamp fixture provides maximum light output.

UL listed to US and Canadian safety standards.

Utility Circlines



Ordering Information

Example: **FM54 BLWH M4**

Model Number	Lamps (Not included)	Depth in. (cm)	Width/Dia. in. (cm)
<u>UTILITY CIRCLINES</u>			
<u>WHITE</u>			
FM54 BLWH M4	1-22W, 1-32W	3½ (8.9)	12 (30.5)
<u>CHROME</u>			
FM22 BLCH M4	1-22W	3½ (8.9)	12 (30.5)
FM54 BLCH M4	1-22W, 1-32W	3½ (8.9)	12 (30.5)

Sconces



Mini Litepuff



Tri-Band



Acrylic Quarter Sphere

Architectural Wall Fixtures

Intended Use

Ideal for use as accent lighting in bathrooms, hallways and stairwells. Visually expands the space and creates a relaxing atmosphere.

Features

Distinctive decorative wall fixtures in designs to complement a range of decors.

All models use energy-efficient compact fluorescent lamps.

One-piece end caps and diffuser. Spring retention on diffuser.

Mini Litepuff – Popular pufflight provides uniform lighting.

Tri-Band – Concentric steel bands with a clean, modern appearance.

Acrylic Quarter Sphere – Milk white diffuser in a soft, rounded design.

UL Listed (standard). CSA Certified (consult factory).

Ordering Information

Example: **11972**

Series

11881	Mini-Litepuff
11972	Tri-Band
11957	Acrylic Quarter Sphere

Availability and Dimensions

Description	Model Number	Lamps (not included)	Width in. (cm)	Depth in. (cm)	Height in. (cm)	ADA Compliant
Mini Litepuff	11881	1-13TT ¹	6 (15.3)	4 ¹ / ₄ (10.8)	11 (27.9)	No
Tri-Band	11972	2-13DTT ²	13 ³ / ₈ (34.0)	4 (10.2)	7 ¹ / ₄ (18.4)	Yes
Acrylic Quarter Sphere	11957	2-13TT ¹	13 ¹ / ₄ (33.7)	3 ¹ / ₂ (8.9)	6 ³ / ₄ (17.1)	Yes

Materials

Model	Trim	Diffuser
11881	N/A	White acrylic
11972	Powder-coated steel	N/A
11957	N/A	Matte white acrylic

Ballast

Thermally-protected, resetting, Class P, LPF, non-PCB, UL listed, CSA certified ballast standard. Sound rating A. Housing formed from cold-rolled steel. Electronic ballast available (consult factory).

NOTES:

- Lamps are 13W compact fluorescent twin-tube (2-pin, GX23 base).
- Lamps are 13W compact fluorescent quad-tube (4-pin, G24Q-1 base).

Sconces

Intended Use

Ideal for use as accent lighting in bathrooms, hallways and stairwells. Visually expands the space and creates a relaxing atmosphere.

Features

Distinctive decorative wall fixtures in designs to complement a range of decors.

All models use energy-efficient compact fluorescent lamps.

One-piece end caps and diffuser. Spring retention on diffuser.

Rattan – White diffuser with rattan trim in sandstone or rust.

Quarter Spheres–White diffuser with black or white trim.

UL Listed (standard). CSA Certified (consult factory).

Ordering Information

Example: **11952**

Series

- 11952** Rattan Quarter Sphere, sandstone
- 11958** Rattan Quarter Sphere, rust
- 11963BL** Quarter Sphere, black trim
- 11963WH** Quarter Sphere, white trim

Availability and Dimensions

Description	Model Number	Lamps ¹ (not included)	Width in. (cm)	Depth in. (cm)	Height in. (cm)	ADA Compliant
Sandstone	11952	2-13TT	17 ¹ / ₈ (43.5)	3 ⁵ / ₈ (9.2)	8 ¹ / ₂ (21.6)	Yes
Rust	11958	2-13TT	17 ¹ / ₈ (43.5)	3 ⁵ / ₈ (9.2)	8 ¹ / ₂ (21.6)	Yes
Black trim	11963BL	2-13TT	15 ³ / ₄ (39.0)	3 ⁵ / ₈ (9.2)	7 ⁷ / ₈ (20.0)	Yes
White trim	11963WH	2-13TT	15 ³ / ₄ (39.0)	3 ⁵ / ₈ (9.2)	7 ⁷ / ₈ (20.0)	Yes

Materials

Model	Trim	Diffuser
11952	Cast resin	Matte white acrylic
11958	Cast resin	Matte white acrylic
11963BL	PVC	Matte white acrylic
11963WH	PVC	Matte white acrylic

Ballast

Thermally-protected, resetting, Class P, LPF, non-PCB, UL listed, CSA certified ballast standard. Sound rating A. Housing formed from cold-rolled steel. Electronic ballast available (consult factory).



Rattan Quarter Sphere



Quarter Sphere, Black Trim



Quarter Sphere, White Trim

NOTES:

- 1 Lamps are 13W compact fluorescent twin-tube (2-pin, GX23 base).

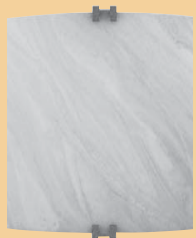
Sconces



Romanesque
Translucent Shield



Romanesque Translucent
Quarter Sphere



Romanesque Prong Shield

Architectural Wall Fixtures

Intended Use

Ideal for use as accent lighting in bathrooms, hallways and stairwells. Visually expands the space and creates a relaxing atmosphere.

Features

Distinctive decorative wall fixtures in designs to complement a range of decors.

Romanesque – Faux alabaster diffuser in a choice of classic designs.

All models use energy-efficient compact

fluorescent lamps.

One-piece end caps and diffuser.

Spring retention on diffuser.

UL Listed (standard). CSA Certified (consult factory).

Ordering Information

Example: **11953**

Series

- 11953** Romanesque Translucent Shield
- 11954** Romanesque Translucent Quarter Sphere
- 11955** Romanesque Prong Shield

Availability and Dimensions

Description	Model Number	Lamps ¹ (not included)	Width in. (cm)	Depth in. (cm)	Height in. (cm)	ADA Compliant
Translucent Shield	11953	2-13TT	11½ (29.2)	4 (10.2)	11½ (29.2)	Yes
Quarter Sphere	11954	2-13TT	16¾ (41.5)	3¾ (9.5)	8½ (21.6)	Yes
Prong Shield	11955	2-13TT	11⅝ (29.5)	4 (10.2)	11 (27.9)	Yes

Materials

Model	Trim	Diffuser
11953	N/A	Cast faux alabaster
11954	N/A	Cast faux alabaster
11955	Cast resin (prong)	Cast faux alabaster

Ballast

Thermally-protected, resetting, Class P, LPF, non-PCB, UL listed, CSA certified ballast standard. Sound rating A. Housing formed from cold-rolled steel. Electronic ballast available (consult factory).

NOTES:

- ¹ Lamps are 13W compact fluorescent twin-tube (2-pin, GX23 base).

Sconces

Intended Use

Ideal for use as accent lighting in bathrooms, hallways and stairwells. Visually expands the space and creates a relaxing atmosphere.

Features

Distinctive decorative wall fixtures in designs to complement a range of decors.

Half Rounds – Deco metallic with white diffuser or faux alabaster diffuser with brass trim.

Egg and Dart—Faux alabaster diffuser with granite trim.

Travertine Half Round – Unique sand-blasted acrylic diffuser.

All models use energy-efficient compact fluorescent lamps.

One-piece end caps and diffuser.

Spring retention on diffuser.

UL Listed (standard). CSA Certified (consult factory).

Ordering Information

Example: **11907**

Series

11907	Half Round
11956	Deco Half Round
11962	Egg and Dart Hlf Round
11908	Travertine Half Round



Availability and Dimensions

Description	Model Number	Lamps ¹ (not included)	Width in. (cm)	Depth in. (cm)	Height in. (cm)	ADA Compliant
Half Round	11907	2-13TT	8 ³ / ₄ (22.2)	3 ³ / ₄ (9.5)	11 ³ / ₄ (29.8)	Yes
Deco Half Round	11956	2-13TT	7 ³ / ₄ (19.7)	4 (10.2)	11 (27.9)	Yes
Egg and Dart Half Round	11962	2-13TT	8 ⁷ / ₈ (22.5)	4 (10.2)	12 ⁷ / ₈ (32.7)	Yes
Travertine Half Round	11908	2-13TT	8 ¹ / ₄ (20.6)	3 ³ / ₄ (8.5)	16 ¹ / ₂ (41.9)	Yes

Materials

Model	Trim	Diffuser
11907	Brass mylar PVC	Faux alabaster
11956	Cast resin	Matte white acrylic
11962	Cast resin	Matte white acrylic
11908	Cast resin	Sand-blasted acrylic

Ballast

Thermally-protected, resetting, Class P, LPF, non-PCB, UL listed, CSA certified ballast standard. Sound rating A. Housing formed from cold-rolled steel. Electronic ballast available (consult factory).

NOTES:

¹ Lamps are 13W compact fluorescent twin-tube (2-pin, GX23 base).

Vanity Wall Brackets

Wide Band

Architectural Linear Contoured Diffusers

Intended Use

Suitable for accent lighting when more light is needed in a centralized area. Ideal for bathrooms, utility areas and stairwells.

Non-yellowing acrylic diffuser for soft, uniform illumination.

Suitable for horizontal mounting.

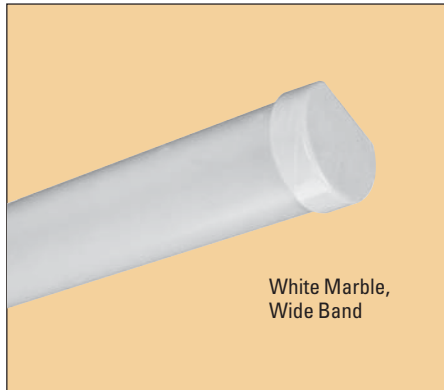
UL Listed (standard). CSA Certified or NOM Certified (see options).

Features

New T8 version.

Diffuser is white acrylic. All models have one-piece end cap and diffuser.

NEW



Ordering Information

Example: **11934**

Model number	Ballast	Lamp type ¹	Finish ³	Voltage	Options
<u>Wide band ends</u> 11934 2-foot unit 11935 3-foot unit 11936 4-foot unit	(blank) (Ballast is specified in Options)	(blank) 17W T8 (24") or 25W T8 (36") or 32W T8 (48")	WH White FMI Ivory Marble FMT Taupe Marble FMW White Marble FGG Gray Granite	(blank) 120V 277 277V 347 347V	BI Double inlaid brass insert (Available on wide band fixtures only) CI Double inlaid chrome insert (Available on wide band fixtures only)
<u>Brass Scoop</u> 11893 2-foot unit 11894 3-foot unit 11895 4-foot unit	RE Residential grade electronic T8 (standard). ²				CSA CSA Certified NOM NOM Certified

See page 165 for ballasts and other options and accessories.

Availability and Dimensions

Nominal size	Model number	Number of lamps	Width in.(cm)	Depth in.(cm)	Length in.(cm)
2'	11893, 11934	2	4 ⁷ / ₈ (12.4)	4 ⁷ / ₈ (10.5)	25 ⁵ / ₈ (65.1)
3'	11894, 11935	2	4 ⁷ / ₈ (12.4)	4 ⁷ / ₈ (10.5)	37 ⁵ / ₈ (95.6)
4'	11895, 11936	2	4 ⁷ / ₈ (12.4)	4 ⁷ / ₈ (10.5)	49 ⁵ / ₈ (126.0)

NOTES:

- 1 Lamps not included.
- 2 RE fixtures use 32W T8 lamps. No designation for Lamp Type is required in the catalog number.
- 3 Finishes not available with Brass Scoop models.

Vanity Wall Brackets

Narrow Band

Intended Use

Suitable for accent lighting when more light is needed in a centralized area. Ideal for bathrooms, utility areas and stairwells.

Features

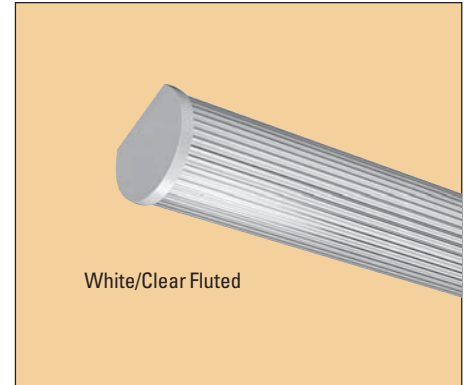
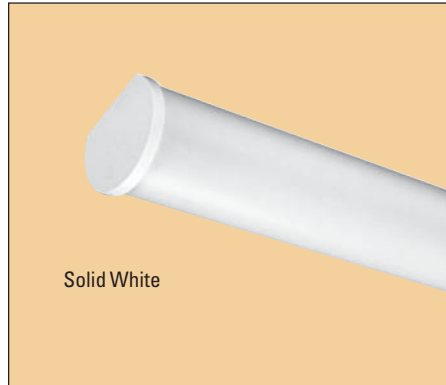
Faux marble or plain white end caps.
Allows for vertical or horizontal mounting.
Diffuser is either white acrylic or clear fluted with white acrylic ends. All models

have one-piece end cap and diffuser.

Spring retention on diffuser.

UL Listed (standard). CSA Certified (consult factory).

Standard with residential grade electronic ballast



Ordering Information

Example: **11928 WH CI**

Model number	Ballast	Lamp type ¹	Finish ³	Voltage	Options
<u>Narrow band ends</u> 11928 2-foot unit 11929 3-foot unit 11930 4-foot unit <u>White/clear fluted</u> 11931 2-foot unit 11932 3-foot unit 11933 4-foot unit	(blank) (Ballast is specified in Options) RE Residential grade electronic T8 (standard). ²	(blank) 17W T8 (24") <i>or</i> 25W T8 (36") <i>or</i> 32W T8 (48")	WH White FMB Black Marble	(blank) 120V 277 277V 347 347V	See page 165 for ballasts and other options and accessories.

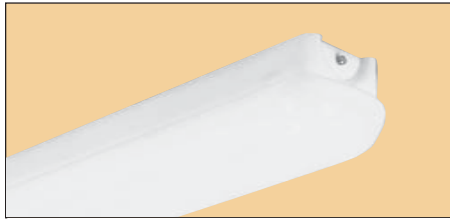
Availability and Dimensions

Nominal Size	Model Number	Finish	Number of Lamps	Width in.(cm)	Depth in.(cm)	Length in.(cm)
2'	11928	WH, FMB	2	4 ¹ / ₈ (10.5)	4 ⁷ / ₈ (12.4)	25 ⁵ / ₈ (65.0)
	11931	WH				
3'	11929	WH, FMB	2	4 ¹ / ₈ (10.5)	4 ⁷ / ₈ (12.4)	25 ⁵ / ₈ (65.0)
	11932	WH				
4'	11930	WH, FMB	2	4 ¹ / ₈ (10.5)	4 ⁷ / ₈ (12.4)	25 ⁵ / ₈ (65.0)
	11933	WH				

NOTES:

- 1 Lamps not included.
- 2 RE fixtures use 32W T8 lamps. No designation for Lamp Type is required in the catalog number.
- 3 Not available with White Fluted.

Vanity Wall Brackets



Ordering Information

Model number	Ballast
11890 2-foot Litepuff	(blank) (Ballast is specified in Options)
11891 3-foot Litepuff	RE Residential grade electronic T8
11892 4-foot Litepuff	(standard). ²

Lamp type	Voltage
(blank) 17W T8 (24")	(blank) 120V
25W T8 (36")	277 277V
32W T8 (48")	347 347V

Example: **11890RE**

CSA CSA Certified.
See page 165 for ballasts and other options and accessories.

NOTES:

- 1 **Lamps not included.**
- 2 RE fixtures use 32W T8 lamps. No designation for Lamp Type is required in the catalog number.

Intended Use
See companion series, page 135.

Suitable for accent lighting when more light is needed in a centralized area. Ideal for bathrooms, utility areas and stairwells.

UL Listed (standard). CSA Certified (see options).

Standard with residential grade electronic ballast.

Features

New T8 version.

Durable white acrylic diffuser. Contoured design provides soft, uniform light.

Availability and Dimensions

Nominal size	Model number	Number of lamps	Width in.(cm)	Depth in.(cm)	Length in.(cm)
2'	11880	2	6 (15.2)	4 1/2 (11.4)	26 3/4 (67.9)
3'	11885	2	6 (15.2)	4 1/2 (11.4)	38 3/4 (98.4)
4'	11889	2	6 (15.2)	4 1/2 (11.4)	50 3/4 (128.9)

Wraparound Diffusers

Intended Use

Suitable for accent lighting when more light is needed in a centralized area. Ideal for bathrooms, utility areas and stairwells.

suitable for ceiling or wall mounting.

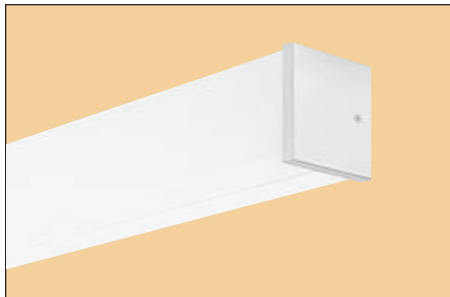
White acrylic wraparound diffuser for uniform illumination.

Endplates available in polished brass, white or chrome finish.

Features

Decorative fixtures with metal endplates,

UL Listed (standard). CSA Certified or NOM Certified (see options).



Ordering Information

Model number	Ballast
<u>Polished brass ends</u>	(blank) Residential grade magnetic T12 (unless other ballast is specified in Options)
11827 2-lamp, 2-foot unit	
11828 2-lamp, 3-foot unit	
11829 2-lamp, 4-foot unit	RE Residential grade electronic T8 (standard). ²
<u>White ends</u>	
11852 2-lamp, 2-foot unit	
11853 2-lamp, 3-foot unit	
11854 2-lamp, 4-foot unit	
11872 1-lamp, 2-foot unit	
11873 1-lamp, 3-foot unit	
11874 1-lamp, 4-foot unit	
<u>Chrome ends</u>	
11857 2-lamp, 2-foot unit	
11858 2-lamp, 3-foot unit	
11859 2-lamp, 4-foot unit	

Lamp type ¹	Voltage
(blank) 40W T12 (48") or 30W T12 (36") or 20W T12 TS(24")	(blank) 120V
17 17W T8 (24")	277 277V
25 25W T8 (36")	347 347V
32 32W T8 (48")	

Example: **11827 ES**

CSA CSA Certified
NOM NOM Certified.
See page 165 for ballasts and other options and accessories.

Availability and Dimensions

Nominal Size	Model Number	Number of Lamps	Width in.(cm)	Depth in.(cm)	Length in.(cm)
2'	11872	1	4 5/8 (11.8)	4 1/2 (11.4)	24 (60.1)
3'	11873	1	4 5/8 (11.8)	4 1/2 (11.4)	36 (91.4)
4'	11874	1	4 5/8 (11.8)	4 1/2 (11.4)	48 (121.9)
2'	11827, 11852, 11857	2	4 5/8 (11.8)	4 1/2 (11.4)	24 (60.1)
3'	11828, 11853, 11858	2	4 5/8 (11.8)	4 1/2 (11.4)	36 (91.4)
4'	11829, 11854, 11859	2	4 5/8 (11.8)	4 1/2 (11.4)	48 (121.9)

NOTES:

- 1 **Lamps not included.**
- 2 RE fixtures use 32W T8 lamps. No designation for Lamp Type is required in the catalog number.

Vanity Wall Brackets

Intended Use

Suitable for accent lighting when more light is needed in a centralized area. Ideal for bathrooms, utility areas and stairwells.

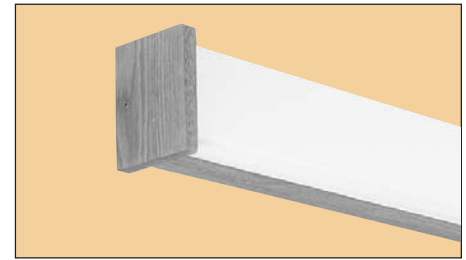
See companion wraparounds, page 145.

UL Listed (standard). CSA Certified or NOM Certified (see options).

Standard with residential grade electronic ballast.

Features

Solid oak ends with side rail and acrylic diffuser — enhances any bath.



Ordering Information

Example: **11886 ES**

Model number	Lamp type ¹	Voltage	Options
11886 2-foot Trimline	(blank) 40W T12 (48") or	(blank) 120V	CSA CSA Certified
11887 3-foot Trimline	30W T12 (36") or	277 277V	NOM NOM Certified
11888 4-foot Trimline	20W T12 TS(24")	347 347V	
	17 17W T8 (24")		See page 165 for ballasts and other options and accessories.
	25 25W T8 (36")		
	32 32W T8 (48")		
Ballast			
(blank) Residential grade magnetic T12 (unless other ballast is specified in Options)			
RE Residential grade electronic T8 (standard). ²			

NOTES:

- Lamps not included.**
- RE fixtures use 32W T8 lamps. No designation for Lamp Type is required in the catalog number.

Availability and Dimensions

Nominal size	Model number	Number of lamps	Width in.(cm)	Depth in.(cm)	Length in.(cm)
2'	11886	2	5 (12.7)	4 ³ / ₄ (12.1)	25 ¹ / ₂ (64.8)
3'	11887	2	5 (12.7)	4 ³ / ₄ (12.1)	37 ¹ / ₂ (95.3)
4'	11888	2	5 (12.7)	4 ³ / ₄ (12.1)	49 ¹ / ₂ (125.7)

Solid Oak Ends

Intended Use

Suitable for accent lighting when more light is needed in a centralized area. Ideal for bathrooms, utility areas and stairwells.

Provide soft, uniform illumination.

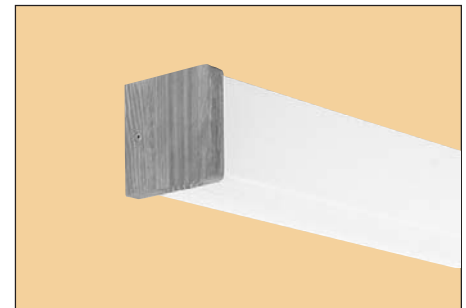
See companion wraparounds, page 145.

UL Listed (standard). CSA Certified or NOM Certified (see options).

Features

Distinctive wall lights with solid oak ends.

Standard with residential grade electronic ballast.



Ordering Information

Example: **11848**

Model number	Lamp type ¹	Voltage	Options
11847 2-foot unit, 2 lamps	(blank) 40W T12 (48") or	(blank) 120V	CSA CSA Certified
11848 3-foot unit, 2 lamps	30W T12 (36") or	277 277V	NOM NOM Certified
11849 4-foot unit, 2 lamps	20W T12 TS(24")	347 347V	
	17 17W T8 (24")		See page 165 for ballasts and other options and accessories.
	25 25W T8 (36")		
	32 32W T8 (48")		
Ballast			
(blank) Residential grade magnetic T12 (unless other ballast is specified in Options)			
RE Residential grade electronic T8 (standard). ²			

NOTES:

- Lamps not included.**
- RE fixtures use 32W T8 lamps. No designation for Lamp Type is required in the catalog number.

Availability and Dimensions

Nominal size	Model number	Number of lamps	Width in.(cm)	Depth in.(cm)	Length in.(cm)
2'	11862	1	5 (12.7)	4 ³ / ₄ (12.1)	25 ¹ / ₂ (64.8)
3'	11863	1	5 (12.7)	4 ³ / ₄ (12.1)	37 ¹ / ₂ (95.3)
4'	11864	1	5 (12.7)	4 ³ / ₄ (12.1)	49 ¹ / ₂ (125.7)
2'	11847	2	5 (12.7)	4 ³ / ₄ (12.1)	25 ¹ / ₂ (64.8)
3'	11848	2	5 (12.7)	4 ³ / ₄ (12.1)	37 ¹ / ₂ (95.3)
4'	11849	2	5 (12.7)	4 ³ / ₄ (12.1)	49 ¹ / ₂ (125.7)

Xenon

NEW


Ordering Information

Length	Model Number ¹		Lamps (included)	Packaged ²
	White finish	Bronze finish		
Xenon				
9"	UCX 1 120 CSW R6	UCX 1 120 CSW BZ R6	1-18W 12V Xenon	6
12"	UCX 2 120 CSW R6	UCX 2 120 CSW BZ R6	2-18W 12V Xenon	6
18"	UCX 3 120 CSW R6	UCX 3 120 CSW BZ R6	3-18W 12V Xenon	6
24"	UCX 4 120 CSW R6	UCX 4 120 CSW BZ R6	4-18W 12V Xenon	6

 Example: **UCX 2 120 CSW BZ R6**

Standard direct-wire (poke-home connectors included) or plug-in (5' corded plug included).

High/low switch for optimum light output.

13" connector cord included, so more fixtures can be added anytime.

Available in resale packs of 6.

UL listed to US and Canadian standards.

Intended Use

For use where accent light is needed. Ideal for cabinet lighting in kitchens, offices and bookcases.

Features

Cool operation with clean, bright, white illumination.

White or bronze finish.

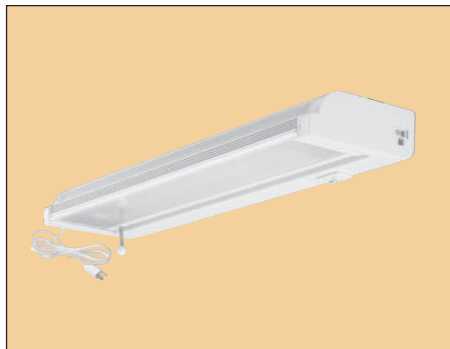
12V Xenon bulb(s) included.

NOTES:

1 Lamps included.

2 Resale packs must be ordered in increments of 6.

Halogen



Ordering Information

Length	Model Number ¹		Lamps (included)	Packaged ²
	White finish	Bronze finish		
Halogen				
6"	UCHD 1 120 CSW R6	UCHD 1 120 CSW BZ R6	1-20W G8 Halogen	6
12"	UCHD 2 120 CSW R6	UCHD 2 120 CSW BZ R6	2-20W G8 Halogen	6
18"	UCHD 3 120 CSW R6	UCHD 3 120 CSW BZ R6	3-20W G8 Halogen	6
24"	UCHD 4 120 CSW R6	UCHD 4 120 CSW BZ R6	4-20W G8 Halogen	6

Swivel Halogen Fixture

Intended Use

For use when accent light is needed. Ideal for cabinet lighting in kitchens, office and bookcases.

Features

Fixture head rotates 20° backward and 45° forward to aim light where needed.

White or bronze finish.

25W G8 halogen bulb(s) included.

Standard direct-wire (poke-home connectors included) or plug-in (5' corded plug included).

High/low switch for optimum light output.

13" connector cord included, so more fixtures can be added anytime.

Crisp, white light and quiet operation.

Resale package of 6.

UL listed to US and Canadian standards.

NOTES:

1 Lamps included.

2 Resale packs must be ordered in increments of 6.

Surface-Mounted Fixtures

Designation:	Ballast and Electrical							Diffusers		Hangers	
	CW	EL	ES	GEB	GLR	GMF	DIM	ACF	Drop Dish	SQ	1B
See page:	101	102	—	101	101	101	—	—	—	104	103
Cambridge, 2L	■	■	■	■	■	■	■	■	▲	■	■
Cambridge, 2U	■	□	■	■	■	■	□	■	▲	■	■
Cambridge, 4L	■	■	■	■	■	■	■	■	▲	■	■
Cirrus, 2L	■	■	■	■	■	■	■			■	■
Cirrus, 4L	■	■	■	■	■	■	■			■	■
Designer, 2L	■	■	■	■	■	■	■	▲		■	■
Designer, 2U	■	□	■	■	■	■	□	▲		■	■
Designer, 4L	■	■	■	■	■	■	■	▲		■	■
Designer, 6L	■	■	■	■	■	■	■	▲		■	■
Designer, 8L	■	■	■	■	■	■	■	▲		■	■
Dura-Steel, 2L, 2'	■	■	■	■	■	■	■	■	▲	■	■
Dura-Steel, 2L	■	□	■	■	■	■	□	■	▲	■	■
Dura-Steel, 2U	■	□	■	■	■	■	□	■	▲	■	■
Dura-Steel, 4L	■	■	■	■	■	■	■	■	▲	■	■
Litepuff, 2L	■	■	■	■	■	■	■			■	■
Litepuff, 2U	■	□	■	■	■	■	□			■	■
Litepuff, 4L	■	■	■	■	■	■	■			■	■
Litepuff, 4L, 2'	■	□	■	■	■	■	□			■	■
Lumina, 2L	■	■	■	■	■	■	■			■	■
Lumina, 2U	■	□	■	■	■	■	□			■	■
Lumina, 4L	■	■	■	■	■	■	■			■	■
Metro, 2L, 2'											
Metro, 2L, 4'											
MP, 2L	■	■	■	■	■	■	■			■	■
MP, 2U	■	□	■	■	■	■	□			■	■
MP, 4L	■	■	■	■	■	■	■			■	■
Octa-Traditional, 2L	■	■	■	■	■	■	■			■	■
Octa-Traditional, 4L	■	■	■	■	■	■	■			■	■
Octa-Tradit., 22/32											
Octa-Tradit., 32/40											
Old English, 2L	■	■	■	■	■	■	■	■	▲	■	■
Old English, 2U	■	□	■	■	■	■	□	■	▲	■	■
Old English, 4L	■	■	■	■	■	■	■	■	▲	■	■
Old English/Grid, 2L	■	■	■	■	■	■	■	▲		■	■
Old English/Grid, 2U	■	□	■	■	■	■	□	▲		■	■
Old English/Grid, 4L	■	■	■	■	■	■	■	▲		■	■
Pristine 14"											
Pristine 16"											

- Option available
- (blank) Option not available
- ▲ Standard
- Consult factory

Surface-Mounted Fixtures

Designation:	Ballast and Electrical							Diffusers		Hangers	
	CW	EL	ES	GEB	GLR	GMF	DIM	ACF	Drop Dish	SQ	1B
See page:	101	102	–	101	101	101	–	–	–	104	103
Saturn 13"											
Saturn 16"											
Sheffield 11"											
Sheffield 13"											
Sheffield 15"											
Skylite Oval, 2L	■	■	■	■	■	■	■				
Skylite Oval, 3L	■	■	■	■	■	■	■				
Skylite Rectangle, 2L	■	■	■	■	■	■	■				
Skylite Rectangle, 4L	■	■	■	■	■	■	■				
Skylite Rectangle, 4L	■	■	■	■	■	■	■				
Skylite Round, 22/32											
Skylite Round, 32/40											
Square Profile, 2L	■	■	■	■	■	■	■			■	■
Square Profile, 2L	■	□	■	■	■	■	□			■	■
Square Profile, 4L	■	■	■	■	■	■	■			■	■
Trimline, 2L	■	■	■	■	■	■	■			■	■
Trimline, 2U	■	□	■	■	■	■	□			■	■
Trimline, 4L	■	■	■	■	■	■	■			■	■
Velegant, 2L, 2'											
Velegant, 2L, 4'											
Velegant, 4L, 4'											

- Option available
- (blank) Option not available
- ▲ Standard
- Consult factory

Vanity Wall Brackets

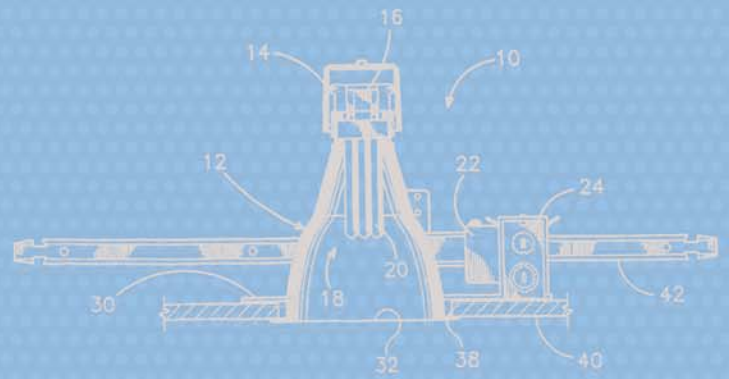
Designation:	Ballast and Electrical					
	CW	ES	GEB	GLR	GMF	DIM
See page:	101	–	101	101	101	–
Narrow band ends	■	■	■	■	■	■
Wide band ends	■	■	■	■	■	■
White/Clear fluted	■	■	■	■	■	■
Litepuffs	■	■	■	■	■	■
Wraparounds, brass ends	■	■	■	■	■	■
Wraparounds, white ends	■	■	■	■	■	■
Wraparounds, chrome ends	■	■	■	■	■	■
Solid oak ends and side rails	■	■	■	■	■	■
Solid oak ends	■	■	■	■	■	■

Molded Acrylic

Designation:	Electrical			Misc.			Lamp Options							
	GLR	GMF	PCL	TP	CSA	NOM	One 9TT	Two 9TT	One 13TT	Two 13TT	One 13DTT	Two 13DTT	Three 13DTT	Two 18DTT
See page:	101	101	–	–	–	–	–	–	–	–	–	–	–	–
<i>Molded Acrylic</i>														
10970	■	■	■	■	■	■	■	■	■	■				
10971	■	■	■	■	■	■	■	■	■	■		■		■
10972	■	■	■	■	■	■	■	■	■	■		■	■	■
10974	■	■	■	■	■	■	■	■	■	■		■	■	■
10990	■	■	■	■	■	■	■	■	■	■				
10991	■	■	■	■	■	■	■	■	■	■		■	■	
10992	■	■	■	■	■	■	■	■	■	■		■	■	
10994	■	■	■	■	■	■	■	■	■	■		■	■	■
10981	■	■	■	■	■	■	■	■	■	■		■		
10982	■	■	■	■	■	■	■	■	■	■		■	■	■
10984	■	■	■	■	■	■	■	■	■	■		■	■	■
10996	■	■	■	■	■	■	■	■	■	■		■		
10997	■	■	■	■	■	■	■	■	■	■		■	■	■

- Option available
- (blank) Option not available
- ▲ Standard
- Consult factory

ARCHITECTURAL DOWNLIGHTING



The Gotham Lighting Corporation was founded in 1938 in New York City. Gotham's founder, Harry Gerstel, understood that modernist architecture called for a new approach to interior lighting, and he was in touch with advancements in electric light sources that were on the horizon.

From the beginning, Gotham concentrated on developing luminaires that would enhance the appearance of modern spaces without calling attention to themselves. The company's focus on architectural integration, optical performance, reliability and innovative manufacturing processes resulted in Gotham quickly becoming one of the most respected names in architectural lighting.

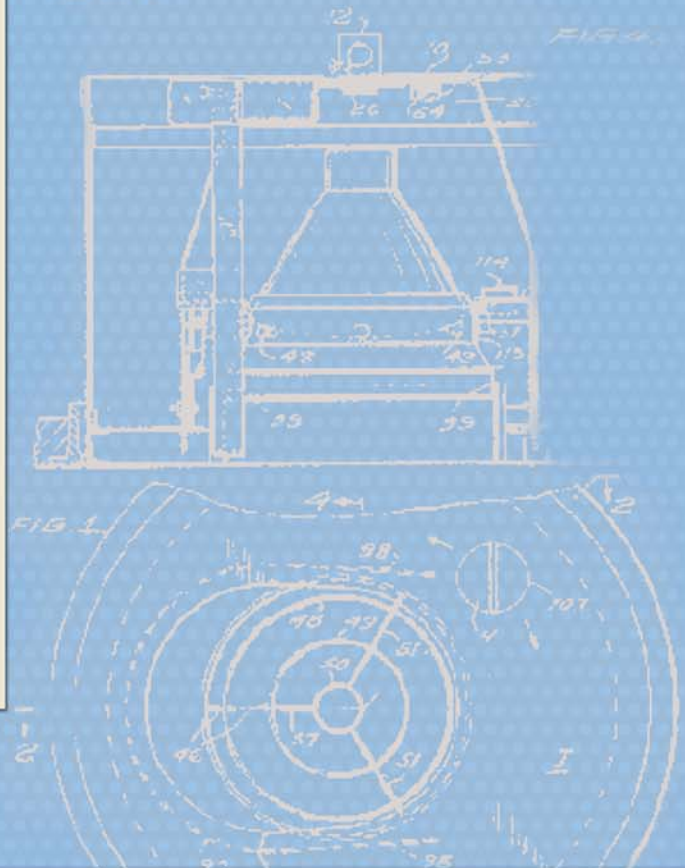
Today, Gotham continues to embrace the challenges of downlighting product leadership. Bound by our time-honored design principles of optical performance and mechanical quality, we continue to innovate product concepts that optimize new source technologies and expand aesthetic choices for lighting professionals.



Oct. 7, 1958

H. M. GERSTEL
RECESSED EYELEVEL DOWN LIGHT

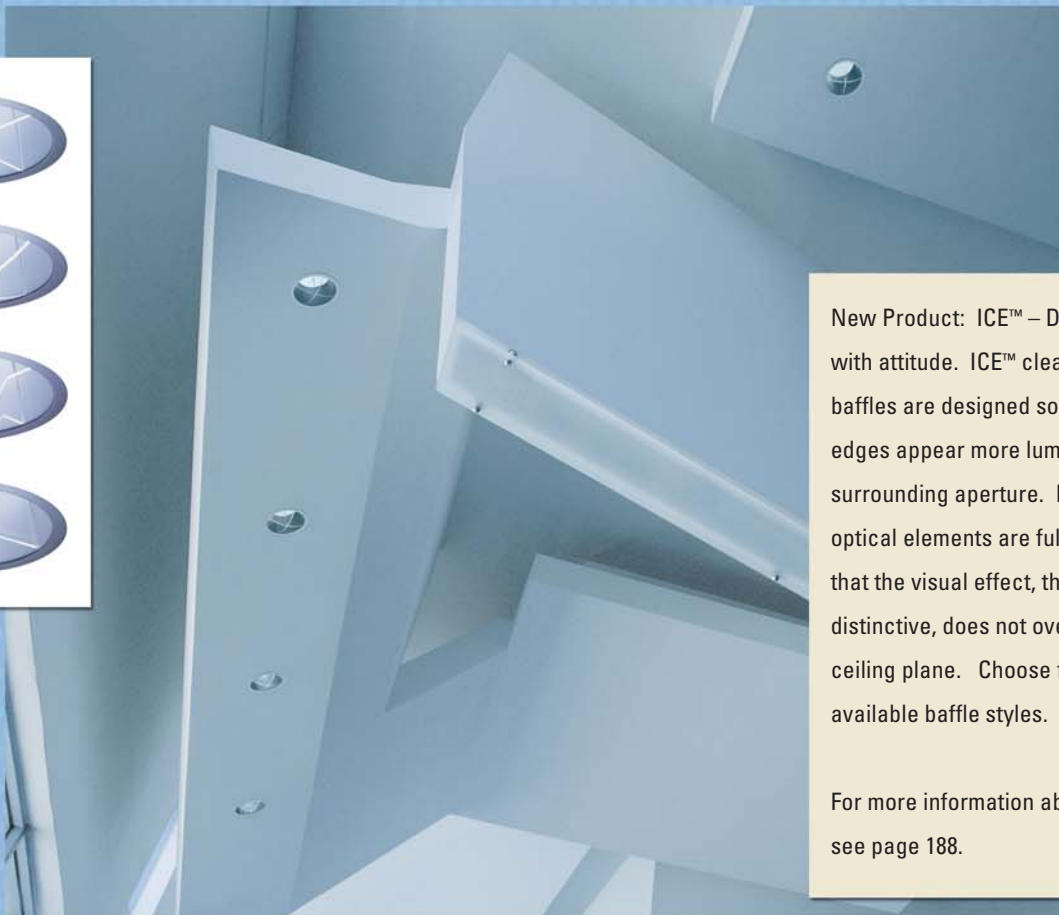
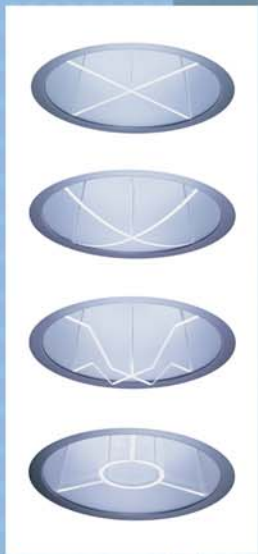
FILED OCT. 23, 1958





New Product: Candéo™ – High performance recessed downlighting that challenges tradition to make its own unique design statement. Candéo™ can be configured to present a wide variety of visual effects. Candéo™ is different, unique – recessed downlighting designed to be seen.

For more information about Candéo™, see page 187.



New Product: ICE™ – Downlighting with attitude. ICE™ clear acrylic baffles are designed so that their edges appear more luminous than the surrounding aperture. Decorative and optical elements are fully integrated so that the visual effect, though distinctive, does not overwhelm the ceiling plane. Choose from four available baffle styles.

For more information about ICE™, see page 188.

CONTENTS



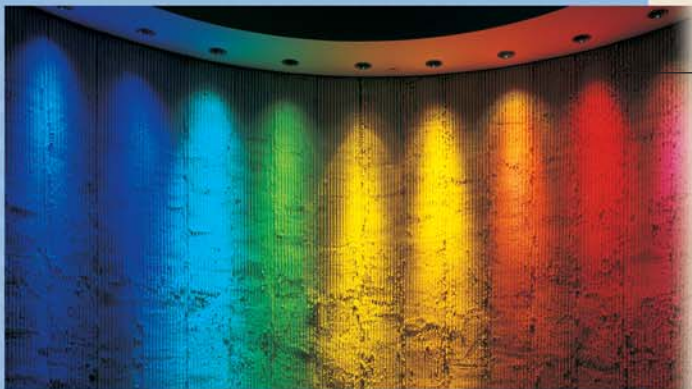
Compact Fluorescent

Downlighting	170
Accent	181
Surface-Mount	182
Decorative	187



HID

Downlighting	190
Accent	196
Surface-Mount	199



Incandescent

Downlighting	201
Accent	208
Surface-Mount	211



Low Voltage

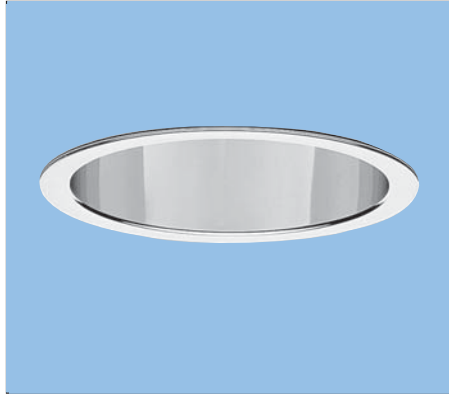
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AF

Horizontal Lamp

Double Twin-Tube (DTT)

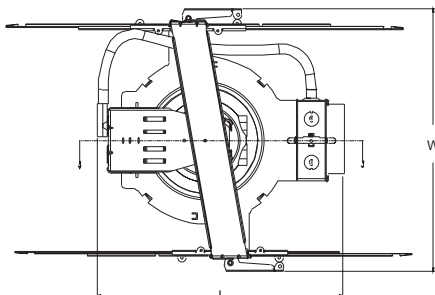
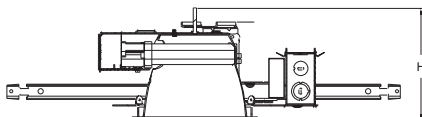


Ordering Information

Example: **AF 2/26DTT 6AR 120**

Series	No. of lamps	Wattage/lamp	Trim color	Finish	Lens type	Voltage	Options/Accessories
AF	1	13DTT	AR Clear	(blank) Specular low iridescent	(blank) No lens	120	See pages 221-225.
	2	18DTT	PR Pewter	LD Semi-diffuse low iridescent	CGL Clear glass lens	277	
	3 ¹	26DTT	UBR Umber	LS Highly specular	CAL Clear acrylic lens	347	
			WTR Wheat		PCL Clear polycarbonate lens	MVOLT ⁵	
			CR Champagne gold ²		T73 Tempered prismatic lens		
			GR Gold ²		A12 Prismatic acrylic lens		
			WR White painted ³		PPC Prismatic polycarbonate lens		
			MB Black baffle ³				
			WB White baffle ³				
			BC Black cone ^{3,4}				
			Aperture				
			6				
			8				
			10				

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



NOTES:

- 1 Available in 10" only.
- 2 Not recommended for use with compact fluorescent lamp. Consult factory.
- 3 Not available with finishes.
- 4 Not available in 10".
- 5 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

STANDARD PACKAGING

To order, use a single master catalog number.
Example: (13) AF 2/26DTT 6AR 120.

Fixtures ship as multiple components using optimized packaging. Example above ships as:

- (Qty 13) GRSF 2/26DTT 6 120 HSG U (13 cartons of 1 housing)
- (Qty 12) AF 2 6AR TRIM J4 (3 cartons of 4 reflectors)
- (Qty 1) AF 2 6AR TRIM U (1 carton of 1 reflector)

Cat. No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
AF 6	6-3/4 (17.1)	15-3/8 (39.1)	15-7/8 (40.3)	6-1/4 (15.9)	7-1/8 (18.1)	7-5/8 (19.4)
AF 8	7-3/4 (19.7)	15-3/8 (39.1)	15-7/8 (40.3)	7-7/8 (20.0)	8-1/2 (21.6)	9-1/4 (23.5)
AF 10	7-3/16 (18.3)	18-1/8 (46.0)	17-3/8 (44.1)	9-3/4 (24.8)	10-1/4 (26.0)	10-7/8 (27.6)
AF 10 MB/WB	8-9/16 (21.7)	18-1/8 (46.0)	17-3/8 (44.1)	9-1/2 (24.1)	10-1/4 (26.0)	10-7/8 (27.6)

Intended Use
For general downlight applications that demand superior brightness control in shallow plenum areas.

Features
Optical System – Self-flanged, specular clear, semi-diffuse or highly specular reflector. Bounding Ray™ Optical Principle provides lamp before lamp image, lamp image that reflects smoothly from the top of the reflector to the aperture, and optimal fixture performance and efficiency. Controlled anodizing process suppresses iridescence.

Electrical System – Horizontally-mounted, positive-latch, thermoplastic socket(s). Socket housing ventilated for convective cooling. Class P, thermally-protected, high power factor ballast(s) mounted to the junction box.

Mounting – 16-gauge galvanized steel mounting/plaster frame with thru-wire junction box. Integral yoke utilized to retain optical system. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings – Fixtures are UL listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

AFW

Horizontal Lamp

Double Twin-Tube (DTT)

Intended Use

For general downlight wallwash applications that demand superior brightness control and uniform vertical illumination in shallow plenum areas.

Features

Optical System – Self-flanged, specular clear, semi-diffuse or highly specular reflector. Bounding Ray™ Optical Principle provides lamp before lamp image, lamp image that reflects smoothly from the top of the reflector to the aperture, and optimal fixture performance and efficiency. Controlled anodizing process suppresses iridescence. Patented hybrid wallwash kicker provides uniform vertical illumination with light high on the wall close to the ceiling and no roomside “back-flash.”

Electrical System – Horizontally-mounted, positive-latch, thermoplastic socket(s). Socket housing ventilated for convective cooling. Class P, thermally-protected, high power factor ballast(s) mounted to the junction box.

Mounting – 16-gauge galvanized steel mounting/plaster frame with thru-wire junction box. Integral yoke utilized to retain optical system. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings – Fixtures are UL listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.



Example: **AFW 2/26DTT 6AR 120**

Ordering Information

Series	No. of lamps	Wattage/lamp	Aperture	Trim color	Finish	Lens type	Voltage	Options/Accessories
AFW	1	13DTT	6	AR Clear	(blank) Specular low iridescent	(blank) No lens	120	See pages 221-225.
	2	18DTT 26DTT	8	PR Pewter UBR Umber WTR Wheat CR Champagne gold ¹ GR Gold ¹ WR White painted ²	LD Semi-diffuse low iridescent LS Highly specular	CGL Clear glass lens CAL Clear acrylic lens PCL Clear polycarbonate lens	277 347 MVOLT³	

STANDARD PACKAGING

To order, use a single master catalog number.
Example: (13) **AFW 2/26DTT 6AR 120**.

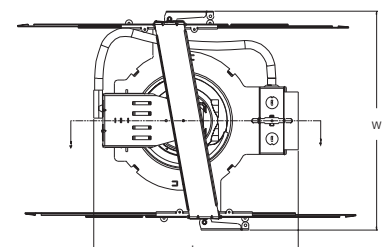
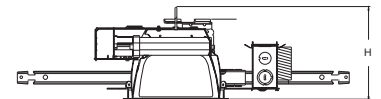
Fixtures ship as multiple components using optimized packaging. Example above ships as:

(Qty 13) **GRSF 2/26DTT 6 120 HSG U** (13 cartons of 1 housing)
(Qty 13) **AFW 2 6AR TRIM U** (13 cartons of 1 reflector)

NOTES:

- 1 Not recommended for use with compact fluorescent lamps. Consult factory.
- 2 Not available with finishes.
- 3 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



Cat. No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
AFW 6	6-3/4 (17.1)	15-3/8 (39.1)	15-7/8 (40.3)	6-1/4 (15.9)	7-1/8 (18.1)	7-5/8 (19.4)
AFW 8	7-3/4 (19.7)	17-3/4 (45.1)	17-3/8 (44.1)	7-7/8 (20.0)	8-7/8 (22.5)	9-1/4 (23.5)

AF

Horizontal Lamp

Triple-Tube (TRT)

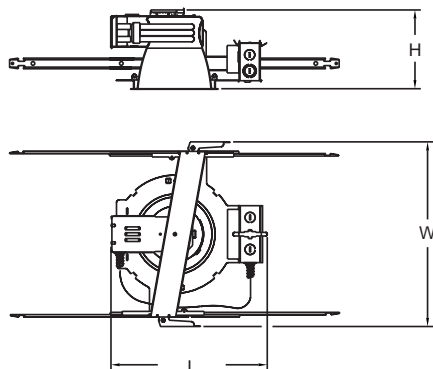


Ordering Information

Series	No. of lamps	Aperture	Trim color	Finish	Lens type	Voltage	Options/ Accessories
AF	1	6	AR Clear	(blank) Specular	(blank) No lens	120	See pages 221-225.
	2 ¹	8	PR Pewter	low iridescent	CGL Clear glass lens	277	
	3 ²	10	UBR Umber	LD Semi-diffuse	CAL Clear acrylic lens	347	
	Wattage/lamp		WTR Wheat	low iridescent	PCL Clear polycarbonate lens	MVOLT ⁶	
	18TRT		CR Champagne gold ⁴		T73 Tempered prismatic lens		
26TRT		GR Gold ⁴		A12 Prismatic acrylic lens			
32TRT		WR White painted ⁵		PPC Prismatic polycarbonate lens			
42TRT		MB Black baffle ⁵					
57TRT ³		WB White baffle ⁵					
		BC Black cone ⁵					

Example: **AF 1/32TRT 8AR 120**

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



NOTES:

- 1 Available in 8" and 10" only.
- 2 Available in 10" only.
- 3 Available in 10" 1 or 2 lamp or 8" 1 lamp. For use with Sylvania lamp only.
- 4 Not recommended for use with compact fluorescent lamp. Consult factory.
- 5 Not available with finishes.
- 6 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

STANDARD PACKAGING

To order, use a single master catalog number.
Example: (13) **AF 1/32TRT 8AR 120**

Fixture ships as multiple components using optimized packaging. Example above ships as:

(Qty 13) **GRSF 1/26-42TRT¹ 8 MVOLT HSG U**
(13 cartons of 1 housing)

(Qty 12) **AF 1 8AR TRT TRIM J4** (3 cartons of 4 reflectors)
(Qty 1) **AF 1 8AR TRT TRIM U** (1 carton of 1 reflector)

NOTES:

- 1 Housing will break out with multi-watt ballast where available.

Cat. No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
AF 6	7-1/4 (18.4)	13-5/8 (34.6)	15-7/8 (40.3)	6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
AF 8	8-1/4 (21.0)	17-3/4 (45.1)	17-3/8 (44.1)	7-7/8 (20.0)	8-7/8 (22.5)	9-1/4 (23.5)
AF 10	9-3/4 (24.8)	17-3/4 (45.1)	17-3/8 (44.1)	9-3/4 (24.8)	10-1/2 (26.7)	11-1/8 (28.3)

Intended Use

For general downlight applications that demand superior brightness control in shallow plenum areas.

Features

Optical System – Self-flanged, specular clear or semi-diffuse reflector. Bounding Ray™ Optical Principle provides lamp before lamp image, lamp image that reflects smoothly from the top of the reflector to the aperture, and optimal fixture performance and efficiency. Optional lens positioned at optical break provides optimal visual comfort and improved aperture aesthetics. Controlled anodizing process suppresses iridescence. Hinged lamp-door reduces stray light in the plenum.

Electrical System: Horizontally-mounted, four-pin, positive-latch thermoplastic socket(s). Socket housing ventilated for convective cooling. Class P, thermally-protected, high power factor electronic ballast(s) mounted to the junction box.

Mounting: 16-gauge galvanized steel mounting/plaster frame with thru-wire junction box. Integral yoke utilized to retain optical system. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings – Fixtures are UL listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

AFW

Horizontal Lamp

Triple-Tube (TRT)

Intended Use

For general downlight wallwash applications that demand superior brightness control and uniform vertical illumination in shallow plenum areas.

Features

Optical System – Self-flanged, specular clear or semi-diffuse reflector. Bounding Ray™ Optical Principle provides lamp before lamp image, lamp image that reflects smoothly from the top of the reflector to the aperture, and optimal fixture performance and efficiency. Controlled anodizing process suppresses iridescence. Patented hybrid wallwash kicker provides uniform vertical illumination with light high on the wall close to the ceiling and no roomside “back-flash.” Hinged lamp-door reduces stray light in the plenum.

Electrical System – Horizontally-mounted, four-pin, positive-latch thermoplastic socket(s). Socket housing ventilated for convective cooling. Class P, thermally-protected, high power factor electronic ballast(s) mounted to the junction box.

Mounting – 16-gauge galvanized steel mounting/plaster frame with thru-wire junction box. Integral yoke utilized to retain optical system. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings – Fixtures are UL Listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.



Example: **AFW 1/32TRT 8AR 120**

Ordering Information

Series	Wattage/lamp	Trim color	Finish	Lens type	Voltage	Options/Accessories
AFW	18TRT	AR Clear	(blank) Specular low iridescent	(blank) No lens	120	See pages 221-225.
	26TRT	PR Pewter	LD Semi-diffuse low iridescent	CGL Clear glass lens	277	
	32TRT	UBR Umber		CAL Clear acrylic lens	347	
	42TRT	WTR Wheat		PCL Clear polycarbonate lens	MVOLT ⁶	
	57TRT ³	CR Champagne gold ⁴				
		GR Gold ⁴				
		WR White painted ⁵				
	No. of lamps	Aperture				
	1	6				
	2 ¹	8				
	3 ²	10				

STANDARD PACKAGING

To order, use a single master catalog number.
Example: (13) **AFW 32TRT 8AR 120**

Fixtures ship as multiple components using optimized packaging. Example above ships as:

(Qty 13) **GRSF 1/26-42TRT 8 MVOLT HSG U**
(13 cartons of 1 housing)

(Qty 13) **AFW 1 8AR TRT TRIM U** (13 cartons of 1 reflector)

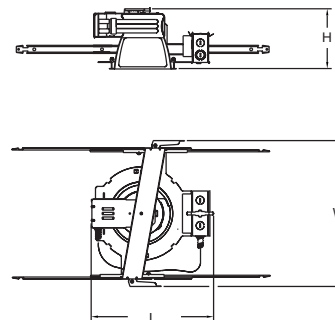
NOTES:

1 Housing will break out with multi-watt ballast where available.

NOTES:

- 1 Available in 8" and 10" only.
- 2 Available in 10" only.
- 3 Available in 10" 1 or 2 lamp or 8" 1 lamp. For use with Sylvania lamp only.
- 4 Not recommended for use with compact fluorescent lamp. Consult factory.
- 5 Not available with finishes.
- 6 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



Cat. No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
AFW 6	7-1/4 (18.4)	13-5/8 (34.6)	15-7/8 (40.3)	6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
AFW 8	8-1/4 (21.0)	17-3/4 (45.1)	17-3/8 (44.1)	7-7/8 (20.0)	8-7/8 (22.5)	9-1/4 (23.5)
AFW 10	9-3/4 (24.8)	17-3/4 (45.1)	17-3/8 (44.1)	9-3/4 (24.8)	10-1/2 (26.7)	11-1/8 (28.3)

AF

Horizontal Lamp

Triple-Tube (TRT)



Cross Baffle Reflector

Intended Use

For general downlight applications that demand superior brightness control in shallow plenum areas. Cross baffle reflector provides additional shielding.

Features

Optical System – Self-flanged, specular clear or semi-diffuse reflector with cross baffle that offers optical cut-off with a clean aperture appearance. Bounding Ray™ Optical Principle provides lamp before lamp image, lamp image that reflects smoothly from the top of the reflector to the aperture, and optimal fixture performance and efficiency. Controlled anodizing process suppresses iridescence. Hinged lampdoor reduces stray light in the plenum.

Electrical System – Horizontally-mounted, four-pin, positive-latch thermoplastic socket(s). Socket housing ventilated for convective cooling. Class P, thermally-protected, high power factor electronic ballast(s) mounted to the junction box.

Mounting – 16-gauge galvanized steel mounting/plaster frame with thru-wire junction box. Integral yoke utilized to retain optical system. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

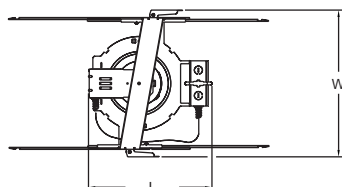
Listings – Fixtures are UL listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

Example: **AF 1/32TRT 8CB 120**

Series	No. of lamps	Wattage/lamp	Aperture	Trim color	Finish	Lens type	Voltage	Options/Accessories
AF	1	18TRT	6	CB Clear cross baffle	(blank) Specular low iridescent LD Semi-diffuse low iridescent	(blank) No lens	120	See pages 221-225.
	2 ¹	26TRT	8			CGL Clear glass lens	277	
	3 ²	32TRT	10			CAL Clear acrylic lens	347	
		42TRT		PCL Clear polycarbonate lens		MVOLT ⁴		
		57TRT ³		T73 Tempered prismatic lens				
					A12 Prismatic acrylic lens			
					PPC Prismatic polycarbonate lens			

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



NOTES:

- 1 Available in 8" and 10" only.
- 2 Available in 10" only.
- 3 Available in 10" 1 or 2 lamp or 8" 1 lamp. For use with Sylvania lamp only.
- 4 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

STANDARD PACKAGING

To order, use a single master catalog number.

Example: (13) **AF 1/32TRT 8CB 120**

Fixtures ship as multiple components using optimized packaging. Example above ships as:

(Qty 13) **GRSF 1/26-42TRT³ 8 MVOLT HSG U**
(13 cartons of 1 housing)

(Qty 13) **AF 1 8CB TRT TRIM U** (13 cartons of 1 reflector)

NOTES:

- 1 Housing will break out with multi-watt ballast where available.

Cat. No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
AF 6	7-1/4 (18.4)	13-5/8 (34.6)	15-7/8 (40.3)	6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
AF 8	8-1/4 (21.0)	17-3/4 (45.1)	17-3/8 (44.1)	7-7/8 (20.0)	8-7/8 (22.5)	9-1/4 (23.5)
AF 10	9-3/4 (24.8)	17-3/4 (45.1)	17-3/8 (44.1)	9-3/4 (24.8)	10-1/2 (26.7)	11-1/8 (28.3)

Cross Baffle Reflector, Low Profile

Fluorescent Downlighting

AFZ/AFZW

Horizontal Lamp

Double Twin-Tube (DTT)

Intended Use

For general downlight and wallwash applications that demand superior brightness control in shallow plenum areas. Cross baffle reflector provides additional shielding.

Features

Downlight Optical System – Specular clear upper reflector. Self-flanged, specular clear, semi-diffuse or highly specular cross baffle. Optical system optimally balances brightness control and high efficiency. Lamp is visible before reflected lamp image. Controlled anodizing process suppresses iridescence.

Wallwash Optical System – Specular clear upper reflector. Self-flanged, specular clear, semi-diffuse or highly specular wallwash cross baffle. Optical system designed to deliver a uniform distribution of light to the wall. Controlled anodizing process suppresses iridescence.

Electrical System – Die-cast aluminum socket housing ventilated for convective cooling. Horizontally-mounted, positive-latch thermoplastic sockets. Class P, thermally-protected, high power factor ballast(s) mounted to the junction box.

Mounting – 16-gauge galvanized steel mounting/plaster frame with thru-wire junction box. Integral yoke used to retain optical system. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings – Fixtures are UL listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.



Ordering Information

Example: **AFZW 2/26DTT 84A 120**

Series	Wattage/lamp	Aperture/trim color	Finish	Voltage	Options/Accessories
AFZ	2/13DTT	84A Clear	(blank) Specular low iridescent	120	See pages 221-225.
AFZW	2/18DTT	84P Pewter	LD Semi-diffuse low iridescent	277	
	2/26DTT	84UB Umber	LS Highly specular	347	
		84WT Wheat		MVOLT⁴	
		84C Champagne gold ¹			
		84G Gold ¹			
		84W White painted ^{2,3}			

STANDARD PACKAGING

To order, use a single master catalog number.
Example: (13) **AFZW 2/26DTT 84A 120**.

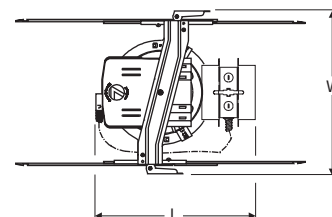
Fixtures ship as multiple components using optimized packaging. Example above ships as:

(Qty 13) **AFZ 2/26DTT 8 120 HSG U** (13 cartons of 1 housing)
(Qty 12) **AFZW 84A TRIM J4** (3 cartons of 4 reflectors)
(Qty 1) **AFZW 84A TRIM U** (1 carton of 1 reflector)

NOTES:

- 1 Not recommended for use with compact fluorescent lamps. Consult factory.
- 2 Not recommended for use with AFZW.
- 3 Not available with finishes.
- 4 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.

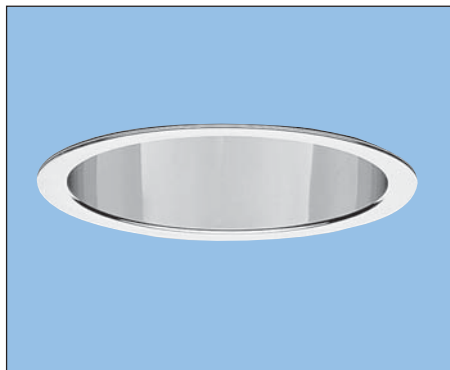


Cat. No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
AFZ/AFZW	4-5/8 (11.7)	15-3/8 (39.1)	15-7/8 (40.3)	7-7/8 (20.0)	8-1/2 (21.6)	9-1/8 (23.2)

AFV

Vertical Lamp

Double Twin-Tube (DTT)
Triple-Tube (TRT)



Open or Lensed Reflector

Intended Use

For general downlight applications that demand high efficiency and low aperture brightness.

Features

Optical System – Self-flanged, specular clear or semi-diffuse reflector. Patented Vertisys® optical design (U.S. Patent No. 5,800,050) provides lamp before lamp image, lamp image that reflects smoothly from the top of the reflector to the aperture, and optimal fixture performance and efficiency. Controlled anodizing process suppresses iridescence.

Electrical System – Rugged aluminum socket housing. Vertically-mounted, positive-latch, thermoplastic socket. Class P, thermally-protected, high power factor ballast mounted to the junction box.

Mounting – 16-gauge galvanized steel mounting/plaster frame with thru-wire junction box. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings – Fixtures are UL listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

Example: **AFV 26TRT 6AR 120**

Series	Wattage/lamp	Aperture	Trim color	Finish	Lens type	Voltage	Options/Accessories
AFV		4 ¹	AR Clear	(blank) Specular low iridescent	(blank) No lens	120	See pages 221-225.
	13DTT	5 ²	PR Pewter	LD Semi-diffuse low iridescent	CGL Clear glass lens	277	
	18DTT	6	UBR Umber		CAL Clear acrylic lens	347	
	26DTT	8	WTR Wheat		PCL Clear polycarbonate lens	MVOLT⁵	
	18TRT		CR Champagne gold ³		T73 Tempered prismatic lens		
	26TRT		GR Gold ³		A12 Prismatic acrylic lens		
	32TRT		WR White painted ⁴		PPC Prismatic polycarbonate lens		
	42TRT		MB Black baffle ⁴				
			WB White baffle ⁴				

NOTES:

- 1 Available in 13DTT, 18TRT and 26TRT lamp only.
- 2 Available in 13DTT, 18TRT, 26TRT and 32TRT lamp only.
- 3 Not recommended for use with compact fluorescent lamps. Consult factory.
- 4 Not available with finishes.
- 5 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

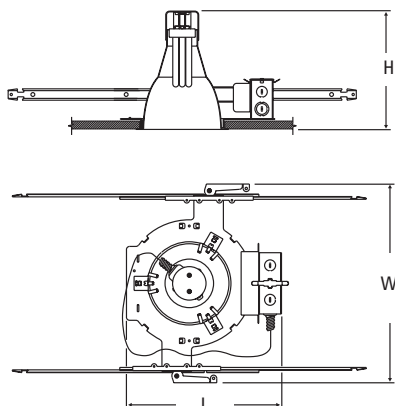
STANDARD PACKAGING

To order, use a single master catalog number.
Example: (13) **AFV 26TRT 6AR 120**

Fixtures ship as multiple components using optimized packaging. Example above ships as:

- (Qty 13) **AFV 26TRT 6 MVOLT HSG** (13 cartons of 1 housing)
- (Qty 12) **AFV 6AR TRT TRIM J4** (3 cartons of 4 reflectors)
- (Qty 1) **AFV 6AR TRT TRIM U** (1 carton of 1 reflector)

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



Catalog No.	Lamp	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
AFV 4	DTT, TRT	9-3/8 (23.8)	13 (33.0)	15-7/8 (40.3)	4-5/16 (11.0)	5-1/8 (13.0)	5-7/16 (13.8)
AFV 5	DTT, TRT	9-1/16 (23.0)	13 (33.0)	15-7/8 (40.3)	5 (12.7)	5-5/8 (14.3)	6-1/4 (15.9)
AFV 6	DTT, 42TRT	10-13/16 (27.5)	13 (33.0)	15-7/8 (40.3)	6-1/4 (15.9)	6-7/8 (17.5)	7-1/2 (19.1)
AFV 6	13DTT, TRT	9-5/8 (24.4)	13 (33.0)	15-7/8 (40.3)	6-1/4 (15.9)	6-7/8 (17.5)	7-1/2 (19.1)
AFV 8	DTT, 42TRT	11-1/2 (29.2)	14 (35.6)	15-7/8 (40.3)	7-7/8 (20.0)	8-1/2 (21.6)	9-1/8 (23.2)
AFV 8	13DTT, TRT	10-5/16 (26.2)	14 (35.6)	15-7/8 (40.3)	7-7/8 (20.0)	8-1/2 (21.6)	9-1/8 (23.2)

AFWW

Vertical Lamp

Double Twin-Tube (DTT)
Triple-Tube (TRT)

Intended Use

For general downlight wallwash applications that demand high efficiency, uniform vertical illumination and low aperture brightness.

Features

Optical System – Self-flanged, specular clear or semi-diffuse reflector. Patented Vertisys® optical design (U.S. Patent No. 5,800,050) provides lamp before lamp image, lamp image that reflects smoothly from the top of the reflector to the aperture, and optimal fixture performance and efficiency. Controlled anodizing process suppresses iridescence. Patented hybrid wallwash kicker provides uniform vertical illumination with light high on the wall close to the ceiling and no roomside “back-flash.”

Electrical System – Rugged aluminum socket housing. Vertically-mounted, positive-latch thermoplastic socket. Class P, thermally-protected, high power factor ballast mounted to the junction box.

Mounting – 16-gauge galvanized steel mounting frame with thru-wire junction box. Integral yoke and flat spring utilized to retain optical system. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings – Fixtures are UL listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.



Example: **AFWW 26TRT 6AR 120**

Ordering Information

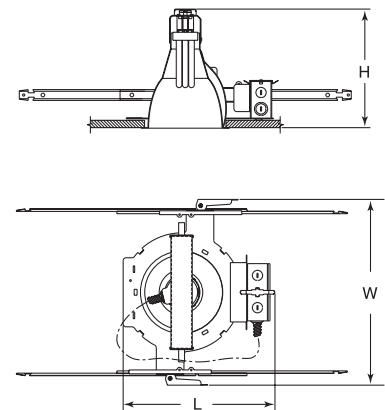
Series	Wattage/lamp	Aperture	Trim color	Finish	Lens type	Voltage	Options/ Accessories
AFWW	13DTT	4¹	AR Clear	(blank) Specular low iridescent	(blank) No lens	120	See pages 221-225.
	18DTT	5²	PR Pewter	LD Semi-diffuse low iridescent	CGL Clear glass lens	277	
	26DTT	6	UBR Umber		CAL Clear acrylic lens	347	
	18TRT	8	WTR Wheat	CR Champagne gold ³	PCL Clear polycarbonate lens	MVOLT⁵	
	26TRT		GR Gold ³				
	32TRT		WR White painted ⁴				
	42TRT						

STANDARD PACKAGING
To order, use a single master catalog number.
Example: (13) **AFWW 26TRT 6AR 120**
Fixtures ship as multiple components using optimized packaging. Example above ships as:
(Qty 13) **AFWW 26TRT 6 MVOLT HSG** (13 cartons of 1 housing)
(Qty 13) **AFWW 6AR TRT TRIM U** (13 cartons of 1 reflector)

NOTES
1 Available in 13DTT, 18TRT and 26TRT lamp only.
2 Available in 13DTT, 18TRT, 26TRT and 32TRT lamp only.
3 Not recommended for use with compact fluorescent lamps. Consult factory.
4 Not available with finishes.
5 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.

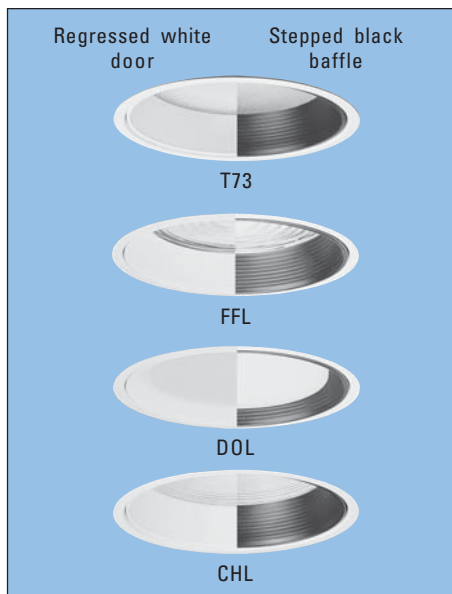
Cat. No.	Lamp	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
AFWW 4	DTT, TRT	9-3/8 (23.8)	13 (33.0)	15-7/8 (40.3)	4-5/16 (11.0)	5-1/8 (13.0)	5-7/16 (13.8)
AFWW 5	DTT, TRT	9-1/2 (24.1)	13 (33.0)	15-7/8 (40.3)	5 (12.7)	5-3/4 (14.6)	6-1/4 (15.9)
AFWW 6	DTT, 42TRT	11-1/4 (28.6)	13 (33.0)	15-7/8 (40.3)	6-1/4 (15.9)	7 (17.8)	7-1/2 (19.1)
AFWW 6	13DTT, TRT	10-1/16 (25.6)	13 (33.0)	15-7/8 (40.3)	6-1/4 (15.9)	7 (17.8)	7-1/2 (19.1)
AFWW 8	DTT, 42TRT	12 (30.5)	17 (43.2)	17-3/8 (44.1)	7-7/8 (20.0)	8-3/4 (22.2)	9-1/8 (23.2)
AFWW 8	13DTT, TRT	10-3/4 (27.3)	17 (43.2)	17-3/8 (44.1)	7-7/8 (20.0)	8-3/4 (22.2)	9-1/8 (23.2)



LGF

Horizontal Lamp

Double Twin-Tube (DTT)
Triple-Tube (TRT)



Round Lens

Intended Use

For downlight applications such as offices, corridors, lobbies, retail and reception areas requiring enclosed optics in shallow plenum areas.

Features

Reflector – Semi-specular clear anodized aluminum upper reflector. White-painted flange.

Door – Regressed White Door (RW), Flush White Door (FW) or Stepped Black Baffle (SB) are available. Door is retained by two self-aligning, torsion support springs.

Lens – Available with Tempered Prismatic Lens (T73), Flat Fresnel Lens (FFL), Drop Opal Lens (DOL) or Concave Holophane Lens (CHL).

Electrical System – Horizontally-mounted, positive-latch, thermoplastic socket(s). Socket housing ventilated for convective cooling. Class P, thermally-protected, high power factor ballast(s) mounted to the junction box.

Mounting – 16-gauge galvanized steel mounting/plaster frame with thru-wire junction box. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

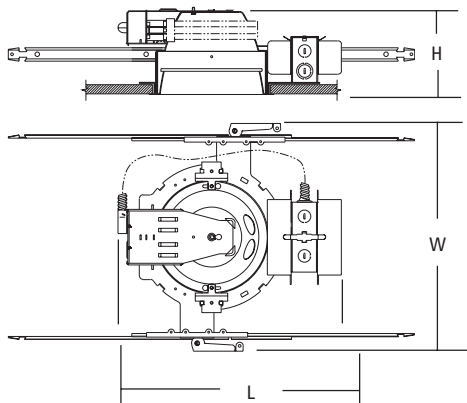
Listings – Fixtures are UL listed for thru-branch wiring, recessed mounting and wet locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

Series	No. of lamps	Wattage/lamp	Aperture	Door frame	Lens Type	Voltage	Options/Accessories
LGF	1 2 3 ¹	13DTT 18DTT 26DTT 18TRT ² 26TRT ² 32TRT ² 42TRT ²	7 9 12	RW Regressed white door FW Flush white door ³ SB Stepped black baffle	T73 Tempered prismatic lens FFL Flat Fresnel lens DOL Drop opal lens ⁴ CHL Concave Holophane lens	120 277 347 MVOLT ⁵	See pages 221-225.

Example: **LGF 2/26DTT 7RW T73 120**

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



NOTES:

- Available in 12" only. Not available with TRT lamps.
- Available in 7" or 9" 1-lamp or 12" 1-lamp or 2-lamp.
- Available in 7" and 9" only.
- Available in 9" only.
- Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

STANDARD PACKAGING

To order, use a single master catalog number.
Example: (13) **LGF 2/26DTT 7RW T73 120**.

Fixtures ship as multiple components using optimized packaging. Example above ships as:

- (Qty 13) **GRSF 2/26DTT 7 120 HSG U** (13 cartons of 1 housing)
- (Qty 13) **LGF 2 7RW T73 TRIM U** (13 cartons of 1 reflector)

Cat. No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
LGF 7	6 (15.2)	15-1/2 (39.4)	15-7/8 (40.3)	7-1/8 (18.1)	8-1/8 (20.6)	8-5/8 (21.9)
LGF 9	6 (15.2)	18-1/8 (46.0)	17-3/8 (44.1)	8-3/4 (22.2)	9-3/4 (24.8)	10-1/4 (26.0)
LGF 12	8-1/4 (21.0)	22-7/8 (58.1)	17-3/8 (44.1)	11-7/16 (29.0)	12-1/2 (31.8)	13 (33.0)

LGFV

Vertical Lamp

Triple-Tube (TRT)

Intended Use

For downlight applications such as offices, corridors, lobbies, retail and reception areas requiring enclosed optics, high efficiency and low aperture brightness.

Features

Reflector – Semi-specular clear anodized aluminum upper reflector. White-painted flange.

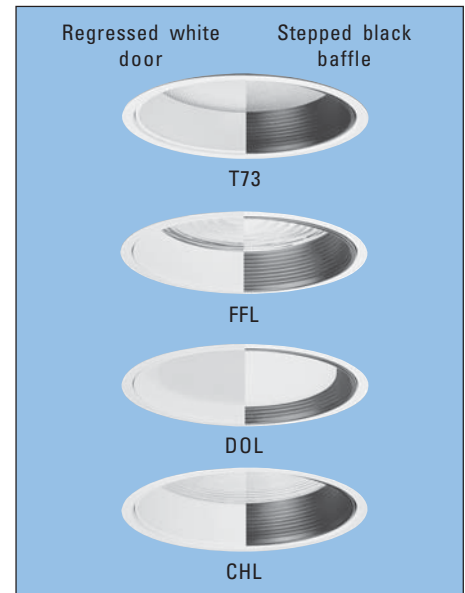
Door – Regressed White Door (RW), Flush White Door (FW) or Stepped Black Baffle (SB) are available. Door is retained by two self-aligning, torsion support springs.

Lens – Available with Tempered Prismatic Lens (T73), Flat Fresnel Lens (FFL), Drop Opal Lens (DOL) or Concave Holophane Lens (CHL).

Electrical System – Vertically-mounted, positive-latch, thermoplastic socket. Socket housing ventilated for convective cooling. Class P, thermally-protected, high power factor electronic ballast mounted to the junction box.

Mounting – 16-gauge galvanized steel mounting/plaster frame with thru-wire junction box. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings – Fixtures are UL listed for thru-branch wiring, recessed mounting and wet locations. Listed and labeled to comply with Canadian Standards.



Ordering Information

Series	Wattage/lamp	Aperture	Door frame	Lens type
LGFV				
	18TRT	7	RW Regressed white door	T73 Tempered prismatic lens
	26TRT	9	FW Flush white door ¹	FFL Flat Fresnel lens
	32TRT	12	SB Stepped black baffle	DOL Drop opal lens ²
	42TRT			CHL Concave Holophane lens ³

Example: LGFV 26TRT 7RW T73 120

Voltage	Options/Accessories
120	See pages 221-225.
277	
347	
MVOLT⁴	

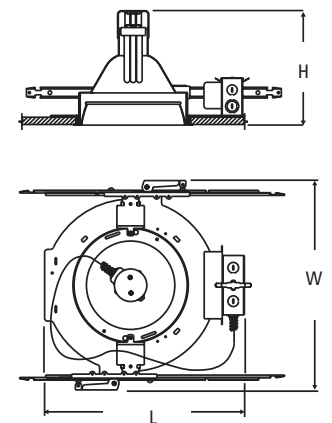
NOTES:

- Available in 7" and 9" only.
- Available in 9" only.
- Not available with 42TRT.
- Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

STANDARD PACKAGING
 To order, use a single master catalog number.
 Example: (13) **LGFV 26TRT 7RW T73 120**.
 Fixtures ship as multiple components using optimized packaging. Example above ships as:
 (Qty 13) **LGFV 26TRT 7 MVOLT HSG** (13 cartons of 1 housing)
 (Qty 12) **LGFV 7RW T73 TRIM J4** (3 cartons of 4 reflectors)
 (Qty 1) **LGFV 7RW T73 TRIM U** (1 carton of 1 reflector)

Cat. No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
LGFV 7	9-15/16 (25.2)	13-5/8 (34.6)	15-7/8 (40.3)	7-1/8 (18.1)	8-1/8 (20.6)	8-5/8 (21.9)
LGFV 9	9-13/16 (24.9)	17-3/4 (45.1)	17-3/8 (44.1)	8-3/4 (22.2)	9-3/4 (24.8)	10-1/4 (26.0)
LGFV 12	12 (30.5)	17-3/4 (45.1)	17-3/8 (44.1)	11-7/16 (29.1)	12-1/2 (31.8)	13 (33.0)

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.

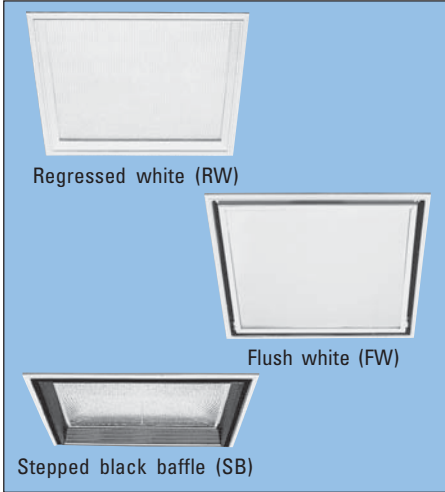


Square Lens

LAF

Horizontal Lamp

Double Twin-Tube (DTT)
Triple-Tube (TRT)



Intended Use

Provides uniform general illumination for institutional, office, commercial and retail applications.

Features

Reflector – Semi-specular clear anodized aluminum upper reflector.

Door – Die-cast aluminum door frame with gasketed flange. Regressed White Door (RW), Stepped Black Baffle (SB), Stepped White Baffle (SW) or Flush White Door (FW) available. White-painted flange.

Lens – Available with Tempered Prismatic Lens (T73), Semi-Flush Lens (SFL), Drop Opal Lens (DOL), Flat Fresnel Lens (FFL), Flat Holophane Lens (FHL) or Drop Holophane Lens (DHL).

Electrical System – Horizontally-mounted, positive-latch, thermoplastic sockets. Class P, thermally-protected, high power factor ballast(s).

Mounting – 16-gauge galvanized steel thru-wire junction box with bottom-hinged access covers and spring latches. Telescoping mounting bracket with integral nailer tabs. Expandable mounting bars provide horizontal and vertical adjustment.

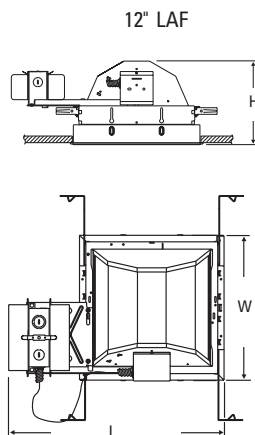
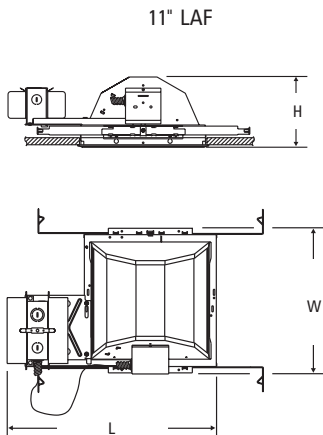
Listings – Fixtures are UL listed for thru-branch wiring, recessed mounting and wet locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

Example: **LAF 2/26DTT 11RW T73 120**

Series	Wattage/lamp	Aperture/Door Frame	Lens Type ¹	Voltage	Options/Accessories
LAF	2/13DTT 2/18DTT 2/26DTT 2/18TRT 2/26TRT 2/32TRT 2/42TRT	11RW Regressed white door 12SB Stepped black baffle 12SW Stepped white baffle 12FW Flush white door	11" T73 Tempered prismatic lens SFL Semi-flush lens DOL Drop opal lens 12" T73 Tempered prismatic lens FFL Flat Fresnel lens FHL Flat Holophane lens DHL Drop Holophane lens	120 277 347 MVOLT ²	See pages 221-225..

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



NOTES:

- See specification sheets for additional lens types.
- Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

STANDARD PACKAGING

To order, use a single master catalog number.
Example: (13) LAF 2/26DTT 11RW T73 120.

Fixtures ship as multiple components using optimized packaging. Example above ships as:

- (Qty 13) LAF 2/26DTT 11 120 HSG (13 cartons of 1 housing)
- (Qty 12) LA 11RW T73 TRIM J6 (2 cartons of 6 trims)
- (Qty 1) LA 11RW T73 TRIM U (1 carton of 1 trim)

Cat. No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
LAF 11	6 (15.2)	17-1/2 (44.5)	12-1/8 (30.8)	10-1/2 (26.7)	11-1/4 (28.6)	11-5/8 (29.5)
LAF 12	7-3/4 (19.7)	18 (45.7)	12-1/8 (30.8)	10-7/8 (27.6)	12-1/4 (31.1)	12-5/8 (32.1)

DFW

Angled Lamp

Double Twin-Tube (DTT)
Triple-Tube (TRT)

Intended Use

For downlight wallwash applications requiring a uniform wallwash distribution.

Features

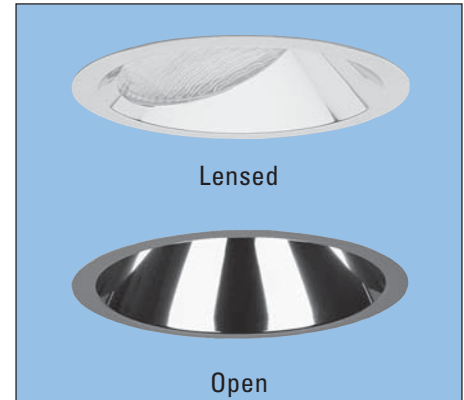
Lensed Optical System (7") – Self-flanged, specular clear, semi-diffuse or highly specular splay with a concave, heat-resistant spread lens. Optical system designed to deliver a uniform distribution of light to the wall. Controlled anodizing process suppresses iridescence.

Open Optical System (8") – Self-flanged, specular clear, semi-diffuse or highly specular cone. Optical system designed to deliver a uniform distribution of light to the wall while maintaining extreme low brightness on room side. Controlled anodizing process suppresses iridescence.

Electrical System – Positive-latch, thermo-plastic socket(s). Class P, thermally-protected, high power factor ballast(s) mounted to the junction box.

Mounting – 16-gauge galvanized steel mounting/plaster frame with thru-wire junction box. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings – Fixtures are UL listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.



Ordering Information

Example: **DFW 2/26DTT 7ASL 120**

Series	Wattage/lamp	Aperture/Trim color/Type		Finish	Voltage	Options/Accessories
DFW	2/13DTT	<i>Lensed</i>		(blank)	120 277 347 MVOLT ⁴	See pages 221-225.
	2/18DTT	7ASL Clear	8ACT Clear	Specular low iridescent		
	2/26DTT	7PSL Pewter	8PCT Pewter	LD Semi-diffuse low iridescent		
	1/18TRT ¹	7UBSL Umber	8UBCT Umber	LS Highly specular		
	1/26TRT ¹	7WTSL Wheat	8WTCT Wheat			
	1/32TRT ¹	7CSL Champagne gold ²	8CCT Champagne gold ²			
	1/42TRT ¹	7GSL Gold ²	8GCT Gold ²			
		7BSL Black ³	8BCT Black ³			

NOTES:

- 1 Available in lensed trim type only.
- 2 Not recommended for use with compact fluorescent lamps. Consult factory.
- 3 Not available with finishes.
- 4 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

STANDARD PACKAGING

To order, use a single *master* catalog number.
Example: (13) DFW 2/26DTT 7ASL 120

Fixtures ship as multiple components using *optimized* packaging. Example above ships as:

- (Qty 13) DFW 2/26DTT 7 120 HSG (13 cartons of 1 housing)
- (Qty 13) DFW 7ASL SPLAY (13 cartons of 1 reflector)

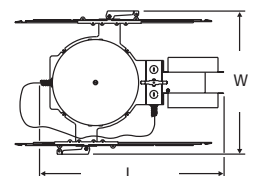
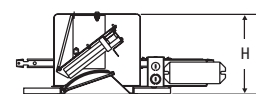
Example: (13) DFW 2/26DTT 8ACT 120

- (Qty 13) DFW 2/26DTT 8 120 HSG (13 cartons of 1 housing)
- (Qty 13) DFW 8ACT TRIM (13 cartons of 1 reflector)

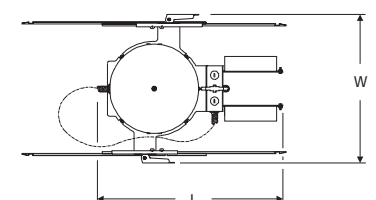
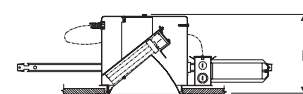
Cat. No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
DFW 7	8-5/8 (21.9)	15-1/2 (39.4)	15-7/8 (40.3)	7-3/8 (18.7)	8-1/8 (20.6)	8-3/4 (22.2)
DFW 8	8-5/8 (21.9)	15-1/2 (39.4)	15-7/8 (40.3)	7-7/8 (20.0)	8-1/2 (21.6)	9-1/4 (23.5)

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

7" Lensed Wallwash



8" Open Wallwash



Open Cylinders

CF

Horizontal Lamp

Double Twin-Tube (DTT)
Triple-Tube (TRT)



Intended Use

Provides general illumination with superior brightness control. Lamp and aperture combinations allow for use in atriums, corridors, restrooms, retail areas, public areas, transit areas, etc.

Features

Optical System – Self-flanged, specular clear, semi-diffuse or highly specular reflector. Bounding Ray™ Optical Principle provides lamp before lamp image, lamp image that reflects smoothly from the top of the reflector to the aperture, and optimal fixture performance and efficiency. Controlled anodizing process suppresses iridescence.

Housing – Aluminum housing with integral bottom deck for clean appearance. Reveal on standard ceiling and optional pendant mount give floating luminaire appearance.

Electrical System – Horizontally-mounted, positive-latch, thermoplastic socket(s). Class P, thermally protected, high power factor ballast(s).

Mounting – Ceiling-mount (standard), wall-mount or pendant-mount available.

Listings – Fixtures are UL listed for damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

Example: **CF11 2/26TRT 10AR 120**

Series ¹	No. of lamps	Wattage/lamp	Aperture ⁵	Trim color	Finish	Voltage	Options/Accessories
CF10 ² CF11 ³	1 2 3 ⁴	13DTT 18DTT 26DTT 18TRT 26TRT 32TRT 42TRT 57TRT	6 8 10	AR Clear PR Pewter UBR Umber WTR Wheat CR Champagne gold ⁶ GR Gold ⁶	(blank) Specular low iridescent LD Semi-diffuse low iridescent LS Highly specular	120 277 347 MVOLT ⁷	See pages 221-225.

NOTES:

- Matte white finish (DWHG) standard. Optional colors available. Refer to *Architectural Colors* brochure.
- Available in 6" only.
- Available in 8" or 10" only.
- Available in 10" DTT lamps only.
- Refer to chart for number of lamps and lamp type availability.
- Not recommended for use with compact fluorescent lamps. Consult factory.
- Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

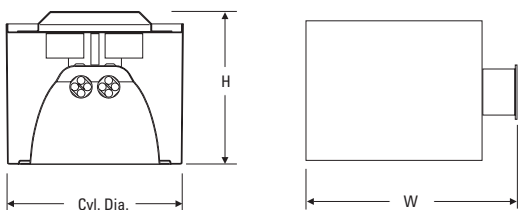
STANDARD PACKAGING

To order, use a single master catalog number. Example: (13) **CF11 2/26TRT 10AR 120**.

Fixtures ship complete in unit cartons only. Example above ships as:

(Qty 13) **CF11 2/26TRT 10AR MVOLT DWHG**
(13 cartons of 1 fixture)

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



Cat. No.	Aperture	No. of Lamps/Lamp Type	Cylinder Diameter	Height (H)	Wall Mount Width (W)
CF10	6 (15.2)	1 or 2 DTT	9-3/4 (24.8)	9-1/2 (24.1)	13 (33.0)
CF11	8 (20.3)	1 or 2 DTT/ 1 TRT	10-3/4 (27.3)	9-3/8 (23.8)	14 (35.6)
CF11	10 (25.4)	1, 2 or 3 DTT	11-5/16 (28.7)	10-1/4 (26.0)	14-9/16 (39.0)
CF11	10 (25.4)	1 or 2 TRT	11-5/16 (28.7)	10-1/4 (26.0)	14-9/16 (39.0)

Open Cylinders, Cross Baffle Reflector

Fluorescent Surface-Mount

CFZ

Horizontal Lamp

Double Twin-Tube (DTT)

Intended Use

Provides general illumination for low to mid height ceilings. Use in corridors, restrooms, retail areas, offices, etc. Cross blade baffle controls brightness and complements parabolic luminaires.

Features

Optical System – Specular clear upper reflector. Self-flanged, specular clear, semi-diffuse or highly specular cross baffle. Optical system optimally balances brightness control and high efficiency. Lamp is visible before reflected lamp image. Controlled anodizing process suppresses iridescence.

Housing – Aluminum housing with integral bottom deck for clean appearance. Reveal on standard ceiling and optional pendant mount give floating luminaire appearance.

Electrical System – Horizontally-mounted, positive-latch, thermoplastic sockets. Class P, thermally-protected, high power factor ballast(s).

Mounting – Ceiling-mount (standard), wall-mount or pendant-mount available.

Listings – Fixtures are UL listed for damp locations. Listed and labeled to comply with Canadian Standards.



Example: **CFZ11 2/26DTT 84A 120**

Ordering Information

Series ¹	Wattage/ lamp	Aperture/Trim color	Finish	Voltage	Options/ Accessories
CFZ11	2/13DTT	84A Clear	(blank) Specular low iridescent	120	See pages 221-225.
CFZ12²	2/18DTT	84P Pewter	LD Semi-diffuse low iridescent	277	
	2/26DTT	84UB Umber	LS Highly specular	347	
		84WT Wheat		MVOLT⁴	
		84C Champagne gold ³			
		84G Gold ³			

NOTES

- 1 Matte white finish (DWHG) standard. Optional colors available. Refer to *Architectural Colors* brochure.
- 2 Available in ceiling-mounted units only.
- 3 Not recommended for use with compact fluorescent lamps. Consult factory.
- 4 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

STANDARD PACKAGING

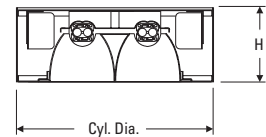
To order, use a single master catalog number.
Example: (13) **CFZ11 2/26DTT 84A 120**.

Fixtures ship complete in unit cartons only. Example above ships as:

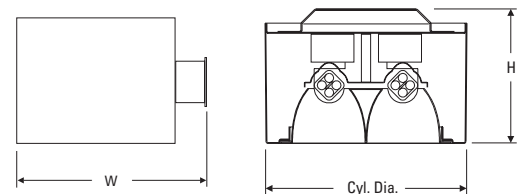
(Qty 13) **CFZ11 2/26DTT 84A MVOLT DWHG**
(13 cartons of 1 fixture)

Cat. No.	Cylinder Diameter	Height (H)	Wall Mount Width (W)	Aperture
CFZ11	10-3/4 (27.3)	7-1/4 (18.4)	14 (35.6)	8 (20.3)
CFZ12	12 (30.5)	4-1/2 (11.4)	N/A	8 (20.3)

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



CFZ12



CFZ11

CFV

Vertical Lamp

Double Twin-Tube (DTT)
Triple-Tube (TRT)



Open Cylinders

Intended Use

Fluorescent cylinders that may be surface, wall or pendant mounted to provide general illumination. Cylinders utilize Vertisys® optics providing excellent brightness control and efficiency. Use in corridors, restrooms, retail areas, offices, schools, etc.

Features

Optical System – Self-flanged, specular clear or semi-diffuse reflector. Patented Vertisys® optical design (U.S. Patent No. 5,800,050) provides lamp before lamp image, lamp image that reflects smoothly from the top of the reflector to the aperture, and optimal fixture performance and efficiency. Controlled anodizing process suppresses iridescence.

Housing – Aluminum housing with top deck for clean appearance. Reflector edge seats flush with cylinder wall for clean, one-piece appearance.

Electrical System – Vertically-mounted, positive-latch thermoplastic socket. Class P, thermally-protected, high power factor ballast.

Mounting – Ceiling-mount (standard) offers patented quick-mount attachment plate for direct installation (U.S. Patent No. 4,300,190). Wall-mount or pendant-mount available.

Listings – Fixtures are UL listed for damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

Example: **CFV8 26TRT 8AR 120**

Series ¹	Wattage/lamp	Aperture	Trim color	Finish	Voltage	Options/Accessories
CFV8 ²		6	AR Clear	(blank) Specular low iridescent	120	See pages 221-225.
CFV9 ³	13DTT 18DTT 26DTT 18TRT 26TRT 32TRT 42TRT	8	PR Pewter UBR Umber WTR Wheat CR Champagne gold ⁴ GR Gold ⁴	LD Semi-diffuse low iridescent	277 347 MVOLT ⁵	

NOTES:

- Matte white finish (DWHG) standard. Optional colors available. See *Architectural Colors* brochure.
- Available in 6" only.
- Available in 8" only.
- Not recommended for use with compact fluorescent lamps. Consult factory.
- Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

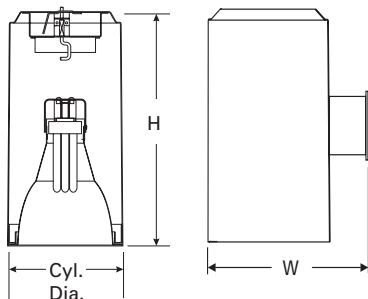
STANDARD PACKAGING

To order, use a single master catalog number.
Example: (13) **CFV9 26TRT 8AR 120**

Fixtures ship complete in unit cartons only. Example above ships as:

(Qty 13) **CFV9 26TRT 8AR MVOLT DWHG**
(13 cartons of 1 fixture)

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



Cat. No.	Cylinder Diameter	Height (H)	Wall Mount Width (W)	Aperture
CFV8	7-5/8 (19.4)	15-1/2 (39.4)	10-7/8 (27.6)	6 (15.2)
CFV9	9-1/4 (23.5)	16 (40.6)	12-1/2 (31.8)	8 (20.3)

CFL

Horizontal Lamp

Double Twin-Tube (DTT)
Triple-Tube (TRT)

Intended Use

Provides general illumination for schools, retail and transit areas, etc. Lens options provide a variety of distributions. Available wall mounted, wet location rated for non-covered applications to provide illumination for exterior columns and facade applications.

Features

Reflector – Semi-specular clear anodized aluminum upper reflector.

Door – Regressed Door (RW), Flush Door (FW) or Stepped Black Baffle (SB) are available. Door is retained by two self-aligning, torsion support springs.

Lens – Available with Tempered Prismatic Lens (T73), Flat Fresnel Lens (FFL), Drop Opal Lens (DOL) or Concave Holographic Lens (CHL).

Housing – Aluminum housing with integral bottom deck for clean appearance. Reveal on standard ceiling and optional pendant mount give floating luminaire appearance.

Electrical System – Horizontally-mounted, positive-latch thermoplastic socket(s). Class P, thermally-protected, high power factor ballast(s).

Mounting – Ceiling-mount (standard), wall-mount or pendant-mount available.

Listings – Fixtures are UL listed for wet locations. Listed and labeled to comply with Canadian Standards.



Ordering Information

Example: **CFL10 1/26TRT 7RW T73 120**

Series ¹	Wattage/lamp	Aperture	Door frame	Lens Type	Voltage	Options/ Accessories
CFL10 ² CFL12 ³	2/13DTT 2/18DTT 2/26DTT 1/18TRT 1/26TRT 1/32TRT 1/42TRT	7 9	RW Regressed door FW Flush door SB Stepped black baffle	T73 Tempered prismatic lens FFL Flat Fresnel lens DOL Drop opal lens ³ CHL Concave Holographic lens	120 277 347 MVOLT ⁴	See pages 221-225.

STANDARD PACKAGING

To order, use a single master catalog number.
Example: (13) **CFL10 1/26TRT 7RW T73 120**.

Fixtures ship complete in unit cartons only. Example above ships as:

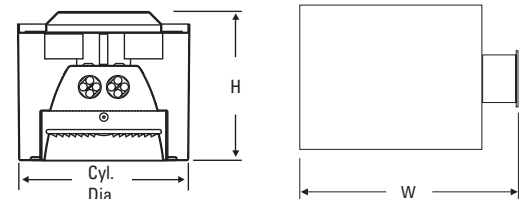
(Qty 13) **CFL10 1/26TRT 7RW T73 MVOLT DWHG**
(13 cartons of 1 fixture)

NOTES:

- 1 Matte white finish (DWHG) standard. Optional colors available. Refer to *Architectural Colors* brochure.
- 2 Available in 7" only.
- 3 Available in 9" only.
- 4 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

Cat. No.	Cylinder Diameter	Height (H)	Wall Mount Width (W)	Aperture
CFL10	10-1/4 (26.0)	9 (22.9)	13-1/2 (34.3)	7 (17.8)
CFL12	11-7/8 (30.2)	9 (22.9)	15-1/8 (38.4)	9 (22.9)



CFVL

Vertical Lamp

Triple-Tube (TRT)



Lensed Cylinders

Intended Use

Provides general illumination for school, retail and transit areas, etc. Lens options provide a variety of distributions. Available wall mounted, wet location rated for non-covered applications to provide illumination for exterior columns and facade applications.

Features

Reflector – Semi-specular clear anodized aluminum upper reflector.

Door – Regressed Door (RW), Flush Door (FW) or Stepped Black Baffle (SB) are available. Door is retained by two self-aligning, torsion support springs.

Lens – Available with Tempered Prismatic Lens (T73), Flat Fresnel Lens (FFL), Drop Opal Lens (DOL) or Concave Holophane Lens (CHL).

Housing – Aluminum housing with top deck for clean appearance. Reflector edge seats flush with cylinder wall for clean, one-piece appearance.

Electrical System – Vertically-mounted, positive-latch thermoplastic socket. Class P, thermally-protected, high power factor ballast.

Mounting – Ceiling mount (standard) offers patented, quick-mount attachment plate for direct installation (U.S. Patent No. 4,300,190). Wall-mount or pendant-mount available.

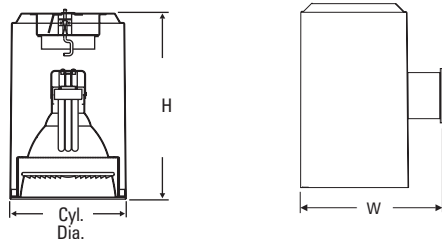
Listings – Fixtures are UL listed for wet locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

Example: **CFVL9 26TRT 7RW T73 120**

Series ¹	Wattage/lamp	Aperture	Door frame	Lens Type	Voltage	Options/Accessories
CFVL9 ²	18TRT	7	RW Regressed door	T73 Tempered prismatic lens	120	See pages 221-225.
CFVL10 ³	26TRT	9	FW Flush door	FFL Flat Fresnel lens	277	
	32TRT		SB Stepped black baffle	DOL Drop opal lens ³	347	
	42TRT			CHL Concave Holophane lens ⁴	MVOLT ⁵	

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



NOTES:

- 1 Matte white finish (DWHG) standard. Optional colors available. Refer to *Architectural Colors* brochure.
- 2 Available in 7" only.
- 3 Available in 9" only.
- 4 Not available with 42TRT.
- 5 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

STANDARD PACKAGING

To order, use a single master catalog number.
Example: (13) CFVL9 26TRT 7RW T73 120

Fixtures ship complete in unit cartons only. Example above ships as:

(Qty 13) CFVL9 26TRT 7RW T73 MVOLT DWHG
(13 cartons of 1 fixture)

Cat. No.	Cylinder Diameter	Height (H)	Wall Mount Width (W)	Aperture
CFVL9	8-3/4 (22.2)	14 (35.6)	12 (30.5)	7 (17.8)
CFVL10	10-3/8 (26.4)	14 (35.6)	13-5/8 (34.6)	9 (22.9)

PDGF

Horizontal Lamp

Triple-Tube (TRT)

Candéo™



Intended Use

Decorative luminaire designed to accentuate the ceiling, adding visual interest.

Features

Optical System – Three-part optical system interacts to create the effect of a clear specular aperture floating within a pool of diffused light. Self-flanged white painted outer cone. Field adjustable to three settings, the inner reflector is painted white on the outer surface with specular clear or semi-diffuse inner surface. Bounding Ray™ Optical Principle provides lamp before lamp image and smooth transition from top of reflector to bottom. Choice of colored diffuser adds visual interest. Controlled anodizing process suppresses iridescence. Hinged lamp door reduces stray light in the plenum.

Electrical System – Horizontally-mounted four-pin, positive-latch thermoplastic socket(s). Socket housing ventilated for convective cooling. Class P, thermally-protected, high power factor electronic ballast(s) mounted to the junction box.

Mounting – 16-gauge galvanized steel mounting/plaster frame with thru-wire junction box. Integral yoke utilized to retain optical system. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings – Fixtures are UL listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

Example: **PDGF 1/32TRT 8AR GRN 120**

Series	No. of lamps	Wattage/lamp	Aperture/Trim color	Finish	Diffuser	Voltage	Options/Accessories
PDGF	1		8AR 8" Clear	(blank) Specular low iridescent	WHT Snow	120	See pages 221-225.
	2	18TRT	10AR 10" Clear	LD Semi-diffuse low iridescent	GRN Sea	277	
	3 ¹	26TRT			BLU Sky	347	
		32TRT			TAN Sand	MVOLT ³	
		42TRT					
		57TRT ²					

NOTES:

- Available in 10AR only.
- Available in 10AR 1- or 2-lamp or 8AR 1-lamp only. For use with Sylvania lamp only.
- Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

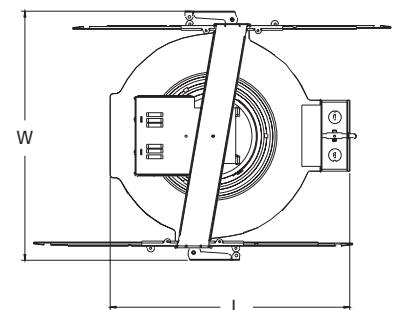
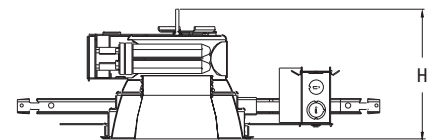
STANDARD PACKAGING

To order, use a single *master* catalog number.
Example: (13) PDGF 1/32TRT 8AR GRN 120

Fixtures ship as multiple components using *optimized* packaging. Example above ships as:

- (Qty 13) GRSF 1/26-42TRT 8 MVOLT HSG U
(13 cartons of 1 housing)
- (Qty 13) PDGF 1 8AR GRN TRIM U
(13 cartons of 1 reflector)

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.



Cat. No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
PDGF 8	8 (20.3)	17-3/4 (45.1)	17-3/8 (44.1)	7-7/8 (20.0)	8-7/8 (22.5)	9-1/4 (23.5)
PDGF 10	9 (22.9)	17-3/4 (45.1)	17-3/8 (44.1)	9-3/4 (24.8)	10-1/2 (26.7)	11-1/8 (28.3)

PDXF

Horizontal Lamp

Triple-Tube (TRT)

ICE™ Blade

Luminous Cross-Baffle Reflector

Intended Use

High-performance decorative luminaire designed to add visual interest or intrigue.

Features

Optical System – Self-flanged, matte finished clear anodized reflector. Bounding Ray™ Optical Principle provides optimal fixture performance. Minimum flange matches reflector finish. Clear acrylic cross baffle has surface that provides a decorative edge-glow appearance. Hinged lamp door reduces stray light in the plenum.

Electrical System – Horizontally-mounted four-pin, positive-latch thermoplastic socket(s). Socket housing ventilated for convective cooling. Class P, thermally-protected, high power factor electronic ballast(s) mounted to the junction box.

Mounting – 16-gauge galvanized steel mounting/plaster frame with thru-wire junction box. Integral yoke utilized to retain optical system. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

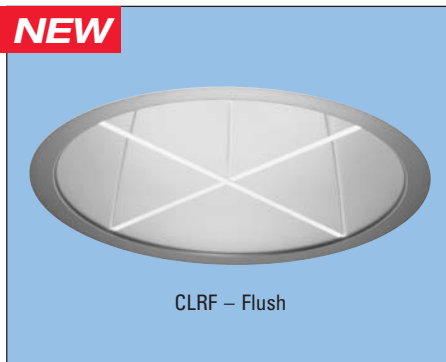
Listings – Fixtures are UL listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

NEW



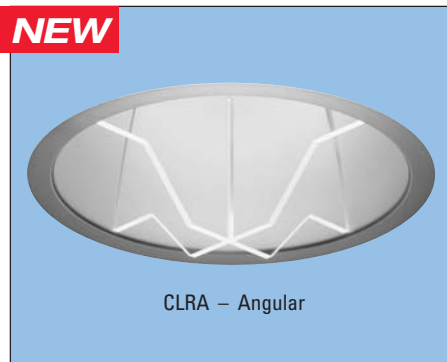
CLRR – Round

NEW



CLRF – Flush

NEW



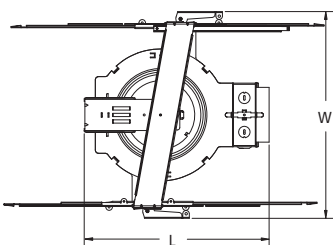
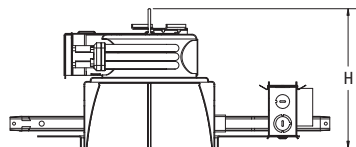
CLRA – Angular

Ordering Information

Example: **PDXF 1/32TRT 8AR CLRF 120**

Series	No. of lamps	Wattage/lamp	Aperture/Trim color	Baffle type	Voltage	Options/Accessories
PDXF	1 2 ¹	18TRT 26TRT 32TRT 42TRT 57TRT ²	6AR Clear 8AR Clear	CLRR Clear Round CLRF Clear Flush CLRA Clear Angular	120 277 347 MVOLT ³	See pages 221-225.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



STANDARD PACKAGING

To order, use a single master catalog number.
Example: (13) PDXF 1/32TRT 8AR CLRF 120

Fixtures ship as multiple components using optimized packaging. Example above ships as:

- (Qty 13) GRSF 1/26-42TRT 8 MVOLT HSG U
(13 cartons of 1 housing)
- (Qty 13) PDXF 1 8AR CLRF TRIM U
(13 cartons of 1 reflector)

NOTES:

- 1 Available in 8AR only.
- 2 Available in 8AR 1-lamp only.
- 3 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

Cat. No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
PDXF 6	7-3/8 (18.7)	13-5/8 (34.6)	15-7/8 (40.3)	6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
PDXF 8	8-3/8 (21.3)	17-3/4 (45.1)	17-3/8 (44.1)	7-7/8 (20.0)	8-7/8 (22.5)	9-1/4 (23.5)

PDTF

Horizontal Lamp

Triple-Tube (TRT)

ICE™ Turbo

Intended Use

High-performance decorative luminaire designed to add visual interest or intrigue.

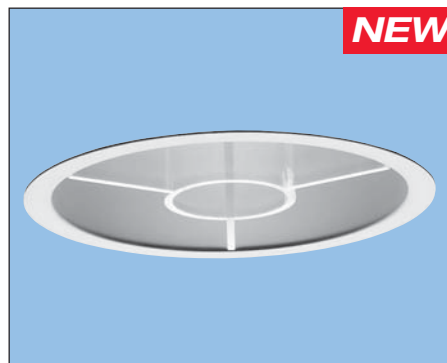
Features

Optical System – Self-flanged, matte finished, clear anodized reflector. Bounding Ray™ Optical Principle provides optimal fixture performance. Minimum flange matches reflector finish. Clear acrylic turbo baffle has surface that provides a decorative edge-glow appearance. Hinged lamp door reduces stray light in the plenum.

Electrical System – Horizontally-mounted four-pin, positive-latch thermoplastic socket(s). Socket housing ventilated for convective cooling. Class P, thermally-protected, high power factor electronic ballast(s) mounted to the junction box.

Mounting – 16-gauge galvanized steel mounting/plaster frame with thru-wire junction box. Integral yoke utilized to retain optical system. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings – Fixtures are UL listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.



Example: PDTF 1/32TRT 8AR 120

Ordering Information

Series	No. of lamps	Wattage/lamp	Aperture/Trim color
PDTF	1 2 ¹	18TRT 26TRT 32TRT 42TRT 57TRT ²	6AR Clear 8AR Clear

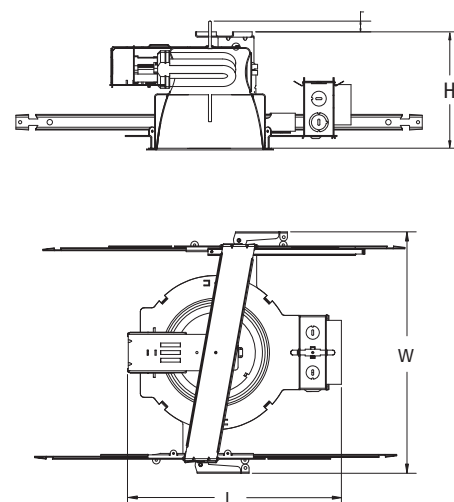
Voltage	Options/Accessories
120 277 347 MVOLT ³	See pages 221-225.

STANDARD PACKAGING
 To order, use a single *master* catalog number.
 Example: (13) PDTF 1/32TRT 8AR 120
 Fixtures ship as multiple components using *optimized* packaging. Example above ships as:
 (Qty 13) GRSF 1/26-42TRT 8 MVOLT HSG U
 (13 cartons of 1 housing)
 (Qty 13) PDTF 1 8AR TRIM U
 (13 cartons of 1 reflector)

- NOTES:
 1 Available in 8AR only.
 2 Available in 8AR 1-lamp only.
 3 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

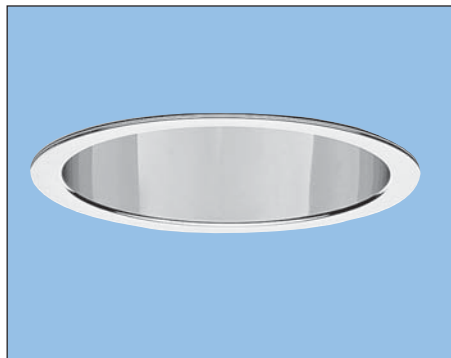
Cat. No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
PDTF 6	7-3/8 (18.7)	13-5/8 (34.6)	15-7/8 (40.3)	6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
PDTF 8	8-3/8 (21.3)	17-3/4 (45.1)	17-3/8 (44.1)	7-7/8 (20.0)	8-7/8 (22.5)	9-1/4 (23.5)

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



AH

Vertical Lamp

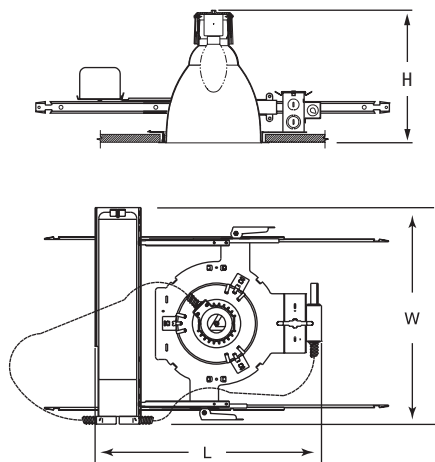


Ordering Information

Series	Wattage/lamp ¹	Aperture ⁵	Trim color	Finish	Voltage	Options/ Accessories
AH	<u>Metal Halide</u>		AR Clear	(blank) Specular	120	See pages 221-225.
	50M²	70M²	PR Pewter			
	100M²	150M^{2,3}	UBR Umber	277		
	175M⁴	250M⁴	WTR Wheat		347	
	<u>Ceramic Metal Halide²</u>		CR Champagne gold ⁶	Distribution		
	50MHC	70MHC	(blank) Standard		(blank) No lens	
	100MHC	150MHC³	GR Gold ⁶	N Narrow ⁸	CGL Clear glass lens	
			WR White painted ⁷		T73 Tempered prismatic lens	
			MB Black baffle ⁷			
			WB White baffle ⁷			
		BC Black cone ⁷				

Example: **AH 100M 6AR 120**

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.



NOTES:

- 1 Recommended for use with coated lamps. Consult specification sheets for additional lamp types.
- 2 Medium-base socket provided for use with open-rated lamps. For enclosed-rated lamps, include lens from lens type field.
- 3 Not available in 347V.
- 4 Required safety glass provided.
- 5 Refer to chart below for maximum wattage availability.
- 6 Not recommended for use with HID lamp sources. Consult factory.
- 7 Not available with finishes.
- 8 Available in 6" and 8" only.

STANDARD PACKAGING

To order, use a single *master* catalog number.
Example: (13) **AH 100M 6AR 120**.

Fixtures ship as multiple components using *optimized* packaging. Example above ships as:

(Qty 13) **GRSH 100M 6 120/277 MEX HSG U**
(13 cartons of 1 housing)

(Qty 13) **AH 6AR TRIM U** (13 cartons of 1 reflector)

Cat. No./ Socket	Maximum Wattage	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
AH 6 (MED)*	100	8-1/2 (21.6)	18-1/2 (21.6)	17-3/4 (45.1)	6-1/4 (15.9)	6-7/8 (17.5)	7-1/2 (19.1)
AH 8 (MED)*	150	9-3/16 (23.3)	19-1/2 (49.5)	17-3/4 (45.1)	7-7/8 (20.0)	8-1/2 (21.6)	9-1/8 (23.2)
AH 10 (MOG)	250	15-1/4 (38.7)	23-3/4 (60.3)	20-1/8 (51.1)	9-3/4 (24.8)	10-1/4 (26.0)	10-7/8 (27.6)
AH 12 (MOG)	250	19-1/4 (48.9)	23-3/4 (60.3)	20-1/8 (51.1)	11-11/16 (29.7)	12-1/2 (31.8)	12-11/16 (32.2)

* For narrow distribution (N), add 1" to height.

Open or Lensed Reflector

Intended Use

For general downlight applications such as offices, corridors, lobbies, airports, retail and reception areas that demand high efficiency and low aperture brightness.

Features

Optical System – Self-flanged, specular clear or semi-diffuse reflector. Bounding Ray™ Optical Principle provides lamp before lamp image, lamp image that reflects smoothly from the top of the reflector to the aperture, and optimal fixture performance and efficiency. Controlled anodizing process suppresses iridescence.

Electrical System – Prewired, encased-and-potted, tray-mounted ballast module. Die-cast aluminum socket housing designed for effective heat dissipation and positive lamp positioning. Thermally activated insulation detector. Porcelain socket.

Mounting – 16-gauge galvanized steel mounting/plaster frame with thru-wire junction box. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings – Fixtures are UL listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

AHW

Vertical Lamp

Intended Use

For general downlight wallwash applications such as offices, corridors, lobbies, airports, retail and reception areas that demand high efficiency, uniform vertical illumination and low aperture brightness.

Features

Optical System – Self-flanged, specular clear or semi-diffuse reflector with semi-specular wallwash kicker. Bounding Ray™ Optical Principle provides lamp before lamp image, lamp image that reflects smoothly from the top of the reflector to the aperture, and optimal fixture performance and efficiency. Controlled anodizing process suppresses iridescence.

Electrical System – Prewired, encased-and-potted, tray-mounted ballast module. Die-cast aluminum socket housing designed for effective heat dissipation and positive lamp positioning. Thermally activated insulation detector. Medium-base porcelain socket.

Mounting – 16-gauge galvanized steel mounting frame with thru-wire junction box. Integral yoke and flat spring utilized to retain optical system. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings – Fixtures are UL listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.



Example: **AHW 100M 6AR 120**

Ordering Information

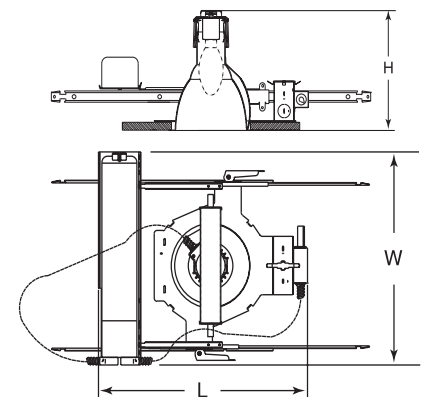
Series	Wattage/lamp ^{1,2}	Aperture ⁴	Trim color	Finish	Lens type	Voltage	Options/ Accessories
AHW	<u>Metal Halide</u>	6	AR Clear	(blank) Specular	(blank) No lens	120	See pages 221-225.
	50M 70M	8	PR Pewter	LD Semi-diffuse low iridescent	CGL Clear glass lens	277	
	100M 150M³		UBR Umber			347	
	<u>Ceramic Metal Halide</u>		WTR Wheat				
	50MHC 70MHC		CR Champagne gold ⁵				
	100MHC 150MHC³		GR Gold ⁵				
			WR White painted ⁶				

STANDARD PACKAGING
To order, use a single *master* catalog number.
 Example: (13) **AHW 100M 6AR 120**
Fixtures ship as multiple components using *optimized* packaging. Example above ships as:
 (Qty 13) **AHW 100M 6 120/277 MEX HSG U**
 (13 cartons of 1 housing)
 (Qty 13) **AHW 6AR TRIM U** (13 cartons of 1 reflector)

- NOTES:**
- 1 Recommended for use with coated lamps. Consult specification sheets for additional lamp types.
 - 2 Socket provided for use with open-rated lamps. For enclosed-rated lamps, include lens from lens type field.
 - 3 Not available in 347V.
 - 4 Refer to chart below for maximum wattage availability.
 - 5 Not recommended for use with HID lamp sources. Consult factory.
 - 6 Not available with finishes.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

Cat. No.	Max. Wattage	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
AHW 6	100	9-5/8 (24.4)	18-1/2 (47.0)	17-3/4 (45.1)	6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
AHW 8	150	10-3/8 (26.4)	21-3/4 (55.2)	17-3/4 (45.1)	7-7/8 (20.0)	8-7/8 (22.5)	9-1/4 (23.5)



AHZ/AHZW

Horizontal Lamp

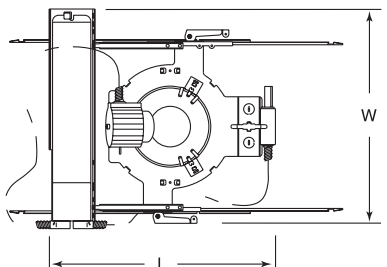
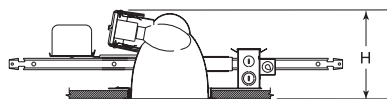


Ordering Information

Series	Wattage/lamp ^{1,2}	Aperture	Trim color	Finish	Lens type	Voltage	Options/ Accessories
AHZ	Metal Halide	6	AR Clear	(blank) Specular	(blank) No lens	120	See pages 221-225.
AHZW	50M	7	PR Pewter	LD Semi-diffuse low iridescent	CGL Clear glass lens	277	
	70M		UBR Umber		T73 Tempered prismatic lens ⁵	347	
	100M		WTR Wheat				
	Ceramic Metal Halide		CR Champagne gold ³				
	50MHC		GR Gold ³				
	70MHC		WR White painted ⁴				
	100MHC		MB Black baffle ^{4,5}				
			WB White baffle ^{4,5}				
			BC Black cone ^{4,5}				

Example: **AHZ 100M 6AR 120**

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



NOTES:

- 1 Recommended for use with coated lamps. See specification sheets for additional lamp types.
- 2 Socket provided for use with open-rated lamps. For enclosed-rated lamps, include lens from lens type field.
- 3 Not recommended for use with HID lamp sources. Consult factory.
- 4 Not available with finishes.
- 5 Not available with AHZW fixture.

STANDARD PACKAGING

To order, use a single *master* catalog number. Example: (13) **AHZ 100M 6AR 120**.

Fixtures ship as multiple components using *optimized* packaging. Example above ships as:

(Qty 13) **GRSH 100M 6 120/277 MEX HSG U**
(13 cartons of 1 housing)

(Qty 13) **AHZ 100M 6AR TRIM U** (13 cartons of 1 reflector)

Cat. No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
AHZ 6 / AHZW 6	7-1/4 (18.4)	18-1/2 (47.0)	17-3/4 (45.1)	6-1/4 (15.9)	6-7/8 (17.5)	7-1/2 (19.1)
AHZ 7 / AHZW 7	8-5/8 (21.9)	19-1/2 (49.5)	17-3/4 (45.1)	7-1/2 (19.1)	8-1/8 (20.6)	8-3/4 (22.2)

Open or Lensed Reflector and Wallwash, Low Profile

Intended Use

For general downlight or wallwash applications such as offices, corridors, lobbies, airports, retail and reception areas that demand superior brightness control in shallow plenum areas.

Features

Downlight Optical System – Self-flanged, specular clear or semi-diffuse reflector. Optical system optimally balances brightness control and high efficiency. Controlled anodizing process suppresses iridescence.

Wallwash Optical System – Self-flanged, specular clear or semi-diffuse reflector with semi-specular wallwash kicker. Optical system designed to deliver a uniform distribution of light high on the wall. Controlled anodizing process suppresses iridescence.

Electrical System – Prewired, encased-and-potted, tray-mounted ballast module. Die-cast aluminum socket housing designed for effective heat-dissipation and positive lamp positioning. Thermally activated insulation detector. Medium-base porcelain socket.

Mounting – 16-gauge galvanized steel mounting/plaster frame with thru-wire junction box. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings – Fixtures are UL listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

RH/RPH

Vertical Lamp

Intended Use

For general downlight or accent applications in offices, hotels, lobbies, churches, auditoriums and stores where optimal color rendering is desired.

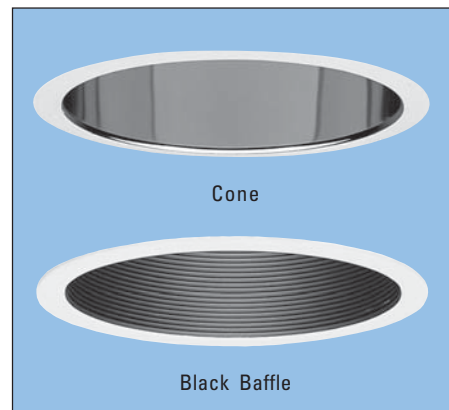
Features

Optical System – Self-flanged, specular clear, semi-diffuse or highly specular cone. Optical design maximizes lamp output while minimizing high-angle brightness. Controlled anodizing process suppresses iridescence.

Electrical System – Prewired, encased-and-potted, tray-mounted ballast module. Die-cast aluminum socket housing designed for effective heat dissipation and positive lamp positioning. Thermally activated insulation detector. Medium-base porcelain socket.

Mounting – 16-gauge galvanized steel mounting/plaster frame with thru-wire junction box. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings – Fixtures are UL listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.



Example: **RPH 70M 6AC 120**

Ordering Information

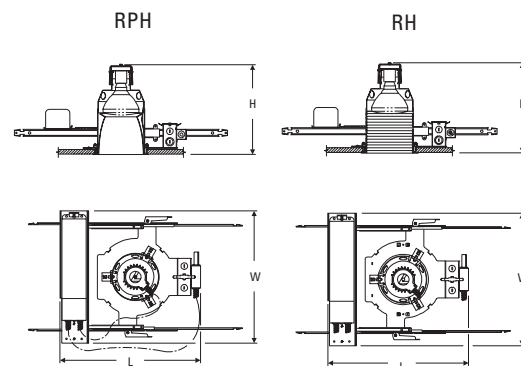
Series	Wattage/lamp	Aperture ³	Trim color	Finish	Voltage	Options/ Accessories
RH	<u>Metal Halide</u>	4	AC Clear	(blank) Specular	120	Options/ Accessories See pages 221-225.
RPH¹	70M PAR38	5	PC Pewter	LD Semi-diffuse low iridescent	277	
	100M PAR38	6	UBC Umber	LS Highly specular	347	
	150M² PAR38	7	WTC Wheat			
	<u>Ceramic Metal Halide</u>		CC Champagne gold ⁴			
	35MHC PAR20 or PAR30		GC Gold ⁴			
	70MHC PAR30 or PAR38		WC White painted ⁵			
	100MHC PAR38		BC Black cone ⁵			
			MB Black baffle ^{5,6}			
			WB White baffle ^{5,6}			

STANDARD PACKAGING
To order, use a single *master* catalog number.
 Example: (13) **RPH 70M 6AC 120**.
Fixtures ship as multiple components using *optimized* packaging. Example above ships as:
 (Qty 13) **GRSH 70M 6 120/277 MED HSG U**
 (13 cartons of 1 housing)
 (Qty 12) **RPH 6AC TRIM J4** (3 cartons of 4 reflectors)
 (Qty 1) **RPH 6AC TRIM U** (1 carton of 1 reflector)

- NOTES:
 1 Available in 6" PAR38 only. Not available in MB and WB trim colors.
 2 Not available in 347V.
 3 Refer to chart below for wattage/lamp availability.
 4 Not recommended for use with HID lamp sources. Consult factory.
 5 Not available with finishes.
 6 Available in RH 4", 5" and 6" only.

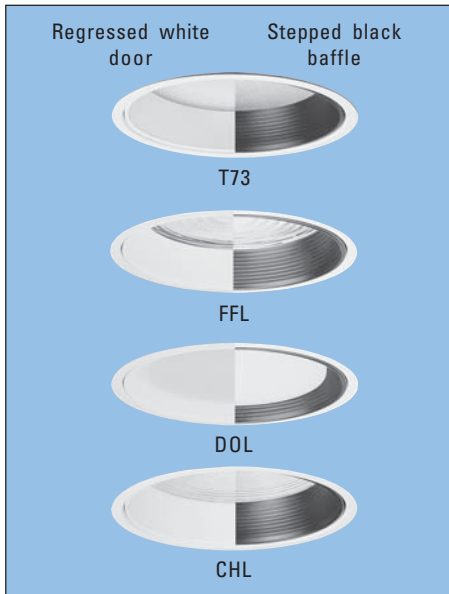
Cat. No.	Wattage/Lamp	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
RH 4	35W MHC (PAR20)	7-3/8 (18.7)	18-1/2 (47.0)	17-3/4 (44.1)	4-5/16 (11.0)	5-1/8 (13.0)	5-3/8 (13.7)
RH 4MB/WB	35, 70W MHC (PAR30)	8 (20.3)	18-1/2 (47.0)	17-3/3 (44.1)	4-1/8 (10.5)	5-1/8 (13.0)	5-3/8 (13.7)
RH 5	35W MHC (PAR20)	7-3/4 (19.7)	18-1/2 (47.0)	17-3/4 (44.1)	5 (12.7)	5-5/8 (14.3)	6-1/4 (15.9)
RH 5MB/WB	35, 70W MHC (PAR30)	9-1/4 (23.5)	18-3/4 (47.6)	17-1/2 (44.5)	4-3/4 (12.1)	5-5/8 (14.3)	6-1/4 (15.9)
RH 6	35, 70W MHC (PAR30)	10-1/2 (26.7)	18-1/2 (47.0)	17-3/4 (44.1)	6-1/4 (15.9)	6-7/8 (17.5)	7-1/2 (19.1)
RH 6MB/WB	70, 100, 150W M (PAR38) 70, 100W MHC (PAR38)	11-3/8 (28.9)	18-1/2 (47.0)	17-3/4 (45.1)	6 (15.2)	6-7/8 (17.5)	7-1/2 (19.1)
RPH 6	70, 100, 150W M (PAR38) 70, 100W MHC (PAR38)	11-3/8 (28.9)	18-1/2 (47.0)	17-3/4 (45.1)	5-7/8 (14.9)	6-7/8 (17.5)	7-1/2 (19.1)
RH 7	70, 100, 150W M (PAR38) 70, 100W MHC (PAR38)	12 (30.5)	19-1/2 (49.5)	17-3/4 (45.1)	7-1/2 (19.1)	8-1/8 (20.6)	8-3/4 (22.2)

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.



LGH/LGHZ

Vertical or Horizontal Lamp



Round Lens

Intended Use

For downlight applications such as offices, corridors, lobbies, retail and reception areas requiring enclosed optics.

Features

Reflector – Semi-specular clear anodized aluminum upper reflector. White-painted flange.

Door – Regressed White Door (RW), Flush White Door (FW) or Stepped Black Baffle (SB) are available. Door is retained by two self-aligning, torsion support springs.

Lens – Available with Tempered Prismatic Lens (T73), Flat Fresnel Lens (FFL), Drop Opal Lens (DOL) or Concave Holophane Lens (CHL).

Electrical System – Prewired, encased-and-potted, tray-mounted ballast module. Die-cast aluminum socket housing designed for heat-dissipation and positive lamp positioning. Thermally activated insulation detector. Porcelain socket.

Mounting – 16-gauge galvanized steel mounting/plaster frame with thru-wire junction box. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings – Fixtures are UL listed for thru-branch wiring, recessed mounting and wet locations. Listed and labeled to comply with Canadian Standards.

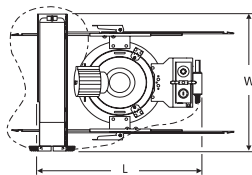
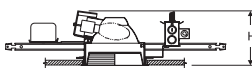
Ordering Information

Example: **LGH 100M 7RW T73 120**

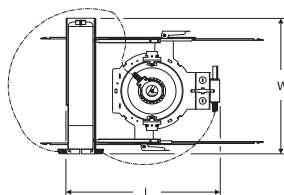
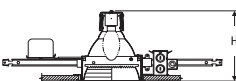
Series	Wattage/lamp ¹	Aperture ³	Door frame	Options/ Accessories
LGH	Metal Halide	7	RW Regressed white door	See pages 221-225.
LGHZ	50M 70M 100M 150M² 175M 250M	9 12	FW Flush white door ⁴ SB Stepped black baffle	
	Ceramic Metal Halide			
	50MHC 70MHC 100MHC 150MHC²			
			Lens type	Voltage
			T73 Tempered prismatic lens	120 277
			FFL Flat Fresnel lens	347
			DOL Drop opal lens ⁵	
			CHL Concave Holophane lens	

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.

LGH – Vertical Lamp



LGHZ – Horizontal Lamp



NOTES:

- 1 See specification sheets for additional lamp types.
- 2 Not available in 347V.
- 3 Refer to chart below for wattage/lamp availability.
- 4 Available in 7" and 9" only.
- 5 Available in 9" only.

STANDARD PACKAGING

To order, use a single master catalog number.
Example: (13) **LGH 100M 7RW T73 120**.

Fixtures ship as multiple components using optimized packaging. Example above ships as:

- (Qty 13) **GRSH 100M 7 120/277 MED HSG U** (13 housing cartons of 1 housing)
- (Qty 12) **LG 7RW T73 TRIM J4** (3 cartons of 4 reflectors)
- (Qty 1) **LG 7RW T73 TRIM U** (1 carton of 1 reflector)

Cat. No./Socket	Max. Wattage	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
LGH 7 (MED)	100	9-3/4 (24.8)	19-1/2 (49.5)	17-3/4 (45.1)	7-1/8 (18.1)	8-1/8 (20.6)	8-5/8 (21.9)
LGH 9 (MED)	100	9-1/4 (23.5)	21-3/4 (55.2)	17-3/4 (45.1)	8-3/4 (22.2)	9-3/4 (24.8)	10-1/4 (26.0)
LGH 12 (MOG)*	250	13-3/4 (34.9)	23-3/4 (60.3)	20-1/8 (51.1)	11-7/16 (29.1)	12-1/2 (31.8)	13 (33.0)
LGHZ 7 (MED)	100	7-1/4 (18.4)	19-1/2 (49.5)	17-3/4 (45.1)	7-1/8 (18.1)	8-1/8 (20.6)	8-5/8 (21.9)
LGHZ 9 (MED)	100	7-1/8 (18.1)	21-3/4 (55.2)	17-3/4 (45.1)	8-3/4 (22.2)	9-3/4 (24.8)	10-1/4 (26.0)
LGHZ12 (MOG)*	100	8-5/8 (21.9)	25-1/8 (63.8)	22 (55.9)	12-3/16 (31.0)	13-1/4 (33.7)	13-3/4 (34.9)

* Medium-base socket used with 150W or lower metal halide lamps.

LAH

Horizontal Lamp

Intended Use

Provides uniform general illumination for institutional, office, commercial and retail applications.

Features

Reflector – Semi-specular clear anodized aluminum upper reflector.

Door – Die-cast aluminum door frame with gasketed flange. Regressed White Door (RW), Stepped Black Baffle (SB), Stepped White Baffle (SW) or Flush White Door (FW) are available. White painted flange.

Lens – Available with Tempered Prismatic Lens (T73), Semi-Flush Lens (SFL), Drop Opal Lens (DOL), Flat Fresnel Lens (FFL), Flat Holophane Lens (FHL) or Drop Holophane Lens (DHL).

Electrical System – Prewired, HPF, core-and-coil ballast. Thermally activated insulation detector. Porcelain socket.

Mounting – 16-gauge galvanized steel thru-wire junction box with bottom-hinged access covers and spring latches. Telescoping mounting bracket with integral nailer tabs. Expandable mounting bars provide horizontal and vertical adjustment.

Listings – Fixtures are UL listed for thru-branch wiring, recessed mounting and wet locations. Listed and labeled to comply with Canadian Standards.



Example: LAH 100M 11RW T73 120

Ordering Information

Series	Wattage/lamp	Aperture/Door frame ²	Lens type ³	Voltage	Options/Accessories
LAH	<u>Metal Halide</u>		11"	120	Options/ Accessories See pages 221-225.
	50M	70M			
	100M	150M	T73	240	
	175M	250M ¹	SFL		
	<u>Ceramic Metal Halide</u>		DOL	347	
	50MHC	70MHC			
100MHC	150MHC				

NOTES:

- 1 Available with encased-and-potted ballast; 120, 277 or 347V only.
- 2 Refer to chart below for maximum wattage availability.
- 3 See specification sheet for additional lens types.

STANDARD PACKAGING

To order, use a single master catalog number.

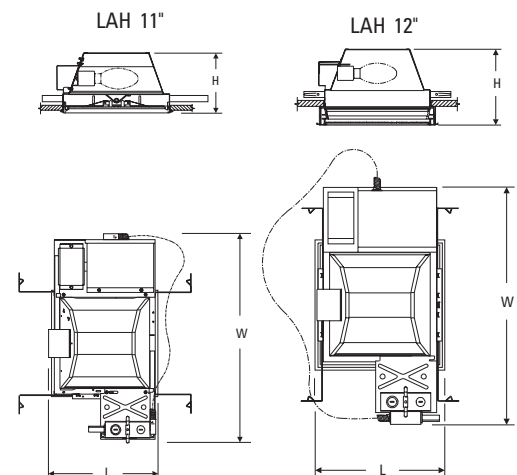
Example: (13) LAH 100M 11RW T73 120.

Fixtures ship as multiple components using optimized packaging. Example above ships as:

- (Qty 13) LAH 100M 11 120 HSG (13 cartons of 1 housing)
- (Qty 12) LA 11RW T73 TRIM J6 (2 cartons of 6 trims)
- (Qty 1) LA 11RW T73 TRIM U (1 carton of 1 trim)

Cat. No./Socket	Max. Wattage	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
LAH 11 (MED)	10W	6 (15.2)	12 (30.5)	17-3/4 (45.1)	7-1/8 (18.1)	8-1/8 (20.6)	8-5/8 (21.9)
LAH 12 (MOG)	175	7-3/4 (19.7)	12-3/8 (32.4)	17-3/4 (45.1)	8-3/4 (22.2)	9-3/4 (24.8)	10-1/4 (26.0)
LAH 12 (MOG)	250	7-3/4 (19.7)	18 (45.7)	17-3/4 (45.1)	8-3/4 (22.2)	9-3/4 (24.8)	10-1/4 (26.0)

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



DPH

Adjustable Lamp

NEW



Directional

Intended Use

Suitable for offices, restaurants, showrooms, museums, retail and reception areas where directional accent lighting is desired.

Features

Optical System – Self-flanged, specular clear, semi-diffuse or highly specular cone designed to minimize backflash. Contour cut minimizes visibility of inner housing. Center Beam optical system centers lamp relative to the aperture, optimizing lamp efficiency. Optical system retained by two self-aligning, torsion support springs. Relamping capability from above or below ceiling.

Adjustment Mechanism – Tool-less 0°-40° vertical and 360° horizontal adjust-

ment. Hot lamp aiming capability. Lockable adjustment mechanisms maintain lamp position and are visible from below the ceiling with optical system removed.

Electrical System – Prewired, encased-and-potted tray mounted ballast module. Thermally activated insulation detector. Medium-base porcelain socket.

Mounting – Rolled steel housing with matte black finish and plaster flange. Expandable, self-locking mounting bars provide horizontal and vertical adjustment. Secondary housing adjustment system for precise ceiling-to-flange alignment. Tool-less access door to thru-wire junction box.

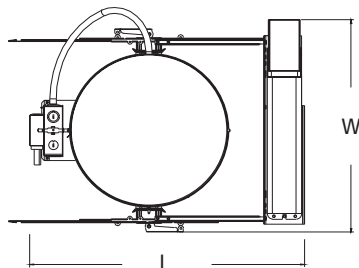
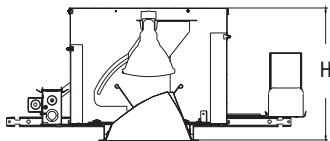
Listings – Fixtures are UL Listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

Example: **DPH P38100M 8ACT30 120**

Series	Wattage/lamp	Aperture ²	Trim color	Finish	Voltage	Options/Accessories								
DPH	Metal Halide	4	AC Clear	(blank) Specular	120	See pages 221-225.								
	70M PAR38	6	PC Pewter	LD Semi-diffuse low iridescent	277									
	100M PAR38	8	UBC Umber	LS Highly specular	347									
	150M ¹ PAR38		WTC Wheat											
Size	Ceramic Metal Halide		CC Champagne gold ³	<table border="1"> <thead> <tr> <th>Type</th> <th></th> </tr> </thead> <tbody> <tr> <td>T00</td> <td>Cut for angles 0° - 15°</td> </tr> <tr> <td>T20</td> <td>Cut for angles 15° - 25°</td> </tr> <tr> <td>T30</td> <td>Cut for angles 25° - 40°</td> </tr> </tbody> </table>			Type		T00	Cut for angles 0° - 15°	T20	Cut for angles 15° - 25°	T30	Cut for angles 25° - 40°
Type														
T00	Cut for angles 0° - 15°													
T20	Cut for angles 15° - 25°													
T30	Cut for angles 25° - 40°													
P20	39MHC PAR20 or PAR30		GC Gold ³											
P30	70MHC PAR30 or PAR38		WC White painted ⁴											
P38	100MHC PAR38		BC Black ⁴											
			MB Black baffle ⁴											
			WB White baffle ⁴											

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.



NOTES:

- 1 Not available in 347V.
- 2 Refer to chart below for wattage/lamp availability.
- 3 Not recommended for use with HID lamp sources. Consult factory.
- 4 Not available with finishes.

STANDARD PACKAGING

To order, use a single master catalog number. Example: (13) **DPH P38100M 8ACT30 120**.

Fixtures ship as multiple components using optimized packaging. Example above ships as:

- (Qty 13) **DPH 100M 8 HSG** (13 cartons of 1 housing)
- (Qty 13) **BA 100M 120/277 PLG1 U** (13 cartons of 1 ballast assembly)
- (Qty 12) **D 8ACT30 TRIM J4** (3 carton of 4 reflectors)
- (Qty 1) **D 8ACT30 TRIM U** (1 carton of 1 reflector)

Cat. No.	Size	Height Wattage/Lamp	Length (H)	Width (L)	Width (W)	Ceiling Aperture	Overlap Opening	Trim
DPH 4	P20	39MHC (PAR20)	9-1/2 (24.1)	18-3/4 (47.6)	18-1/4 (46.4)	4-3/8 (11.1)	5-1/8 (13.0)	5-7/16 (13.8)
DPH 6	P38	70, 100, 150M (PAR38)	12-1/8 (30.8)	25-5/8 (65.1)	19-3/4 (50.2)	6-1/4 (15.9)	6-7/8 (17.5)	7-3/8 (18.7)
	P30	39, 70MHC (PAR30)						
DPH 8	P38	70, 100, 150M (PAR38)	12-1/8 (30.8)	25-5/8 (65.1)	19-3/4 (50.2)	7-7/8 (20.0)	8-1/2 (21.6)	9-1/4 (23.5)
	P38	70, 100MHC (PAR38)						
	P30	39, 70MHC (PAR30)						

DH

Retractable Lamp

Intended Use

For retail areas or any application requiring accent lighting. Fixtures can be completely or partially retracted into the ceiling.

Features

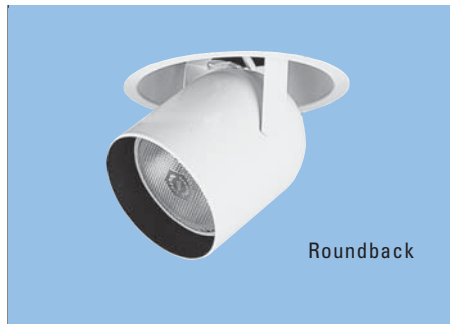
Head Style – White painted roundback, designer or gimbal ring head available. Head rotates 355° and tilts 90°.

Housing – Rolled steel housing with articulated arm connecting housing top and concealing plate to ensure smooth and centered positioning of head.

Electrical System – Prewired, encased-and-potted, tray-mounted ballast module. Thermally activated insulation detector. Medium-base porcelain socket.

Mounting – 16-gauge galvanized steel mounting/plaster frame with thru-wire junction box. Expandable, self-locking mounting bars for horizontal and vertical adjustment.

Listings – Fixtures are UL Listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.



Roundback



Designer



Gimbal Ring

Ordering Information

Example: **DH 100M 7PD 120**

Series	Wattage/lamp		Aperture ³	Head style	Voltage	Options/ Accessories
DH	<u>Metal Halide</u>	<u>Ceramic Metal Halide</u>	5	PD White roundback	120	See pages 221-225.
DH30¹	70M PAR38	35MHC PAR20 or PAR30	6	PDD White designer ⁴	277	
	100M PAR38	70MHC PAR30 or PAR38	7	PDG White gimbal ring ⁵	347	
	150M PAR38 ²	100MHC PAR38				

STANDARD PACKAGING

To order, use a single master catalog number.
Example: (13) **DH 100M 7PD 120**.

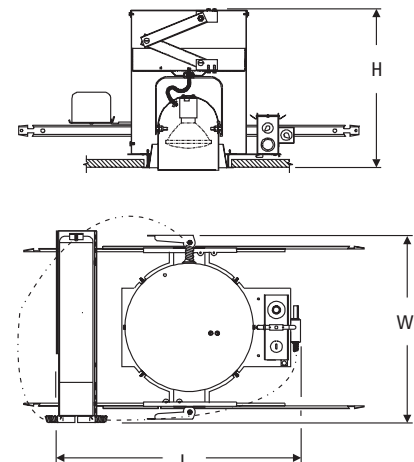
Fixtures ship as multiple components using optimized packaging. Example above ships as:

- (Qty 13) **DH 100M 7PD HSG** (13 cartons of 1 housing)
- (Qty 13) **BA 100M 120/277 PLG**
(13 cartons of 1 ballast assembly)

NOTES:

- 1 Available in 6" PDG only.
- 2 Not available in 347V.
- 3 Refer to chart below for wattage/lamp availability.
- 4 Available in 5" and 6" only.
- 5 Available in 6" only.

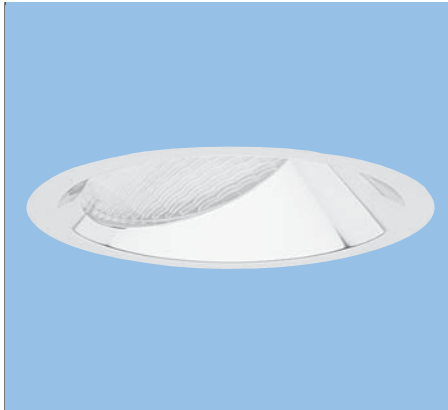
Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



Cat. No.	Wattage/Lamp	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
DH 5PD	35 MHC (PAR20)	15-1/4 (38.7)	18-3/4 (47.6)	17-3/4 (45.1)	5 (12.7)	5-5/8 (14.3)	6-1/4 (15.9)
DH 5PDD	35, 70 MHC (PAR30)	15-1/4 (38.7)	18-3/4 (47.6)	17-3/4 (45.1)	5 (12.7)	5-5/8 (14.3)	6-1/4 (15.9)
DH 6PD	35, 70 MHC (PAR30)	15-1/4 (38.7)	18-3/4 (47.6)	17-3/4 (45.1)	6-7/16 (16.4)	6-7/8 (17.5)	7-1/2 (19.1)
DH 6PDD	70, 100, 150 M (PAR38) 70, 100 MHC (PAR38)	15-1/4 (38.7)	18-3/4 (47.6)	17-3/4 (45.1)	6-7/16 (16.4)	6-7/8 (17.5)	7-1/2 (19.1)
DH30 6PDG	35, 70 MHC (PAR30)	15-1/4 (38.7)	18-3/4 (47.6)	17-3/4 (45.1)	6-7/16 (16.4)	6-7/8 (17.5)	7-1/2 (19.1)
DH 6PDG	70, 100, 150 (PAR38) 70, 100 MHC (PAR38)	15-1/4 (38.7)	18-3/4 (47.6)	17-3/4 (45.1)	6-7/16 (16.4)	6-7/8 (17.5)	7-1/2 (19.1)
DH 7PD	70, 100, 150 M (PAR38) 70, 100 MHC (PAR38)	15-1/4 (38.7)	18-3/4 (47.6)	17-3/4 (45.1)	7-7/16 (18.9)	8-1/8 (20.6)	8-5/8 (21.9)

DHW

Adjustable Lamp



Lensed Wallwash

Intended Use

Suitable for wallwash applications such as museums, offices, retail areas, showrooms, lobbies and restaurants.

Features

Optical System – Self-flanged, specular clear, semi-diffuse or highly specular splay with a concave, heat-resistant spread lens. Optical system designed to deliver uniform distribution of light to the wall. Controlled anodizing process suppresses iridescence.

Housing – Rolled steel housing mounted to die-formed pan. Removable housing top for above-ceiling relamping.

Electrical System – Prewired, encased-and-potted ballast with four-position angle socket adjustment and lock. Thermally activated insulation detector. Medium-base porcelain socket.

Mounting – Galvanized steel mounting brackets with mounting/plaster frame with thru-wire junction box, five-inch vertical adjustment and locking screw.

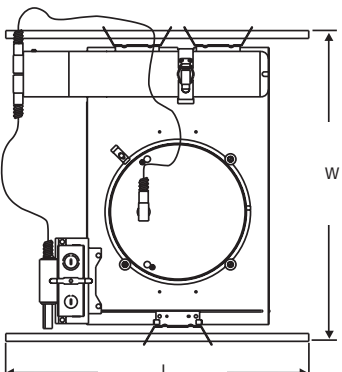
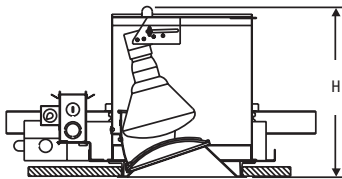
Listings – Fixtures are UL Listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

Example: **DHW 100M 7ASL 120**

Series	Wattage/lamp	Aperture	Trim color	Finish	Voltage	Options/Accessories
DHW	Metal Halide	7	ASL Clear	(blank) Specular	120	See pages 221-225.
	70M PAR38		PSL Pewter	LD Semi-diffuse low iridescent	277	
	100M PAR38		UBSL Umber	LS Highly specular	347	
	150M PAR38 ¹		WTSL Wheat			
	175M R40 ²		CSL Champagne gold ³			
	Ceramic Metal Halide		GSL Gold ³			
	70MHC PAR38		BSL Black ⁴			
	100MHC PAR38		WSL White painted ⁴			

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



NOTES:

- 1 Not available in 347V.
- 2 Lamp available from Venture Lighting® only.
- 3 Not recommended for use with metal halide lamps. Consult factory.
- 4 Not available with finishes.

STANDARD PACKAGING

To order, use a single master catalog number. Example: (13) **DH 100M 7ASL 120**.

Fixtures ship as multiple components using optimized packaging. Example above ships as:

- (Qty 13) **DHW 100M 7 120/277 HSG** (13 cartons of 1 housing)
- (Qty 13) **DW 7ASL SPLAY** (13 cartons of 1 splay)
- (Qty 12) **GBH J4** (3 cartons of 8 bar hangers)
- (Qty 1) **GBH U** (1 carton of 2 bar hangers)

Cat. No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
DHW 7	11-1/2 (29.2)	21-7/8 (55.6)	17-5/8 (44.8)	7-3/8 (18.7)	8-1/8 (20.6)	8-3/4 (22.2)

Vertical Lamp



Intended Use

Provides general illumination with superior brightness control. Available in square and cylinder shapes to complement the architecture. Surface, wall or pendant mountable. Appropriate for interior applications with mid to high ceilings, such as atriums, auditoriums and transit areas, or in exterior overhangs for retail and office buildings.

Features

Optical System – Self-flanged, specular clear or semi-diffuse reflector. Optical system optimally balances brightness control and high efficiency.

Housing – Heavy-gauge aluminum, rolled or formed and seam-welded with no visible seam.

Electrical System – Pre-wired, HPF, core-and-coil ballast mounted to removable power door with quick disconnect for ease of installation/maintenance. Porcelain socket.

Mounting – Ceiling-mount, wall-mount or pendant-mount available.

Listing – UL listed for damp locations (11" and 13") or wet locations (15"). Listed and labeled to comply with Canadian Standards.

Ordering Information

Example: **CC13 175M AR 120**

Series ¹	Diameter/ square ³	Wattage/lamp ⁴	Trim color	Finish	Voltage	Options/ Accessories
CC Ceiling mount		<u>Metal Halide</u>	AR Clear	(blank) Specular	120	Options/ Accessories See pages 221-225.
CW Wall mount	11	50M⁵ 70M⁵	PR Pewter	LD Semi-diffuse low iridescent	208	
CP Pendant mount ²	13	100M⁵ 150M⁵	UBR Umber		240	
CCS Square ceiling mount	15	175M⁵ 250M⁵	WTR Wheat		277	
CWS Square wall mount		320M⁵ 350M⁵	CR Champagne gold ⁶		347	
CPS Square pendant mount ²		400M	GR Gold ⁶			
		<u>Ceramic Metal Halide⁵</u>				
		50MHC 70MHC				
		100MHC 150MHC				

STANDARD PACKAGING

11" and 13" Cylinders

To order, use a single master catalog number.
Example: (13) **CC13 175M AR 120**

Fixtures ship using optimized packaging. Example above ships as:

- (Qty 13) **CC13 175M AR 120 DWHG L/GL**
(13 cartons of 1 housing)
- (Qty 12) **GL13R3 CGL J4** (3 cartons of 4 lenses)
- (Qty 1) **CL13R3 CGL U** (1 carton of 1 lens)

15" Cylinders

To order, use a single master catalog number.
Example: (13) **CC15 250M AR 120**

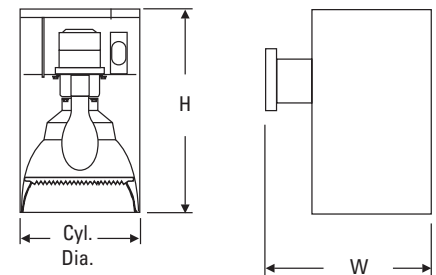
Fixtures ship using optimized packaging. Example above ships as:

- (Qty 13) **CC15 DWHG HSG** (13 cartons of 1 housing)
- (Qty 13) **C15 250M 120 PD** (13 cartons of 1 powerdoor)
- (Qty 13) **C15 250M AR TRIM U** (13 cartons of 1 reflector)
- (Qty 13) **GL15R1 CGL J2¹** (13 cartons of 1 lens)

NOTES:

- 1 Matte white finish (DWHG) standard. Optional colors available. Refer to *Architectural Colors* brochure.
- 2 3/8" thread mount.
- 3 Refer to chart below for maximum wattage availability.
- 4 150W and lower metal halide lamps use medium-base socket.
- 5 Tempered safety lens provided.
- 6 Not recommended for use with HID lamp sources. Consult factory.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.



Cat. No.	Max Wattage	Diameter/ Square	Height (H)	Wall Mount Width (W)
CC11	100	11-1/8 (28.3)	22-1/2 (57.2)	16 (40.6)
CCS11	100	11-3/8 (28.9)	23-1/2 (59.7)	16-1/4 (41.3)
CC13	250	13-1/8 (33.3)	24-1/2 (62.2)	18 (45.7)
CCS13	250	13-3/8 (34.0)	25-1/2 (64.8)	18-1/4 (46.4)
CC15	400	15-1/4 (38.7)	25-1/2 (64.8)	20-1/8 (51.1)
CCS15	400	15-1/4 (38.7)	25-1/2 (64.8)	20-1/8 (51.1)

C

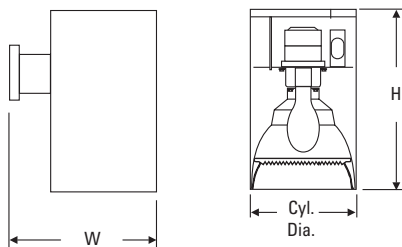
Vertical Lamp



Ordering Information

Series ¹	Diameter/ square ⁴
CEC Ceiling mount	10
CEW Wall mount	13
CEP Pendant mount ²	
CECS Square ceiling mount ³	
CEWS Square wall mount ³	
CEPS Square pendant mount ^{2,3}	

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.



Cylinders and Cuboids, Wet Location

Intended Use

Provides general illumination with superior brightness control. Available in square and cylinder shapes to complement the architecture. Surface, wall or pendant mountable. Appropriate for mid to high ceiling applications such as exterior columns and facades.

Features

Reflector – Semi-specular clear anodized aluminum upper reflector.

Door – Regressed aluminum door frame with Fresnel lens on round unit, tempered prismatic lens on square unit.

Housing – Heavy-gauge aluminum, rolled or formed and seam-welded with no visible seam.

Electrical System – Pre-wired, HPF core-and-coil ballast mounted to removable power door with quick disconnect for ease of installation/maintenance. Porcelain socket.

Mounting – Ceiling-mount, wall-mount or pendant-mount available.

Listings – Fixtures are UL Listed for wet locations. Listed and labeled to comply with Canadian Standards.

Example: **CEWS13 175M 120**

Wattage/lamp ⁵				Voltage	Options/ Accessories
Metal Halide		Ceramic Metal Halide		120 208 240 277 347	See pages 221-225.
50M	70M	50MHC	70MHC		
100M	150M	100MHC	150MHC		
175M	250M				

STANDARD PACKAGING

10" Cylinders and 13" Cuboids

To order, use a single master catalog number.
Example: (13) **CEWS13 175M 120**

Fixtures ship using optimized packaging. Example above ships as:

(Qty 13) **CEWS13 175M 120 DWHG**
(13 cartons of 1 fixture)

13" Cylinders

To order, use a single master catalog number.
Example: (13) **CEC13 175M 120**

Fixtures ship using optimized packaging. Example above ships as:

(Qty 13) **CEC13 175M 120 DWHG HSG**
(13 cartons of 1 housing)

(Qty 12) **GL13R2 FFL J2** (6 cartons of 2 lenses)

(Qty 1) **GL13R2 FFL U** (1 carton of 1 lens)

NOTES:

- 1 Matte white finish (DWHG) standard. Optional colors available. Refer to *Architectural Colors* brochure.
- 2 3/8" thread mount.
- 3 Available in 13" only.
- 4 Refer to chart below for maximum wattage availability.
- 5 150W and lower metal halide lamps use medium-base socket.

Cat. No.	Max Wattage	Cylinder Dia./ Square	Height (H)	Wall Mount Width (W)
CEC10	100W	10 (25.4)	18-1/4 (46.4)	13-1/8 (33.3)
CEC13	250W	13 (33.0)	23-3/8 (59.4)	17-7/8 (45.4)
CECS13	250W	12-5/8 (32.1)	23-3/8 (59.4)	17-1/2 (44.5)

Ellipsoidal Reflector

Incandescent Downlighting

EQ/EQT

Vertical Lamp

Intended Use

A small-aperture quartz incandescent fixture suitable for applications with high ceilings, such as churches, malls or auditoriums.

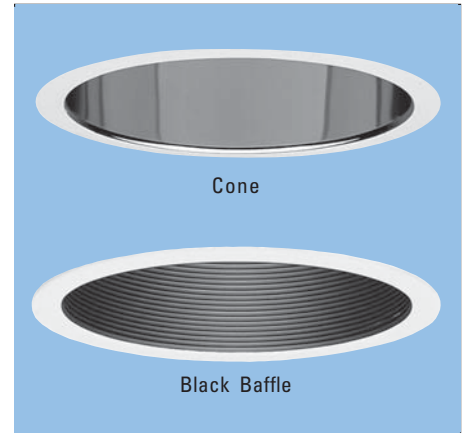
Features

Optical System – Anodized upper ellipsoidal reflector and lower cone designed to provide high-intensity light output through a small aperture, while maintaining high efficiency and minimizing high-angle brightness. Lower cone is self-flanged, specular clear, semi-diffuse or highly specular with borosilicate glass lamp guard.

Electrical System – Extruded aluminum socket housing with above-ceiling relamping capability. Thermally activated insulation detector. Heavy-duty, mini-can socket.

Mounting – Die-cast aluminum mounting/plaster frame with thru-wire junction box. EQT fixture provides adjustment for any angle up to 30° for sloped ceiling applications. Galvanized steel mounting brackets with five-inch vertical adjustment and locking screw. Two steel channel bar hangers provided.

Listings – Fixtures are UL Listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.



Ordering Information

Example: **EQ 250T 5AC**

Series	Wattage/lamp	Aperture/Trim color	Finish	Options/Accessories
EQ EQT	150T 250T 400T^{1,2} 500T^{1,2}	5AC Clear 5PC Pewter 5UBC Umber 5WTC Wheat 5CC Champagne gold 5GC Gold 5BC Black ³ 5WC White painted ³ 5MB Black baffle ³ 5WB White baffle ³	(blank) Specular LD Semi-diffuse LS Highly specular	See pages 221-225.

STANDARD PACKAGING

To order, use a single *master* catalog number.
Example: (13) **EQ 250T 5AC**

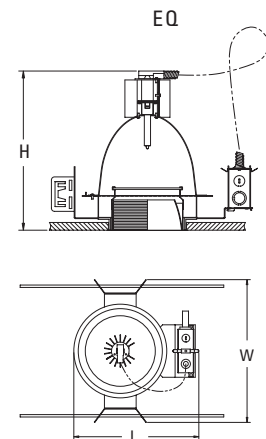
Fixtures ship as multiple components using *optimized* packaging. Example above ships as:

(Qty 13) **EQ 250T 5AC** (13 cartons of 1 fixture)
(Qty 12) **GBH J4** (3 cartons of 8 bar hangers)
(Qty 1) **GBH U** (1 carton of 2 bar hangers)

NOTES:

- CAUTION: fixtures must be installed in fire-resistant ceiling construction only and are not for residential use. Install with minimum spacings as follows: three feet between centers of adjacent fixtures; 1/2-inch between top of fixtures and overhead building member; 18 inches between fixture center and side wall.
- Not certified to comply with Canadian Standards.
- Not available with finishes.

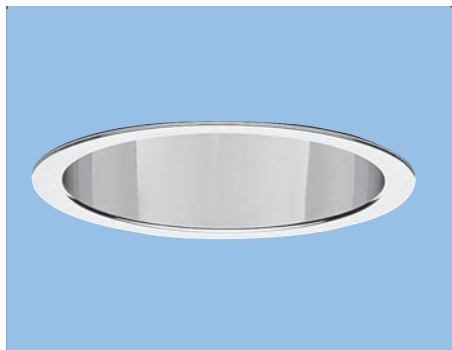
Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.



Cat. No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
EQ 5	12-7/8 (32.7)	14-1/8 (35.9)	16 (40.6)	5-1/2 (14.0)	6-1/4 (15.9)	6-5/8 (16.8)
EQT 5	14-1/4 (36.2)	16-1/2 (41.9)	19-5/8 (49.8)	5-1/2 (14.0)	6-1/4 (15.9)	6-5/8 (16.8)

A

Vertical Lamp



Intended Use

For general downlight applications such as offices, corridors, lobbies, retail and reception areas requiring optimal color rendering, superior optical control and convenient dimming.

Features

Optical System – Self-flanged, specular clear or semi-diffuse reflector. Bounding Ray™ Optical Principle provides lamp before lamp image, lamp image that reflects smoothly from the top of the reflector to the aperture, and optimal fixture performance and efficiency.

Electrical System – Die-cast aluminum socket housing designed for effective heat dissipation and positive lamp positioning. Thermally activated insulation detector. Porcelain socket.

Mounting – 16-gauge galvanized steel mounting/plaster frame with thru-wire junction box. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings – Fixtures are UL Listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

Example: **A 6AR**

Series	Aperture	Trim color		Finish	Lens type	Options/ Accessories
A	5	AR Clear	WR White painted ¹	(blank) Specular LD Semi-diffuse	(blank) No lens	See pages 221-225.
		PR Pewter	BC Black cone ¹		CGL Clear glass lens	
	8	UBR Umber	MB Black baffle ¹		T73 Tempered prismatic lens	
		WTR Wheat	WB White baffle ¹			
	12	CR Champagne gold				
		GR Gold				

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

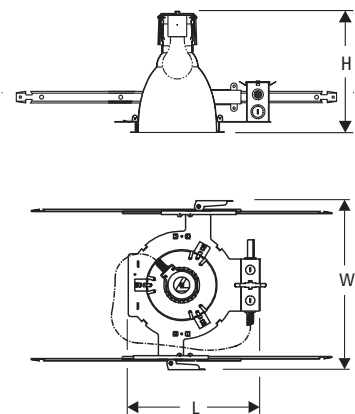
NOTE:
1 Not available with finishes.

STANDARD PACKAGING

To order, use a single *master* catalog number.
Example: (13) **A 6AR**.

Fixtures ship as multiple components using *optimized* packaging. Example above ships as:

- (Qty 12) **GRS 6 HSG J2** (6 cartons of 2 housings)
- (Qty 1) **GRS 6 HSG U** (1 carton of 1 housing)
- (Qty 12) **A 6AR TRIM J4** (3 cartons of 4 reflectors)
- (Qty 1) **A 6AR TRIM U** (1 carton of 1 reflector)



Cat. No./Socket	Max. Watt./Lamp	Max. Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
A5 (MED)	100W A17/A19	8-3/16 (20.8)	13-1/8 (33.3)	13-13/16 (35.1)	5 (12.7)	5-5/8 (14.3)	6-1/4 (15.9)
A 6 (MED)	100W A17/A19	8-11/16 (21.1)	12-15/16 (32.9)	15-13/16(40.2)	6-1/4 (15.9)	6-7/8 (17.5)	7-1/2 (19.1)
	150W A21	9-11/16 (24.6)	12-15/16 (32.9)	15-13/16(40.2)	6-1/4 (15.9)	6-7/8 (17.5)	7-1/2 (19.1)
A 8 (MED)	150W A21	10-1/8 (25.7)	12-15/16 (32.9)	15-13/16 (40.2)	7-7/8 (20.0)	8-1/2 (21.6)	9-1/8 (23.2)
	200W A23	11-1/8 (28.3)	12-15/16 (32.9)	15-13/16 (40.2)	7-7/8 (20.0)	8-1/2 (21.6)	9-1/8 (23.2)
	300W PS25	11-3/4 (29.8)	12-15/16 (32.9)	15-13/16 (40.2)	7-7/8 (20.0)	8-1/2 (21.6)	9-1/8 (23.2)
A12 (MOG)	500W PS40	19-1/4 (48.9)	17(43.2)	17-3/16 (43.7)	11-11/16 (29.7)	12-1/2 (31.8)	12-13/16 (32.5)

AW

Vertical Lamp

Intended Use

For general downlight wallwash applications, such as offices, corridors, lobbies, retail and reception areas requiring optimal color-rendering, superior optical control and convenient dimming.

Features

Optical System – Self-flanged, specular-clear or semi-diffuse reflector with semi-specular wallwash kicker. Bounding Ray™ Optical Principle provides lamp before lamp image, lamp image that reflects smoothly from the top of the reflector to the aperture, and optimal fixture performance and efficiency.

Electrical System – Die-cast aluminum socket housing designed for effective heat dissipation and positive lamp positioning. Thermally activated insulation detector. Medium-base porcelain socket.

Mounting – 16-gauge galvanized steel mounting frame with thru-wire junction box. Integral yoke and flat spring utilized to retain optical system. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings – Fixtures are UL Listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.



Ordering Information

Series	Aperture	Trim color	Finish
AW	5 6 8	AR Clear PR Pewter UBR Umber WTR Wheat CR Champagne gold GR Gold WR White painted ¹	(blank) Specular LD Semi-diffuse

Example: AW 6AR

Lens type	Options/Accessories
(blank) No lens CGL Clear glass lens	See pages 221-225.

STANDARD PACKAGING

To order, use a single *master* catalog number.
Example: (13) **AW 6AR**.

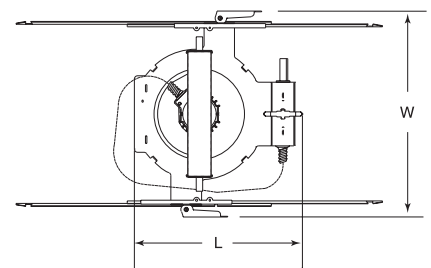
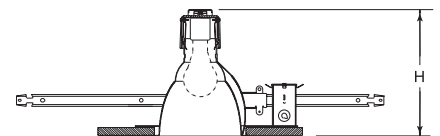
Fixtures ship as multiple components using *optimized* packaging. Example above ships as:

- (Qty 13) **AW 6 HSG U** (13 cartons of 1 housing)
- (Qty 12) **AW 6AR TRIM J2** (6 cartons of 2 reflectors)
- (Qty 1) **AW 6AR TRIM U** (1 carton of 1 reflector)

NOTE:

1 Not available with finishes.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.



Cat. No.	Max. Watt./Lamp	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
AW5	100W A17/A19	10-1/8 (25.7)	10-9/16 (26.8)	12-1/16 (30.6)	5 (12.7)	5-7/8 (14.9)	6-1/4 (15.9)
AW6	100W A17/A19 150W A21	8-11/16 (22.1) 9-11/16 (24.6)	12-15/16 (32.9)	15-7/8 (40.3)	6-1/4 (15.9)	7 (17.8)	7-1/2 (19.1)
AW8	150W A21 200W A23 300W PS25	10-3/8 (26.4) 11-3/8 (28.9) 12 (30.5)	17 (43.2)	17-3/16 (43.7)	7-7/8 (20.0)	8-3/4 (22.2)	9-1/8 (23.2)

AZ/AWZ

Horizontal Lamp



Open or Lensed Reflector and Wallwash, Low Profile

Intended Use

For general downlight or wallwash applications, such as offices, corridors, lobbies, retail and reception areas requiring optimal color rendering, superior optical control and convenient dimming in shallow plenum areas.

Features

Downlight Optical System – Self-flanged, specular clear or semi-diffuse reflector. Optical system optimally balances brightness control and high efficiency.

Wallwash Optical System – Self-flanged, specular clear or semi-diffuse reflector with semi-specular wallwash kicker. Optical system designed to deliver a uniform distribution of light high on the wall.

Electrical System – Die-cast aluminum socket housing designed for effective heat dissipation and positive lamp positioning. Thermally activated insulation detector. Medium-base porcelain socket.

Mounting – 16-gauge galvanized steel mounting/plaster frame with thru-wire junction box. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

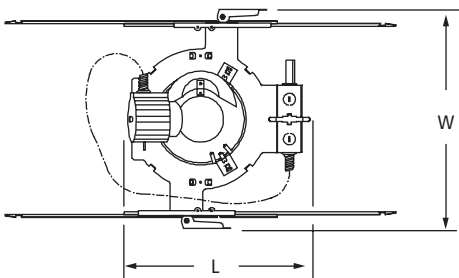
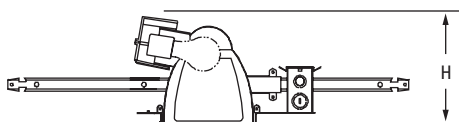
Listings – Fixtures are UL Listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

Example: **AZ 6AR**

Series	Aperture	Trim Color		Finish	Lens type	Options/ Accessories
AZ	6	AR Clear	WR White painted ¹	(blank) Specular	(blank) No lens	See pages 221-225.
AWZ	7	PR Pewter	BC Black cone ^{1,2}	LD Semi-diffuse	CGL Clear glass lens	
		UBR Umber	MB Black baffle ^{1,2}		T73 Tempered prismatic lens ²	
		WTR Wheat	WB White baffle ^{1,2}			
		CR Champagne gold				
		GR Gold				

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.



NOTES:

- 1 Not available with finishes.
- 2 Not available with AWZ fixture.

STANDARD PACKAGING

To order, use a single *master* catalog number. Example: (13) **AZ 6AR**.

Fixtures ship as multiple components using *optimized* packaging. Example above ships as:

- (Qty 12) **GRS 6 HSG J2** (6 cartons of 2 housings)
- (Qty 1) **GRS 6 HSG U** (1 carton of 1 housing)
- (Qty 12) **AZ 6AR TRIM J4** (3 cartons of 4 reflectors)
- (Qty 1) **AZ 6AR TRIM U** (1 carton of 1 reflector)

Cat. No.	Max. Watt./Lamp	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
AZ6	100W A17/A19 150W A21	7-1/2 (19.1)	12-15/16 (32.9)	15-7/8 (40.3)	6-1/4 (15.9)	6-7/8 (17.5)	7-1/2 (19.1)
AZ7	150W A21 200W A23	8-7/8 (22.5)	12-15/16 (32.9)	15-7/8 (40.3)	7-1/2 (19.1)	8-1/8 (20.6)	8-3/4 (22.2)
AWZ6	100W A17/A19 150W A21	7-1/2 (19.1)	12-15/16 (32.9)	15-7/8 (40.3)	6-1/4 (15.9)	6-7/8 (17.5)	7-1/2 (19.1)
AWZ7	150W A21 200W A23	8-7/8 (22.5)	12-15/16 (32.9)	15-7/8 (40.3)	7-1/2 (19.1)	8-1/8 (20.6)	8-3/4 (22.2)

R/RP

Vertical Lamp

Intended Use

For general downlight or accent applications in offices, hotels, lobbies, churches, auditoriums, and stores where optimal color rendering and convenient dimming are desired.

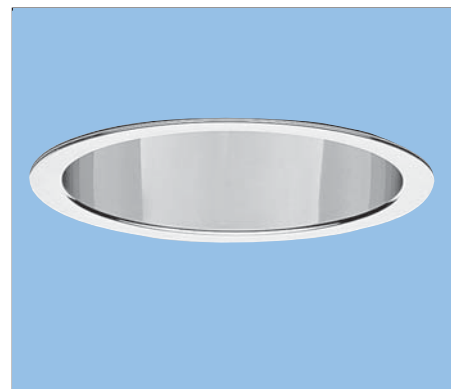
Features

Optical System – Self-flanged, specular clear, semi-diffuse or highly specular anodized cone. Optical system maximizes lamp output while minimizing high angle brightness.

Electrical System – Die-cast aluminum socket housing designed for effective heat dissipation and positive lamp positioning. Thermally activated insulation detector. Medium-base porcelain socket.

Mounting – 16-gauge galvanized steel mounting/plaster frame with thru-wire junction box. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings – Fixtures are UL Listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.



Example: **R 6AC**

Ordering Information

Series	Aperture	Trim Color	
R	4	AC Clear	GC Gold
RP¹	5	PC Pewter	BC Black ²
	6	UBC Umber	WC White painted ²
	7	WTC Wheat	MB Black baffle ³
		CC Champagne gold	WB White baffle ³

Finish	Options/ Accessories
(blank) Specular	See pages 221-225.
LD Semi-diffuse	
LS Highly specular	

STANDARD PACKAGING

To order, use a single master catalog number.

Example: (13) **R 6AC**.

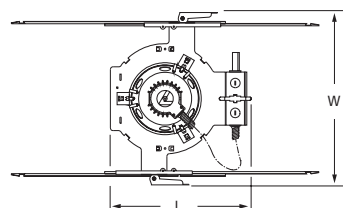
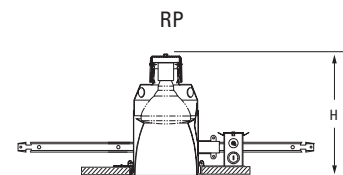
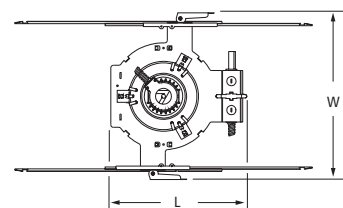
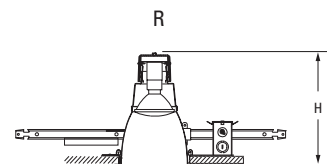
Fixtures ship as multiple components using optimized packaging. Example above ships as:

- (Qty 12) **GRS 6 HSG J2** (6 cartons of 2 housings)
- (Qty 1) **GRS 6 HSG U** (1 carton of 1 housing)
- (Qty 12) **R 6AC TRIM J4** (3 cartons of 4 reflectors)
- (Qty 1) **R 6AC TRIM U** (1 carton of 1 reflector)

NOTES:

- 1 Available in 6" only. Not available in MB and WB trim colors.
- 2 Not available with finishes.
- 3 Available in R 4", 5" or 6" only.

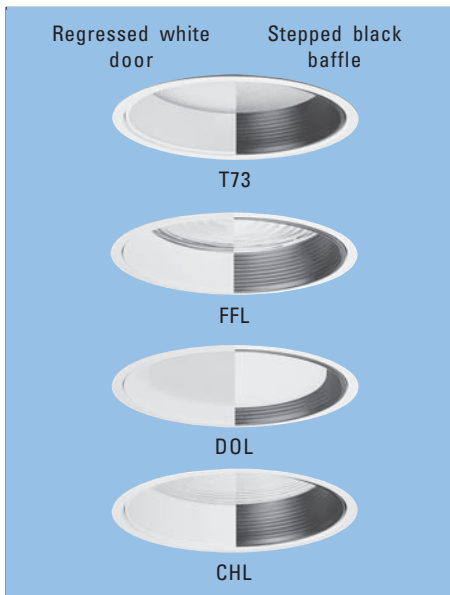
Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



Cat. No.	Max. Wattage/ Lamp	Height (H)	Length (L)	Width (W)	Aperture ⁰	Ceiling Opening	Overlap Trim
R 4	75W R20	7-3/8 (18.7)	13-1/8 (33.3)	13-13/16 (35.1)	4-5/16 (11.0)	5 (12.7)	5-3/8 (13.7)
	50W PAR20	7-7/8 (20.0)					
R 5	75W R20	7-3/4 (19.7)	13-1/8 (33.3)	13-13/16 (35.1)	5 (12.7)	5-5/8 (14.3)	6-1/4 (15.9)
	50W PAR20	8-1/4 (21.0)					
R 6	75W BR30	10-5/8 (27.0)	12-15/16 (32.9)	15-13/16 (40.2)	6-1/4 (15.9)	6-7/8 (17.5)	7-1/2 (19.1)
	75W PAR30 LN						
RP 6	150W PAR38 CB Q250W PAR38	11-7/16 (29.1)	12-15/16 (32.9)	15-13/16 (40.2)	5-7/8 (14.9)	6-7/8 (17.5)	7-1/4 (18.4)
R 7	300W BR40	12-5/16 (31.3)	12-15/16 (32.9)	15-13/16 (40.2)	7-1/2 (19.1)	8-1/8 (20.6)	8-3/4 (22.2)
	150W PAR38 CB	13 (33)					
	Q250W PAR38	13 (33)					

LG/LGZ

Vertical or Horizontal Lamp



Round Lens

Intended Use

For downlight applications such as offices, corridors, lobbies, retail and reception areas requiring enclosed optics.

Features

Reflector – Semi-specular clear anodized aluminum upper reflector. White-painted bottom flange.

Door – Regressed White Door (RW), Flush White Door (FW) and Stepped Black Baffle (SB) are available. Door is retained by two self-aligning, torsion support springs.

Lens – Available with Tempered Prismatic Lens (T73), Flat Fresnel Lens (FFL), Drop Opal Lens (DOL) or Concave Holophane Lens (CHL).

Electrical System – Die-cast aluminum socket housing designed for effective heat dissipation and positive lamp positioning. Thermally activated insulation detector. Medium-base porcelain socket.

Mounting – 16-gauge galvanized steel mounting/plaster frame with thru-wire junction box. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

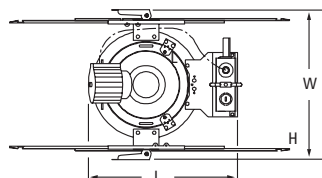
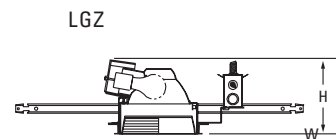
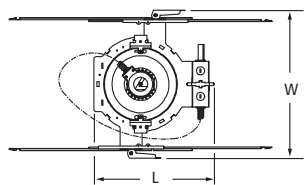
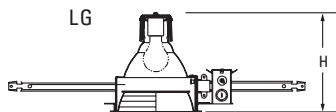
Listings – Fixtures are UL Listed for thru-branch wiring, recessed mounting and wet locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

Example: **LG 7RW T73**

Series	Aperture	Door frame	Lens Type	Options/Accessories
LG	7	RW Regressed white door	T73 Tempered prismatic lens	See pages 221-225.
LGZ	9	FW Flush white door ¹	FFL Flat Fresnel lens	
	12	SB Stepped black baffle	DOL Drop opal lens ²	
			CHL Concave Holophane lens	

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.



NOTES:

- Available in 7" and 9" only.
- Available in 9" only.

STANDARD PACKAGING

To order, use a single master catalog number.
Example: (13) **LG 7RW T73**.

Fixtures ship as multiple components using optimized packaging. Example above ships as:

- (Qty 12) **GRS 7 HSG J2** (6 cartons of 2 housings)
- (Qty 1) **GRS 7 HSG U** (1 carton of 1 housing)
- (Qty 12) **LG 7RW T73 TRIM J4** (3 cartons of 4 reflectors)
- (Qty 1) **LG 7RW T73 TRIM U** (1 carton of 1 reflector)

Cat. No.	Max. Watt./ Lamp	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
LG 7	100W A17/A19 150W A21	8-7/8 (22.5) 9-5/8 (24.4)	12-15/16 (32.9)	15-13/16 (40.2)	7-1/8 (18.1)	8-1/8 (20.6)	8-5/8 (21.9)
LG 9	150W A21 200W A23	9-1/2 (24.1) 10-1/8 (25.7)	17 (43.2)	17-3/16 (43.7)	8-3/4 (22.2)	9-3/4 (24.8)	10-1/4 (26.0)
LG 12	200W A23 300W PS25	11-1/2 (29.2) 12-1/8 (30.8)	17 (43.2)	17-3/16 (43.7)	11-7/16 (29.1)	12-1/2 (31.8)	13 (33.0)
LGZ 7	100W A17/A19 150W A21	7-1/4 (18.4)	12-15/16 (32.9)	15-13/16 (40.2)	7-1/8 (18.1)	8-1/8 (20.6)	8-5/8 (21.9)
LGZ 9	150W A21 200W A23	7-1/8 (18.1)	17 (43.2)	17-3/16 (43.7)	8-3/4 (22.2)	9-3/4 (24.8)	10-1/4 (26.0)
LGZ 12	200W A23 300W PS25	8-11/16 (22.1)	19 (48.3)	18-15/16 (48.1)	12-3/16 (31.0)	13-1/4 (33.7)	13-3/4 (34.9)

Horizontal Lamp

Intended Use

Provides uniform general illumination for institutional, office, commercial and retail areas.

Features

Reflector – Semi-specular clear anodized aluminum upper reflector.

Door – Die-cast aluminum door frame with gasketed flange. Regressed White Door (RW), Stepped Black Baffle (SB), Stepped White Baffle (SW) or Flush White Door (FW) are available. White painted flange.

Lens – Available with Tempered Prismatic Lens (T73), Semi-Flush Lens (SFL), Drop Opal Lens (DOL), Flat Fresnel Lens (FFL), Flat Holophane Lens (FHL) or Drop Holophane Lens (DHL).

Electrical System – Thermally-activated insulation detector. Medium-base porcelain socket.

Mounting – 16-gauge galvanized steel thru-wire junction box with bottom-hinged access covers and spring latches. Telescoping mounting bracket with integral nailer tabs. Expandable mounting bars provide horizontal and vertical adjustment.

Listings – Fixtures are UL Listed for thru-branch wiring, recessed mounting and wet locations. Listed and labeled to comply with Canadian Standards.



Ordering Information

Example: **LA 11RW T73**

Series	Aperture/Door frame	Lens type ¹		Options/Accessories
LA	11RW Regressed white door 12SB Stepped black baffle 12SW Stepped white baffle 12FW Flush white door	11" T73 Tempered prismatic lens DOL Drop opal lens SFL Semi-flush lens	12" T73 Tempered prismatic lens FFL Flat Fresnel lens FHL Flat Holophane lens DHL Drop Holophane lens	See pages 221-225.

NOTES:

¹ Consult specification sheet for additional lens type.

STANDARD PACKAGING

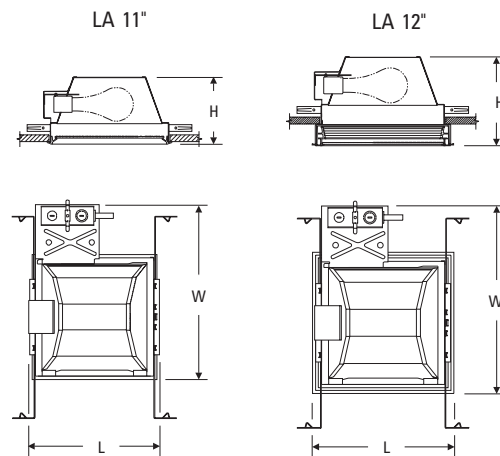
To order, use a single master catalog number.
Example: (13) **LA 11RW T73**.

Fixtures ship as multiple components using optimized packaging. Example above ships as:

- (Qty 13) **LA 11 HSG U** (13 cartons of 1 housing)
- (Qty 12) **LA 11RW T73 TRIM J6** (2 cartons of 6 trims)
- (Qty 1) **LA 11RW T73 TRIM U** (1 carton of 1 trim)

Cat. No.	Max. Watt./ Lamp	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
LA 11	200W	6 (15.2)	12-1/16 (30.6)	16-11/16 (42.4)	10-5/8 (27.0)	11-1/4 (28.6)	11-5/8 (29.5)
LA 12	200W	7-3/4 (19.7)	12-5/8 (32.1)	17-3/16 (43.7)	10-7/8 (27.6)	12-1/4 (31.3)	12-5/8 (32.1)

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



DP

Adjustable Lamp

NEW



Directional

Intended Use

Suitable for offices, restaurant, show-rooms, museums, retail and reception areas where directional accent lighting is desired.

Features

Optical System – Self-flanged, specular clear, semi-diffuse or highly specular cone designed to minimize backflash. Contour cut minimizes visibility of inner housing. Center Beam optical system centers lamp relative to the aperture, optimizing lamp efficiency. Optical system retained by two self-aligning, torsion support springs. Relamping capability from above or below ceiling.

Adjustment Mechanism – Tool-less 0°- 40° vertical and 360° horizontal adjustment. Hot lamp aiming capability. Lockable adjustment mechanisms maintain lamp position and are visible from below the ceiling with optical system removed.

Electrical System – Thermally activated insulation detector. Medium-base porcelain socket.

Mounting – Rolled steel housing with matte black finish and plaster flange. Expandable, self-locking mounting bars provide horizontal and vertical adjustment. Secondary housing adjustment system for precise ceiling-to-flange alignment. Tool-less access door to thru-wire junction box.

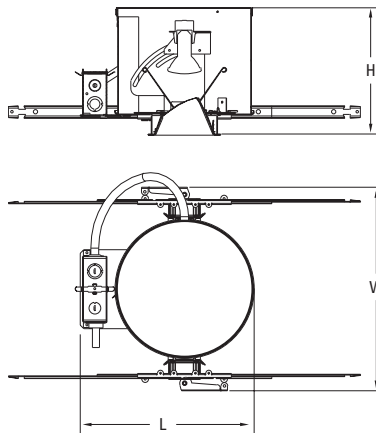
Listing – Fixtures are UL listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

Example: **DP PAR16-30S 6ACT30**

Series	Lamp type	Aperture ¹	Trim color	Type	Finish	Options/ Accessories
DP	PAR16-30S PAR16, PAR20 or PAR30S (short-neck) (75W max.)	4	AC Clear	T00 Cut for angles 0°-15°	(blank) Specular	See pages 221-225.
		6	PC Pewter	T20 Cut for angles 15°-25°	LD Semi-diffuse	
		8	UBC Umber		LS Highly specular	
	PAR30L-38 PAR30L (longneck) or PAR38 (250W max.)	WTC Wheat	T30 Cut for angles 25°-40°	CC Champagne gold		
		GC Gold				
		WC White painted ²				
PAR38/3 PAR38/3 (150W max.)	BC Black ²					
PAR46 PAR46 (200W max.)	MB Black baffle ²					
PAR56 PAR56 (300W max.)	WB White baffle ²					

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



NOTES

- 1 Refer to chart below for lamp type availability.
- 2 Not available with finishes.

STANDARD PACKAGING

To order, use a single master catalog number. Example: (13) **DP PAR16-30S 6ACT30**.

Fixtures ship as multiple components using optimized packaging. Example above ships as:

- (Qty 13) **DP PAR16-30S HSG** (13 cartons of 1 housing)
- (Qty 12) **D 6ACT30 TRIM J4** (3 cartons of 4 reflectors)
- (Qty 1) **D 6ACT30 TRIM U** (1 carton of 1 reflector)

Cat. No.	Lamp Type	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
DP4	PAR 16-30S	9-1/2 (24.1)	13 (33)	15-1/8 (38.4)	4-3/8 (11.1)	5-1/16 (12.9)	5-7/16 (13.8)
DP6	PAR 16-30S	10-1/2 (26.7)	17-3/8 (44.1)	19-3/4 (50.2)	6-1/4 (15.9)	6-7/8 (17.5)	7-3/8 (18.7)
	PAR30L-38 PAR38/3	12-1/8 (30.8)					
DP8	PAR16-30S	10-1/2 (26.7)	17-3/8 (44.1)	19-3/4 (50.2)	7-7/8 (2)	8-7/16 (21.4)	9-1/4 (23.5)
	PAR30L-38	12-1/8 (30.8)					
	PAR38/3						
	PAR46 PAR56						

Intended Use

For retail areas or any application requiring accent lighting. Fixtures can be completely or partially retracted into the ceiling.

Features

Head Style – White painted roundback, designer or gimbal ring head available. Head rotates 355° and tilts 90°.

Housing – Rolled steel housing with articulated arm connecting housing top and concealing plate to ensure smooth and centered positioning of head.

Electrical System – Thermally activated protection detector. Medium-base porcelain socket.

Mounting – 16-gauge galvanized steel mounting/plaster frame with thru-wire junction box. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings – Fixtures are UL Listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.



Ordering Information

Example: D 6PDD

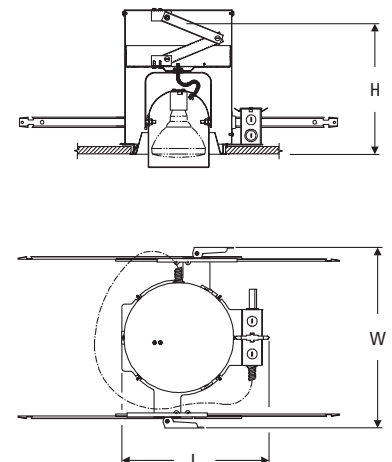
Series	Aperture	Head style	Options/Accessories
D D30 ¹	5 ² 6 7	PD White roundback PDD White designer ³ PDG White gimbal ring ⁴	See pages 221-225.

STANDARD PACKAGING
 To order, use a single master catalog number.
 Example: (13) D 6PDD
 Fixtures ship complete in unit cartons only.
 Example above ships as:
 (Qty 13) D 6PDD (13 cartons of 1 fixture)

- NOTES:
 1 Available in 6" PDG only.
 2 Access above ceiling required for wiring inspection.
 3 Available in 5" and 6" only.
 4 Available in 6" only.

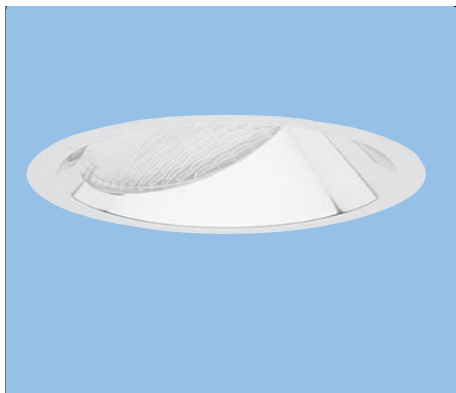
Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.

Cat. No.	Max. Wattage/Lamp	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
D 5PD	75W PAR16 50W PAR20	13-1/4 (33.7)	13-1/8 (33.3)	13-13/16 (35.1)	5 (12.7)	5-5/8 (14.3)	6-1/4 (15.9)
D 5PDD	75W PAR16 50W PAR20 75W PAR30	13-1/4 (33.7)	13-1/8 (33.3)	13-13/16 (35.1)	5 (12.7)	5-5/8 (14.3)	6-1/4 (15.9)
D 6PD	75W PAR30	13-1/4 (33.7)	13-1/8 (33.3)	13-13/16 (35.1)	6-7/16 (16.4)	6-7/8 (17.5)	7-1/2 (19.1)
D 6PDD	Q250W PAR38	13-1/4 (33.7)	13-1/8 (33.3)	13-13/16 (35.1)	6-7/16 (16.4)	6-7/8 (17.5)	7-1/2 (19.1)
D30 6PDG	75W PAR30	13-1/4 (33.7)	13-1/8 (33.3)	13-13/16 (35.1)	6-7/16 (16.4)	6-7/8 (17.5)	7-1/2 (19.1)
D 6PDG	Q250W PAR38	13-1/4 (33.7)	13-1/8 (33.3)	13-13/16 (35.1)	6-7/16 (16.4)	6-7/8 (17.5)	7-1/2 (19.1)
D 7PD	Q250W PAR38	13-1/4 (33.7)	13-1/8 (33.3)	13-13/16 (35.1)	7-7/16 (18.9)	8-1/8 (20.6)	8-5/8 (21.9)



DW

Adjustable Lamp

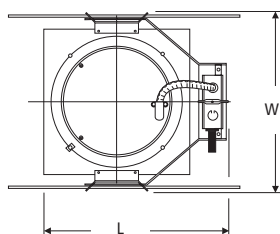
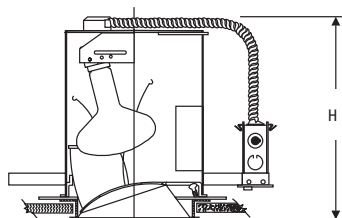


Ordering Information

Series	Aperture	Trim color	Finish	Options/Accessories
DW	7	ASL Clear PSL Pewter UBSL Umber WTSL Wheat GSL Champagne gold GSL Gold BSL Black ¹ WSL White painted ¹	(blank) Specular LD Semi-diffuse LS Highly specular	See pages 221-225.

Example: DW 7ASL

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



NOTE:

1 Not available with finishes.

STANDARD PACKAGING

To order, use a single master catalog number.
Example: (13) DW 7ASL

Fixtures ship as multiple components using optimized packaging. Example above ships as:

- (Qty 13) DW 7 HSG (13 cartons of 1 housing)
- (Qty 13) DW 7ASL SPLAY (13 cartons of 1 splay)
- (Qty 12) GBH J4 (3 cartons of 8 bar hangers)
- (Qty 1) GBH U (1 carton of 2 bar hangers)

Lensed Wallwash

Intended Use

Suitable for wallwash applications such as museums, offices, retail areas, show-rooms, lobbies and restaurants.

Features

Optical System – Self-flanged, specular-clear, semi-diffuse or highly specular splay with a concave, heat-resistant spread lens. Optical system designed to deliver uniform distribution of light to the wall.

Electrical System – Four-position angle socket adjustment and lock. Thermally activated insulation detector. Medium-base porcelain socket.

Mounting – Die-cast aluminum plaster frame mounted to pan. Thru-wire junction box. Two steel channel bar hangers provided with five-inch vertical adjustment and locking screw.

Listings – Fixtures are UL Listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Cat. No.	Max. Wattage/Lamp	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
DW 7	Q250W PAR38 300W BR40	11-1/2 (29.2)	14-1/2 (36.8)	15 (38.1)	7-3/8 (18.7)	8-1/8 (20.6)	8-3/4 (22.2)

Vertical Lamp

Intended Use

Provides general illumination in schools, retail or other mid- to high-ceiling applications where simple, inexpensive dimming and superior color rendering are required. Brightness control is achieved with a black baffle system.

Mounting – Ceiling mount, wall mount or pendant mount available.

Listings – CC6 and CP6 fixtures are UL Listed for damp locations. CW6 fixtures are UL Listed for wet locations. Listed and labeled to comply with Canadian Standards.

Features

Optical System – Baffle provides extreme low brightness at high aiming angles.

Housing – Hydroformed aluminum housing.

Electrical System – Medium-base porcelain socket.



Example: **CC6 MB**

Ordering Information

Series ¹	Trim Color	Options/Accessories
CC6 Ceiling-mount	MB Black baffle	See pages 221-225.
CW6 Wall-mount ²		
CP6 Pendant-mount ³		

NOTES:

- 1 Matte white finish (DWHG) standard. Optional colors available. Refer to *Architectural Color* brochure.
- 2 Wet location for non-covered ceilings.
- 3 1/4" thread mount.

STANDARD PACKAGING

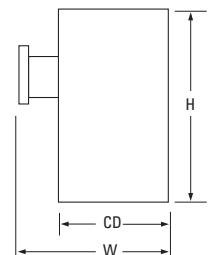
To order, use a single *master* catalog number.
Example: (13) **CC6 MB**

Fixtures ship complete in unit cartons only.
Example above ships as:

(Qty 13) **CC6 MB DWHG** (13 cartons of 1 fixture)

Cat. No.	Max. Watt/Lamp	Cylinder Diameter (CD)	Height (H)	Arm-Mounted Width (W)
CC6	150W PAR38			
CW6	Q250W PAR38	5-7/8 (14.9)	9-5/8 (24.4)	7-3/16 (18.3)
CP6	150W PAR38			

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



7" Cylinders and Cuboids

C

Vertical Lamp



Intended Use

Provides general illumination with superior brightness control. Available in square and cylinder shapes to complement the architecture. Appropriate for mid to high ceilings. Use in schools, retail or other areas where simple, inexpensive dimming and excellent color rendering are required.

Features

Optical System – Self-flanged, specular clear, semi-diffuse or highly specular cone maximizes lamp output while minimizing high angle brightness.

Housing – Heavy-gauge aluminum, rolled or formed, and seam-welded with no visible seam.

Electrical System – Extruded aluminum, heat-dissipating socket housing. Medium-base porcelain socket.

Mounting – Ceiling-mount, wall-mount or pendant-mount available.

Listings – Fixtures are UL Listed for damp locations. Listed and labeled to comply with Canadian standards.

Ordering Information

Example: **CC7A AC**

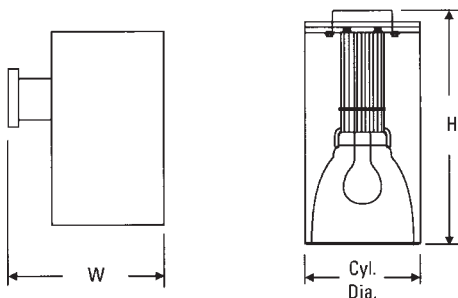
Series ¹	Wattage/lamp
Cylinder	
CC7 Ceiling-mount	A 50W R20/PAR20
CW7 Wall-mount	B 65W BR30, Q250W
CP7 Pendant-mount ²	PAR38
Cuboid	C 300W BR40
CCS7 Ceiling-mount	
CWS7 Wall-mount	
CPS7 Pendant-mount ²	

Trim color
AC Clear
PC Pewter
UBC Umber
WTC Wheat
CC Champagne gold
GC Gold
BC Black ³
WC White painted ³
MB Black baffle ³
WB White baffle ³

Finish
(blank) Specular
LD Semi-diffuse
LS Highly specular

Options/Accessories
See pages 221-225.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.



NOTES:

- Matte white finish (DWHG) standard. Optional colors available. Refer to *Architectural Colors* brochure.
- 3/8" thread mount.
- Not available with finishes.

STANDARD PACKAGING

To order, use a single *master* catalog number.
Example: (13) **CC7A AC**

Fixtures ship complete in unit cartons only.
Example above ships as:

(Qty 13) **CC7A AC DWHG** (13 cartons of 1 fixture)

Cat. No.	Cyl. Dia./ Square	Height (H)	Arm-Mounted Width (W)
CC7	6-5/8 (16.6)	15-1/8 (38.4)	9-1/8 (25.1)
CCS7	6-7/8 (17.5)	16-1/8 (41.0)	10-1/8 (25.7)

Vertical Lamp

Intended Use

Provides general illumination with superior brightness control. Available in square and cylinder shapes to complement the architecture. Appropriate for mid to high ceilings. Use in schools, retail or other areas where simple, inexpensive dimming and excellent color rendering are required.

Features

Reflector Optical System – Self-flanged, specular clear, semi-diffuse or highly specular reflector designed to optimally balance low brightness and high efficiency.

Cone Optical System – Self-flanged, specular clear, semi-diffuse or highly specular cone maximizes lamp output while minimizing high-angle brightness.

Housing – Heavy-gauge aluminum, rolled or formed, and seam-welded with no visible seam.

Electrical System – Extruded aluminum, heat-dissipating socket housing. Medium-base porcelain socket.

Mounting – Ceiling-mount, wall-mount or pendant-mount available.

Listings – Fixtures are UL Listed for damp locations. Listed and labeled to comply with Canadian standards.



Ordering Information

Example: **CC8A AR**

Series ¹	Wattage/lamp
Cylinder	A 150W A21
CC8 Ceiling-mount	B 200W A23
CW8 Wall-mount	C 300W PS25
CP8 Pendant-mount ²	
Cuboid	
CCS8 Ceiling-mount	
CWS8 Wall-mount	
CPS8 Pendant-mount ²	

Reflector color
AR Clear
PR Pewter
UBR Umber
WTR Wheat
CR Champagne gold
GR Gold
WR White painted ³

Finish
(blank) Specular
LD Semi-diffuse
LS Highly specular

Options/Accessories
See pages 221-225.

Series ¹	Wattage/lamp
Cylinder	A Q250W PAR38
CC8 Ceiling-mount	
CW8 Wall-mount	
CP8 Pendant-mount ²	
Cuboid	
CCS8 Ceiling-mount	
CWS8 Wall-mount	
CPS8 Pendant-mount ²	

Cone color
AC Clear
PC Pewter
UBC Umber
WTC Wheat
CC Champagne gold
GC Gold
BC Black ³
WC White painted ³
MB Black baffle ³
WB White baffle ³

Finish
(blank) Specular
LD Semi-diffuse
LS Highly specular

Options/Accessories
See pages 221-225.

STANDARD PACKAGING

To order, use a single master catalog number.
Example: (13) **CC8A AR**

Fixtures ship complete in unit cartons only.
Example above ships as:

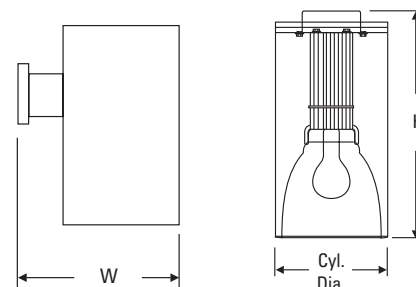
(Qty 13) **CC8A AR DWHG** (13 cartons of 1 fixture)

NOTES:

- Matte white finish (DWHG) standard. Optional colors available. Refer to *Architectural Colors* brochure.
- 3/8" thread mount.
- Not available with finishes.

Cat. No.	Cyl. Dia./ Square	Height (H)	Arm Mounted Width (W)
CC8	8-3/8 (21.3)	17-1/8 (43.5)	11-5/8 (29.5)
CCS8	8-1/2 (21.6)	18-1/8 (46.0)	11-3/4 (29.9)

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.



C

Vertical Lamp



Intended Use

Provides general illumination with superior brightness control. Appropriate for applications with high ceilings such as churches, malls or auditoriums.

Features

Optical System – Anodized upper ellipsoidal reflector and lower cone to provide high-intensity light output through a small aperture, while maintaining high efficiency and minimizing high-angle brightness. Lower cone is self-flanged, specular clear, semi-diffuse or highly specular.

Housing - Heavy-gauge aluminum, rolled and seam-welded with no visible seam.

Electrical System - Extruded aluminum, heat-dissipating socket housing. Heavy duty mini-can socket.

Mounting - Ceiling-mount, wall-mount or pendant-mount available.

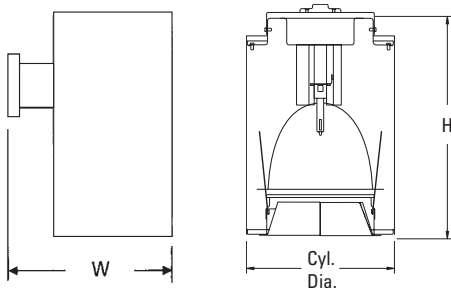
Listings - Fixtures are UL listed for damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

Example: **CC11 250T 8AC**

Series	Wattage/Lamp	Aperture/Trim color	Finish	Options/Accessories
CC11 Ceiling-mount	150T	8AC Clear	(blank) Specular	See pages 221-225.
CW11 Wall-mount	250T	8PC Pewter	LD Semi-diffuse	
CP11 Pendant-mount ²	400T	8UBC Umber	LS Highly specular	
	500T	8WTC Wheat		
		8CC Champagne Gold		
		8GC Gold		
		8BC Black ³		
		8WC White Painted ³		
		8MB Black Baffle ³		
		8WB White Baffle ³		

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



NOTES:

- 1 Matte white finish (DWHG) standard. Optional colors available. Refer to *Architectural Colors* brochure.
- 2 3/8" thread mount.
- 3 Not available with finishes.

STANDARD PACKAGING

To order, use a single master catalog number.
Example: (Qty 13) **CC11 250T 8AC**

Fixtures ship complete in unit cartons only.

Example above ships as:

(Qty 12) **CC11 250T 8AC DWHG** (13 cartons of 1 fixture)

Cat. No.	Cylinder Diameter	Height (H)	Aperture	Arm Mounted Width (W)
CC11	11 (27.9)	17-1/2 (44.5)	8 (20.3)	15-7/8 (40.3)

CWU

Vertical Lamp

Intended Use

Provides direct and indirect light with superior brightness control. Appropriate for mid to high ceilings. PAR lamps provide crisp white light in a variety of beam spreads for flexible lighting solutions. Use in schools, retail or other areas where simple, inexpensive dimming and excellent color rendering are required.

Electrical System – Extruded aluminum, heat-dissipating socket housing. Medium-base porcelain sockets.

Mounting – Wall-mount.

Listings – Fixtures are UL Listed for damp locations. Listed and labeled to comply with Canadian standards.

Features

Optical System – Self-flanged, specular clear, semi-diffuse or highly specular cone maximizes lamp output while minimizing high-angle brightness.

Housing – Heavy-gauge aluminum, rolled and seam-welded with no visible seam.



Example: **CWU7A AC**

Ordering Information

Series ¹	Diameter	Trim color	Finish	Options/Accessories
CWU	7A 150W PAR38 8A 300W BR40 Q250W PAR38	AC Clear PC Pewter UBC Umber WTC Wheat CC Champagne gold GC Gold BC Black ² WC White painted ² MB Black baffle ² WB White baffle ²	(blank) Specular LD Semi-diffuse LS Highly specular	See pages 221-225.

STANDARD PACKAGING

To order, use a single *master* catalog number.
Example: (13) **CWU7A AC**

Fixtures ship complete in unit cartons only.
Example above ships as:

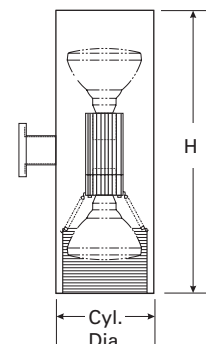
(Qty 13) **CWU7A AC DWHG** (13 cartons of 1 fixture)

NOTES:

1 Matte white finish (DWHG) standard. Optional colors available. Refer to *Architectural Color* brochure.

2 Not available with finishes.

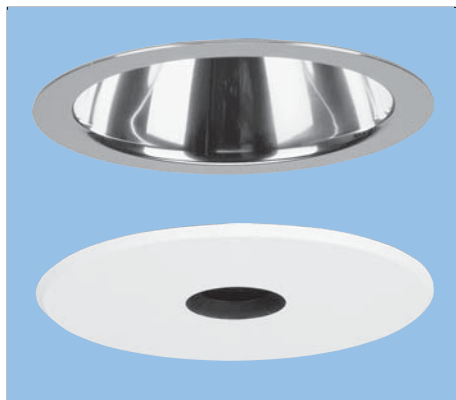
Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.



Cat. No.	Cylinder Diameter	Height (H)	Arm-Mounted Width (W)
CWU 7	6-5/8 (16.8)	22-1/8 (56.2)	9-7/8 (25.1)
CWU 8	8-3/8 (21.3)	22-5/8 (65.1)	11-5/8 (29.5)

DLV

Vertical Lamp



Ordering Information

Series	Configuration	Lamp type
DLV	DWN	MR16 MR11 ALR12 ALR18 AR70

Downlight

Intended Use

Suitable for offices, reception areas, restaurants, showrooms, museums, retail areas and residences where accent lighting is desired.

Features

Optical System – Internal housing components painted matte black. Lamp snoot minimizes stray light in housing. Optical design maximizes light output while minimizing high-angle brightness. Lamp is visible before reflected lamp image. Optical system (seamless white cast faceplate in 1", 2", and 3") retained by two self-aligning torsion support springs. Accommodates up to two lenses. Safety lens standard with required lamp type. Relamping capability from above and below ceiling.

Electrical System – Tool-less replaceable socket assembly. Tool-less removal of step-down transformer and thermally activated insulation detector.

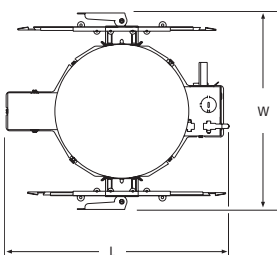
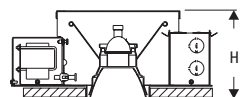
Mounting – Rolled steel housing with matte black finish and plaster flange. Expandable, self-locking mounting bars provide horizontal and vertical adjustment. Secondary housing adjustment system for precise ceiling-to-flange alignment. Thru-wire junction box with bottom-hinged access covers and spring latches.

Listings – Fixtures are UL Listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Example: DLV DWN MR16 4AC 120

Aperture ¹	Trim color/Type	Finish	Voltage	Options/Accessories
1 ²	AC Clear ³	(blank) Specular	120	See pages 221-225.
2	PC Pewter ³	LD Semi-diffuse	277	
3	UBC Umber ³	LS Highly specular	347	
4	WTC Wheat ³			
	CC Champagne gold ³			
	GC Gold ³			
	B Black ^{4,5}			
	BC Black cone ^{3,5}			
	WC White painted ^{5,6}			
	MB Black baffle ^{3,5}			
	WB White baffle ^{5,6}			
	P Pinhole ^{5,7}			

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.



NOTES:

- 1 Refer to chart below for lamp type availability.
- 2 Available with Pinhole (P) trim type only.
- 3 Available in 3" and 4" only.
- 4 Available with 2" only.
- 5 Not available with finishes.
- 6 Available in 4" only.
- 7 Available in 1" only.

STANDARD PACKAGING (optimized form)

To order, use a single *master optimized form* catalog number.

Example: (13) DLV DWN MR16 4AC 120.

Fixtures ship as multiple components using *optimized* packaging. Example above ships as:

- (Qty 13) DLV UVL 120 HSG (13 cartons of 1 housing)
- (Qty 13) DLV DWN MR16 4AC TRIM U (13 cartons of 1 reflector)

Cat. No.	Lamp Type	Max Wattage	Aperture	Height (H)	Width (W)	Length (L)	Ceiling Opening	Overlap Trim
DLV DWN 1P	MR16, MR11, ALR12	75	1 (2.54)	6-3/4" (17.1)	13-3/4" (34.9)	16-1/8" (41.0)	4-7/8" (12.4)	5-1/2" (14)
DLV DWN 2B	MR16, MR11, ALR12	75	2 (5.1)					
DLV DWN 3AC	MR16, MR11, ALR12 ALR18, ALR70	75	3 (7.6)					
DLV DWN 4AC	MR16, MR11, ALR12 ALR18, ALR70	75	4-1/4 (10.8)					

DLV

Adjustable Lamp

Intended Use

Suitable for offices, reception areas, restaurants, showrooms, museums, retail areas and residences where wallwash accent lighting is desired.

Features

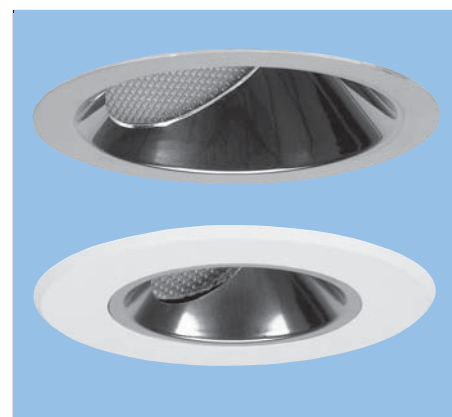
Optical System – Internal housing components painted matte black. Lamp snoot minimizes stray light in housing. Self-flanged, specular clear, semi-diffuse or highly specular cone with spread lens. No backflash on room side. Optical system (seamless white cast faceplate in 3" aperture) retained by two self-aligning torsion support springs. Accommodates up to two lenses. Safety lens standard with required lamp type. Relamping capability from above or below ceiling.

Adjustment Mechanism – Tool-less 360° horizontal lamp adjustment is made with optical system lowered below ceiling. Adjustment mechanism locks to maintain lamp position during relamping.

Electrical System – Tool-less replaceable socket assembly. Tool-less removal of step-down transformer and thermally activated insulation detector.

Mounting – Rolled steel housing with matte black finish and plaster flange. Expandable, self-locking mounting bars provide horizontal and vertical adjustment. Secondary housing adjustment system for precise ceiling-to-flange alignment. Thru-wire junction box with bottom-hinged access covers and spring latches.

Listings – Fixtures are UL Listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.



Example: **DLV WSH MR16 4AC 120**

Ordering Information

Series	Configuration	Lamp Type	Aperture	Trim color	Finish	Voltage	Options/ Accessories
DLV	WSH	MR16 MR11 ALR12 ALR18 AR70	3 4	AC Clear PC Pewter UBC Umber WTC Wheat CC Champagne gold GC Gold BC Black ¹ WC White painted ^{1,2}	(blank) Specular LD Semi-diffuse LS Highly specular	120 277 347	See pages 221-225.

NOTES:

- 1 Not available with finishes.
- 2 Available in 4" only.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

STANDARD PACKAGING

To order, use a single master catalog number.

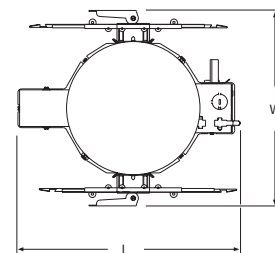
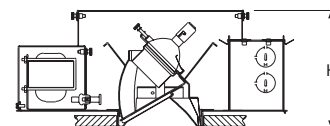
Example: (13) **DLV WSH MR16 4AC 120**.

Fixtures ship as multiple components using optimized packaging. Example above ships as:

(Qty 13) **DLV UVL 120 HSG** (13 cartons of 1 housing)

(Qty 13) **DLV WSH MR16 4AC TRIM U**

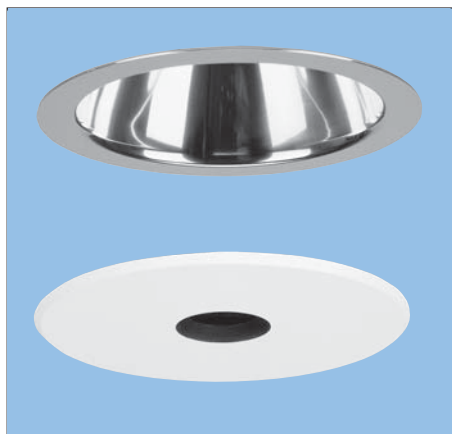
(13 cartons of 1 reflector)



Cat. No.	Lamp Type (Max. 75W)	Aperture	Ceiling Opening	Overlap Trim	Height (H)	Width (W)	Length (L)
DLV WSH 3	MR16, MR11, ALR12, ALR18, AR70	3 (7.6)	4-7/8" (12.4)	5-1/2" (14)	6-3/4" (17.1)	13-3/4" (34.9)	16-1/8" (41.0)
DLV WSH 4	MR16, MR11, ALR12, ALR18, AR70	4-1/4 (10.8)					

DLV

Adjustable Lamp



Directional

Intended Use

Suitable for offices, reception areas, restaurants, showrooms, museums, retail areas and residences where accent lighting is desired.

Features

Optical System – Internal housing components painted matte black. Lamp snoot minimizes stray light in housing. Lamp positioned for maximum output. Cone or chamfered aperture designed to minimize back-flash. Optical system (seamless white cast faceplate in 1", 2" and 3") retained by two self-aligning torsion support springs. Accommodates up to two lenses. Safety lens standard with required lamp type. Relamping capability from above or below ceiling.

Adjustment Mechanism – 0°-45° vertical and 360° horizontal adjustment. Tool-less adjustment is made with optical system lowered below ceiling for simple focusing.

Electrical System – Tool-less replaceable socket assembly. Tool-less removal of step-down transformer and thermally activated insulation detector.

Mounting – Rolled steel housing with matte black finish and plaster flange. Expandable, self-locking mounting bars provide horizontal and vertical adjustment. Secondary housing adjustment system for precise ceiling-to-flange alignment. Thru-wire junction box with bottom-hinged access covers and spring latches.

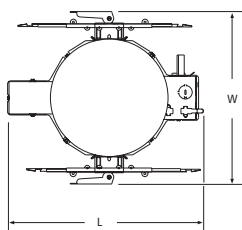
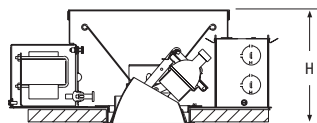
Listings – Fixtures are UL Listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

Example: **DLV ADJ MR16 4ACT30 120**

Series	Lamp type	Aperture ¹	Trim color/Type	Taper	Finish	Voltage	Options/ Accessories
DLV	MR16	1²	AC Clear	T Tapered cut cone ^{8,9}	(blank) Specular	120	See pages 221-225.
	MR11	2	PC Pewter	T00 Straight cut, for angles 0°-15° ⁵	LD Semi-diffuse	277	
	ALR12	3	UBC Umber	T20 Tapered cut, for angles 0°-25° ⁵	LS Highly specular	347	
	ALR18	4	WTC Wheat	T30 Tapered cut, for angles 25°-45° ⁵			
	AR70		CC Champagne gold GC Gold BC Black ³ WC White painted ^{3,4} MB Black baffle ^{3,5} WB White baffle ^{3,4} P Pinhole ^{3,6} S Slotted ^{3,7}				
Configuration							
	ADJ						

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.



NOTES:

- See chart below for lamp type availability.
- Available with Pinhole (P) or Slotted (S) trim type only.
- Not available with finishes.
- Available in 4" only.
- Available in 3" and 4" only.
- Available in 1" only.
- Available in 1" and 2" only.
- Available in 2" only.
- Not available with WC, MB, or WB.

STANDARD PACKAGING

To order, use a single *master* catalog number.

Example: (13) **DLV ADJ MR16 4ACT30 120**

Fixtures ship as multiple components using *optimized* packaging. Example above ships as:

(Qty 13) **DLV ADJ 4 120 HSG** (13 cartons of 1 housing)

(Qty 13) **DLV ADJ MR16 4ACT30 TRIM U**
(13 cartons of 1 reflector)

Cat. No.	Lamp Type (Max. 75W)	Aperture	Ceiling Opening	Overlap Trim	Height (H)	Width (W)	Length (L)
DLV ADJ 1P	MR16, MR11, ALR12	1 (2.54)	4-7/8" (12.4)	5-1/2" (14)	6-3/4" (17.1)	13-3/4" (34.9)	16-1/8" (41.0)
DLV ADJ 1S	MR16, MR11, ALR12	1 (2.54) x 2-1/4 (5.7)					
DLV ADJ 2	MR16, MR11, ALR12	2 (5.1)					
DLV ADJ 2S	MR16, MR11, ALR12	2-1/16 (5.2) x 2-13/16 (7.1)					
DLV ADJ 3	MR16, MR11, ALR12, ALR18, AR70	3 (7.6)					
DLV ADJ 4	MR16, MR11, ALR12, ALR18, AR70	4-3/4 (12)					

DLV

Adjustable Lamp

Intended Use

Suitable for offices, reception areas, restaurants, showrooms, museums, and retail areas where accent lighting is desired.

Features

Optical System – Self-flanged, specular clear, semi-diffuse or highly specular cone designed to minimize backflash. Contour cut minimizes visibility of inner housing. Center Beam optical system centers lamp relative to the aperture, optimizing lamp efficiency. Optical system retained by two self-aligning torsion support springs. Relamping capability from above or below ceiling. Safety lens standard with required lamp type.

Adjustment Mechanism – Tool-less 0°- 40° vertical and 360° horizontal adjustment. Hot lamp aiming capability. Lockable adjustment mechanisms maintain lamp

position and are visible from below the ceiling with optical system removed.

Electrical System – Tool-less replacable socket assembly. Tool-less removal of step-down transformer and thermally activated insulation detector.

Mounting – Rolled steel housing with matte black finish and plaster flange. Expandable, self-locking mounting bars provide horizontal and vertical adjustment. Secondary housing adjustment system for precise ceiling-to-flange alignment. Tool-less access door to thru-wire junction box.

Listing – Fixtures are UL listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

NEW



Example: DLV MR16 6ACT00 120

Ordering Information

Series	Lamp Type	Aperture ²	Trim color	Taper	Finish	Voltage	Options/ Accessories
DLV	AR70	6	AC Clear	T00 Straight cut, for angles 0°-15°	(blank) Specular	120	See pages 221-225.
	AR111	8	PC Pewter	T20 Tapered cut, for angles 0°-25°	LD Semi-diffuse	277	
	MR16		UBC Umber	T30 Tapered cut, for angles 25°-40°	LS Highly specular	347	
	PAR36		WTC Wheat				
	PAR56 ¹		CC Champagne gold				
			GC Gold				
			WC White painted ³				
			BC Black ³				
			MB Black baffle ³				
			WB White baffle ³				

Drawings for dimensional detail only. May not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.

STANDARD PACKAGING

To order, use a single master catalog number.

Example: (13) DLV MR16 6ACT00 120

Fixtures ship as multiple components using optimized packaging. Example above ships as:

(Qty 13) DLV MR16 6 120 HSG (13 cartons of 1 housing)

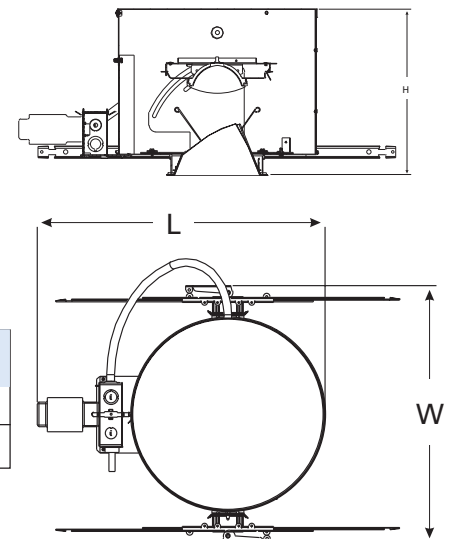
(Qty 12) D 6ACT00 TRIM J4 (3 cartons of 4 reflectors)

(Qty 1) D 6ACT00 TRIM U (1 carton of 1 reflector)

NOTES:

- 1 Available in 120V only.
- 2 See chart below for lamp type availability.
- 3 Not available with finishes.

Cat. No.	Lamp type	Max. wattage	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
DLV 6	AR70, AR111, MR16, PAR36	100	12-1/8 (30.8)	22 (55.9)	19-3/4 (50.2)	6-1/4 (15.9)	6-7/8 (17.5)	7-3/8 (18.7)
DLV 8	AR70, AR111, MR16, PAR36, PAR56	240	12-1/8 (30.8)	22 (55.9)	19-3/4 (50.2)	7-7/8 (20)	8-7/16 (21.4)	9-1/4 (23.1)



DV

Retractable Lamp



Directional

Intended Use

Retractable accent fixture for retail and other areas that require accent lighting. Fixture can be completely or partially retracted into the ceiling.

Features

Head Style – White painted roundback or gimbal ring head available. Head rotates 355° and tilts 90°.

Housing – Rolled steel housing with articulated arm connecting housing top and concealing plate to ensure smooth and centered positioning of head.

Electrical System – Step-down transformer mounted to junction box. Thermally activated insulation detector.

Mounting – 16-gauge galvanized steel mounting/plaster frame with thru-wire junction box. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

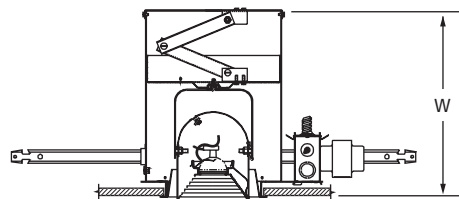
Listings – Fixtures are UL Listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

Example: **DV 6PD 120**

Series	Aperture	Head style	Voltage	Options/Accessories
DV ¹ DV36 ²	5 ³ 6	PD White roundback PDG White gimbal ring	120 277 347	See pages 221-225.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.



NOTES:

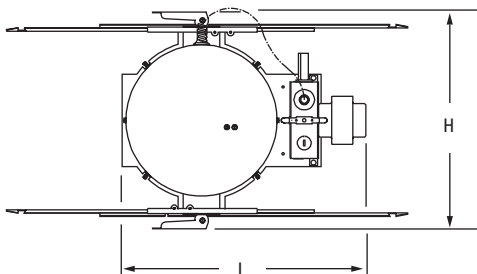
- 1 Safety glass provided for DV5/DV6 PD head styles.
- 2 Available in 6" PD only.
- 3 Access above ceiling required for wiring inspections.

STANDARD PACKAGING

To order, use a single *master* catalog number.
Example: (13) **DV 6PD 120**

Fixtures ship complete in unit cartons only.
Example above ships as:

(Qty 13) **DV 6PD 120** (13 cartons of 1 fixture)



Cat. No.	Max. Wattage/Lamp	Height (H)	Length (L)	Width (W)	Aperture	Ceiling Opening	Overlap Trim
DV 5PD	75 MR16	13-1/4 (33.7)	15-5/8 (39.7)	14 (35.6)	5-1/16 (12.9)	5-1/2 (14.0)	6-1/4 (15.9)
DV 6PD	75 MR16	13-1/4 (33.7)	15-5/8 (39.7)	14 (35.6)	6-7/16 (16.4)	6-3/4 (17.1)	7-1/2 (19.1)
DV 6PDG	75 PAR36	13-1/4 (33.7)	15-5/8 (39.7)	14 (35.6)	6-7/16 (16.4)	6-3/4 (17.1)	7-1/2 (19.1)
DV36 6PD	75 PAR36	13-1/4 (33.7)	15-5/8 (39.7)	14 (35.6)	6-7/16 (16.4)	6-3/4 (17.1)	7-1/2 (19.1)

Low Voltage

Example: **MR16 50 40DBS GE**

Lamp type ¹	Wattage	Distribution	Manufacturer
MR11	20	DBS² Degree beam spread	GE General Electric
MR16	35		SY OSRAM SYLVANIA
ALR12	42		PH Philips
ALR18	50		
AR70	65		
AR111	71		
PAR36	75		
PAR56	100		
	120		
	240		

- NOTES:
 1 See chart below for availability.
 2 Add degree beam spread. See chart below.
 3 Center beam candlepower.
 4 Contact Philips Lighting.

	Wattage	Distribution (degree beam spread)	CBCP ³	Manufacturer
MR11	20	10	5500	SY
		35	700	SY
	35	10	8500	SY
		40	1500	SY

	Wattage	Distribution (degree beam spread)	CBCP ³	Manufacturer
ALR12	20	6	6400	PH
		18	1000	PH
		34	350	PH

ALR18	50	10	12000	PH
		22	2000	PH

	Wattage	Distribution (degree beam spread)	CBCP ³	Manufacturer
MR16	20	7	7400	GE
		10	3400	PH
		10	5000	SY
		15	3750	GE
		36	550	PH
		40	525	GE
	35	40	700	SY
		10	8300	SY
		20	3900	GE
		25	3100	SY
		40	1000	GE
		40	1250	SY
	42	9	12300	GE
	50	10	8800	PH
		10	11500	SY
		15	9100	GE
		24	3200	PH
		25	3200	GE
		25	3200	SY
		36	1600	PH
		40	1700	GE
		40	2000	SY
		65	10	14000
	71	25	4000	SY
40		2100	SY	
15		11500	GE	
25		5500	GE	
		40	2200	GE

AR70	20	8	7700	SY
		25	900	SY
		35	8	12500
		25	2600	SY

AR111	50	8	20000	SY
		25	3500	SY
	75	8	30000	SY
		25	5300	SY
		45	1700	SY
	100	8	48000	SY
25		8500	SY	
45		2800	SY	

PAR36	35	8	20000	GE
		30	900	GE
	36	5	17000	SY
		13	3500	SY
		32	1000	SY
		50	6	25000
	50	8	30000	GE
		8	X ⁴	PH
		30	1300	GE

PAR56	120	SP	60000	GE
		MFL	19000	GE
		FL	5625	GE
	240	SP	140000	GE
		MFL	46000	GE
		FL	13000	GE

Ballast/Transformer

- EMB** Electromagnetic fluorescent ballast. Requires two-pin lamp.
- GEB10** Electronic fluorescent ballast. Requires four-pin lamp. THD < 10%, PF > 0.98
- EP** Encased-and-potted electromagnetic HID ballast. (120V, 277V or 347V only.)
- SCWA** Pulse Start Metal Halide super constant wattage autotransformer ballast. Consult specification sheet for wattage and voltage availability.
- HEB** Electronic HID ballast. 120V or 277V, 50 or 60 HZ. THD < 15%, PF > 0.90
- AD** Advance electromagnetic ballast. Fluorescent requires two-pin lamp.
- ADCF** Advance electronic fluorescent ballast. Requires four-pin lamp (120V or 277V only).
- ADEZ** Advance Mark X® electronic line voltage control dimming ballast. (120V or 277V; 18DTT, 26DTT, 18TRT, 26TRT, 32TRT, 42TRT or 57TRT only.) Requires four-pin lamp. Minimum dimming level 5%.
- ADZT** Advance Mark VII® electronic 0-10 VDC dimming ballast. (120V or 277V; 26DTT, 26TRT, 32TRT, 42TRT or 57TRT only.) Requires four-pin lamp. Minimum dimming level 5%.
- DMHL** Lutron Hi-Lume® electronic 3-wire line voltage control dimming ballast. (120V or 277V; 18DTT, 26DTT, 18TRT, 26TRT, 32TRT or 42TRT only.) Requires four-pin lamp. Minimum dimming level 5%.
- 2W5** Lutron Tu-Wire® electronic line voltage control dimming ballast. (120V or 277V; 18DTT, 26DTT, 18TRT, 26TRT, 32TRT or 42TRT only.) Requires four-pin lamp. Minimum dimming level 5%.
- MOTCF** Osram Sylvania electronic fluorescent ballast. Requires four-pin lamp.
- UN** Universal Lighting Technologies electromagnetic ballast. Fluorescent requires two-pin lamp.
- TUBCF** Universal Lighting Technologies electronic ballast. Requires four-pin lamp.
- SDT** Stepdown transformer (277V to 120V; 300W max.).
- SDT347** Stepdown transformer (347V to 120V; 75W max.).
- LVET** Low Voltage Electronic Transformer.
- QDS** Quick Disconnect System for easy fluorescent ballast replacement.
- DS** Dual Switching.

Emergency

- EL** Emergency battery pack with integral test switch. Operates one lamp in emergency mode with battery back-up in case of power disruption.
- ELR** Emergency battery pack with remote test switch. Operates one lamp in emergency mode with battery back-up in case of power disruption.
- ELSD** Emergency battery pack with integral test switch and self-diagnostics module. Operates one four-pin lamp in emergency mode with battery back-up in case of power disruption. Self-diagnostic module evaluates AC to DC transfer, charging and battery condition for five minutes every 30 days and 30 minutes every six months.
- ELRSD** Emergency battery pack with remote test switch and self-diagnostics module. Operates one four-pin lamp in emergency mode with battery back-up in case of power disruption. Self-diagnostic module evaluates AC to DC transfer, charging and battery condition for five minutes every 30 days and 30 minutes every six months.
- QRS** Quartz Restrike System. Automatically energizes 120V double-contact, bayonet-base lamp (by others) during a momentary power interruption significant enough to cause HID lamp to drop out. Lamp stays on until HID lamp restrikes.
- QRSTD** Quartz Restrike System with Time Delay. Operates like QRS, except auxiliary lamp remains on for two minutes after HID lamp restrikes.
- EC** Emergency Circuit. Factory-installed double-contact, bayonet-base socket with leads. For use with separate, external emergency power system.

Fusing

- GMF** Single, slow-blow fuse. (120V or 277V only.)
- GLR** Single, fast-blow fuse. (120V or 277V only.)
- SF** Single Fuse (120V, 277V or 347V only).
- DF** Double Fuse (208V or 240V only).

Trim

- TRW** White painted flange. (Standard with MB, WB, WC, or WR trim colors.)
- TRBL** Black painted flange.
- TRDA** Tamper-Resistant Door Assembly. Includes two tamper-resistant screws. For added protection, use in combination with PCL lens option.
- GSKT** Foam gasketing. Aids in reduction of light leaks and insect penetration, shipped uninstalled.
- CWW** Corner Wallwash.
- DWW** Double Wallwash.

Lamp

- WLP** Lamp (shipped separately).
- LPSP** Spot lamp (shipped separately).
- LPFL** Flood lamp (shipped separately).
- LPWFL** Wide flood lamp (shipped separately).

Mounting

- PM** Pendant Mount, 3/8" thread mount.
- WM** Wall Mount.
- CAS** 1/4" stem and canopy with 5° "hang straight" swivel. Available with CP6 only. Consult factory for exterior applications.
- CYS** 3/8" stem and canopy with 5° "hang straight" swivel. Consult factory for exterior applications.
- CRS** 3/8" stem and canopy with 45° swivel. Consult factory for exterior applications.

Miscellaneous

- LRC** Provides compatibility with Lithonia Reloc® System. Lithonia Reloc System can be installed less this option with connectors provided by others. Access above ceiling required.
- RIF** Radio Interference Filter. Inductive capacitor circuit designed to minimize interference from feedback into line. 120V through 347V, 50 or 60 HZ.
- WL** Wet Location.
- CP** Chicago plenum.
- CSA** Listed and labeled to comply with Canadian Standards.
- SHHSG** DLV shallow housing.

■ = option available; see specification sheet for details.

- NOTES:
 1 Available with 4-pin lamp only.
 2 Available with lensed units only.

		FLUORESCENT										H.I.D.					INCANDESCENT					LOW VOLTAGE																
		PDXF/PDIF	PDGF	AF/AFW	AFZ/AFZW	AFV/AFVW	DFW	LGF	LGFV	LAF	CF	CFZ	CFV	CFL	CFVL	AH/AHW/AHZ/AH2W	RH/RPH	DPH	DHW	DH PD	LGH/LGHZ	LAH	CC/CEC	A/AW/AZ/AWZ	R/RP	EQ/EOT	DP	DW	D PD	LG/LGZ	LA	CC/CCS/CWU	DLV 1-4	DLV 6 & 8	DV PD			
Ballast/Transformer	EMB																																					
	GEB10	■	■																																			
	EP																																					
	SCWA																																					
	HEB																																					
	AD																																					
	ADCF	■	■																																			
	ADEZ	■	■																																			
	ADZT	■	■																																			
	DMHL	■	■																																			
	2W5	■	■																																			
	MOTCF	■	■																																			
	UN	■	■																																			
	TUBCF	■	■																																			
	SDT	■	■																																			
	SDT347	■	■																																			
	LVET	■	■																																			
QDS	■	■																																				
DS	■	■																																				
Emergency	EL			■		■																																
	ELR	■	■																																			
	ELSD			■																																		
	ELRSD	■	■																																			
	QRS																																					
	QRSTD																																					
	EC																																					
Fusing	GMF	■	■																																			
	GLR	■	■																																			
	SF																																					
	DF																																					
Trim	TRW	■																																				
	TRBL	■																																				
	TRDA																																					
	GSKT	■																																				
	CWW																																					
	DWW																																					
Lamp	WLP	■	■																																			
	LPSP																																					
	LPFL																																					
	LPWFL																																					
Mounting	PM																																					
	WM																																					
	CAS																																					
	CYS																																					
	CRS																																					
Miscellaneous	LRC	■	■																																			
	RIF	■	■																																			
	WL																																					
	CP	■	■																																			
	CSA	■	■																																			
	SHHSG																																					

FILTER DESCRIPTIONS

Order separately from fixture as new catalog item.

FILTER COLORS

Dichroic borosilicate lenses (safety glass)

- RED** Red filter
- GAMB** Golden amber filter
- YEL** Yellow filter
- GRN** Green filter
- CBLUE** Cool blue filter
- MBLUE** Medium blue filter
- CPCH** Cool peach filter
- MGN** Magenta filter
- CYAN** Cyan filter
- CL** Clear Safety lens
- UV** +99% UV blocking below 400 nm

Soda Lime Lenses¹

- RR** Ruby red filter
- MB** Medium blue filter
- MA** Medium amber filter
- DB** Dark blue filter
- MP** Medium pink filter

BEAM-SHAPING LENSES

Borosilicate Lenses (safety glass)

- PMF** Perimeter frost lens
- LTF** Light frost lens
- SFG** Softening lens

Soda Lime Lenses¹

- SL** Spread lens
- EG** Elongating lens

Louvers¹

- L²** Matte black louver

LAMP TYPE	LENS/LOUVER SIZE							
	100	200	300	400	500	600	700	800
ALR12	■							
ALR18			■					
AR111					■		■	
AR70			■					
MR11	■							
MR16		■						
PAR16			■		■		■	
PAR20			■	■	■		■	
PAR30					■		■	
PAR36					■		■	
PAR38					■		■	
PAR38/3					■		■	
PAR46							■	■
PAR56							■	■

Size dependant upon fixture type and retaining method. See specification sheets.

Ordering Information

Example: **F200 RR**

Type	Size ⁴	Lens Type ⁵		
F Filter	100	RED	RR	PMF
L ³ Louver	200	GAMB	MB	UV
	300	YEL	MG	LTF
	400	GRN	MA	SL
	500	CBLUE	DB	EG
	600	MBLUE	MP	SFG
	700	CPCH	CL	
	800	MGN		
			CYAN	

NOTES:

1. Safety glass required in combination when used with MR11, MR16 or AR111 lamp types.
2. Not recommended for use with Aluminized Reflector MR16 lamps.
3. Not available with lens types.
4. See above chart for lamp compatibility.
5. For lens descriptions, refer to filter descriptions at top of page.

- SC** Sloped Ceiling Adaptor, aluminum with matte white finish for use in sloped ceiling application. Must specify degree of slope: 10D (10°), 15D (15°), 20D (20°), 25D (25°), 30D (30°). Example: SC6FL 10D.
- CTA** Ceiling Thickness Adaptor, galvanized steel for use in ceilings up to 2" thick.
- BH24** Bar Hangers, 24" galvanized steel bar hangers for T-bar mounting (set of two).
- LSMC** T-Bar Mounting Clips designed to lock bar hangers to T-bar (set of four). Not for use with BH24.
- SB** Snap-in black baffle for roundback head style.
- LFH** Locking Filter Holder accommodates up to two lenses/louvers.
- LTWFH** Filter Holder accommodates up to two lenses/louvers.
- GFC** Filter Clips accommodates up to two lenses/louvers.

■ = option available; see specification sheet for details.

	FLUORESCENT										H.I.D.					INCANDESCENT					LOW VOLTAGE															
	PDXF/PDTF	PDGF	AF/AFW	AFZ/AFZW	AFV/AFVW	DFW	LGF	LGFV	LAF	CF	CFZ	CFV	CFL	CFVL	AH/AHW/AHZ/AHZW	RH/RPH	DPH	DHW	DH PD	LGH/LGHZ	LAH	CC/CEC	A/AW/AZ/AWZ	R/RP	EQ/EQT	DP	DW	D PD	LG/LGZ	LA	CC/CCS/CWU	DLV 1-4	DLV 6 & 8	DV PD		
SC5				■											■								■	■												
SC6			■		■										■	■								■	■											
SC6FL	■		■																																	
SC7							■	■							■	■				■				■	■					■						
SC8			■	■											■									■	■											
SC8FL	■	■	■												■																					
SC9							■	■							■					■										■						
SC10			■												■																					
SC10FL	■		■												■																					
SC12							■	■							■					■				■	■					■						
SCE12															■					■										■						
CTA4					■										■	■								■	■											
CTA5					■										■	■			■					■	■				■							
CTA6			■		■										■	■			■					■	■				■							
CTA7					■										■	■			■					■	■				■							
CTA8			■		■										■	■			■					■	■				■							
CTA10			■												■	■			■					■	■				■							
CTA12															■	■			■					■	■				■							
BH24									■						■						■									■						
LSMC									■						■						■									■						
SB20																																				■
SB30																																				■
SB38																																				■
LFH300																																				■
LFH501																	■										■	■								
LFH502																■											■	■								
LFH503																											■	■								
LFH701																											■	■								
LFH702																	■										■	■								
LFH703																											■	■								
LTWFH400																											■	■								
LTWFH500																											■	■								
LTWFH700																											■	■								
GFC700																											■	■								
GFC800																											■	■								

LITHONIA DOWNLIGHTING

Lithonia Downlighting

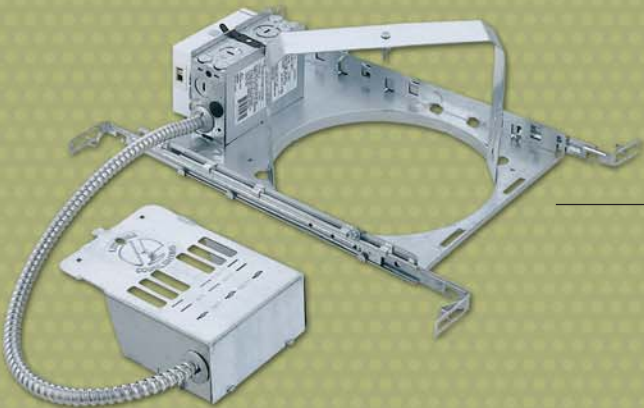
The Lithonia Downlighting family of products offers a wide selection of compact fluorescent, incandescent, HID and low voltage fixtures for a variety of applications.

With aperture sizes ranging from three to eight inches, our housings meet industry requirements for rugged construction and easy installation. Our reflectors are designed to deliver solid photometric performance at competitive prices.

With a comprehensive selection of housings and reflectors in stock, Lithonia Downlighting is the ideal choice for your next lighting project.



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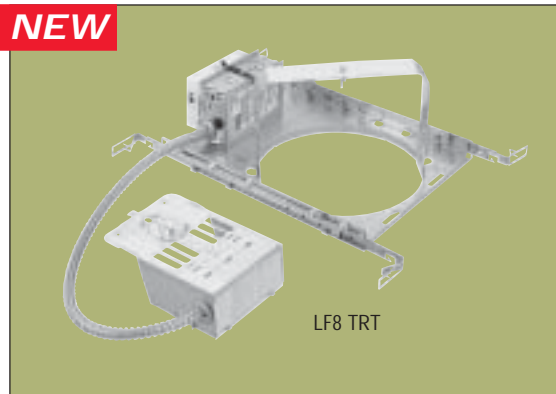
Options & Accessories



8" Fluorescent

Triple-Tube (TRT)

NEW



LF8 TRT

Intended Use

Recessed Frame-In rated **Non-IC** for **New Construction** applications. Approved for all wiring types and all ceiling types, including air-handling plenums.

Features

Thermally-protected against improper contact with insulation and approved for through-branch circuit wiring.

Rugged, galvanized steel frame and J-box. Ground wire provided.

Galvanized bar hangers span up to 24" o.c. and feature built-in nailers and T-bar clips.

Multi-volt (MVOLT) 120V through 277V, electronic ballast with end-of-life protection is standard.

Socket housing attaches to reflector with to ensure proper and consistent lamp position.

Reflector is secured to frame by mechanical trim retention.

Vertically adjustable yoke allows for flush mounting of reflectors to ceiling.

Damp location listed. (See reflector selection for wet location listed reflectors.)

UL listed to US and Canadian safety standards.

Non-IC Rated Full Reflectors — All reflectors are damp location listed. Lensed reflectors are wet location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1-1/2".

Open		Baffle		Wallwash	
F803A	Clear Diffuse*	F8B4	Black	F8W3A	Clear Diffuse*
F803AZ	Clear Specular*	F8B4W	White	F8W3AZ	Clear Specular*

Glass Lensed

Clear Lens

F8LT1 White Splay

F8LTB1 Black Baffle

Fresnel Lens

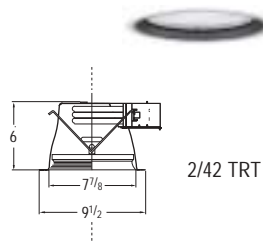
F8LT4 White Splay

F8LTB4 Black Baffle

Tempered Prismatic

F8LT73 White Splay

F8LTB73 Black Baffle



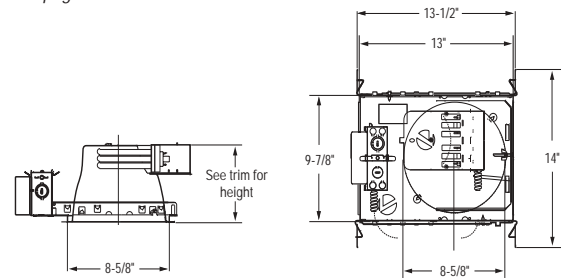
*Flange matches reflector finish. For white flange, add **TRW** to reflector catalog number.

Ordering Information

Example: **LF8 2/26-42TRT MVOLT**

Series	Lamps	Volts	Options	
LF8	2/26-42TRT	MVOLT¹	ADEZ	Advance Mark X ² electronic dimming ballast. Must specify 120V or 277V. Requires 4-pin lamp. Minimum dimming level 5%.
		120	DMHL	Lutron Hi-Lume ³ electronic dimming ballast. Must specify 120V or 277V. Requires 4-pin lamp (Philips lamp). Minimum dimming level 5%.
		277	ELR	Emergency battery pack. Remote test switch provided.
	347	GMF	Single slow-blow fuse.	
		GEB10	Generic electronic ballast, THD (total harmonic distortion) <10%. Requires four pin lamp. (13 DTT only.)	
		LRC	Provides compatibility with Lithonia Reloc System. Lithonia Reloc System can be installed less this option with connectors provided by others.	

IMPORTANT: Frame-ins and reflectors are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.



NOTES:

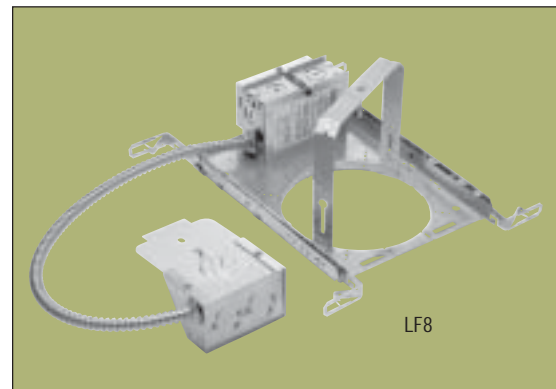
- 1 MVOLT – Electronic multi-volt ballast capable of operating any line voltage from 120-277V, 50 or 60Hz.
 - 2 Mark X is a registered trademark of Advance.
 - 3 Hi-Lume is a registered trademark of Lutron Electronics.
- When ordering battery packs for field installation on 4-pin lamped product use PSDL3 and ELA TSPLP. (Remote test switch)

8" Fluorescent

Double Twin-Tube (DTT)

Non-IC Rated Full Reflectors — All reflectors are damp location listed. Lensed reflectors are wet location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1-1/2".

Open		Baffle With Specular Upper Reflector		Open Wallwash With Kicker	
F8O2	White	F8B3	Black	F8W1	White
F8O2A	Clear Diffuse*	F8B3W	White	F8W1A	Clear Diffuse*
F8O2AZ	Clear Specular*			F8W1AZ	Clear Specular*
F8O2WT	Wheat*			F8W1WT	Wheat*



Intended Use

Recessed Frame-In rated **Non-IC** for **New Construction** applications. Approved for all wiring types and all ceiling types, including air-handling plenums.

Features

Available with multi-volt (MVOLT), 120V through 277V, electronic ballast with end of life protection.

Encased-and-potted, high power factor (HPF) electromagnetic ballast is standard.

Thermally protected against improper contact with insulation and approved for through-branch circuit wiring.

Rugged galvanized steel frame and J-box.

Factory-installed, captive bar hangers span 24" and feature built-in nailers and T-bar clips.

Reflectors secured to frame-in by mechanical trim retention.

Socket housing attaches to reflector to ensure proper and consistent lamp position.

Vertically adjustable yoke allows for flush and secure mounting of reflectors to ceiling.

Damp location listed. (See reflector selection for wet location listed reflectors.)

UL listed to US and Canadian safety standards.

Glass Lensed

Clear Lens

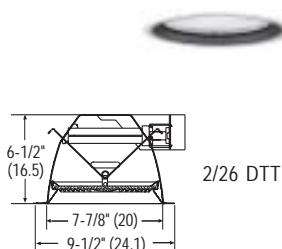
- F8LF1** White Splay
- F8LFB1** Black Baffle

Fresnel Lens

- F8L4** White Splay
- F8LB4** Black Baffle

Tempered Prismatic

- F8LF73** White Splay
- F8LFB73** Black Baffle



*Flange matches reflector finish. For white flange, add **TRW** to catalog number.

Ordering Information

Example: **LF8 2/26DTT MVOLT**

Series	Lamps	Volts	Options			
LF8	2/18DTT 2/26DTT	MVOLT¹	ADEZ	Advance Mark X ² electronic dimming ballast. Must specify 120V or 277V. (26DTT only). Requires four-pin lamp. Minimum dimming level 5%.	ELR	Emergency battery pack. Remote test switch provided.
		120	DMHL	Lutron Hi-Lume ³ electronic dimming ballast. Must specify 120V or 277V. Requires 4-pin lamp (Philips lamp). Minimum dimming level 5%.	LRC	Provides compatibility with Lithonia Reloc System. Lithonia Reloc System can be installed less this option with connectors provided by others.
		277 347	GEB10	Generic electronic ballast, THD (total harmonic distortion) <10%. Requires four pin lamp. (13 DTT only.)	GMF	Single slow-blow fuse.
					WLP	35°K lamp (shipped separately).

NOTES:

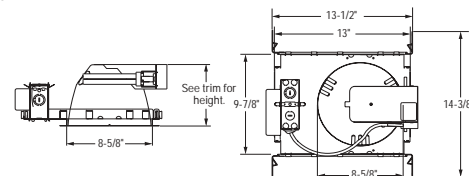
1 MVOLT – Electronic multi-volt ballast capable of operating any line voltage from 120-277V, 50 or 60Hz.

2 Mark X is a registered trademark of Advance.

3 Hi-Lume is a registered trademark of Lutron Electronics.

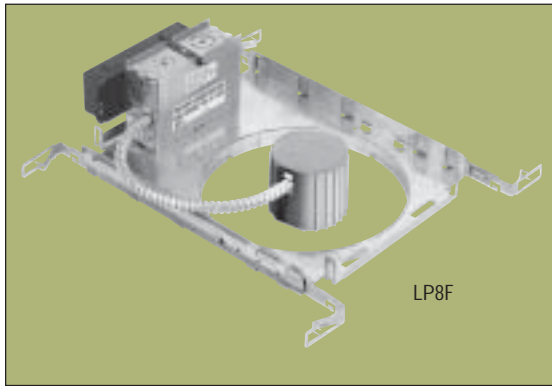
When ordering battery packs for field installation on 4-pin lamped product use PSDL3 and ELA TSPLP. (Remote test switch)

IMPORTANT: Frame-ins and reflectors are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.



8" Fluorescent

Double Twin-Tube (DTT)
Triple-Tube (TRT)



Intended Use

Recessed Frame-In rated **Non-IC** for **New Construction** applications. Approved for all ceiling types (including air handling plenums), and wiring types.

Features

- Multi-volt (MVOLT), 120V through 277V, electronic ballast with end of life protection standard with TRT lamps.
- Encased-and-potted, high power factor (HPF) electromagnetic ballast standard for DTT lamps.
- Thermally protected against improper contact with insulation and approved for through-branch circuit wiring.
- Rugged, galvanized steel frame and J-box.
- Factory-installed, captive bar hangers span 24" and feature built-in nailers and T-bar clips.
- Socket housing attaches to reflector with pre-mounted screws.
- Extruded aluminum adjustable socket cup for optimal lamp position.
- Damp location listed. (See reflector selection for wet location listed reflectors.)
- UL listed to US and Canadian safety standards.

Non-IC Rated Full Reflectors — All reflectors are damp location. Lamp types and maximum wattages listed for each trim. lensed trims are wet location. Maximum ceiling thickness 1-1/2".

Open		Baffle With Specular Upper Reflector		Open Wallwash With Kicker	
802	White	8B3	Black	8W1	White
802A	Clear Diffuse*	8B3W	White	8W1A	Clear Diffuse*
802AZ	Clear Specular*			8W1AZ	Clear Specular*
802GZ	Gold Specular*			8W1GZ	Gold Specular*
802WT	Wheat*			8W1WT	Wheat*

Glass Lensed

Clear Lens

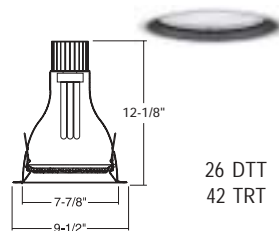
- 8LF1 White Splay
- 8LFB1 Black Baffle

Fresnel Lens

- 8L4 White Splay
- 8LB4 Black Baffle

Tempered Prismatic

- 8LF73 White Splay
- 8LFB73 Black Baffle



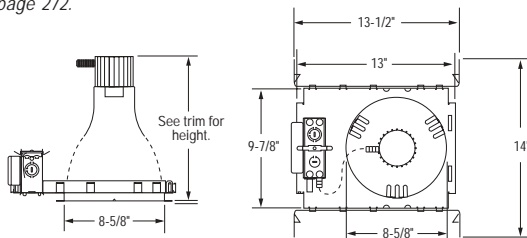
*Flange matches reflector finish. For white flange, add **TRW** to reflector catalog number.

Ordering Information

Example: **LP8F 26DTT MVOLT**

Series	Lamps	Volts	Options	
LP8F	18DTT	MVOLT ²	GEB10	Generic electronic ballast, THD (total harmonic distortion) <10%. Requires four-pin lamp.
	26DTT	120	ADEZ	Advance Mark X ³ electronic dimming ballast. Must specify 120V or 277V. (26DTT, 26TRT, 32TRT and 42TRT only). Requires 4-pin lamp. Minimum dimming level 5%.
	18TRT ¹	277		
	26/32TRT ¹	347	DMHL	Lutron Hi-Lume ⁴ electronic dimming ballast. Must specify 120V or 277V. (18DTT, 26DTT, 32TRT and 42TRT only). Requires 4-pin lamp. (Phillips lamp) Minimum dimming level 5%.
	26TRT ¹			
	32TRT ¹			
	42TRT ¹		LRC	Provides compatibility with Lithonia Reloc System. Lithonia Reloc System can be installed less this option with connectors provided by others.
			ELR	Emergency battery pack. Remote test switch provided.
			GMF	Single slow-blow fuse.
			WLP	35K Lamp (shipped separately). Must specify wattage.

IMPORTANT: Frame-ins and trims are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.



NOTES:

- Not available with a magnetic ballast.
- MVOLT- Electronic multi-volt ballast capable of operating any line voltage from 120-277, 50 or 60Hz.
- Mark X is a registered trademark of Advance.
- Hi-Lume is a registered trademark of Lutron Electronics. When ordering battery packs for field installation on 4-pin lamped product use PSDL3 and ELA TSPLP. (Remote test switch)

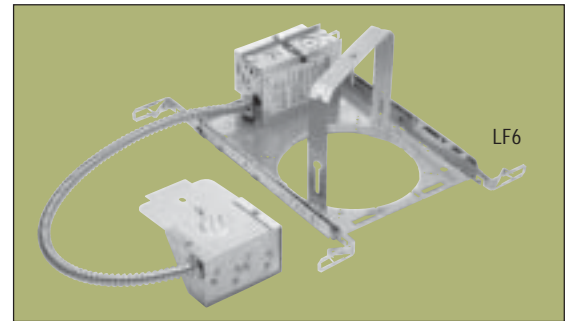
6" Fluorescent

Twin-Tube (TT)
Double Twin-Tube (DTT)

Non-IC Rated Full Reflectors – All reflectors are damp location listed. Lensed reflectors are wet location listed. Maximum ceiling thickness 1/2". Consult factory for thicker ceiling applications.

Open Reflector	Baffle	Open Wallwash With Kicker
F602 White F602A Clear Diffuse ⁴ F602AZ Clear Specular ⁴ F602G Gold Diffuse ⁴ F602GZ Gold Specular ⁴ F6C3BL Black Specular Cone	F6B3 Black F6B3W White	F6W1 White F6W1A Clear Diffuse ⁴ F6W1G Gold Diffuse ⁴

Glass Lensed	Polycarbonate Lensed (Shower/Closet)
Drop Opal F6LD3 White Splay F6LDB3 Black Baffle Flat White F6LF3 White Splay F6LFB3 Black Baffle Fresnel F6L4 White Splay F6LB4 Black Baffle Tempered Prismatic F6LF73 White Splay F6LFB73 Black Baffle	Opal F6LD1 PF* Drop, Plastic Flange F6LF1 PF* Flush, Plastic Flange Prismatic F6LD2 PF* Drop, Plastic Flange F6LF2 PF* Flush, Plastic Flange



Intended Use

Recessed Frame-In rated **Non-IC** for **New Construction** applications. Approved for all wiring types and all ceiling types, including air-handling plenums.

Features

- Thermally protected against improper contact with insulation and approved for through-branch circuit wiring.
- Rugged galvanized steel frame and J-box.
- Factory-installed, captive bar hangers span 24" and feature built-in nailers and T-bar clips.
- Socket housing attaches to reflector to ensure proper and consistent lamp position.
- Encased-and-potted, HPF electromagnetic ballast standard.
- Available with multi-volt (MVOLT), 120V through 277V, electronic ballast with end-of-life protection.
- Reflector is secured to frame-in by mechanical trim retention.
- Vertically adjustable yoke allows for flush and secure mounting of reflectors to ceiling.
- Damp location listed. (See reflector selection for wet location listed reflectors.)
- UL listed to US and Canadian safety standards.

Ordering Information

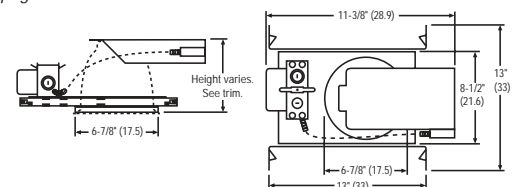
Example: **LF6 2/13TT 120**

Series	Lamps	Volts	Options	
LF6	2/9TT	MVOLT ¹	ADEZ	GEB10 Generic electronic ballast, THD (total harmonic distortion) <10%. Requires four pin lamp. (13 DTT only.) LRC Provides compatibility with Lithonia Reloc System. Lithonia Reloc System can be installed less this option with connectors provided by others. ELR Emergency battery pack. Remote test switch provided. ⁴ GMF Single slow-blow fuse.
	2/13TT	120		
	2/13DTT	277		
	2/18DTT	347		
	2/26DTT		DMHL	

NOTES:

- MVOLT – Electronic multi-volt ballast capable of operating any line voltage from 120-277, 50 or 60Hz.
 - Mark X is a registered trademark of Advance.
 - Hi-Lume is a registered trademark of Lutron Electronics.
 - Flange matches reflector finish. For white flange, add TRW to cat. no.
- When ordering battery packs for field installation on 4-pin lamped product, use PSDL3 and ELA TSPLP. (Remote test switch)

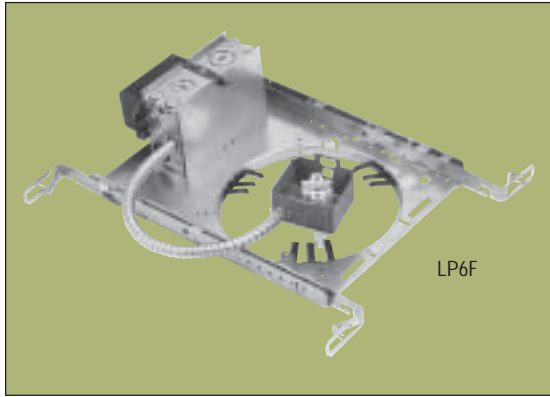
IMPORTANT: Frame-ins and reflectors are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.



* Plastic flange on lens trims may be required for use above motorized tubs or spas.

6" Fluorescent

Double Twin-Tube (DTT)
Triple-Tube (TRT)



Intended Use

Recessed Frame-In rated **Non-IC** for **New Construction** applications. Approved for all wiring types and all ceiling types, including air-handling plenums.

Features

Thermally protected against improper contact with insulation and approved for through-branch circuit wiring.

Rugged, galvanized steel frame and J-box.

Factory-installed, captive bar hangers span 24" and feature built-in nailers and T-bar clips.

J-box has built-in Romex clamps and a ground wire.

Socket housing clips to reflector to ensure proper, consistent lamp position.

Encased-and-potted, normal power factor (NPF) electromagnetic ballast standard.

Multi-volt (MVOLT), 120V through 277V, electronic ballast with end of life protection is standard with TRT lamps.

Damp location listed. (See reflector selection for wet location listed reflectors.)

UL listed to US and Canadian safety standards.

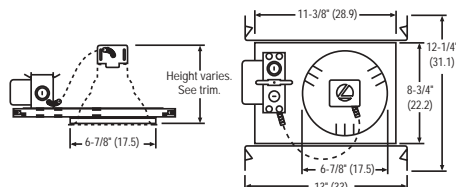
Non-IC-Rated Full Reflectors – All reflectors are damp location listed. Lensed reflectors are wet location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1/2". Consult factory for thicker ceiling applications.

Open		Premium Specular Cone With Diffuse Upper Reflector		Specular Multiplier	
607AZ	Clear Specular	6C3A	Clear	6M1A	Clear
607A	Clear Diffuse	6C3G	Gold	6M1G	Gold
		6C3BL	Black	6M1BL	Black
	18 DTT 42 TRT ⁴		18 DTT 32 TRT		26 DTT 42 TRT
Premium Metal Baffle With Diffuse Upper Reflector		Baffle		Open Wallwash with Kicker	
6B3	Black	6B4	Black	6W7AZ	Clear Specular
6B3W	White	6B4W	White	6W7A	Clear Diffuse
	18 DTT 18 TRT		18 DTT 32 TRT		18 DTT 42 TRT ⁴
Polycarbonate Lensed (Shower/Closet)		Glass Lensed			
Drop		Drop Opal			
6LD1*	Opal	6LD3	White Splay		
6LD2*	Prism	6LDB3	Black Baffle		
		Flush White			
		6LF3	White Splay		
		6LFB3	Black Baffle		
		Fresnel			
		6L4	White Splay		
		6LB4	Black Baffle		
	13 DTT 18 TRT		13 DTT 18 DTT (Drop Only) 18 TRT 32 TRT (Drop Only)		

Ordering Information

Series	Lamps	Volts	Options	
LP6F	9DTT	MVOLT ¹	ADEZ	Advance Mark X ² electronic dimming ballast, 120V or 277V, 26DTT only. Requires four-pin lamp. Minimum dimming level 5%.
	13DTT	120	DMHL	Lutron Hi-Lume ³ solid-state dimming ballast ⁴ For 18DTT, 26DTT, 32TRT and 42TRT only. Requires 4-pin lamp (Philips lamp). Minimum dimming level 5%.
	18DTT	277	HPF	High power factor (90% power factor for 120V, 277V and 347V).
	26DTT	347	GEB10	Generic electronic ballast, THD (total harmonic distortion) <10%. Requires four pin lamp. (13 DTT only.)
	18DTT/TRT		LRC	Provides compatibility with Lithonia Reloc System. Lithonia Reloc System can be installed less this option with connectors provided by others.
	18TRT		ELR	Emergency battery pack. Remote test switch provided.
	26TRT		GMF	Single slow-blow fuse.
	32TRT		WLP	Lamp (shipped separately).
	42TRT			
	26-42TRT			

Example: LP6F 9DTT 120



IMPORTANT: Frame-ins and reflectors are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.

NOTES:

- MVOLT – Electronic multi-volt ballast capable of operating any line voltage from 120-277, 50 or 60Hz.
 - Mark X is a registered trademark of Advance.
 - Hi-Lume is a registered trademark of Lutron Electronics.
 - Optimized around 32TRT lamp.
- When ordering battery packs for field installation on 4-pin lamped product use PSDL3 and ELA TSPLP. (Remote test switch)

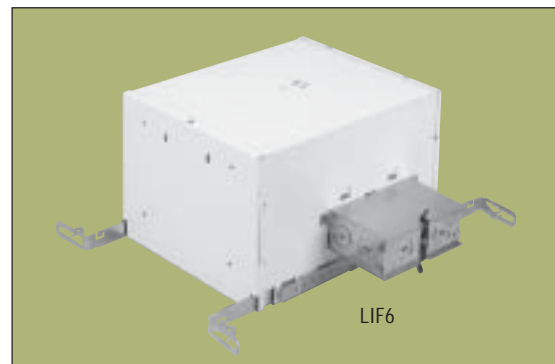
* Metal flange standard. Plastic flange on lens trims may be required for use above motorized tubs or spas. To order plastic flange, add suffix PF to catalog number (Example: 6LD1 PF).

6" Fluorescent

Twin-Tube (TT)
Double Twin-Tube (DTT)

IC-Rated Full Reflectors — All reflectors are damp location listed. Lensed reflectors are wet location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1/2".

Open Reflector		Baffle	Open Wallwash With Kicker	
F602 White	F602A Clear Diffuse ⁴	F6B3 Black	F6W1 White	
F602AZ Clear Specular ⁴	F602G Gold Diffuse ⁴	F6B3W White	F6W1A Clear Diffuse ⁴	
F602GZ Gold Specular ⁴	F6C3BL Black Specular Cone		F6W1G Gold Diffuse ⁴	



Glass Lensed		Polycarbonate Lensed (Shower/Closet)	
Drop Opal		Opal	
F6LD3 White Splay		F6LD1 PF* Drop, Plastic Flange	
F6LDB3 Black Baffle		F6LF1 PF* Flush, Plastic Flange	
Flat White		Prismatic	
F6LF3 White Splay		F6LD2 PF* Drop, Plastic Flange	
F6LFB3 Black Baffle		F6LF2 PF* Flush, Plastic Flange	
Fresnel			
F6L4 White Splay			
F6LB4 Black Baffle			
Tempered Prismatic			
F6LF73 White Splay			
F6LFB73 Black Baffle			

Intended Use

Recessed Housing rated IC for **New Construction** applications. Approved for all ceiling types, including air handling plenums, and wiring types.

Features

Approved for direct burial in insulation and through-branch circuit wiring. Pre-painted steel housing with galvanized steel J-box.

Factory-installed, captive bar hangers span 24" and feature built-in nailers and T-bar clips.

J-box has built-in Romex clamps and a ground wire.

Encased-and-potted, normal power factor (NPF) electromagnetic ballast only.

Reflector is secured to frame-in by mechanical trim retention.

Vertically adjustable yoke allows for flush and secure mounting of reflectors to ceiling.

Available in 120-volt only.

Damp location listed. (See reflector selection for wet location listed reflectors.)

UL listed (standard). CSA Certified (see options).

Ordering Information

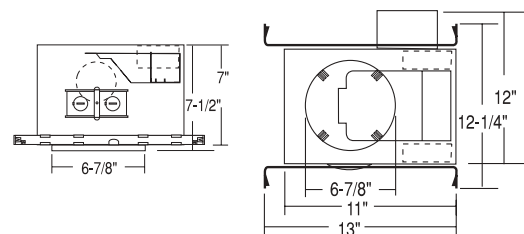
Example: LIF6 2/9TT CSA

Series	Lamps	Options
LIF6	2/9TT	CSA CSA Certified.
	2/13TT	GMF Single slow-blow fuse.
	2/13DTT	LRC Provides compatibility with Lithonia Reloc System. Reloc System can be installed less this option with connectors provided by others.
		PHC Poke-home wire connectors.

* Metal flange standard. Plastic flange on lens trims may be required for use above motorized tubs or spas. To order plastic flange, add suffix PF to catalog number (Example: F6LD1 PF).

IMPORTANT: Housings and trims are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.

**Flange matches reflector. For white flange, add TRW to catalog number.



6" Fluorescent

Triple-Tube (TRT)

NEW



LI6F

Intended Use

Recessed frame-in rated IC for **New Construction** only. Approved for all wiring types and all ceiling types, including air handling plenums.

Features

Thermally-protected against improper use of insulation and rated for through-branch wiring.

Galvanized steel housing and junction box with poke-home connectors. Galvanized bar hangers span up to 24" and feature built-in nailers and T-bar clips.

Multi-volt (MVOLT), 120V through 277V, electronic ballast with end of life protection is standard.

Socket assembly attaches to reflector to ensure proper and consistent lamp position.

Damp location listed. (See reflector selection for wet location listed reflectors.)

UL listed to US and Canadian safety standards.

Ordering Information

Example: **LI6F 26/32TRT MVOLT**

Series	Lamps	Volts	Options
LI6F	26/32TRT	MVOLT ¹	GMF Single slow-blow fuse.

NOTES:

1 MVOLT – Electronic multi-volt ballast capable of operating any line voltage from 120-277, 50 or 60Hz.

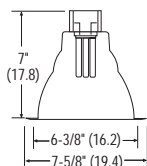
IMPORTANT: Housings and trims are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.

IC-Rated Full Reflectors – All reflectors are damp location listed. Lensed reflectors are wet location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1/2". Consult factory for thicker ceiling applications.

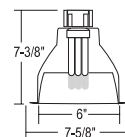
Open **Premium Specular Cone With Diffuse Upper Reflector**

608AZ Clear Specular
608A Clear Diffuse

6C3A Clear
6C3G Gold
6C3BL Black



32 TRT



32 TRT

Premium Metal Baffle With Diffuse Upper Reflector

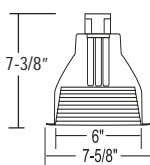
6B3 Black
6B3W White

Baffle

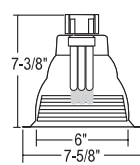
6B4 Black
6B4W White

Eyelid Wallwash

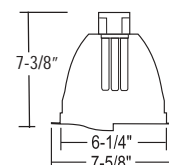
6W1 White
6W2 Black Baffle
6W2W White Baffle



32 TRT



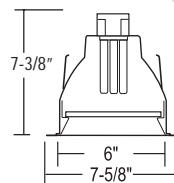
32 TRT



32 TRT

Glass Lensed

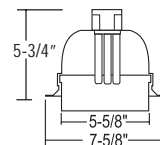
Drop Opal
6LD3 White Splay
6LDB3 Black Baffle
Flush White
6LF3 White Splay
6LFB3 Black Baffle
Fresnel
6L4 White Splay
6LBA4 Black Baffle



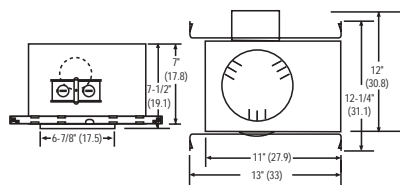
32 TRT (Drop Only)
26 TRT

Polycarbonate Lensed (Shower/Closet)

Drop
6LD1* Opal
6LD2* Prismatic



26 TRT



* Metal flange standard. Plastic flange on lens trims may be required for use above motorized tubs or spas. To order plastic flange, add suffix PF to catalog number (Example: 6LD1 PF).

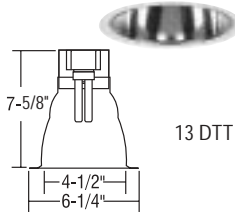
5" Fluorescent

Twin-Tube (TT)
Double Twin-Tube (DTT)

Non-IC Rated Full Reflectors – All reflectors are damp location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1/2". Consult factory for thicker ceiling applications.

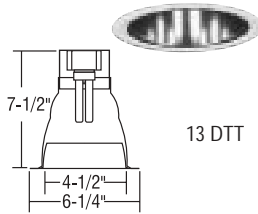
Open Narrow Flange

- J01 White
- J01A Clear Specular
- J01G Gold Specular



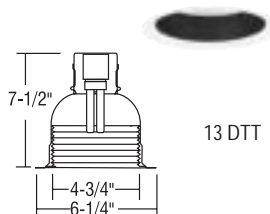
Cone Narrow Flange

- JC1A Clear Specular
- JC1BL Black Specular
- JC1G Gold Specular



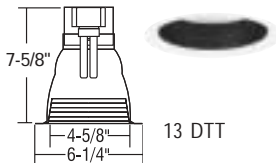
Baffle Narrow Flange

- JB1 Black
- JB1W White



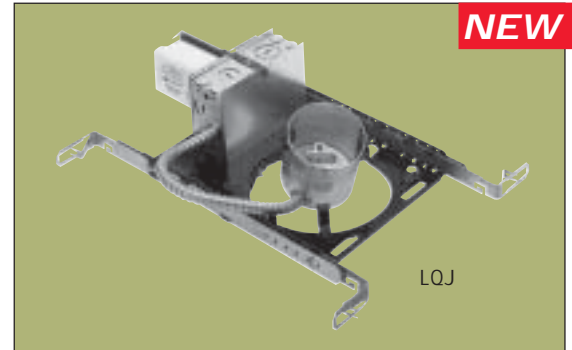
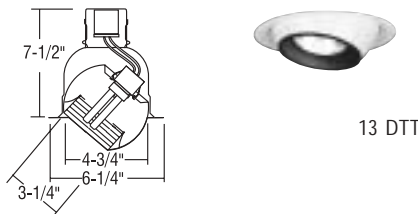
Metal Baffle Narrow Flange

- JB4 Black
- JB4W White



Baffled Eyeball

- JE1 White Reflector/Black Baffle
- JE1W White Reflector/White Baffle
- JE1PB Polished Brass Reflector/Baffle



Intended Use

Recessed frame-in rated **Non- IC** for **New Construction** applications. Approved for all ceiling and wiring types.

Features

- Thermal protection provided against improper insulation use and rated for through branch wiring.
- Rugged galvanized steel frame and junction box. Ground wire provided.
- Galvanized bar hangers span up to 24" o.c. and feature built in nailer and T-bar clips
- Encased-and-potted, Normal Power Factor (NPF) magnetic ballast standard.
- Socket assembly attaches to reflector to ensure proper and consistent lamp position.
- Damp location listed.
- UL listed (standard). CSA Certified (see Options).

Ordering Information

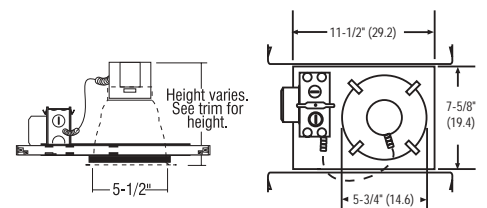
Example: LQJ 13 DTT 120

Series	Lamp	Volts	Options
LQJ	9DTT	120	Shipped installed in fixture.
	13DTT	277	CSA CSA Certified.
		347	ELR Emergency battery pack. Remote test switch provided.
			HPF High power factor (90% power factor for 120, 277, and 347V.)
			GEB10 Generic electronic ballast, THD (total harmonic distortion) <10%. Requires four pin lamp. (13 DTT only.)
			GMF Single slow-blow fuse.
			LRC Provides compatibility with Lithonia Reloc System. Lithonia Reloc System can be installed less this option with connectors provided by others.

IMPORTANT: Frame-ins and reflectors are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.

NOTES:

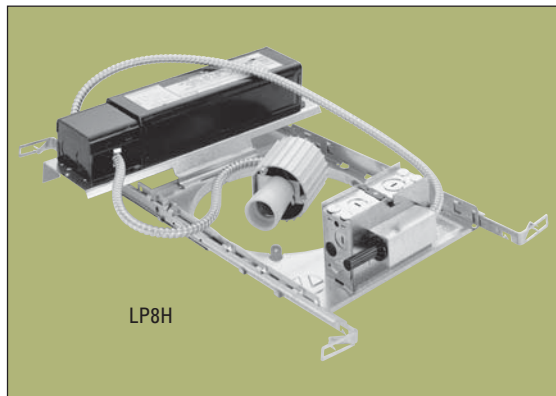
When ordering battery packs for field installation on 4-pin lamped product use PSDL3 and ELA TSPLP. (Remote test switch)



8" H.I.D.

Non-IC Frame-In

Non-IC-Rated Full Reflectors — All reflectors are damp location listed. Lensed reflectors are wet location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1-1/2".



LP8H

Intended Use

Recessed Frame-In rated **Non-IC** for **New Construction** applications. Approved for all wiring types and all ceiling types, including air-handling plenums.

Features

Thermally protected against improper contact with insulation and approved for through-branch circuit wiring.

Rugged galvanized steel frame and J-box.

Factory-installed, captive bar hangers span 24" and feature built-in nailers and T-bar clips.

Encased-and-potted, high power factor (HPF), dual-tap, 120/277V ballast is standard.

Socket attaches to reflector with pre-mounted screws.

Metal Halide frame-ins have safety sockets standard and accept only safety lamps unless ordered with ENCL option.

Damp location listed. (See reflector selection for wet location listed reflectors.)

UL listed to US and Canadian safety standards.

Open		Baffle With Specular Upper Reflector		Open Wallwash With Kicker*	
802	White	8B3	Black	8W1	White
802A	Clear Diffuse*	8B3W	White	8W1A	Clear Diffuse*
802AZ	Clear Specular*			8W1AZ	Clear Specular*
802GZ	Gold Specular*			8W1GZ	Gold Specular*
802WT	Wheat*			8W1WT	Wheat*

Glass Lensed	
<u>Clear Lens</u>	
8LF1	White Splay
8LFB1	Black Baffle
<u>Fresnel Lens</u>	
8L4	White Splay
8LB4	Black Baffle
<u>Tempered Prismatic</u>	
8LF73	White Splay
8LFB73	Black Baffle

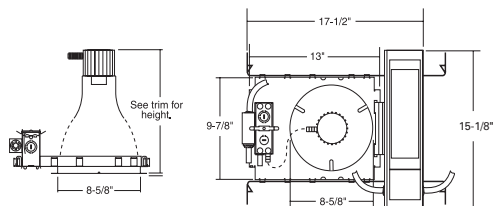
*Flange matches reflector finish. For white flange, add **TRW** to catalog number.

Ordering Information

Example: **LP8H 50M 120/277**

Series	Lamps	Volts	Options
LP8H	<u>Metal Halide</u>	120/277 347	SF Single fuse. Must specify voltage. WLP Lamp (shipped separately) ENCL Standard medium-base socket (for use when 50W, 70W and 100W metal halide frame-in is used with enclosed trims or when used with PAR38 metal halide lamps).
	50M 50W MP50/C/U/MED		
	70M 70W MP70/C/U/MED		
	100M 100W MP100/C/U/MED		
	175M 175W MP175/BUSY		
	<u>High Pressure Sodium</u>		
	50S 50W LU50/D/MED		
	70S 70W LU70/D/MED		
	100S 100W LU100/D/MED		
	150S 150W LU150/D/MED		

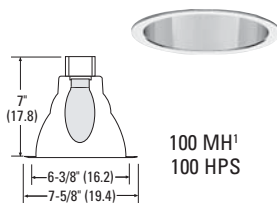
IMPORTANT: Frame-ins and reflectors are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.



Non-IC-Rated Full Reflectors — All reflectors are damp location listed. Lensed reflectors are wet location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1/2". Consult factory for thicker ceiling applications.

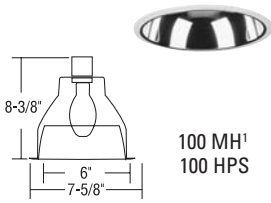
Open

- 608AZ Clear Specular
- 608A Clear Diffuse



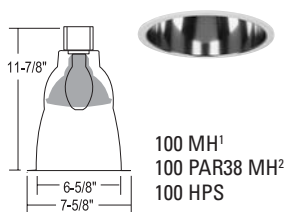
Specular Cone With Diffuse Upper Reflector

- 6C3A Clear
- 6C3G Gold
- 6C3BL Black



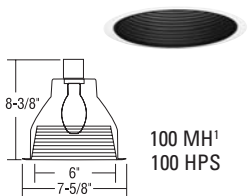
Specular Multiplier

- 6M1A Clear
- 6M1G Gold
- 6M1BL Black



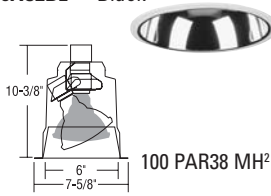
Premium Baffle With Diffuse Upper Reflector

- 6B3 Black
- 6B3W White



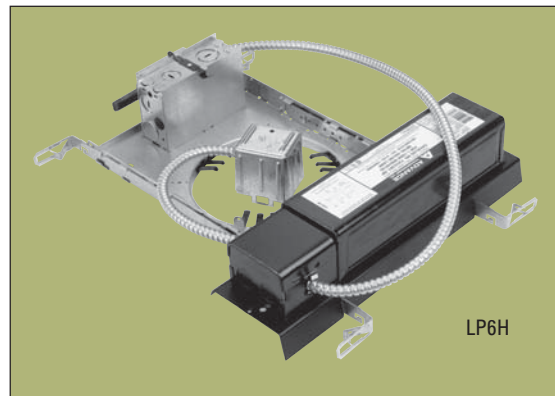
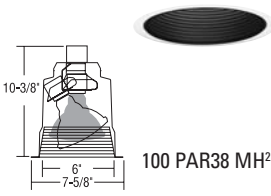
Adjustable With Specular Cone

- 6AC2A Clear
- 6AC2G Gold
- 6AC2BL Black



Adjustable With Baffle

- 6AB2 Black
- 6AB2W White



Intended Use

Recessed Frame-In rated **Non-IC** for **New Construction** applications. Approved for all wiring types and all ceiling types, including air-handling plenums.

Features

Thermally protected against improper contact with insulation and approved for through-branch circuit wiring.

Rugged galvanized steel frame and J-box. Factory-installed, captive bar hangers span 24" and feature built-in nailers and T-bar clips.

J-box has built-in Romex clamps and a ground wire.

Socket housing clips to reflector to ensure proper, consistent lamp position.

Metal Halide frame-ins have safety sockets standard and accept only safety lamps unless ordered with ENCL option.

Encased-and-potted, High power factor (HPF), dual-tap, 120/277V ballast. Damp location listed. (See reflector selection for wet location listed reflectors.)

UL listed (standard). CSA Certified (see options).

Glass Lenses

Drop Opal Glass

- 6LD3 White Splay
- 6LDB3 Black Baffle



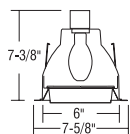
Flush White Glass

- 6LF3 White Splay
- 6LFB3 Black Baffle



Fresnel Glass

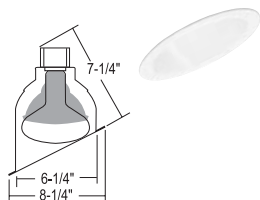
- 6L4 White Splay
- 6LB4 Black Baffle



Sloped Ceiling Trims

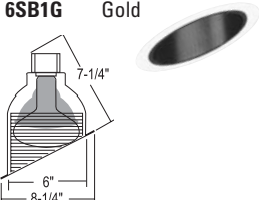
Open Sloped Ceiling

- 6S01 White



Baffled Sloped Ceiling

- 6SB1 Black
- 6SB1W White
- 6SB1C Chrome
- 6SB1G Gold



NOTE: Height measurements shown are for metal halide safety socket. For high pressure sodium and non-safety-socket metal halide, subtract 5/8" from height shown.

Ordering Information

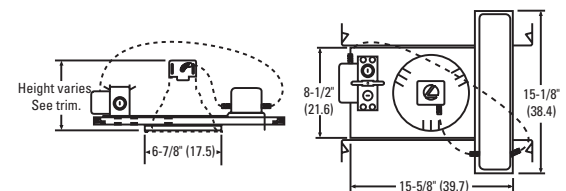
Example: LP6H 35S 120/277 SF

Series	Lamps	Volts	Options	
LP6H	Metal Halide		120/277	
	50M	50W MP50/C/U/MED		CSA CSA Certified.
	70M	70W MP70/C/U/MED		
	100M	100W MP100/C/U/MED		
	High Pressure Sodium		347	ENCL Standard medium-base socket (for use when 50W, 70W and 100W metal halide frame-in is used with enclosed trims or when used with PAR38 metal halide lamps).
	35S	35W LU35/D/MED		
	50S	50W LU50/D/MED		
	70S	70W LU70/D/MED		
	100S	100W LU100/D/MED		
				SF Single fuse.
			WLP Lamp (shipped separately). ³	

NOTES:

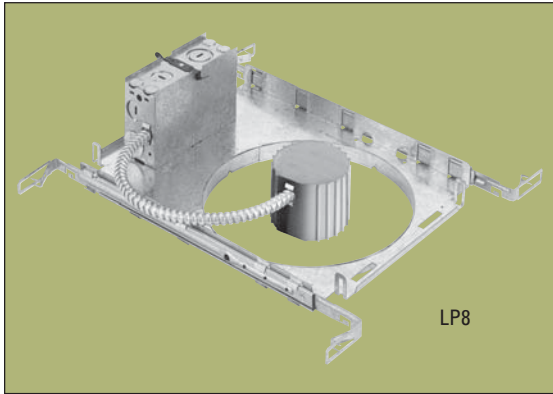
- Requires open-rated lamp.
- IMPORTANT: Must order ENCL option.**
- When ordering PAR lamps, LPSP or LPWF must be in description to ensure shipment of proper lamp.

IMPORTANT: Frame-ins and reflectors are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.



8" Incandescent

Non-IC-Rated Full Reflectors — All reflectors are damp location listed. Lensed reflectors are wet location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1-1/2".



Intended Use
Recessed Frame-In rated **Non-IC** for **New Construction** applications. Approved for all wiring types and all ceiling types, including air-handling plenums.

Features
Thermally protected against improper contact with insulation and approved for through-branch circuit wiring. Rugged, galvanized steel frame and J-box. Factory-installed, captive bar hangers span 24" and feature built-in nailers and T-bar clips. Socket assembly attaches to reflector with pre-mounted screws. Extruded aluminum adjustable socket cup for optimal lamp position. Damp location listed. (See reflector selection for wet location listed reflectors.)
UL listed to US and Canadian safety standards.

Open		Baffle With Specular Upper Reflector		Open Wallwash With Kicker	
802	White	8B3	Black	8W1	White
802A	Clear Diffuse*	8B3W	White	8W1A	Clear Diffuse*
802AZ	Clear Specular*			8W1AZ	Clear Specular*
802GZ	Gold Specular*			8W1GZ	Gold Specular*
802WT	Wheat*			8W1WT	Wheat*

	12-1/8"	200 A		12-1/8"	200 PS25		12-1/8"	250 PAR38
7-7/8"		250 PAR38	7-7/8"		250 BR40	7-7/8"		250 BR40
9-1/2"			9-1/2"			9-1/2"		

Glass Lensed	
Clear Lens	
8LF1	White Splay
8LFB1	Black Baffle
Fresnel Lens	
8L4	White Splay
8LB4	Black Baffle
Tempered Prismatic	
8LF73	White Splay
8LFB73	Black Baffle

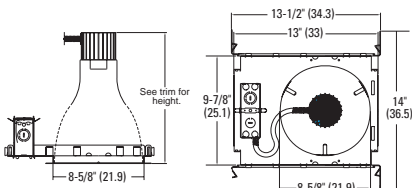
	12-1/8"	100 A		12-1/8"	150 PS25
7-7/8"		150 PAR38	7-7/8"		120 BR40
9-1/2"			9-1/2"		

*Flange matches reflector finish. For white flange, add **TRW** to catalog number.

Ordering Information Example: **LP8**

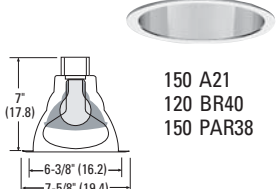
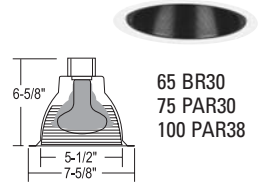
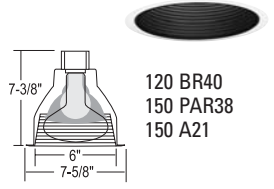
Series	Options
LP8	SDT 277V stepdown transformer (277V to 120V).

IMPORTANT: Frame-ins and reflectors are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.

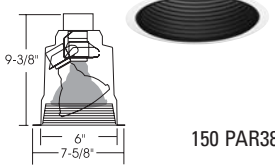


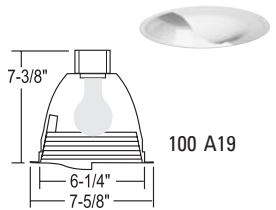
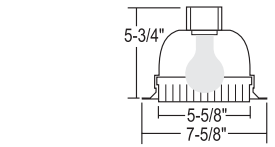
6" Incandescent

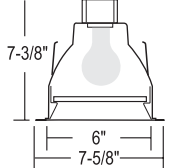
Non-IC-Rated Full Reflectors — All reflectors are damp location listed. Lensed reflectors are wet location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1/2". Consult factory for thicker ceiling applications.

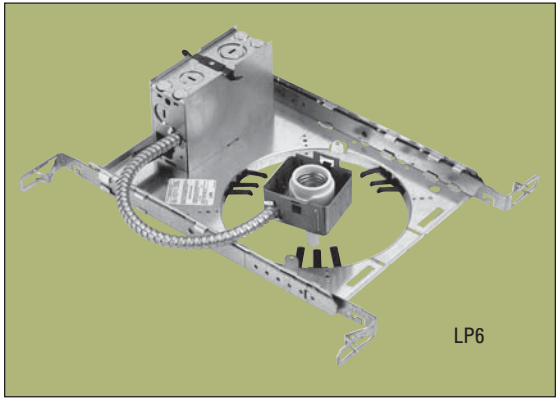
Open		Baffle Narrow Flange		Premium Baffle With Diffuse Upper Reflector	
608AZ	Clear Specular	6B2	Black	6B3	Black
608A	Clear Diffuse	6B2W	White	6B3W	White
	150 A21 120 BR40 150 PAR38		65 BR30 75 PAR30 100 PAR38		120 BR40 150 PAR38 150 A21

Baffle		Specular Cone With Diffuse Upper Reflector		BR/PAR30 Adjustable With Baffle	
6B4	Black	6C3A	Clear	6AB1	Black
6B4W	White	6C3G	Gold	6AB1W	White
6C3BL	Black		120 BR40 150 PAR38 150 A21		65 BR30 75 PAR30

BR/PAR30 Adjustable With Specular Cone		PAR38 Adjustable With Baffle		PAR38 Adjustable With Specular Cone	
6AC1A	Clear	6AB2	Black	6AC2A	Clear
6AC1G	Gold	6AB2W	White	6AC2G	Gold
6AC1BL	Black		150 PAR38	6AC2BL	Black

Eyelid Wallwash		Polycarbonate Lensed (Shower/Closet)	
6W1	White	Opal	
6W2	Black Baffle	6LD1 PF*	Drop, Plastic Flange
6W2W	White Baffle	6LF1 PF*	Flush, Plastic Flange
	100 A19	Prismatic	
		6LD2 PF*	Drop, Plastic Flange
		6LF2 PF*	Flush, Plastic Flange
			60 A19

Glass Lensed	
Drop Opal	
6LD3	White Splay
6LDB3	Black Baffle
Flush White	
6LF3	White Splay
6LFB3	Black Baffle
Fresnel	
6L4	White Splay
6LB4	Black Baffle
	100 A19



Intended Use
Recessed Frame-In rated **Non-IC** for **New Construction** applications. Approved for all wiring types and all ceiling types, including air-handling plenums.

Features
Thermally protected against improper contact with insulation and approved for through-branch circuit wiring. Rugged, galvanized steel frame and J-box.

Factory-installed, captive bar hangers span 24" and feature built-in nailers and T-bar clips.

J-box has built-in Romex clamps and a ground wire.

Socket housing clips to reflector to ensure proper and consistent lamp position.

Retrofit kits available. Convert LP6 incandescent frame-in to operate one double twin tube compact fluorescent, MR16 or PAR36 low voltage or high intensity discharge lamp. Consult specification sheets for trim compatibility and other details.

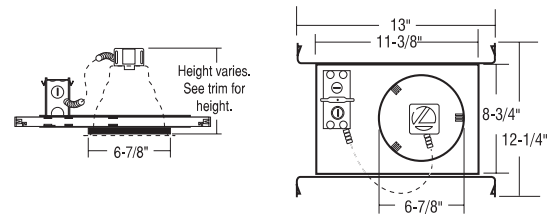
Damp location listed. (See reflector selection for wet location listed reflectors.)

UL listed (standard). CSA Certified or NOM Certified (see options).

Ordering Information Example: **LP6 CSA**

Series	Options
LP6	CSA CSA Certified.
	NOM NOM Certified (consult factory).
	SDT 277V stepdown transformer (277V to 120V).

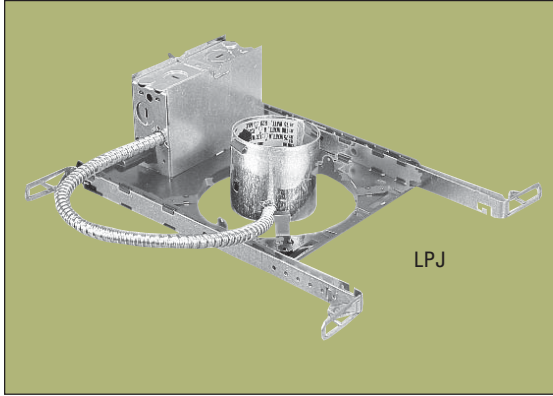
IMPORTANT: Frame-ins and reflectors are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.



* Metal flange standard. Plastic flange on lens trims may be required for use above motorized tubs or spas. To order plastic flange, add suffix PF to catalog number (Example: 6LD1 PF).

5" Incandescent

Non-IC-Rated Full Reflectors — All reflectors are damp location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1/2". Consult factory for thicker ceiling applications.



Intended Use
Recessed Frame-In rated **Non-IC** for **New Construction** applications. Approved for all wiring types and all ceiling types, including air-handling plenums.

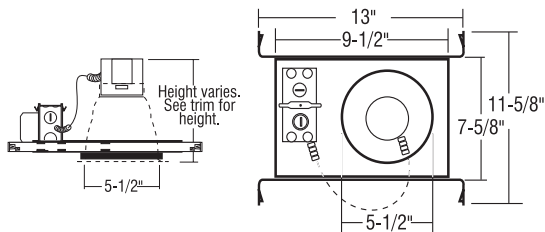
Features
Thermally protected against improper contact with insulation and approved for through-branch circuit wiring.
Rugged steel frame with galvanized steel J-box.
Factory-installed, captive bar hangers span 24" and feature built-in nailers and T-bar clips.
J-box has built-in Romex clamps and a ground wire.
Socket cup clips to reflector to ensure proper and consistent lamp position.
Damp location listed.
UL listed (standard). CSA Certified (see options).

Ordering Information Example: **LPJ CSA**

Series	Options
LPJ	CSA CSA Certified. SDT 277V stepdown transformer (277V to 120V).

* Shortneck PAR30 lamps require use of TP30 SE Socket Extender (ordered separately).

IMPORTANT: Frame-ins and reflectors are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.



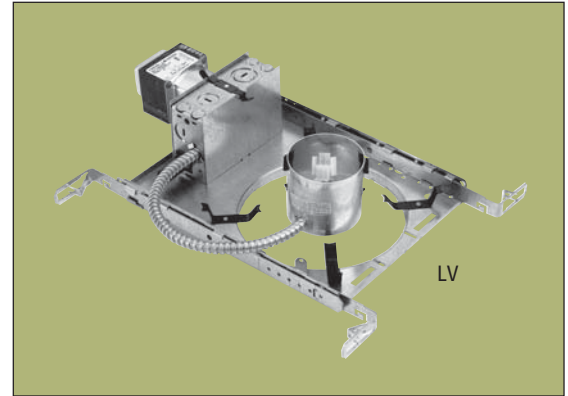
Open Narrow Flange	Cone Narrow Flange	Baffle Narrow Flange
J01 White J01A Clear Specular J01G Gold Specular	JC1A Clear Specular JC1BL Black Specular JC1G Gold Specular	JB1 Black JB1W White
100 A19 75 BR30 75 PAR30*	100 A19 75 BR30 75 PAR30*	75 A19 75 BR30 75 PAR30*

Metal Baffle Narrow Flange	Baffled Eyeball
JB4 Black JB4W White	JE1 White Reflector/Black Baffle JE1W White Reflector/White Baffle JE1PB Polished Brass Reflector/Baffle
75 A19 75 BR30 75 PAR30*	75 R20 50 PAR20

6" Low Voltage

Non-IC-Rated Full Reflectors — All reflectors are damp location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1/2". Consult factory for thicker ceiling applications.

Baffle		Baffled Eyeball		Adjustable With Baffle	
VMB4	Black	VME4	Black	VMA1	Black
VMB4W	White	VME4W	White	VMA1W	White



Intended Use
 Recessed Frame-In rated **Non-IC** for **New Construction** applications. Approved for all wiring types and all ceiling types, including air-handling plenums.

Features
 Thermally protected against improper contact with insulation and approved for through-branch circuit wiring.
 Rugged, galvanized steel frame and J-box.
 Factory-installed, captive bar hangers span 24" and feature built-in nailers and T-bar clips.
 J-box has built-in Romex clamps and a ground wire.
 Precision-wound, 20-75W, 12V electromagnetic stepdown transformer.
 Low voltage fixture can be dimmed using dimmers specifically designed for use with magnetic core and coil transformers.
 Consult factory when using fixtures on dimming systems.
 Damp location listed.
 UL listed (standard). CSA Certified (see options).

Adjustable With Specular Cone		Pinhole		Slotted Adjustable	
VMA2A	Clear	VMS1	White	VMA5	White
VMA2G	Gold				
VMA2BL	Black				

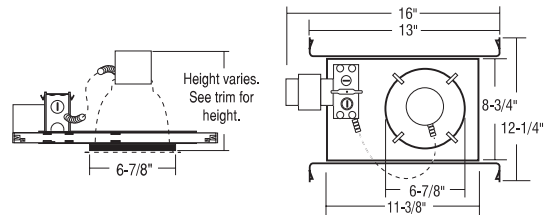
VP Series Trims

Baffled Eyeball		Adjustable W/Baffle		Adjustable With Specular Cone	
VPE2	Black	VPA1	Black	VPA2A	Clear
VPE2W	White	VPA1W	White	VPA2G	Gold
				VPA2BL	Black

Ordering Information

Series	Volts	Options
LV	120	CSA CSA Certified.
	277	GMF Single slow-blow fuse.
	347	

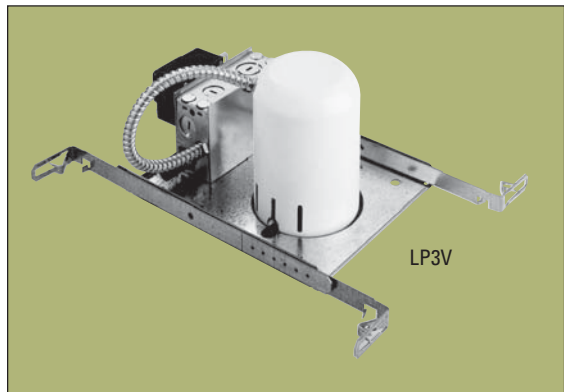
IMPORTANT: Frame-ins and trims are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.



3" Low Voltage

Non-IC Housing

Non-IC-Rated Reflectors — All reflectors are damp location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 2".



Intended Use

Recessed Frame-In rated **Non-IC** for **New Construction** applications. Approved for all wiring types and all ceiling types, including air-handling plenums.

Features

Thermally protected against improper contact with insulation and approved for through branch circuit wiring.

One-piece steel can for superior thermal performance for a wider range of trims. Galvanized steel frame and J-box.

Factory-installed captive bar hangers span 24" and feature built-in nailers and T-bar clips.

Precision-wound stepdown transformer with class H insulation. For dimming control, use only dimmers specifically designed for use with magnetic (core and coil) transformers. Consult factory when using fixtures on dimming systems.

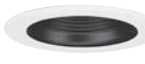
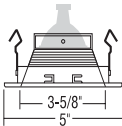

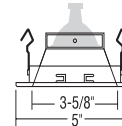

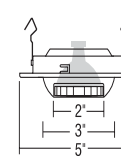

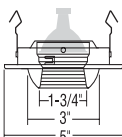

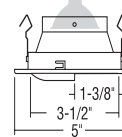

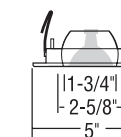

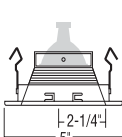

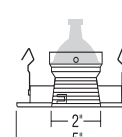
Damp location listed.

UL listed to US and Canadian safety standards.

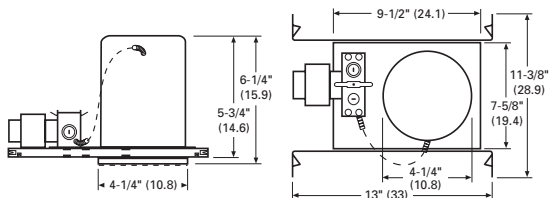
Ordering Information

Example: **LP3V 277**

Series	Volts
LP3V	120
	277
	347

<p>Adjustable With Baffle</p> <p>3VB1 Black 3VB1W White</p>   <p>75 MR16</p>	<p>Adjustable Specular Open</p> <p>3V01AZ Clear 3V01GZ Gold 3V01BLZ Black</p>   <p>75 MR16</p>	<p>Open Eyeball</p> <p>3VE1 White 3VE1PB Polished Brass</p>   <p>75 MR16</p>
<p>Baffled Eyeball</p> <p>3VE2 Black 3VE2W White</p>   <p>75 MR16</p>	<p>Wallwash Eyelid</p> <p>3VW1 White</p>   <p>75 MR16</p>	<p>Adjustable</p> <p>3VDW1W White 3VDW1PB Polished Brass</p>   <p>75 MR16</p>
<p>Slotted</p> <p>3VA5 White Baffle</p>   <p>75 MR16</p>	<p>Pinhole</p> <p>3VS1 Black Baffle</p>   <p>75 MR16</p>	

IMPORTANT: Housings and trims are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.



Steplights

Wet Location

Non-IC Rated — These steplights can be used in indoor or outdoor wet locations using lamps and wattages listed.

Louvered Faceplates		Slotted		Open	
FPL	White	FPS	White	FPS	White
FPLBL	Black	FPSBL	Black	FPSBL	Black
7/9 TT		7/9 TT		7/9 TT	



Intended Use

Rated **Non-IC** for **New Construction** in indoor applications or outdoor wet locations, such as courtyards and pathways.

Features

Aluminum die cast, white powder coat paint, corrosion resistant housing.

Louvered, slotted, and open faceplates available (shipped separately).

Die cast, powder coat painted faceplates are available in white or black finish.

Faceplates are shipped separately.

Encased and potted, high power factor, ballast standard. 120V only.

One electrical conduit fitting and one plug provided.

Electrical fittings are suitable for wet locations in stud construction, masonry, and poured concrete applications.

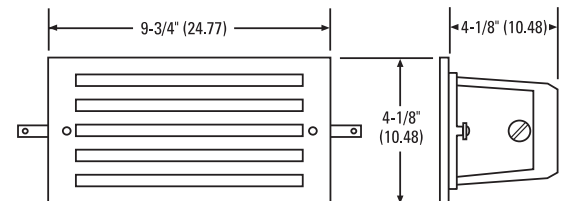
UL Listed to US and Canadian safety standards. Wet location listed.

Ordering Information

Example: **WSL1F FPLBL**

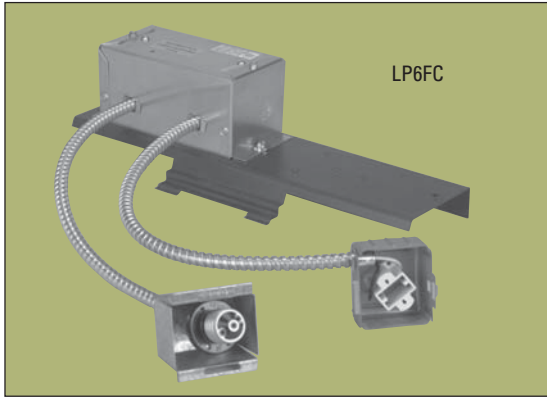
Series	Faceplate	Finish
WSL1F	FPL Louvered	(blank) White
	FPS Slotted	BL Black
	FPO Open	

IMPORTANT: Housings and trims are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.

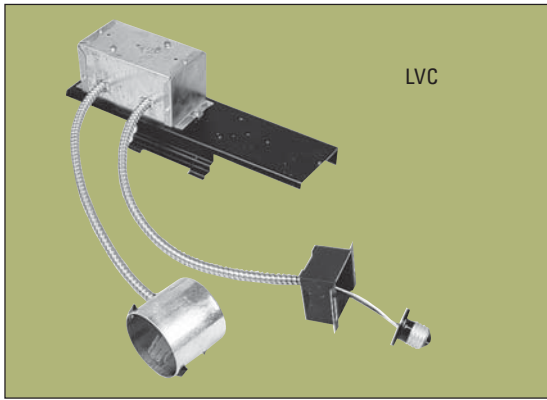


6" Retrofits

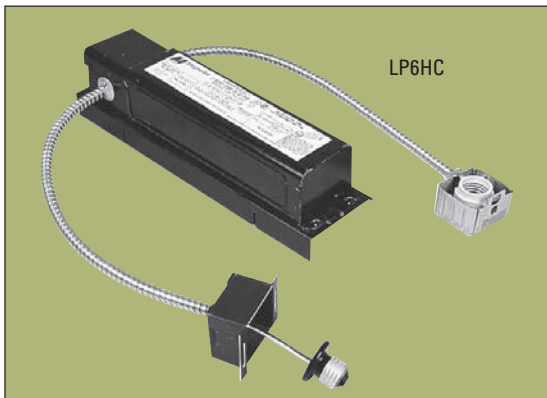
Non-IC Frame-Ins to Retrofit LP6



LP6FC



LVC



LP6HC

For frame-in dimensions, see LP6 Series, page 239.

Compact Fluorescent Convertibles

For compatible trims, see page 232.

Intended Use

Rated Non-IC. Converts LP6 incandescent frame-in to operate one double-twin-tube compact fluorescent lamp. 120V only.

Features

Thermally-protected, encased-and-potted, 120V, normal power factor ballast ensures safe operation.

Ballast is mounted on a rugged steel tray that slips into an LP6 frame-in and locks on the bar hangers.

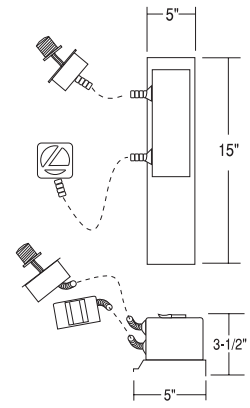
Approved for damp locations.

UL listed (standard). CSA Certified (see options).

Ordering Information

Example: **LP6FC 13DTT 120**

Series	Lamps	Volts	Options
LP6FC	9DTT (1)9W F9DTT/27K	120	CSA CSA Certified.
	13DTT (1)13W F13DTT/27K		HPF High power factor (90% power factor for 120V). 18W only.
	18DTT (1)18W F18DTT/27K		
	26DTT (1)26W F26DTT/27K		



Low Voltage Convertibles

For compatible trims, see page 241.

Intended Use

Rated Non-IC. Converts LP6 incandescent frame-in to operate one MR16 or PAR36 low voltage lamp. 120V only.

Features

Thermally protected against improper contact with insulation.

Integral 120V magnetic stepdown transformer is mounted on a rugged steel tray that slips into an LP6 frame-in and locks on the bar hangers.

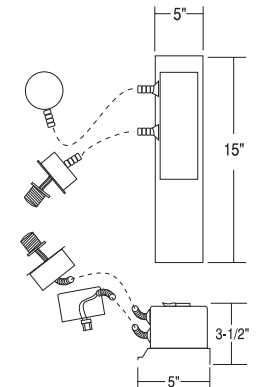
Approved for damp locations.

UL listed (standard). CSA Certified (see options).

Ordering Information

Example: **LVC CSA**

Series	Options
LVC	CSA CSA Certified.



H.I.D. Convertibles

For compatible trims, see page 237.

Intended Use

Rated Non-IC. Converts LP6 incandescent frame-in to operate one high intensity discharge lamp. 120V only.

Features

Thermally protected against improper contact with insulation.

Ballast enclosure mounted on rugged steel tray that slips into LP6 frame-in and locks on bar hangers.

Approved for damp locations.

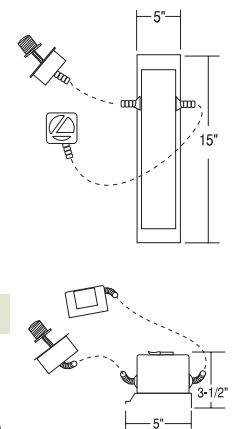
Shipped with open-rated safety socket standard.

UL listed (standard). CSA Certified (see options).

Ordering Information

Example: **LP6HC 35S 120 CSA**

Series	Lamp	Volts	Options
LP6HC	<u>Metal Halide</u>	120	CSA CSA Certified.
	50M 50W MP50/C/U/MED		ENCL Standard medium-base socket (for use when 50W, 70W & 100W metal halide frame-in is used with enclosed trims or when used with PAR38 metal halide lamps).
	70M 70W MP70/C/U/MED		
	100M 100W MP100/C/U/MED		
	<u>High Pressure Sodium</u>		
	35S 35W LU35/D/MED		
	50S 50W LU50/D/MED		
	70S 70W LU70/D/MED		
	100S 100W LU100/D/MED		



Options

These options must be ordered with housing or frame-in.

ADEZ

ADEZ Advance Mark X electronic dimming ballast (120V or 27V only). Requires four-pin lamp.

**Mark X is a registered trademark of Advance Electronics.*

CSA

CSA CSA Certified.

Dimming Ballast

DMHL Lutron Hi-Lume* solid-state dimming ballast, 120V or 277V, 18W DTT and 26W DTT only. Requires four-pin lamp. (Philips only) Allows control of lamp from 100% to 5%.

**Hi-Lume is a registered trademark of Lutron Electronics.*

Emergency Battery Pack

ELR Emergency battery pack. Remote test switch provided.

Medium-Base Socket

ENCL Standard medium-base socket. For use when 50W, 70W and 100W metal halide frame-in is used with enclosed trims or when used with PAR38 metal halide lamps.

Electronic Ballast

GEB10 Generic electronic ballast. THD (total harmonic distortion) < 10%. Requires four-pin lamp.

Slow Blow Fuse

GMF Single blow fuse. For use with fluorescent only.

High Power Factor

HPF High power factor (90% power factor for 120V, 277V and 347V).

Single Fuse

SF Use with 120, 277, 347V. Not available with multi-tap ballast. In-line fusing isolates faulty fixture from circuit.

Stepdown Transformer

SDT Steps 277V line voltage down to 120V fixture operating voltage. For use with standard incandescent lamps (maximum 300 watts).

Lamp Options

WLP Lamp (shipped separately.)

MVOLT

MVOLT Electronic multi-volt ballast capable of operating any line voltage from 120V to 277V.

Accessories

Accessories must be ordered separately.

Remodeler Clips

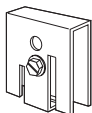
ARC144 Box of 144 loose clips.
ARC 12 12 packs of 12 clips (144).



Used to secure frame-ins in ceiling in remodel applications.

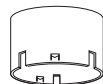
T-Bar Mounting Clips

LSMC Designed to lock bar hangers to T-bar. Set of 4 clips.



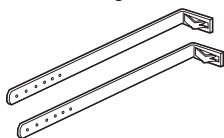
Ceiling Trim Extender

CTE Use when ceiling thickness is greater than 1-1/2". Maximum thickness 2" (5.1cm). Not compatible with VPE2, VMB4, F6 Series and 7-Series trims.



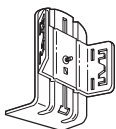
LBH - Bar Hangers

LBH Extended bar hangers used for extreme off-center mounting in a 24" space. Set of two 22" bar hangers.



Channel Bar Mounting Brackets

LCMB Used when commercial channel bars are desired to mount fixture. Channel bars not included. Set of two brackets.



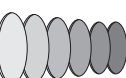
Oversize Trim Rings

CTR6 8-3/4" (22.2cm) O.D. Use with 6, 7, C and F6 Series trims. Compatible with all 7-5/8" flanged trims only.



Color Filters/Specialty Lenses

F200 MA Medium Amber
F200 MB Medium Blue
F200 MG Medium Green



F200 MP Medium Pink
F200 RR Ruby Red
F200 EG Elongating Lens



F200 SFG Softening Lens
F200 SL Spread Lens
F200 UV Ultra Violet

For Use with VM Series Reflectors.

Rough-In Compatibility

(These options must be ordered with housing or frame-in.)

	ADEZ	CSA	DMHL	ELR	ENCL	GEB10	GMF	HPF	SDT	SF	WLP	MVOLT
LP8F	■	▲	■	■	■	■	■	■			■	■
LF8	■	▲	■									
LP8H		▲			■						■	■
LP8		▲							■			
LF6	■	▲	■	■		■	■	▲			■	■
LP6F	■	▲	■	■		■	■	■			■	■
LP6H					■						■	■
LP6									■			
LI6F		▲										■
LIF6		■					■					■
LQJ		■				■	■	■				
LPJ		■							■			
LP3V		▲										
LV		■					■					
LP6FC		■						■				
LVC		■										
LP6HC		■										

■ Option available
(blank) Option not available
▲ Standard

Rough-In Compatibility

(These accessories are ordered separately)

	ARC	LBH	LCMB	LSMC	F200
LP8H	■	■	■	■	
LP8	■	■	■	■	
LP8F	■	■	■	■	
LF8	■	■	■	■	
LP6F	■	■	■	■	
LF6	■	■	■	■	
LIF6		■	■	■	
LI6F		■	■	■	
LP6	■	■	■	■	
LP6H	■	■	■	■	
LV	■	■	■	■	■
LQJ	■	■	■	■	
LPJ	■	■	■	■	
LP3V	■	■	■	■	

■ Option available
(blank) Option not available

LITHONIA RECESSED

Lithonia Recessed

Lithonia Lighting offers a complete line of residential recessed products to meet the varying needs of our customers. The recessed line offers products with 3", 5" and 6" apertures in incandescent, low voltage and compact fluorescent sources.

Our housings are designed to provide the easiest installation in the industry while requiring the fewest SKUs for standard applications. All of our recessed trims offer a full reflector design, which maximizes lamp position and provides an exceptional overall appearance.





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6" Incandescent



Intended Use
Recessed housing rated **IC or Non-IC** for **New Construction** applications. Approved for all ceiling types except air-handling plenums.

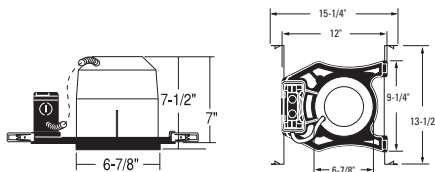
Features
Aluminum housing for superior thermal performance for a wider range of trims.
Approved for direct burial in insulation and for through-branch circuit wiring.
Injection-molded thermal plastic frame and J-box; Romex only. Not for pulling wires.
Factory-installed captive bar hangers span 24" and feature built-in nailers and T-bar clips.
J-box features poke-home wire connectors, built-in Romex clamps and ground wire.
Socket clips to reflector to insure proper and consistent lamp position. Suitable for ceilings up to 2-3/4" thick.
Product ships in resale packs of six only.
Damp location listed. (See trim selection for wet location listed trims.)
UL listed to US and Canadian safety standards.

Ordering Information Example: **LC6 AT**

Series	Options
LC6	AT Aluminum tape seals housing to minimize airflow through rough-in. Complies with WSEC and ASTM E283 requirements.
	NOM NOM Certified (consult factory).
	LRC Compatible with Lithonia Reloc System. Reloc System can be installed less this option with connectors provided by others.

** Metal flange standard. Plastic flange on lens trims may be required for use above motorized tubs or spas. For plastic flange, add suffix PF to catalog number (Example: CLF1 PF).

IMPORTANT: Housings and trims are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.



IC-Rated Full Reflectors — All trims are damp location listed. Lensed trims are wet location listed. Lamp types and maximum wattages are listed for each trim.

Premium Trims

Open Reflector		Baffle		Deep Baffle	
601 White	6B1 Black	6B2 Black	601PB Polished Brass	6B1W White	6B2W White
	6B1BL/PB Black (P.Brass finish)	6B2BL/PB Black (P.Brass finish)			
	65 BR30 75 PAR30	40 A19 65 BR30 75 PAR30			40 A19 65 BR30 65 BR40 75 PAR30 75 PAR30

Standard Eyeballs		Regressed Eyeballs	
Open	Baffled	Open	Baffled
6E1 White	6E2 Wh./Bl. Baf.	6RE1 Wh./Bl. Baf.	6RE2 Wh./Bl. Baf.
6E1PB P. Brass	6E2W Wh./Wh. Baf.	6RE1W Wh./Wh. Baf.	6RE2W Wh./Wh. Baf.
	6E2PB P. Brass/Bl. Baf.	6RE1BL/PB P. Brass/Bl. Baf.	6RE2BL/PB P. Brass/Bl. Baf.
	65 BR30 75 PAR30	65 BR30 75 PAR30	65 BR30 75 PAR30

Standard Trims

Open		Baffle	
Narrow Flange	Wide Flange	Narrow Flange	
702 White	703 White	7B2 Black	
702PF White Plastic Flange		7B2W White	
702A Clear Diffuse		7B2WPF White Plastic Flange	
702G Gold Diffuse			
702AZ Clear Specular			
702GZ Gold Specular			
702BLZ Black Specular			
	65 BR30 75 PAR30	65 BR30 75 PAR30	65 BR30 75 PAR30





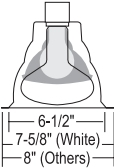
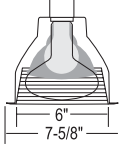
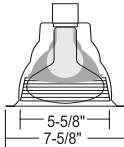
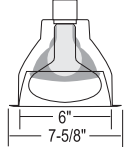
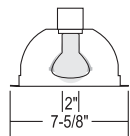
Eyeballs		Wallwash	Pinhole
7E1 Standard	7RE1 Regressed	CW1 White	CS1 White
	65 BR30 75 PAR30	40 A19	40 A19 50 R20 50 PAR20



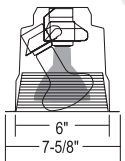
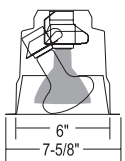
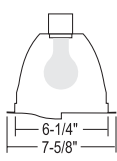
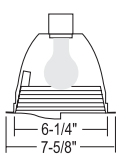
Polycarbonate Lenses (Shower/Closet)





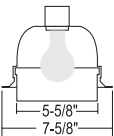
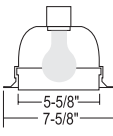
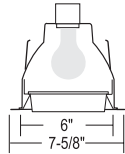



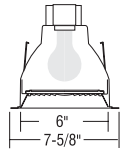
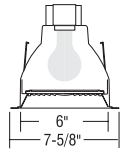
Premium Trims		Standard Trims	
Flush	Drop	Drop	Drop, Plastic Flange
CLF1** Opal	CLD1** Opal	7LD1 Opal	7LD1 PF Opal
CLF2** Prismatic	CLD2** Prismatic		7LD2 PF Prismatic
40 A19	40 A19	40 A19	40 A19




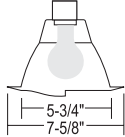
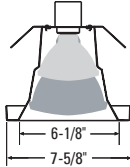

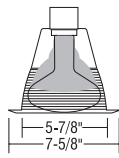
Non-IC-Rated Full Reflectors — All trims are damp location listed. Lensed trims and WETlite™ are wet location listed. Lamp types and maximum wattages are listed for each trim.

Premium Trims

Open Reflector		Premium Baffle With Diffuse Upper Reflector		Premium Baffle With Narrow Flange		Specular Cone With Diffuse Upper Reflector		Pinhole	
602	White	6B3	Black	6B4	Black	6C3A	Clear	6S1	White
602A	Clear Specular	6B3W	White	6B4W	White	6C3G	Gold		
602G	Gold Specular					6C3BL	Black		
602SA	Clear Diffuse								
602SG	Gold Diffuse								
	100 A19 120 BR40 150 PAR38		100 A19 120 BR40 150 PAR38		75 A19 120 BR40 150 PAR38		100 A19 150 BR40 150 PAR38		60 A19 50 R20 50 PAR20 75 PAR30

BR/PAR30 Adjustable With Baffle		BR/PAR30 Adjustable With Specular Cone		Wallwash		Baffled Wallwash	
6AB1	Black	6AC1A	Clear	6W1	White	6W2	Black
6AB1W	White	6AC1G	Gold			6W2W	White
		6AC1BL	Black				
	65 BR30 75 PAR30		65 BR30 75 PAR30		100 A19		100 A19

Polycarbonate Lenses (Shower/Closet)				Glass Lenses			
Drop		Flush		Drop Opal		Flush White	
6LD1*	Opal	6LF1*	Opal	6LD3	White Splay	6LF3	White Splay
6LD2*	Prismatic	6LF2*	Prism	6LDB3	Black Baffle	6LFB3	Black Baffle
							
	60 A19		60 A19		75 A19		75 A19
							
					75 A19		75 A19

Open Reflector		Baffle		Wallwash		WETlite™	
705	White	7B5	Black	7W1	White	6H20	White (Ships with outdoor rated 75W PAR38 lamp)
705PF	White Plastic Flange	7B5W	White				
705A	Clear Diffuse	7B5WPF	White Plastic Flange				
705G	Gold Diffuse						
705AZ	Clear Specular						
705GZ	Gold Specular				60 A19		75 PAR38 75 PAR30
705BLZ	Black Specular						
	120 BR40 120 PAR38		120 BR40 120 PAR38				

* Metal flange standard. Plastic flange on lens trims may be required for use above motorized tubs or spas. For plastic flange, add suffix PF to catalog number (Example: 6LF1 PF).

6" Incandescent

IC-Rated Full Reflectors — All trims are damp location listed. Lensed trims are wet location listed. Lamp types and maximum wattages are listed for each trim.



Intended Use

Recessed housing rated **IC or Non-IC** for **New Construction** applications. Approved for all wiring types and all ceiling types, including air-handling plenums.

Features

Aluminum housing for superior thermal performance for a wider range of trims.

Air-Tight standard. Meets current energy codes.

Approved for direct burial in insulation and for through-branch circuit wiring.

Galvanized steel pan and J-box.

Factory-installed captive bar hangers span 24" and feature built-in nailers and T-bar clips.

Bar hanger locking screws hold fixture firmly in place.

J-box has built-in Romex clamps and ground wire.

Socket clips to reflector to insure proper and consistent lamp position. Suitable for ceilings up to 1" thick.

Product ships in resale packs of six only.

Damp location listed. (See trim selection for wet location listed trims.)

UL listed to US and Canadian safety standards.

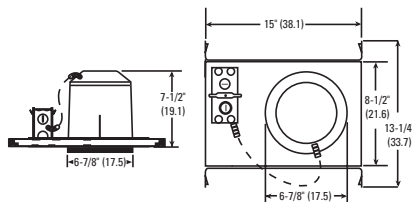
Ordering Information

Example: **L7X**

Series	Options
L7X	NOM NOM Certified (consult factory).
	PHC Poke-home wire connectors.
	LRC Compatible with Lithonia Reloc System. Reloc System can be installed less this option with connectors provided by others.

** Metal flange standard. Plastic flange on lens trims may be required for use above motorized tubs or spas. For plastic flange, add suffix PF to catalog number (Example: CLF1 PF).

IMPORTANT: Housings and trims are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.



Premium Trims

Open Reflector		Baffle		Deep Baffle	
601	White	6B1	Black	6B2	Black
601PB	Polished Brass	6B1W	White	6B2W	White
		6B1BL/PB	Black (P.Brass finish)	6B2BL/PB	Black (P.Brass finish)
			40 A19		40 A19
			65 BR30		65 BR30
			75 PAR30		65 BR40
					75 PAR30
					75 PAR30

Standard Eyeballs		Regressed Eyeballs	
Open	Baffled	Open	Baffled
6E1 White	6E2 Wh./Bl. Baf.	6RE1 Wh./Bl. Baf.	6RE2 Wh./Bl. Baf.
6E1PB P. Brass	6E2W Wh./Wh. Baf.	6RE1W Wh./Wh. Baf.	6RE2W Wh./Wh. Baf.
	6E2PB P. Brass/Bl. Baf.	6RE1BL/PB P. Brass/Bl. Baf.	6RE2BL/PB P. Brass/Bl. Baf.

	65 BR30		65 BR30		65 BR30		65 BR30
	75 PAR30		75 PAR30		75 PAR30		75 PAR30

Standard Trims

Open		Baffle	
Narrow Flange	Wide Flange	Narrow Flange	
702 White	703 White	7B2 Black	
702PF White Plastic Flange		7B2W White	
702A Clear Diffuse		7B2WPF White Plastic Flange	
702G Gold Diffuse			
702AZ Clear Specular			
702GZ Gold Specular			
702BLZ Black Specular			

	65 BR30		65 BR30		65 BR30
	75 PAR30		75 PAR30		75 PAR30

Eyeballs		Wallwash	Pinhole	
7E1 Standard	7RE1 Regressed	CW1 White	CS1	White

Polycarbonate Lenses (Shower/Closet)

Premium Trims		Standard Trims	
Flush	Drop	Drop	Drop, Plastic Flange
CLF1** Opal	CLD1** Opal	7LD1 Opal	7LD1 PF Opal
CLF2** Prismatic	CLD2** Prismatic		7LD2 PF Prismatic

Non-IC-Rated Full Reflectors — All trims are damp location listed. Lensed trims and WETlite™ are wet location listed. Lamp types and maximum wattages are listed for each trim.

Premium Trims

Open Reflector		Premium Baffle With Diffuse Upper Reflector		Premium Baffle With Narrow Flange		Specular Cone With Diffuse Upper Reflector		Pinhole	
602	White	6B3	Black	6B4	Black	6C3A	Clear	6S1	White
602A	Clear Specular	6B3W	White	6B4W	White	6C3G	Gold		
602G	Gold Specular					6C3BL	Black		
602SA	Clear Diffuse								
602SG	Gold Diffuse								
100 A19 120 BR40 150 PAR38		100 A19 120 BR40 150 PAR38		75 A19 120 BR40 150 PAR38		100 A19 150 BR40 150PAR38		60 A19 50 R20 50 PAR20 75 PAR30	
6-1/2" 7-5/8" (White) 8" (Others)		6" 7-5/8"		5-5/8" 7-5/8"		6" 7-5/8"		2" 7-5/8"	

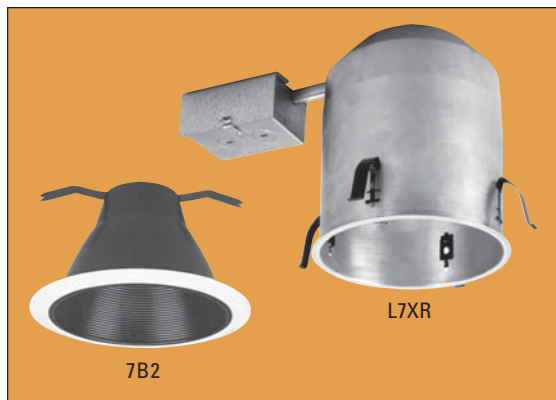
BR/PAR30 Adjustable With Baffle		BR/PAR30 Adjustable With Specular Cone		Wallwash		Baffled Wallwash	
6AB1	Black	6AC1A	Clear	6W1	White	6W2	Black
6AB1W	White	6AC1G	Gold			6W2W	White
		6AC1BL	Black				
65 BR30 75 PAR30		65 BR30 75 PAR30		100 A19		100 A19	
6" 7-5/8"		6" 7-5/8"		6-1/4" 7-5/8"		6-1/4" 7-5/8"	

Polycarbonate Lenses (Shower/Closet)				Glass Lenses			
Drop		Flush		Drop Opal		Flush White	
6LD1*	Opal	6LF1*	Opal	6LD3	White Splay	6LF3	White Splay
6LD2*	Prismatic	6LF2*	Prism	6LDB3	Black Baffle	6LFB3	Black Baffle
60 A19		60 A19		75 A19		75 A19	
5-5/8" 7-5/8"		5-5/8" 7-5/8"		6" 7-5/8"		6" 7-5/8"	

Open Reflector		Baffle		Wallwash		WETlite™	
705	White	7B5	Black	7W1	White	6H20	White (Ships with outdoor rated 75W PAR38 lamp)
705PF	White Plastic Flange	7B5W	White				
705A	Clear Diffuse	7B5WPF	White Plastic Flange				
705G	Gold Diffuse						
705AZ	Clear Specular						
705GZ	Gold Specular						
705BLZ	Black Specular						
120 BR40 120 PAR38		120 BR40 120 PAR38		60 A19		75 PAR38 75 PAR30	
6" 7-5/8"		5-7/8" 7-5/8"		5-3/4" 7-5/8"		6-1/8" 7-5/8"	

* Metal flange standard. Plastic flange on lens trims may be required for use above motorized tubs or spas. For plastic flange, add suffix PF to catalog number (Example: 6LF1 PF).

6" Incandescent



Intended Use

Recessed housing rated **IC** or **Non-IC** for **Remodel** applications. Approved for factory assembled wiring only.

Features

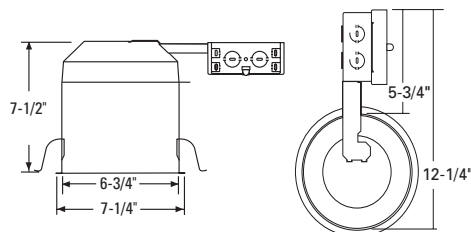
- Approved for direct burial in insulation.
- One-piece aluminum self-flanged can provides maximum structural integrity.
- J-box has built-in Romex clamps, ground wire, and snap on/off door for easy wiring. Approved for all ceiling types (including air-handling plenums). Not for pulling wires.
- One-piece, heavy-gauge, galvanized steel raceway arm/J-box fits easily through ceiling opening.
- Suitable for ceilings up to 1-1/4" thick. Four factory-installed remodel clips lock housing in place and automatically adjust for ceiling thickness.
- Socket clips to reflector to ensure proper and consistent lamp position. Damp location listed. (See trim selection for wet location listed trims.)
- UL listed (standard). CSA Certified or NOM Certified (see options).

Ordering Information Example: **L7XR AT**

Series	Options
L7XR	<p>AT Aluminum tape seals housing to minimize airflow through rough-in. Complies with WSEC and ASTM E 283 requirements.</p> <p>CSA CSA Certified.</p> <p>NOM NOM Certified (consult factory).</p> <p>PHC Poke-home wire connectors.</p>

* Metal flange standard. Plastic flange on lens trims may be required for use above motorized tubs or spas. For plastic flange, add suffix PF to catalog number (Example: CLF1 PF).

IMPORTANT: Housings and trims are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.



IC-Rated Full Reflectors — All trims are damp location listed. Lensed trims are wet location listed. Lamp types and maximum wattages are listed for each trim.

Premium Trims

Open Reflector		Baffle		Deep Baffle	
601 White		6B1 Black		6B2 Black	
601PB Polished Brass		6B1W White		6B2W White	
		6B1BL/PB Black (P.Brass finish)		6B2BL/PB Black (P.Brass finish)	
5" / 7-5/8"	65 BR30 / 75 PAR30	4-5/8" / 7-5/8"	40 A19 / 65 BR30 / 75 PAR30	5-1/2" / 7-5/8"	40 A19 / 65 BR30 / 65 BR40 / 75 PAR30 / 75 PAR38

Standard Eyeballs			Regressed Eyeballs		
Open	Baffled	Open	Baffled	Open	Baffled
6E1 White	6E2 Wh./Bl. Baf.	6RE1 Wh./Bl. Baf.	6RE2 Wh./Bl. Baf.	6E1PB P. Brass	6E2PB P. Brass/Bl. Baf.
6E1PB P. Brass	6E2W Wh./Wh. Baf.	6RE1W Wh./Wh. Baf.	6RE2W Wh./Wh. Baf.	6E2PB P. Brass/Bl. Baf.	6RE2BL/PB P. Brass/Bl. Baf.
5-7/8" / 7-5/8"	65 BR30 / 75 PAR30	5-7/8" / 7-5/8"	65 BR30 / 75 PAR30	5-7/8" / 7-5/8"	65 BR30 / 75 PAR30
		5-7/8" / 7-5/8" (W,PB/PB) / 8" (Others)		5-7/8" / 7-5/8" (W,PB/PB) / 8" (Others)	

Standard Trims

Open		Baffle	
Narrow Flange	Wide Flange	Narrow Flange	Wide Flange
702 White	703 White	7B2 Black	7B2W White
702PF White Plastic Flange		7B2WPF White Plastic Flange	
702A Clear Diffuse			
702G Gold Diffuse			
702AZ Clear Specular			
702GZ Gold Specular			
702BLZ Black Specular			
5-3/4" / 7-5/8"	5-1/2" / 7-5/8"	5-3/4" / 7-5/8"	5-3/4" / 7-5/8"





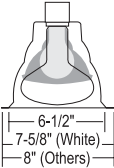
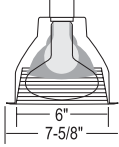
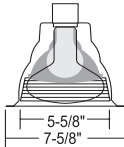
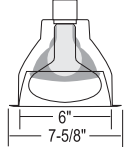
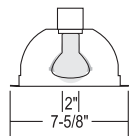
Eyeballs		Wallwash		Pinhole	
7E1 Standard	7RE1 Regressed	CW1 White		CS1 White	
			40 A19		40 A19 / 50 R20 / 50 PAR20
4-7/8" / 7-5/8"	4-7/8" / 7-5/8"	6-1/4" / 7-5/8"		2" / 7-5/8"	

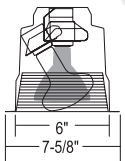
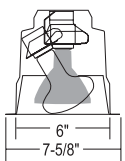
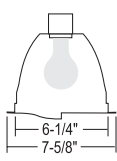
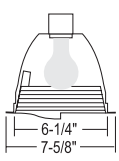
Polycarbonate Lenses (Shower/Closet)





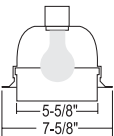
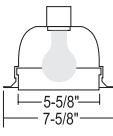
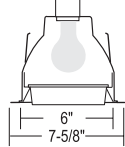

Premium Trims		Standard Trims	
Flush	Drop	Drop	Drop, Plastic Flange
CLF1* Opal	CLD1* Opal	7LD1 Opal	7LD1 PF Opal
CLF2* Prismatic	CLD2* Prismatic		7LD2 PF Prismatic
40 A19	40 A19	40 A19	40 A19
5-5/8" / 7-5/8"	5-5/8" / 7-5/8"	4-7/8" / 7-5/8"	5-5/8" / 7-5/8"





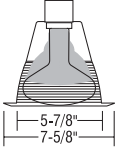
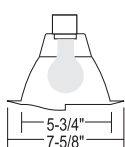
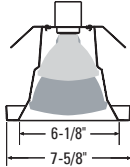
Non-IC-Rated Full Reflectors — All trims are damp location listed. Lensed trims and WETlite™ are wet location listed. Lamp types and maximum wattages are listed for each trim.

Premium Trims

Open Reflector		Premium Baffle With Diffuse Upper Reflector		Premium Baffle With Narrow Flange		Specular Cone With Diffuse Upper Reflector		Pinhole	
602	White	6B3	Black	6B4	Black	6C3A	Clear	6S1	White
602A	Clear Specular	6B3W	White	6B4W	White	6C3G	Gold		
602G	Gold Specular					6C3BL	Black		
602SA	Clear Diffuse								
602SG	Gold Diffuse								
	100 A19 120 BR40 150 PAR38		100 A19 120 BR40 150 PAR38		75 A19 120 BR40 150 PAR38		100 A19 150 BR40 150 PAR38		60 A19 50 R20 50 PAR20 75 PAR30
	6-1/2" 7-5/8" (White) 8" (Others)		6" 7-5/8"		5-5/8" 7-5/8"		6" 7-5/8"		2" 7-5/8"

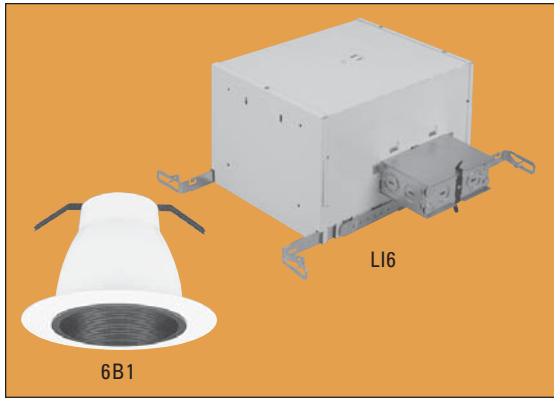
BR/PAR30 Adjustable With Baffle		BR/PAR30 Adjustable With Specular Cone		Wallwash		Baffled Wallwash	
6AB1	Black	6AC1A	Clear	6W1	White	6W2	Black
6AB1W	White	6AC1G	Gold			6W2W	White
		6AC1BL	Black				
	65 BR30 75 PAR30		65 BR30 75 PAR30		100 A19		100 A19
	6" 7-5/8"		6" 7-5/8"		6-1/4" 7-5/8"		6-1/4" 7-5/8"

Polycarbonate Lenses (Shower/Closet)				Glass Lenses			
Drop		Flush		Drop Opal		Flush White	
6LD1*	Opal	6LF1*	Opal	6LD3	White Splay	6LF3	White Splay
6LD2*	Prismatic	6LF2*	Prism	6LDB3	Black Baffle	6LFB3	Black Baffle
							
	60 A19		60 A19		75 A19		75 A19
	5-5/8" 7-5/8"		5-5/8" 7-5/8"		6" 7-5/8"		6" 7-5/8"

Open Reflector		Baffle		Wallwash		WETlite™	
705	White	7B5	Black	7W1	White	6H20	White (Ships with outdoor rated 75W PAR38 lamp)
705PF	White Plastic Flange	7B5W	White				
705A	Clear Diffuse	7B5WPF	White Plastic Flange				
705G	Gold Diffuse						
705AZ	Clear Specular						
705GZ	Gold Specular						
705BLZ	Black Specular						
	120 BR40 120 PAR38		120 BR40 120 PAR38		60 A19		75 PAR38 75 PAR30
	6" 7-5/8"		5-7/8" 7-5/8"		5-3/4" 7-5/8"		6-1/8" 7-5/8"

* Metal flange standard. Plastic flange on lens trims may be required for use above motorized tubs or spas. For plastic flange, add suffix PF to catalog number (Example: 6LF1 PF).

6" Incandescent



IC-Rated Full Reflectors — All trims are damp location listed. Lensed trims are wet location listed. Lamp types and maximum wattages are listed for each trim. Maximum ceiling thickness is 1/2". Consult factory for thicker ceiling applications. These trims also can be used in Non-IC applications using lamps and wattages listed below.

Wide Flange		Narrow Flange	
601	White	602	White
601PB	Polished Brass	602A	Clear Specular
		602G	Gold Specular
		602SA	Clear Diffuse
		602SG	Gold Diffuse
	60 A19 65 BR30 75 PAR30		60 A19 (White) 75 A19 (Others) 90 BR40 100 PAR38

Intended Use
Recessed Housing rated **IC** for **New Construction** applications. Approved for direct burial in insulation and through-branch circuit wiring.

Features
Pre-painted steel housing with galvanized steel J-box. Approved for all ceiling types (including air-handling plenums) and all wiring types. Factory-installed, captive bar hangers span 24" and feature built-in nailers and T-bar clips.
J-box has poke-home wire connectors and built-in Romex clamps. Socket clips to reflector to ensure proper and consistent lamp position. Damp location listed. (See trim selection for wet location listed trims.) UL listed (standard). CSA Certified or NOM Certified (see options).

Baffle Wide Flange	Baffle Narrow Flange	Premium Baffle With Diffuse Upper Reflector
6B1 Black	6B2 Black	6B3 Black
6B1W White	6B2W White	6B3W White
6B1BL/PB PB/Bl. Baf.	6B2BL/PB PB/Bl. Baf.	
40 A19 65 BR30 75 PAR30	40 A19 65 BR30 65 BR40 75 PAR30 75 PAR38	60 A19 90 BR40 100 PAR38

Baffle	BR/PAR30 Adjustable With Baffle	Premium Specular Cone w/ Diffuse Upper Reflector
6B4 Black	6AB1 Black	6C3A Clear
6B4W White	6AB1W White	6C3G Gold
		6C3BL Black
75 A19 90 BR40 100 PAR38	65 BR30 75 PAR30	100 A19 90 BR40 100 PAR38

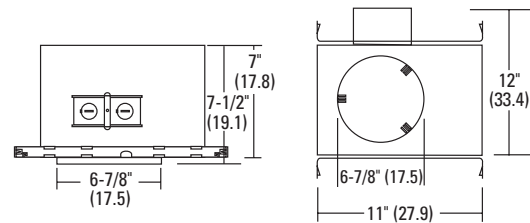
Ordering Information Example: **LI6 CSA**



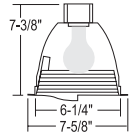
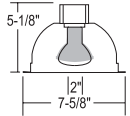
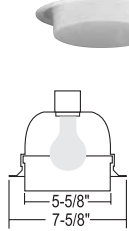
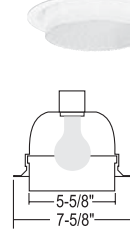
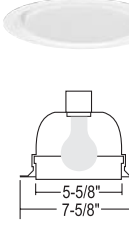
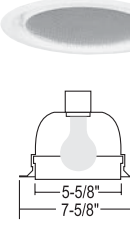
Series	Options
LI6	AT Aluminum tape seals housing to minimize airflow through rough-in. Complies with WSEC and ASTM E 283 requirements.
	CSA CSA Certified.
	NOM NOM Certified (consult factory).
	LRC Provides compatibility with Lithonia Reloc System. Reloc System can be installed less this option with connectors provided by others.

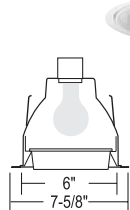
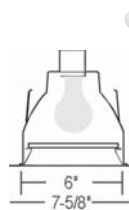
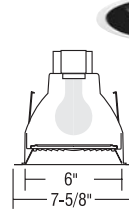
BR/PAR30 Adjustable With Specular Cone	Standard Eyeballs	
6AC1A Clear	Open	Baffled
6AC1G Gold	6E1 White	6E2 Wh./Bl. Baf.
6AC1BL Black	6E1PB Polished Brass	6E2W Wh./Wh. Baf.
		6E2PB PB/Bl. Baf.
65 BR30 75 PAR30	65 BR30 75 PAR30	65 BR30 75 PAR30

IMPORTANT: Housings and trims are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.

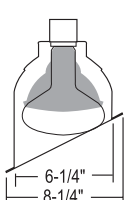

Regressed Eyeballs	Wallwash	
Open	Baffled	6W1 White
6RE1 Wh./Bl. Baf.	6RE2 Wh./Bl. Baf.	
6RE1W Wh./Wh. Baf.	6RE2W Wh./Wh. Baf.	
6RE1BL/PB PB/Bl. Baf.	6RE2BL/PB PB/Bl. Baf.	
65 BR30 75 PAR30	65 BR30 75 PAR30	40 A19



Baffled Wallwash		Pinhole	Polycarbonate Lenses (Shower/Closet)			
6W2 Black 6W2W White		6S1 White 	<u>Drop Opal</u> 6LD1 Metal Flange 6LD1 PF* Plastic Flange	<u>Drop Prismatic</u> 6LD2 Metal Flange 6LD2 PF* Plastic Flange	<u>Flush Opal</u> 6LF1 Metal Flange 6LF1 PF* Plastic Flange	<u>Flush Prismatic</u> 6LF2 Metal Flange 6LF2 PF* Plastic Flange
 40 A19		 40 A19 50 R20 50 PAR20	 40 A19	 40 A19	 40 A19	 40 A19

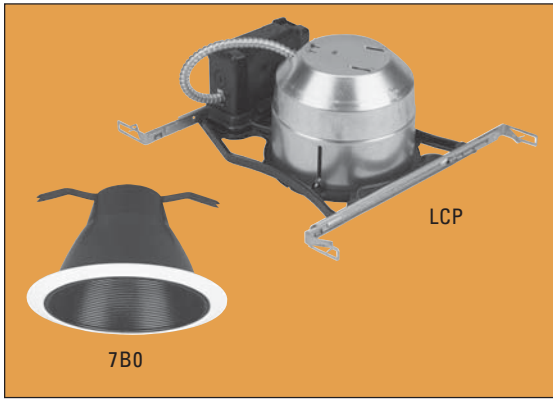
Glass Lenses		
<u>Drop Opal</u> 6LD3 White Splay 6LDB3 Black Baffle	<u>Flush White</u> 6LF3 White Splay 6LFB3 Black Baffle	<u>Fresnel</u> 6L4 White Splay 6L4B Black Baffle
 60 A19	 60 A19	 60 A19

Sloped Ceiling (Directs light straight down from 2/12 (9°) to 12/12 (45°) ceiling pitch.)

Open Sloped Ceiling	Baffled Sloped Ceiling
6S01 White	6SB1 Black 6SB1W White 6SB1C Chrome 6SB1G Gold
 65 BR30 75 PAR30 90 BR40 100 PAR38	 65 BR30 75 PAR30 90 BR40 100 PAR38

* Metal flange standard. Plastic flange on lens trims may be required for use above motorized tubs or spas. For plastic flange, add suffix PF to catalog number (Example: 6LF1 PF).

6" Incandescent



Intended Use

Recessed Shallow Housing rated **IC** for **New Construction** applications. Approved for all ceiling types except air-handling plenums.

Features

Approved for direct burial in insulation and through-branch circuit wiring.

One-piece aluminum can for superior thermal performance for a wider range of trims.

Injection-molded thermal plastic frame and J-box; Romex only. Not for pulling wires.

Factory-installed, captive bar hangers span 24" and feature built-in nailers and T-bar clips.

J-box has poke-home wire connectors and built-in Romex clamps.

Socket clips to reflector to ensure proper and consistent lamp position. Suitable for ceilings up to 2-3/4" thick.

Product ships in resale packs of six only.

Damp location listed. (See trim selection for wet location listed trims.) UL listed to US and Canadian safety standards. NOM Certified (see options).

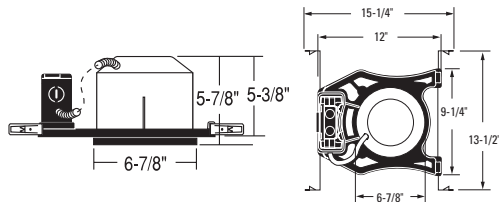
Ordering Information

Example: **LCP**

Series	Options
LCP	<p>AT Aluminum tape seals housing to minimize airflow through rough-in. Complies with WSEC and ASTM E283 requirements.</p> <p>NOM NOM Certified (consult factory).</p> <p>LRC Provides compatibility with Lithonia Reloc System. Reloc System can be installed less this option with connectors provided by others.</p>

** Metal flange standard. Plastic flange on lens trims may be required for use above motorized tubs or spas. For plastic flange, add suffix PF to catalog number (Example: CLF1 PF).

IMPORTANT: Housings and trims are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.



IC-Rated Full Reflectors — All trims are damp location listed. Lensed trims are wet location listed. Lamp types and maximum wattages are listed for each trim. These trims can also be used in Non-IC applications using lamps and wattages listed below.

Premium Trims

Open		Baffle		Eyeball	
Wide Flange		Narrow Flange		Wide Flange	
C01 White		C02 White		CB1 Black	CE1 White
C01PB Polished Brass		C02A Clear Specular		CB1W White	CE1PB Polished Brass
		C02G Gold Specular			
		C02SA Clear Diffuse			
		C02GA Gold Diffuse			
60 A19 65 BR30 75 PAR30		60 A19 65 BR30 75 PAR30		40 A19 65 BR30 75 PAR30	65 BR30 75 PAR30
4-1/4" / 7-3/4"		6-1/2" / 7-5/8"		4-5/8" / 7-5/8"	5-7/8" / 7-5/8"

Baffled Eyeball		Polycarbonate Lenses (Shower/Closet)	
CE2 Wh./Bl. Baf.		Flush	
CE2W Wh./Wh. Baf.		CLF1** Opal	Drop
CE2PB PB/Bl. Baf.		CLF2** Prismatic	CLD1** Opal
			CLD2** Prismatic
65 BR30 75 PAR30		40 A19	40 A19
5-7/8" / 7-5/8"		5-5/8" / 7-5/8"	5-5/8" / 7-5/8"

Standard Trims

Open		Baffle	
Wide Flange		Narrow Flange	
701 White		7B0 Black	
		7B0W White	
65 BR30 75 PAR30		65 BR30 75 PAR30	65 BR30 75 PAR30
4-1/4" / 7-5/8"		5-3/4" / 7-5/8"	4-1/4" / 7-5/8"

Eyeballs		Wallwash		Pinhole	
7E1 Standard	7RE1 Regressed	CW1 White		CS1 White	
65 BR30 75 PAR30	65 BR30 50 PAR30	40 A19	40 A19	40 A19 50 R20 50 PAR20	
4-7/8" / 7-5/8"	4-7/8" / 7-5/8"	5-3/4" / 7-5/8"	4-1/4" / 7-5/8"	2" / 7-5/8"	

Polycarbonate Lenses (Shower/Closet)


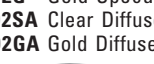


Drop		Drop, Plastic Flange	
7LD1 Opal		7LD1 PF Opal	
		7LD2 PF Prismatic	
40 A19	40 A19		
4-7/8" / 7-5/8"	4-7/8" / 7-5/8"	5-5/8" / 7-5/8"	

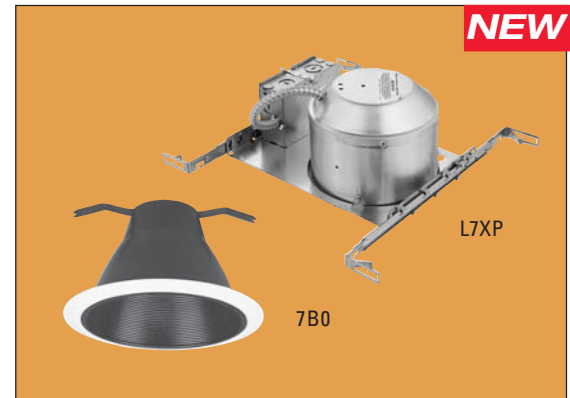
6" Incandescent

IC-Rated Full Reflector Trims — All trims are damp location listed. Lensed trims are wet location listed. Lamp type and wattage listed for each trim. These trims also can be used in Non-IC applications using lamps and wattages listed below.

Premium Trims

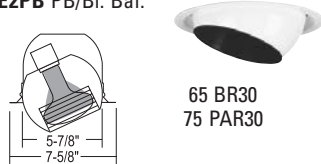
Open		Baffle		Eyeball	
Wide Flange	Narrow Flange	Wide Flange		CE1 White	
C01 White	C02 White	CB1 Black		CE1PB Polished Brass	
C01PB Polished Brass	C02A Clear Specular	CB1W White			
	C02G Gold Specular				
	C02SA Clear Diffuse				
	C02GA Gold Diffuse				

			
60 A19 65 BR30 75 PAR30	60 A19 65 BR30 75 PAR30	40 A19 65 BR30 75 PAR30	65 BR30 75 PAR30
4-1/4" / 7-3/4"	6-1/2" / 7-5/8"	4-5/8" / 7-5/8"	5-7/8" / 7-5/8"



Baffled Eyeball




CE2 Wh./Bl. Baf.
CE2W Wh./Wh. Baf.
CE2PB PB/Bl. Baf.







65 BR30
75 PAR30

Standard Trims

Open		Baffle	
Wide Flange	Narrow Flange	Wide Flange	
701 White	7B0 Black	7B1 Black	
	7B0W White	7B1W White	



		
65 BR30 75 PAR30	65 BR30	65 BR30 75 PAR30
4-1/4" / 7-5/8"	5-3/4" / 7-5/8"	4-1/4" / 7-5/8"

Eyeballs		Wallwash		Pinhole	
7E1 Standard	7RE1 Regressed	CW1 White		CS1 White	

			
65 BR30 75 PAR30	65 BR30 50 PAR30	40 A19	30 R20
4-7/8" / 7-5/8"	4-7/8" / 7-5/8"	5-3/4" / 7-5/8"	2" / 7-5/8"

Polycarbonate Lenses (Shower/Closet)

Drop	Drop, Plastic Flange
7LD1 Opal	7LD1 PF Opal
	7LD2 PF Prismatic

	
40 A19	40 A19
4-7/8" / 7-5/8"	5-5/8" / 7-5/8"

Intended Use

Recessed Shallow Housing rated **IC** for **New Construction** applications. Approved for all ceiling types.

Features

- Air-Tight standard. Tested to meet current energy codes.
- Aluminum housing for superior thermal performance for a wider range of trims.
- Galvanized steel pan and j-box.
- Factory-installed, captive bar hangers span 24" and feature built-in nailers and T-bar clips.
- J-box has poke-home wire connectors. Ground wire provided.
- Two locking screws hold fixture in position.
- Socket clips to reflector to ensure proper and consistent lamp position.
- Maximum ceiling adjustment 1".
- Product ships in resale packs of six only.
- Damp location listed. (See trim selection for wet location listed trims.)
- UL listed to US and Canadian safety standards.

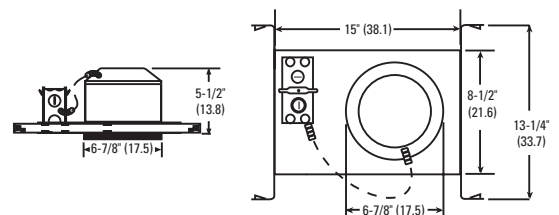
Ordering Information

Example: **L7XP**

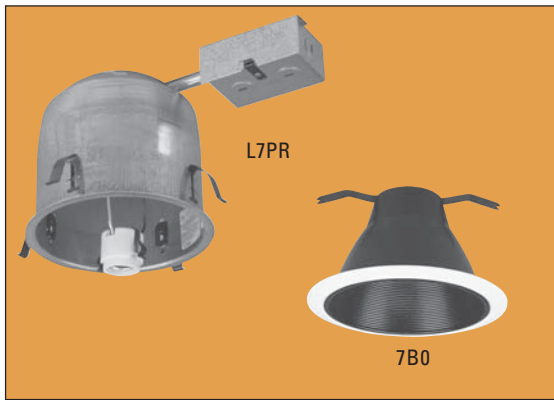
Series

L7XP

IMPORTANT: Housings and trims are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.



6" Incandescent



Intended Use
Recessed Shallow Housing rated **IC** for **Remodel** applications. Approved for all wiring types and all ceiling types, including air-handling plenums.

Features
Approved for direct burial in insulation.
One-piece aluminum self-flanged can provides maximum structural integrity.

J-box has built-in Romex clamps, ground wire, and snap on/off door for easy wiring. Not for pulling wires.

One-piece, heavy-gauge, galvanized steel raceway arm/J-box fits easily through ceiling opening, existing ceiling.

Suitable for ceilings up to 1-1/4" thick. Four factory-installed remodel clips lock housing in place and automatically adjust for ceiling thickness.

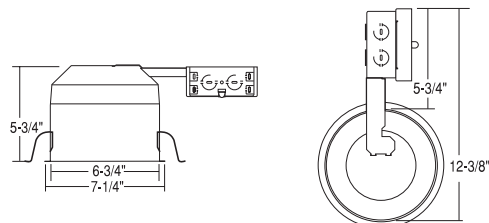
Socket clips to reflector to ensure proper and consistent lamp position. Damp location listed. (See trim selection for wet location listed trims.) UL listed (standard). CSA Certified or NOM Certified (see options).

Ordering Information Example: **L7PR AT**

Series	Options
L7PR	AT Aluminum tape seals housing to minimize airflow through rough-in. Complies with WSEC and ASTM E283 requirements.
	CSA CSA Certified.
	NOM NOM Certified (consult factory).
	PHC Poke-home wire connectors.

* Metal flange standard. Plastic flange on lens trims may be required for use above motorized tubs or spas. For plastic flange, add suffix PF to catalog number (Example: CLF1 PF).

IMPORTANT: Housings and trims are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.



IC-Rated Full Reflectors — All trims are damp location listed. Lensed trims are wet location listed. Lamp types and maximum wattages are listed for each trim. These trims also can be used in Non-IC applications using lamps and wattages listed below.

Premium Trims

Open	Baffle	Eyeball	Baffled Eyeball
<u>Wide Flange</u> C01 White C01PB Polished Brass	<u>Wide Flange</u> CB1 Black CB1W White	CE1 White CE1PB Polished Brass	CE2 Wh./ Bl. Baf. CE2W Wh./ Wh. Baf. CE2PB PB/Bl. Baf.

Polycarbonate Lenses (Shower/Closet)

Flush	Drop
CLF1** Opal CLF2** Prismatic	CLD1** Opal CLD2** Prismatic

Standard Trims

Open	Baffle		
<u>Wide Flange</u> 701 White	<u>Narrow Flange</u> 7B0 Black 7B0W White	<u>Wide Flange</u> 7B1 Black 7B1W White	
Eyeballs		Wallwash	Pinhole
7E1 Standard	7RE1 Regressed	CW1 White	CS1 White

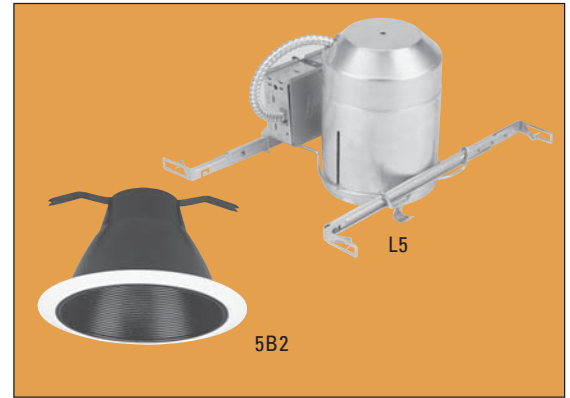
Polycarbonate Lenses (Shower/Closet)

Drop	Drop, Plastic Flange
7LD1 Opal	7LD1 PF Opal 7LD2 PF Prismatic

5" Incandescent

IC-Rated Full Reflector Trims — All trims are damp location. Lensed trims and WETlite™ are wet location listed. Lamp type and wattage listed for each trim. These trims also can be used in Non-IC applications using lamps and wattages listed below.

Open Wide Flange		Open Narrow Flange		Shallow Baffle	
501	White	502	White	5B1	Black
501PB	Polished Brass	502A	Clear Diffuse	5B1W	White
		502G	Gold Diffuse		
		502AZ	Clear Specular		
		502GZ	Gold Specular		
		502BLZ	Black Specular		
	50 R20 65 BR30 75 PAR30		50 R20 65 BR30 75 PAR30 (short neck) 60 PAR38 (anodized)		50 R20 50 PAR20 75 PAR30 (short neck)
4-3/4" 6-3/8"		5-1/2" 6-3/8"		5-1/2" 6-3/8"	



Deep Baffle		Eyeball		Polycarbonate Lens	
5B2	Black	5E1	White	Drop	
5B2W	White	5E1PB	Polished Brass	5LD1	Opal
	50 R20 65 BR30 50 PAR30 60 PAR38		50 R20 65 BR30 50 PAR20 75 PAR30 (long neck)		40 A19
5-1/2" 6-3/8"		3-7/8" 6-3/8"		5" 6-3/8"	

WETlite™

5H20 White
(Ships with outdoor rated 75W PAR38 lamp)

75 PAR38
75 PAR30

5-7/16"
6-3/4"

Intended Use

Recessed Housing rated **IC** for **New Construction** applications. Approved for all ceiling types (including air handling plenums) and wiring types.

Features

Approved for direct burial in insulation and through-branch circuit wiring.

One-piece aluminum can. Galvanized steel rod frame and J-box. Factory-installed, captive bar hangers span 24" and feature built-in nailers and T-bar clips. Snap-lock rail clip locks fixture into place. J-box has built-in Romex clamps and a ground wire. Suitable for ceilings up to 2-3/4" thick.

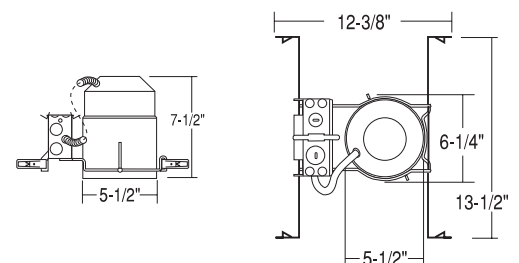
Socket clips to reflector to ensure proper and consistent lamp position. Damp location listed. (See trim selection for wet location listed trims.) UL listed (standard). CSA Certified or NOM Certified (see options).

Ordering Information

Example: **L5 AT**

Series	Options
L5	AT Aluminum tape seals housing to minimize air-flow through rough-in. Complies with WSEC and ASTME 283 requirements.
	CSA CSA Certified.
	NOM NOM Certified (consult factory).
	LRC Provides compatibility with Lithonia Reloc System. Reloc System can be installed less this option with connectors provided by others.
	PHC Poke-home wire connectors.

IMPORTANT: Housings and trims are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.



5" Incandescent

IC-Rated Full Reflectors — All trims are damp location listed. Lensed trims and WETlite™ are wet location listed. Lamp type and wattage listed for each trim. These trims also can be used in Non-IC applications using lamps and wattages listed below.



Intended Use

Recessed Housing rated **IC** for **Remodel** applications. Approved for all ceiling types (including air handling plenums) and wiring types.

Features

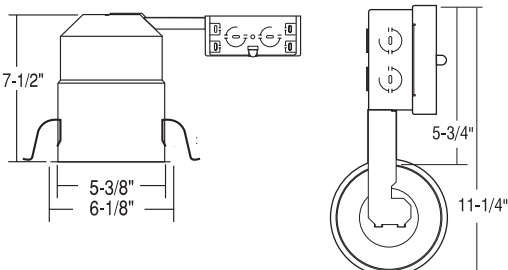
- Approved for direct burial in insulation.
- One-piece aluminum self-flanged can provides maximum structural integrity.
- J-box has built-in Romex clamps, ground wire, and snap on/off door for easy wiring.
- One-piece, heavy-gauge, galvanized steel raceway arm/J-box fit easily through ceiling opening. Not for pulling wires.
- Suitable for ceilings up to 1-1/4" thick. Four factory installed remodel clips lock housing in place and automatically adjust for ceiling thickness.
- Socket clips to reflector to ensure proper and consistent lamp position. Damp location listed. (See trim selection for wet location listed trims.) UL listed (standard). CSA Certified or NOM Certified (see options).




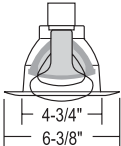
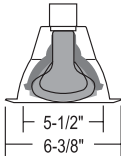
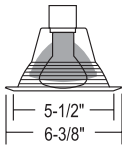
Ordering Information





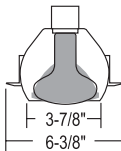
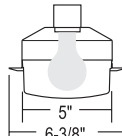
Example: **L5R AT**

Series	Options
L5R	<p>AT Aluminum tape seals housing to minimize airflow through rough-in. Complies with WSEC and ASTM E 283 requirements.</p> <p>CSA CSA Certified.</p> <p>NOM NOM Certified (consult factory).</p> <p>PHC Poke-home wire connectors.</p>

IMPORTANT: Housings and trims are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.

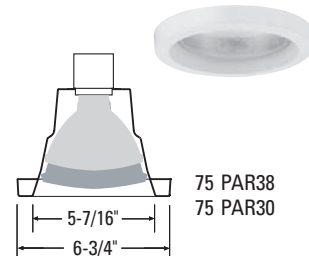


Open Wide Flange		Open Narrow Flange		Shallow Baffle	
501	White	502	White	5B1	Black
501PB	Polished Brass	502A	Clear Diffuse	5B1W	White
		502G	Gold Diffuse		
		502AZ	Clear Specular		
		502GZ	Gold Specular		
		502BLZ	Black Specular		
	50 R20 65 BR30 75 PAR30		50 R20 65 BR30 75 PAR30 60 PAR38 (anodized)		50 R20 50 PAR20 75 PAR30 (short neck)
					

Deep Baffle		Eyeball		Polycarbonate Lens	
5B2	Black	5E1	White	Drop	
5B2W	White	5E1PB	Polished Brass	5LD1	Opal
					
	50 R20 65 BR30 50 PAR30 60 PAR38		50 R20 65 BR30 50 PAR20 75 PAR30 (long neck)		40 A19

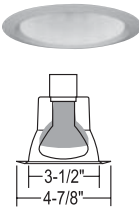
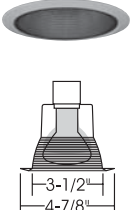
WETlite™


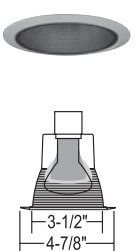
5H20 White (Ships with outdoor rated 75W PAR38 lamp)





3" Incandescent

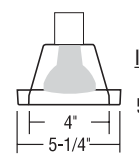
IC/Non-IC-Rated Full Reflectors — All trims are damp location listed. WETlite™ is listed for wet locations. Lamp types and maximum wattages are listed for each trim.



Open			Baffle		
Shallow			Shallow		
	301 White 301A Clear Diffuse 301G Gold Diffuse 301AZ Clear Specular 301GZ Gold Specular 301BLZ Black Specular			3B1 Black 3B1W White	
<u>IC (L3)</u> 30 R20 35 PAR20	<u>IC (L3)</u> 50 R20 50 PAR20 40 PAR16	<u>Non-IC (L3)</u> 75 R20 50 PAR20 75 PAR16	<u>IC (L3)</u> 30 R20 35 PAR20	<u>IC (L3)</u> 50 R20 50 PAR20 40 PAR16	<u>Non-IC (L3)</u> 75 R20 50 PAR20 75 PAR16

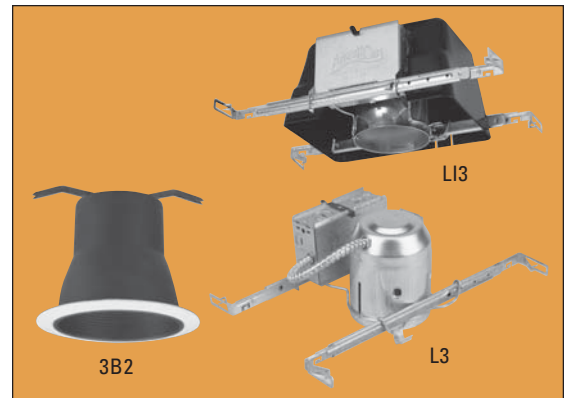
Deep			Deep		
	302 White 302A Clear Diffuse 302G Gold Diffuse 302AZ Clear Specular 302GZ Gold Specular 302BLZ Black Specular			3B2 Black 3B2W White	
<u>IC (L3)</u> 40 A19* 40 PAR16 30 R20 35 PAR20	<u>Non-IC (L3)</u> 75 R20 50 PAR20 60 PAR16		<u>IC (L3)</u> 40 A19* 40 PAR16 30 R20 35 PAR20	<u>IC (L3)</u> 40 A19* 40 PAR16 30 R20 35 PAR20	<u>Non-IC (L3)</u> 75 R20 50 PAR20 60 PAR16

* Diffuse and Specular finishes only

Stepped Open			Eyeball		
Shallow			Shallow		
	3HP1 White 3HP1PB Polished Brass			3E1 White 3E1PB Polished Brass	
<u>IC (L3, L13)</u> 75 PAR30 (short neck)	<u>Non-IC (L3, L13)</u> 75 PAR30 (short neck)		<u>IC (L3)</u> 35 PAR20 40 PAR16	<u>Non-IC (L3)</u> 50 R20 50 PAR20 75 PAR16	

Pinhole		
Deep		
	3HP2 White 3HP2PB Polished Brass	
<u>IC (L3, L13)</u> 75 BR30 50 PAR 30 (long neck)	<u>Non-IC (L3, L13)</u> 75 BR30 75 PAR30 (long neck)	

WETlite™			Wallwash		
Shallow			Shallow		
	3H20 White 3H20PB Polished Brass 3H20PC Polished Chrome 3H20CP Polished Copper			3W1 White	
<u>IC (L13)</u> 75 PAR 30 (Ships with outdoor rated 75W PAR30 lamp)	<u>Non-IC (L3)</u> 75 PAR 30		<u>IC (L13)</u> 30 R20 35 PAR 20	<u>Non-IC (L3)</u> 50 R20 50 PAR20 40 PAR16	



Intended Use

Recessed Housing rated **IC** or **Non-IC** for **New Construction** applications. Approved for all wiring types and all ceiling types, including air-handling plenums (L3 only).

Features

Approved for direct burial in insulation, Non-IC applications and through-branch circuit wiring.

One-piece aluminum can. Compact thermal plastic shroud on L13 for higher wattages in IC installations. Galvanized steel rod frame and J-box.

Factory-installed, captive bar hangers span 24" and feature built-in nailers and T-bar clips. Snap-lock rail clip locks fixture into place.

J-box has built-in Romex clamps and a ground wire.

Suitable for ceilings up to 2" thick.

Socket clips to reflector to ensure proper and consistent lamp position.

Damp location listed. (See trim selection for wet location listed trims.)

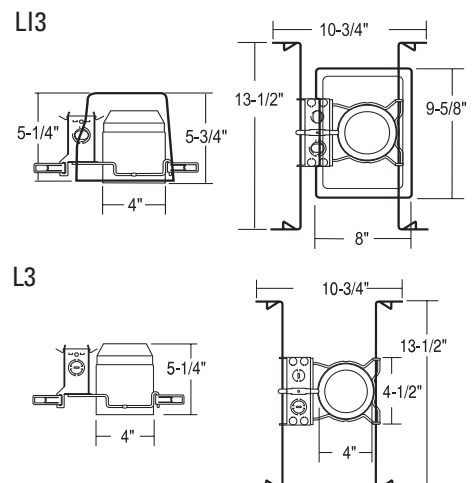
UL listed (standard). CSA Certified (see options).

Ordering Information

Example: **L3 AT**

Series	Options
L13	AT Aluminum tape seals housing to minimize air-flow through rough-in. Complies with WSEC and ASTM E283 requirements.
L3	CSA CSA Certified.
	LRC Provides compatibility with Lithonia Reloc System. Reloc System can be installed less this option with connectors provided by others.
	PHC Poke-home wire connectors.

IMPORTANT: Housings and trims are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.



3" Incandescent



Intended Use

Recessed Remodelor rated **IC and Non-IC** for **Remodel** applications. Approved for all wiring types and all ceiling types, including air-handling plenums.

Features

Approved for direct burial in insulation and Non-IC applications. One-piece aluminum self-flanged can provides maximum structural integrity.

J-box has built-in Romex clamps, ground wire, and snap on/off door for easy wiring. Not for pulling wires.

One-piece, heavy-gauge, galvanized steel raceway arm/J-box fit easily through ceiling opening.

Suitable for ceilings up to 1/2" thick. Four factory-installed remodel clips lock housing in place and automatically adjust for ceiling thickness.

Socket clips to reflector to ensure proper and consistent lamp position. Damp location listed. (See trim selection for wet location listed trims.) UL listed (standard). CSA Certified (see options).

Ordering Information

Example: **L3R AT**

Series	Options
L3R	AT Aluminum tape seals housing to minimize air-flow through rough-in. Complies with WSEC and ASTM E283 requirements.
	CSA CSA Certified.
	PHC Poke-home wire connectors.

Note: White trims are self-flanged. Black trims have a white plastic trim ring.

IMPORTANT: Housings and trims are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.

Full Reflectors — All trims are damp location listed. WETlite™ is listed for wet locations. Lamp types and maximum wattages are listed for each trim.

Open			Baffle		
Shallow			Shallow		
	301 White 301A Clear Diffuse 301G Gold Diffuse 301AZ Clear Specular 301GZ Gold Specular 301BLZ Black Specular			3B1 Black 3B1W White	
	<u>IC</u> 30 R20 35 PAR20	<u>Non-IC</u> 75 R20 50 PAR20 60 PAR16		<u>IC</u> 30 R20 35 PAR20	<u>Non-IC</u> 75 R20 50 PAR20 60 PAR16

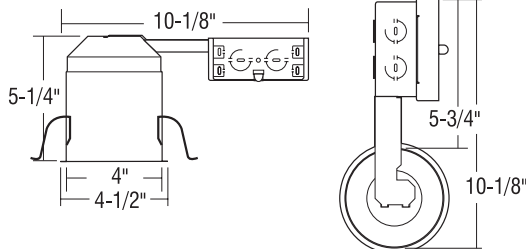
Deep			Deep		
	302 White 302A Clear Diffuse 302G Gold Diffuse 302AZ Clear Specular 302GZ Gold Specular 302BLZ Black Specular			3B2 Black 3B2W White	
	<u>Non-IC</u> 40 A19 75 R20 50 PAR20 60 PAR16			<u>Non-IC</u> 75 R20 50 PAR20 60 PAR16	

* Diffuse and Specular finishes only

Stepped Open			Eyeball		
Shallow			Shallow		
	3HP1 White 3HP1PB Polished Brass			3E1 White 3E1PB Polished Brass	
	<u>IC/Non-IC</u> 75 PAR30 (short neck)			<u>IC</u> 50 R20 35 PAR20 40 PAR16	<u>Non-IC</u> 75 R20 50 PAR20 75 PAR16

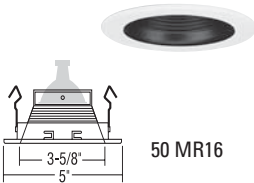
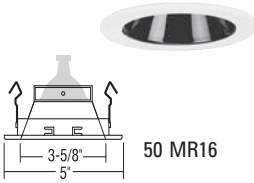
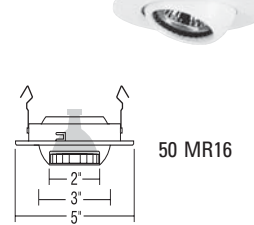
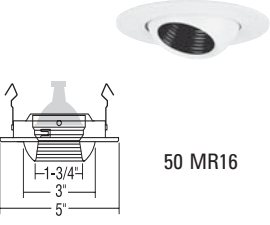
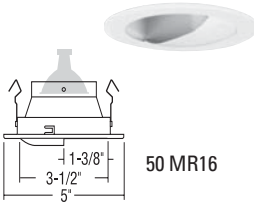
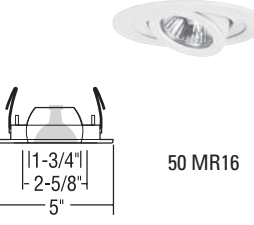
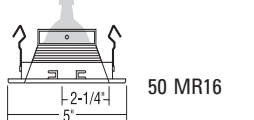
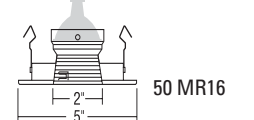
Deep			Pinhole		
Deep			Pinhole		
	3HP2 White 3HP2PB Polished Brass			3S1 White	
	<u>IC/Non-IC</u> 50 PAR30 65 BR30 (long neck)			<u>Non-IC</u> 50 R20 35 PAR20 60 PAR16	

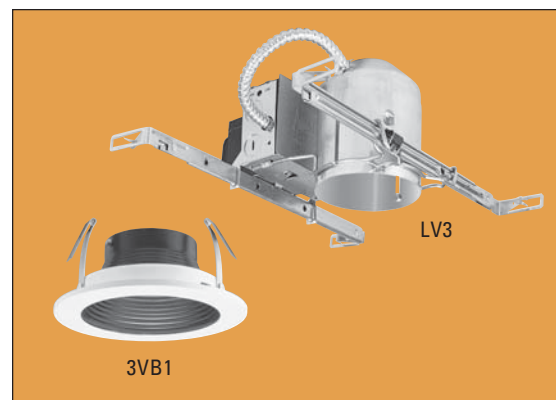
WETlite™			Wallwash		
WETlite™			Wallwash		
	3H20 White 3H20PB Polished Brass 3H20PC Polished Chrome 3H20CP Polished Copper			3W1 White	
	<u>Non-IC</u> 75 PAR 30 (Ships with outdoor rated 75W PAR30 lamp)			<u>Non-IC</u> 50 R20 35 PAR20 40 PAR16	



3" Low Voltage

Trims — These trims are for Non-IC applications when used with the LV3 housing. Maximum wattages listed.

Adjustable With Baffle		Adjustable Specular Open		Open Eyeball	
3VB1 Black		3V01AZ Clear		3VE1 White	
3VB1W White		3V01GZ Gold		3VE1PB Polished Brass	
3V01BLZ Black					
	50 MR16		50 MR16		50 MR16
Baffled Eyeball		Wallwash Eyelid		Wallwash Adjustable	
3VE2 Black		3VW1 White		3VDW1W White	
3VE2W White				3VDW1PB Polished Brass	
	50 MR16		50 MR16		50 MR16
Slotted Adjustable		Pinhole			
3VA5 White Baffle		3VS1 Black Baffle			
	50 MR16		50 MR16		



Intended Use

Recessed Housing rated **Non-IC** for **New Construction** applications. Approved for all wiring types and all ceiling types, including air-handling plenums.

Features

Thermally protected against improper contact with insulation and approved for through branch circuit wiring.

One-piece aluminum can for superior thermal performance for a wider range of trims. Galvanized steel rod frame and J-box.

Factory-installed captive bar hangers span 24" and feature built-in nailers and T-bar clips.

Suitable for ceilings up to 2" thick in new construction only.

Precision-wound stepdown transformer with class H insulation. For dimming control, use only dimmers specifically designed for use with magnetic (core and coil) transformers.

Consult factory when using fixtures on dimming systems.

Two-pin porcelain socket attaches to lamp. Lamp clips to trim to insure proper and consistent position.

Damp location listed.

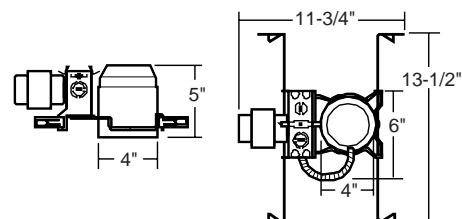
UL listed (standard). CSA Certified (see options).

Ordering Information

Example: **LV3 120 CSA**

Series	Volts	Options
LV3	120	CSA CSA Certified.
	277	LRC Provides compatibility with Lithonia Reloc System. Reloc System can be installed less this option with connectors provided by others.
	347	PHC Poke-home wire connectors.

IMPORTANT: Housings and trims are packaged and shipped as separate components. For details on ordering and packaging options, see page 271.



3" Low Voltage



Intended Use

Recessed Housing rated **IC** for **New Construction** applications. Approved for all wiring types and all ceiling types, including air-handling plenums.

Features

Approved for direct burial in insulation and through-branch circuit wiring.

Air-Tight standard. Meets current energy codes.

Pre-painted steel inner housing and aluminum outer housing mounted to a rugged galvanized steel pan.

Captive bar hangers span 24" and feature built-in nailers and T-bar clips. Suitable for ceilings up to 1-1/2" thick in new construction only.

Precision-wound stepdown transformer with class H insulation. For dimming control, use only dimmers specifically designed for use with magnetic (core and coil) transformers.

Consult factory when using fixtures on dimming systems.

Two-pin porcelain socket attaches to lamp. Lamp clips to trim to insure proper and consistent position.

Damp location listed.

CSA Certified to U.S. and Canadian safety standards.




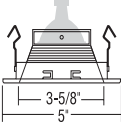
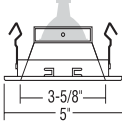
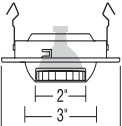



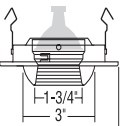
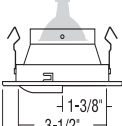
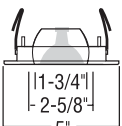


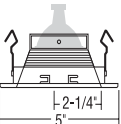
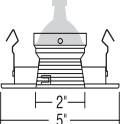
Ordering Information

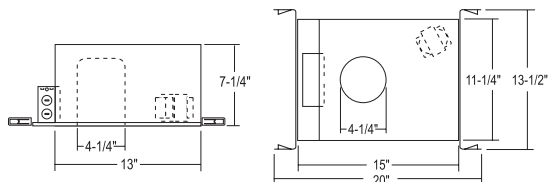
Example: **LIV3 120 CSA**

Series	Volts	Options
LIV3	120 (only)	CSA CSA Certified.







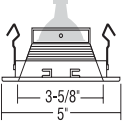

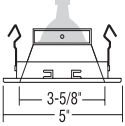
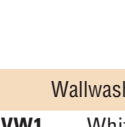
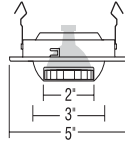
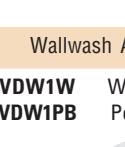





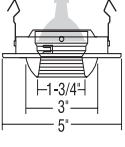
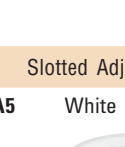
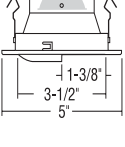
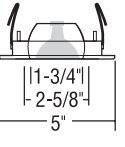



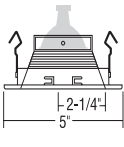
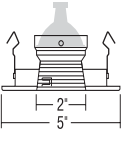
IMPORTANT: Housings and trims are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.

IC-Rated Trims — All trims are damp location listed. Lamp types and maximum wattages listed for each trim.

Adjustable With Baffle	Adjustable Specular Open	Open Eyeball
3VB1 Black 3VB1W White	3V01AZ Clear 3V01GZ Gold 3V01BLZ Black	3VE1 White 3VE1PB Polished Brass
		
		
50 MR16	50 MR16	50 MR16
Baffled Eyeball	Wallwash Eyelid	Wallwash Adjustable
3VE2 Black 3VE2W White	3VW1 White	3VDW1W White 3VDW1PB Polished Brass
		
		
50 MR16	50 MR16	50 MR16
Slotted Adjustable	Pinhole	
3VA5 White Baffle	3VS1 Black Baffle	
		
		
50 MR16	50 MR16	



Non-IC-Rated Trims — All trims are damp location listed. Lamp types and maximum wattages listed for each trim.

Adjustable With Baffle		Adjustable Specular Open		Open Eyeball	
3VB1 Black	3VB1W White	3V01AZ Clear	3V01GZ Gold	3VE1 White	3VE1PB Polished Brass
					
					
50 MR16	50 MR16	50 MR16	50 MR16	50 MR16	50 MR16
Baffled Eyeball		Wallwash Eyelid		Wallwash Adjustable	
3VE2 Black	3VE2W White	3VW1 White		3VDW1W White	3VDW1PB Polished Brass
					
					
50 MR16	50 MR16	50 MR16		50 MR16	50 MR16
Slotted Adjustable		Pinhole			
3VA5 White Baffle		3VS1 Black Baffle			
					
					
50 MR16		50 MR16			



Intended Use

Recessed Housing rated **Non-IC** for **Remodel** applications. Approved for all wiring types and all ceiling types, including air-handling plenums.

Features

Thermally protected against improper contact with insulation. One-piece aluminum can for maximum integrity and superior thermal performance.

Four factory-installed clips automatically adjust for ceiling thickness up to 1-1/4" thick and lock housing in place with self-flange can.

Galvanized steel J-box has built-in Romex clamps and ground wire. Not suitable for pulling wires, Romex only. Not for pulling wire.

Precision-wound stepdown transformer with class H insulation. For dimming control, use only dimmers specifically designed for use with magnetic (core and coil) transformers.

Consult factory when using fixtures on dimming systems.

Two-pin porcelain socket attaches to lamp. Lamp clips to trim to insure proper and consistent position.

Damp location listed.

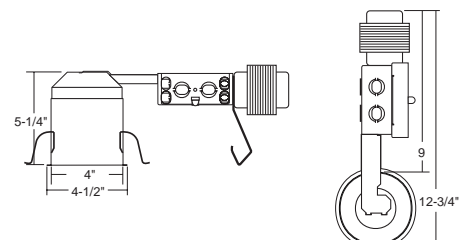
UL listed (standard). CSA Certified (see options).

Ordering Information

Example: **LV3R 120 CSA**

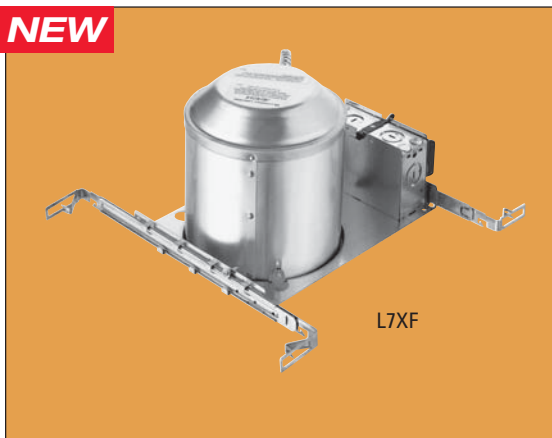
Series	Volts	Options
LV3R	120	CSA CSA Certified.
	277	PHC Poke-home wire connectors.
	347	

IMPORTANT: Housings and trims are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.



6" Fluorescent

NEW



L7XF

Intended Use

Recessed housing rated **IC or Non-IC** for **New Construction** applications. Approved for all wiring types and all ceiling types, including air-handling plenums.

Features

Approved for direct burial in insulation and through-branch circuit wiring.

Air-Tight standard. Meets current energy codes.

All electromagnetic ballasts are high-power factor (HPF) except 13W DTT, 120V.

Available with multi-volt (MVOLT) electronic ballast, 120 through 277, with end of life protection.

Aluminum housing for superior thermal performance for a wider range of trims.

Galvanized steel pan and J-box.

Factory-installed captive bar hangers span 24" and feature built-in nailers and T-bar clips.

Two bar hanger locking screws hold fixture in position.

J-box has built-in Romex clamps and ground wire.

Socket bracket clips to reflector to insure proper and consistent lamp position.

Suitable for ceilings up to 1" thick.

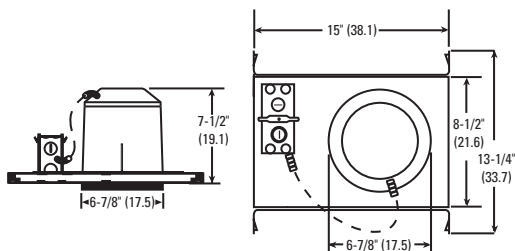
Damp location listed. (See trim selection for wet location listed trims.)

UL listed to US and Canadian safety standards.

Ordering Information Example: **L7XF 18DTT/TRT MVOLT**

Series	Lamps	Volts	Options
L7XF	13DTT	MVOLT	GMF Single slow-blow fuse. LRC Compatible with Lithonia Reloc System. Reloc System can be installed less this option with connectors provided by others.
	18DTT	120	
	18DTT/TRT	277 347	

IMPORTANT: Housings and reflectors are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.



IC/Non-IC-Rated Full Reflectors — Maximum wattages listed. Unless noted, use specified lamps only. Lensed trims are wet location listed. All others are damp location.

Premium Trims

Open Wide Flange		Open Narrow Flange With Splay		Baffle	
601 White		602 White		6B1 Black	
601PB Polished Brass		602A Clear Specular		6B1W White	
		602G Gold Specular		6B1BL/PB Black (P.Brass finish)	
		602SA Clear Diffuse			
		602SG Gold Diffuse			

	13DTT (IC) 18TRT (Non-IC)		13DTT (IC) 18DTT (Non-IC) 18TRT (Non-IC)		13DTT (IC) 18TRT (Non-IC)
--	------------------------------	--	--	--	------------------------------

Deep Baffle		Metal Baffle With Diffuse Upper Reflector		Baffle	
6B2 Black		6B3 Black		6B4 Black	
6B2W White		6B3W White		6B4W White	
6B2BL/PB Black (P. Brass finish)					

	13DTT (IC) 18DTT (Non-IC) 18TRT (Non-IC)		13DTT (IC) 18DTT (Non-IC) 18TRT (Non-IC)		13DTT (IC) 18DTT (Non-IC) 18TRT (Non-IC)
--	--	--	--	--	--

Eyelid Wallwash		Baffled Eyelid Wallwash	
6W1 White		6W2 Black	
		6W2W White	

	13DTT (IC) 18DTT (Non-IC) 18TRT (Non-IC)		13DTT (IC) 18DTT (Non-IC) 18TRT (Non-IC)
--	--	--	--

Polycarbonate Drop Lenses		Polycarbonate Flush Lenses	
6LD1* Opal		6LF1 Opal, White Splay	
6LD2* Prism		6LF2 Prismatic	

	13DTT (IC) 18DTT (Non-IC) 18TRT (Non-IC)		13DTT (IC, 2-pin lamp only)
--	--	--	-----------------------------

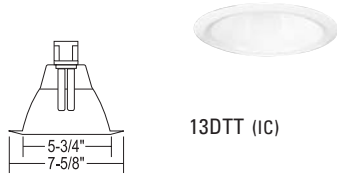
Glass Drop Lens		Glass Drop Lens		Glass Fresnel Lens	
6LD3 Opal, White Splay		6LF3 White, White Splay		6L4 Fresnel, White Splay	
6LDB3 Opal, Black Baffle		6LFB3 White, Black Baffle		6LB4 Fresnel, Black Baffle	

	13DTT (IC) 18DTT (Non-IC) 18TRT (Non-IC)		13DTT (IC) 18TRT (Non-IC)		13DTT (IC) 18TRT (Non-IC)
--	--	--	------------------------------	--	------------------------------

Standard Trims

Open Narrow Flange

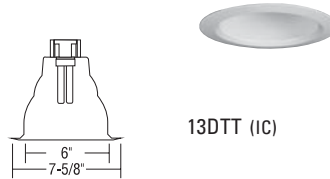
- 702** White
- 702PF** White, Plastic Flange
- 702A** Clear Diffuse
- 702G** Gold Diffuse
- 702AZ** Clear Specular
- 702GZ** Gold Specular
- 702BLZ** Black Specular



13DTT (IC)

Deep Open

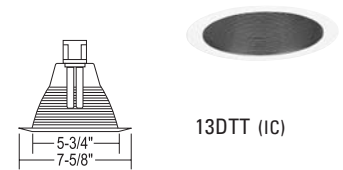
- 705** White
- 705PF** White, Plastic Flange
- 705A** Clear Diffuse
- 705G** Gold Diffuse
- 705AZ** Clear Specular
- 705GZ** Gold Specular
- 705BLZ** Black Specular



13DTT (IC)

Baffle, Narrow Flange

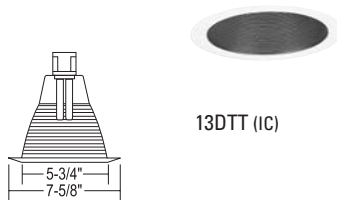
- 7B2** Black
- 7B2W** White
- 7B2WPF** White, Plastic Flange



13DTT (IC)

Deep Baffle

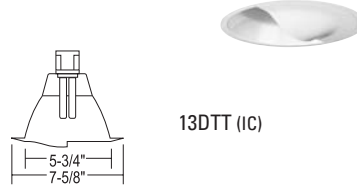
- 7B5** Black
- 7B5W** White
- 7B5WPF** White, Plastic Flange



13DTT (IC)

Eyelid Wallwash

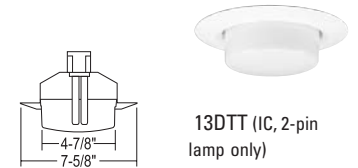
- 7W1** White



13DTT (IC)

Polycarbonate Drop Lens

- 7LD1** Opal
- 7LD1PF** Opal, Plastic Flange
- 7LD2** Prismatic, Plastic Flange



13DTT (IC, 2-pin lamp only)

5" Incandescent 3" Incandescent 5" Fluorescent



Intended Use

Economy Remodelers rated **Non-IC**.

Features

Deep-drawn aluminum reflector/housing eliminates need for separate can and trim.

Galvanized steel mounting ring holds reflector/housing securely in ceilings from 1/8" to 1" thick.

Thermally protected against improper contact with insulation or overlapping. EE1 is IC-rated; all other units are Non-IC. EL1 is wet location listed; all other units are damp location only.

Snap-on splice box provided with ground wire and pry-outs for Romex clamp (by others). Approved for end-of-run only.

EF series includes encased-and-potted, normal power factor (NPF), 13-watt, 120-volt electromagnetic ballast only.

Ordering Information

Example: **E01 CSA**

Series	Options
5" Incandescent E Series	CSA CSA Certified.*
E01 White open reflector	* 3" remodelers are UL listed and CSA certified. Must specify CSA option on 5" remodelers.
EB1 Black baffle	
EB1W White baffle	
EB1C Chrome baffle	
EB1G Gold baffle	
EE1 White eyeball	
EL1 Drop opal lens	
3" Incandescent E Series	
E301 White open reflector	
E3B1 Black baffle	
E3B1W White baffle	
E3E1 White eyeball	
5" Fluorescent E Series	
EF01 White open reflector	
EF01LPI White open reflector with lamp*	
EFB1 Black baffle	
EFB1LPI Black baffle with lamp*	
EFB1W White baffle	
EFB1WLPI White baffle with lamp*	
EFL1 Drop opal lens	

* Six pack only.

5" Incandescent — EE1 is rated IC. All others are for Non-IC applications only. EL1 is wet location listed. All others are damp location only.

Open	Baffle	Polycarbonate Lens
E01 White	EB1 Black EB1W White	Drop EL1 Opal
60 A19 65 BR30 75 PAR30	40 A19 65 BR30 75 PAR30	40 A19

Eyeball
EE1 White
65 BR30 75 PAR30

3" Incandescent — All models are for Non-IC applications and rated for damp locations only.

Open	Baffle	Eyeball
E301 White	E3B1 Black E3B1W White	E3E1 White
50 R20 50 PAR20	50 R20 50 PAR20	50 R20 50 PAR20

5" Compact Fluorescent — All models are for Non-IC applications only. EFL1 is wet location listed. All others are damp location only.

Open	Baffle	Polycarbonate Lens
EF01 White EF01LPI White with lamp	EFB1 Black EFB1LPI Black with lamp EFB1W White EFB1WLPI White with lamp	Drop EFL1 Opal
13 DTT	13 DTT	13 DTT

Steplights

Damp Location

IC/Non-IC Rated — These steplights may be used in IC or Non-IC applications using lamps and wattages listed. Maximum wattages are listed. Lower-wattage lamps of the same type can be used. All steplights are damp location listed.

Incandescent Steplights

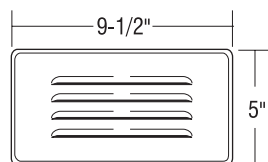
- SL1 White
- SL1 BL Black



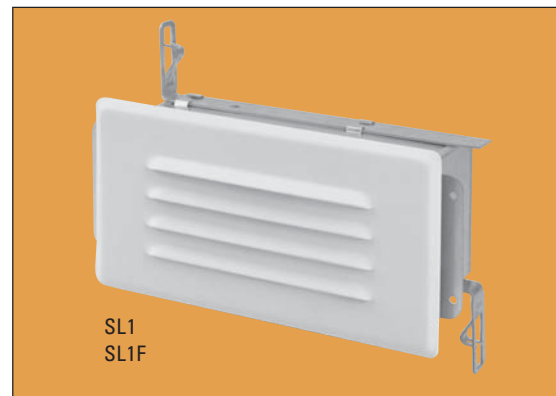
White



Black



IC 25 A19
Non-IC 40 A19



SL1
SL1F

Fluorescent Steplights

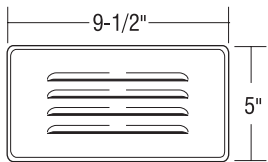
- SL1F 9DTT White
- SL1F 9DTT BL Black
- SL1F 13DTT White
- SL1F 13DTT BL Black



White



Black



9 DTT
13 DTT

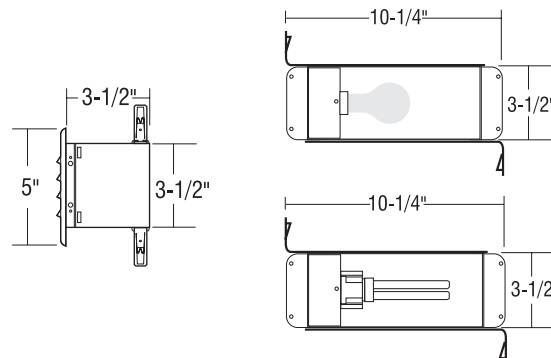
Intended Use

Recessed Housing rated **IC and Non-IC** for **New Construction** applications. **For indoor use only.**

Features

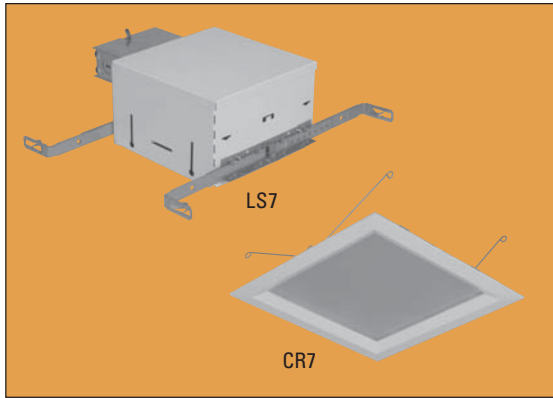
Approved for through-branch circuit wiring.
Galvanized steel housing and wiring compartment with a ground wire.
Bar hangers span 16" with recessed integral nailer tabs.
Powder-coated steel louver available in white or black finish. Butterfly springs hold louver securely in place. Die-cut foam gasket seals steel louver against surface, preventing light leaks.
UL listed and CSA Certified.

IMPORTANT: Housings and trims are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.



Lensed Squares

Trims — These trims are for Non-IC applications only. Lamp type and wattage are determined by frame-in. Lensed trims are wet location listed.



Intended Use

Recessed Housing rated **Non-IC** for **New Construction** applications. Approved for all wiring types and all ceiling types, including air-handling plenums.

Features

Thermally protected against improper contact with insulation and approved for through-branch circuit wiring.
 Heavy-gauge pre-painted steel housing with galvanized steel J-box. Factory-installed, captive bar hangers span 24" and feature built-in nailers. J-box has built-in Romex clamps and a ground wire.
 Encased-and-potted, normal power factor (NPF) electromagnetic ballast standard (Fluorescent only).
 Damp location listed. (See trim selection for wet location listed trims.)
 UL listed (standard). CSA Certified (see options).

Ordering Information

Example: **LS7 CSA**





Series	Options
LS7	CSA CSA Certified.
LS9	LRC Provides compatibility with Lithonia Reloc System. Reloc System can be installed less this option with connectors provided by others. PHC Poke-home wire connectors.

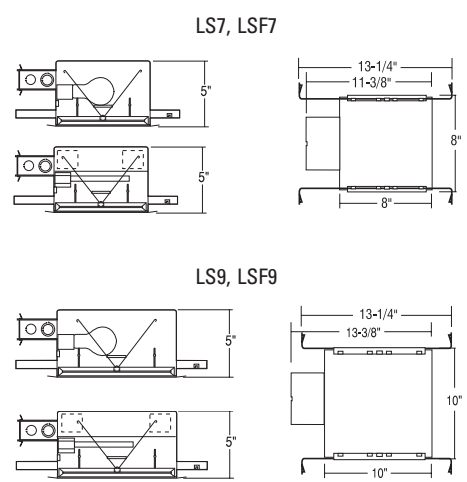
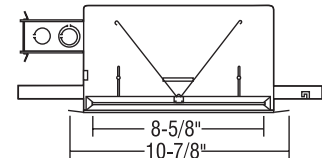
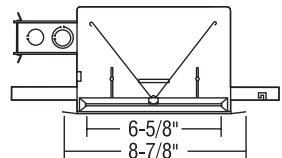
Ordering Information

Example: **LSF9 3/9TT 277 CSA**

Series	Lamps	Volt	Options
LSF7	2/9TT	120	CSA CSA Certified.
LSF9	3/9TT	277	HPF High power factor (90% power factor for 120V, 277V and 347V). LRC Provides compatibility with Lithonia Reloc System. Reloc System can be installed less this option with connectors provided by others. PHC Poke-home wire connectors. GMF Single slow-blow fuse.
	1/13TT 2/13TT	347	

IMPORTANT: Housings and trims are packaged and shipped as separate components. For details on ordering and packaging options, see page 272.

7" Lensed Squares		9" Lensed Squares	
FR7	Fresnel 100 A19 2/9 TT		FR9 Fresnel 150 A21 3/9 TT 1/13 TT 2/13 TT
FW7	Flat White 100 A19 2/9 TT		FW9 Flat White 150 A21 3/9 TT 1/13 TT 2/13 TT
D07	Drop Opal 100 A19 2/9 TT		D09 Drop Opal 150 A21 3/9 TT 1/13 TT 2/13 TT
CR7	Corning C73 100 A19 2/9 TT		CR9 Corning C73 150 A21 3/9 TT 1/13 TT 2/13 TT



Options

These options must be ordered with housing or frame-in.

CSA	High Power Factor	Slow-Blow Fuse
CSA CSA Certified	HPF High power factor (90% power factor for 120V, 277V and 347V).	GMF Single slow-blow fuse. For use with fluorescent only.
MVOLT	Lithonia Reloc Compatible	Poke-Home Wire Connectors
MVOLT Electronic multi-volt ballast capable of operating any line voltage from 120V to 277V.	LRC Provides compatibility with Lithonia Reloc System. Reloc System can be installed less this option with connectors provided by others.	PHC Factory-installed poke-home wire connectors. (12-20 AWG) Meets UL 486 Standards for Push-In Terminals.
Air-Tight		
AT Aluminum tape seals housing to minimize airflow through rough-in. Complies with WSEC and ASTM E283 requirements.		

Rough-In Compatibility


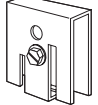

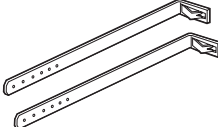

(These options must be ordered with housing.)

	AT	CSA	GMF	HPF	LRC	PHC	MVOLT
LC6	■				■	▲	
L7X	▲	▲			■	■	
L7XR	■	■			■	■	
LI6	■	■			■	▲	
LCP	■				■	▲	
L7XP	▲	▲			■	▲	
L7PR	■	■			■	■	
L7XF	▲	▲	■		■		■
L5	■	■			■	■	
L5R	■	■			■	■	
LI3	■	■			■	■	
L3	■	■			■	■	
L3R	■	■			■	■	
LV3		■				■	
LV3R		■				■	
LIV3	▲	■					
LS		■			■	■	
LSF		■	■	■	■	■	

■ Option available
 (blank) Option not available
 ▲ Standard

Accessories

Accessories must be ordered separately.

Remodeler Clips	T-Bar Mounting Clips	Ceiling Trim Extender
ARC 144 Box of 144 loose clips. ARC 12 12 packs of 12 clips (144).  Used to secure frame-ins in ceiling in remodel applications.	LSMC Designed to lock bar hangers to T-bar. Set of 4 clips. 	CTE Use when ceiling thickness is greater than 1-1/2". Maximum thickness 2" (5.1cm). Not compatible with VPE2, VMB4, 6SB1, 6SO1, F6 Series or 7-Series trims. 
LBH - Bar Hangers	Oversize Trim Rings	Air-Tight (Vapor Barrier) Kit
LBH Extended bar hangers used for extreme off-center mounting in a 24" space. Set of two 22" bar hangers. 	CTR6 8-3/4" (22.2cm) O.D. 7-1/8" (18.1cm) I.D. (Use with 6, 7, C and F6 Series trims. Compatible with all 7-5/8" flanged trims only. Not compatible with C01 or CB1). 	ATK Airtight gasketing seals housing to minimize air flow through rough-in. Complies with WSEC requirements. Available in master pack of 24 only.

Rough-In Compatibility

(These accessories are ordered separately)

	ATK3	ATK5	ATK6	ATKR	ARC	LBH	LSMC
LC6			■		■	■	■
L7X					■	■	■
L7XR				■			
LI6						■	■
LCP			■		■	■	■
L7XP					■	■	■
L7PR				■			
L7XF					■	■	■
L5		■				■	■
L5R				■			
LI3	■					■	■
L3	■					■	■
L3R				■			
LV3						■	■
LV3R							
LIV3						■	■
LS						■	■
LSF						■	■

■ Option available
 (blank) Option not available

Because Lithonia's downlighting rough-ins and trims are packaged and shipped as separate components (*except steplights, which are shipped as complete fixtures*), they are usually ordered as separate line items. However, rough-in and trim descriptions may be combined on a single line item.

ORDERED AS SEPARATE LINE ITEMS:			ORDERED AS ONE LINE ITEM:		
Line	Qty	Cat. No.	Line	Qty	Catalog No.
1	15	L5	1	15	L5 5B2
2	15	5B2	2	3	LV3 3VB1
3	3	L3			
4	3	3B1			

Regardless of ordering method, components will be shipped in optimized packaging:

Master or job pack configurations, if available, with unit packs used to fill odd lot quantities. To over-ride packaging optimization, items may be ordered specifying the "U" packaging suffix. Specifying unit packaging or ordering quantities that are not even-numbered multiples of available master/job pack configurations may result in higher pricing.

Line	Qty	Cat. No.*	Description
1	12	L5 M6	2 master cartons containing 6 rough-ins each
2	3	L5 U	3 unit cartons containing 1 rough-in each
3	12	5B2 M6	2 master cartons containing 6 trims each
4	3	5B2 U	3 unit cartons containing 1 trim each
5	3	LV3	3 unit cartons containing 1 rough-in
6	3	3VB1	3 unit cartons containing 1 trim each

*Various suffixes are used (after the product description) to indicate packaging configurations.

ITEMS WITH MASTER OR JOB PACK CONFIGURATIONS.

Items not listed below are available in unit packs only

Rough-Ins				Packaging			Packaging		
	Model No.	Pkg	Qty	Model No.	Pkg	Qty	Model No.	Pkg	Qty
3"	L3, L3R, LIV3	M6 M6	6 6	3W1	M6	6	7E1	M12	12
5"	L5, L5R	M6	6	5B1	M12	12	7LD1	M12	12
6"	LC6, LCP	R6	6	5B2	M12	12	7LD1PF	M6	6
	L7X*, L7XP*	R6	6	5E1	M6	6	7LD2PF	M6	6
	L7XF*	R6	6	5LD1	M6	6	701	M24	24
	L7XR	M6	6	501	M12	12	702	M24	24
Square	LS7, LS9	J4	4	502	M12	12	703	M24	24
Accessories				6B1	M6	6	705	M12	12
Model No.	Pkg	Qty		6B2	M6	6	7RE1	M12	12
ARC12	M12	144		6B3	M6	6	7W1	M6	6
ARC144	1 bag	144		6B4	M6	6	CLF1	M6	6
ATK3	M24	24		6C3A	M6	6	CLF1PF	M6	6
ATK5	M24	24		6E1	M6	6	CLF2	M6	6
ATK6	M24	24		6LD1	M6	6	CLF2PF	M6	6
ATKR	M24	24		6LF1	M6	6	CR7	J4	4
LBH	J2	2		6LF2	M6	6	CR9	J4	4
LSMC	J6	6		601	M6	6	CW1	M6	6
				602	M6	6	DO7	J4	4
				6RE1	M6	6	DO9	J4	4
				6RE2	M6	6	FR7	J4	4
				6W1	M6	6	FR9	J4	4
				7B1	M24	24	FW7	J4	4
				7B2	M24	24	FW9	J4	4
				7B5	M24	24			

J followed by a number indicates a job pack of that number of items per shipping carton. Job packed items *are not* UPC-labeled for individual sale.

M followed by a number indicates a master pack of that number of items per shipping carton. Master-packed items *are* UPC-labeled and packaged appropriately for individual resale, but not for reshipment.

R followed by a number indicates a master pack of that number of items per shipping carton. Resale-packed items *are* UPC-labeled and packaged appropriately for individual resale, but not for reshipment.

* Available in R6 (six pack) only.

Determining the proper placement of recessed fixtures is simple when using the following steps. The guidelines in this section provide general parameters that can be applied in almost any application.

Step 1. Calculate the mounting height.

The mounting height is the distance from the fixture to the work surface. If the work surface is the floor, mounting height equals ceiling height. If the work surface is a countertop, mounting height is ceiling height minus countertop height.

Step 2. Choose the lamp.

Refer to the lamp performance data below to select the lamp that will provide the desired light level at the specified mounting height.

Step 3. Calculate appropriate fixture spacing.

The chart below shows the footcandle (fc) levels and lighted diameter at various mounting heights. The lighted diameter becomes the maximum spacing to achieve uniform light levels and shows the area illuminated for accent lighting.

Mounting Height		5'		8'		10'		12'	
		fc	Dia/ Spacing	fc	Dia/ Spacing	fc	Dia/ Spacing	fc	Dia/ Spacing
R20									
20 watts	Flood	22	3.4	9	5.5	6	6.9	4	8.3
20 watts	Flood	22	3.4	9	5.5	6	6.9	4	8.3
BR30									
65 watts	Flood	19	8.4	7	13.4	5	16.8	3	20.1
	Spot	50	2.3	20	3.7	13	4.6	9	5.5
BR40									
75 watts	Flood	18	7.8	7	12.5	5	15.6	3	18.8
100 watts	Flood	36	7.8	14	12.5	9	15.6	6	18.8
	Spot	200	1.9	78	3.1	50	3.9	35	4.7
120 watts	Flood	52	7.8	20	12.5	13	15.6	9	18.8
	Spot	280	1.9	109	3.1	70	3.9	49	4.7
PAR20 Halogen									
35 watts	Narrow Flood	36	2.7	14	4.3	9	5.4	6	6.4
	Narrow Spot	131	0.8	51	1.3	33	1.6	23	1.9
50 watts	Flood	56	2.7	22	4.3	14	5.4	10	6.4
	Spot	128	1.4	50	2.2	32	2.8	22	3.4
	Narrow Spot	248	0.8	97	1.3	62	1.6	43	1.9
PAR30 Halogen									
50 watts	Wide Flood	20	5.5	8	8.9	5	11.1	3	13.3
	Flood	50	3.6	20	5.8	13	7.3	9	8.7
	Narrow Flood	76	2.7	30	4.3	19	5.4	13	6.4
	Very Narrow Flood	108	2.1	42	3.4	27	4.3	19	5.1
	Spot	260	1.1	102	1.7	65	2.1	45	2.5
	Narrow Spot	396	0.8	155	1.3	99	1.6	69	1.9
75 watts	Flood	88	3.6	34	5.8	22	7.3	15	8.7
	Narrow Flood	136	2.7	53	4.3	34	5.4	24	6.4
	Spot	420	1.1	164	1.7	105	2.1	73	2.5
	Narrow Spot	620	0.8	242	1.3	155	1.6	108	1.9
PAR38 Halogen									
45 watts	Narrow Flood	72	2.7	28	4.3	18	5.4	13	6.4
	Spot	180	1.3	70	2.1	45	2.6	31	3.2
60 watts	Wide Flood	50	5.0	20	8.0	13	10.0	9	12.0
	Narrow Flood	146	2.6	57	4.1	37	5.2	25	6.2
	Narrow Spot	740	0.9	289	1.4	185	1.7	128	2.1
75 watts	Narrow Flood	100	2.7	39	4.3	25	5.4	17	6.4
	Spot	480	1.1	188	1.8	120	2.3	83	2.7
	Narrow Spot	736	0.7	288	1.1	184	1.4	128	1.7
90 watts	Wide Flood	60	5.2	23	8.3	15	10.4	10	12.5
	Narrow Flood	160	2.7	63	4.3	40	5.4	28	6.4
	Spot	460	1.3	180	2.1	115	2.6	80	3.2
	Narrow Spot	900	0.8	352	1.3	225	1.6	156	1.9
100 watts	Narrow Flood	220	3.2	86	5.0	55	6.3	38	7.6
	Narrow Spot	1200	0.9	469	1.4	300	1.7	208	2.1
150 watts	Wide Flood	100	5.2	39	8.3	25	10.4	17	12.5
	Narrow Flood	300	2.7	117	4.3	75	5.4	52	6.4
	Narrow Spot	1500	0.8	586	1.3	375	1.6	260	1.9
MR16 Low Voltage									
35 watts	Flood	64	3.6	25	5.8	16	7.3	11	8.7
	Spot	160	1.6	63	2.5	40	3.2	28	3.8
	Narrow Spot	520	0.7	203	1.1	130	1.4	90	1.7
50 watts	Wide Flood	46	5.2	18	8.3	12	10.4	8	12.5
	Flood	74	3.6	29	5.8	19	7.3	13	8.7
	Narrow Flood	98	2.9	38	4.6	25	5.7	17	6.9
	Very Narrow Flood	136	2.4	53	3.8	34	4.8	24	5.8
	Spot	408	1.2	159	2.0	102	2.5	71	2.9
75 watts	Flood	84	3.8	33	6.1	21	7.7	15	9.2
	Very Narrow Flood	196	2.2	77	3.5	49	4.4	34	5.3
	Spot	512	1.2	200	2.0	128	2.5	89	2.9
PAR36 Low Voltage									
35 watts	Very Narrow Spot	920	0.4	359	0.7	230	0.9	160	1.0
	Narrow Spot	204	0.9	80	1.4	51	1.7	35	2.1
	Narrow Flood	47	2.7	18	4.3	12	5.4	8	6.4
50 watts	Narrow Spot	368	0.9	144	1.4	92	1.7	64	2.1
	Narrow Flood	52	2.5x3.2	20	4.0x5.2	13	5.0x6.5	9	6.0x7.8
	Flood	24	3.4	9	5.5	6	6.9	4	8.3

NOTE: The fixture spacing criteria from Step 3 are maximums. Fixture placement should be technically correct and aesthetically pleasing. Work with the spacing criteria and a drawing of the area being illuminated to determine actual fixture placement and number of fixtures needed. Remember, these are only guidelines. Exact fixture location may be impacted by joist spacing, furniture placement and work surface locations.

TRACK LIGHTING

Track Lighting

Lithonia Track is a full-featured line of commercial track and display lighting available in one-circuit and two-circuit configurations.

The Lithonia Track family includes line and low voltage track heads for a wide range of popular lamps and features a full selection of accessory filters and louvers.



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Track

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LTD

Ordering Information

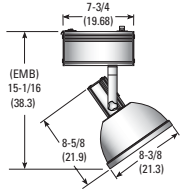
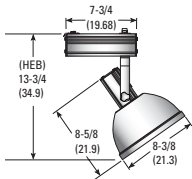
Example: **LTD REFL 50M SP HEB WH**

Series	Head style	Wattage/lamp	Distribution	Size	Voltage	Ballast	Finish	Options/Accessories
--------	------------	--------------	--------------	------	---------	---------	--------	---------------------

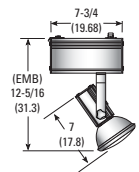
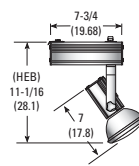


Head style	REFL
Watts/lamp ¹	50M 70M 100M 150M²
Distribution	SP Spot NFL Narrow flood WFL Wide flood
Size	N/A
Voltage	N/A
Ballast	HEB Electronic EMB Electromagnetic
Finish	WH White DBL Black
Options	CM For direct mount to j-box ¹⁰ CGL Clear tempered glass lens WLP With lamp ^{1,3}

Accessories: N/A

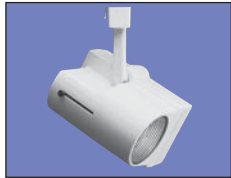


Head style	LPHR
Watts/lamp ¹	35M 70M 100M 150M²
Distribution	N/A
Size	20 30 38
Voltage	N/A
Ballast	HEB Electronic EMB Electromagnetic
Finish	WH White DBL Black
Options	CM For direct mount to j-box ¹⁰ LPFL Flood lamp ^{3,4} LPSP Spot lamp ^{3,4} LPWFL Wide flood lamp ^{3,4}



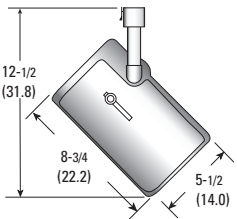
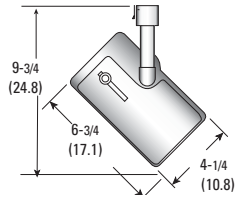
Accessories: (Order separately)

Filter holder	LTWFH400 (color) ^{5,6} LTWFH500 (color) ^{5,7} LTWFH700 (color) ^{5,8}
Eggcrate louver	L400 ^{6,9} L500 ^{7,9} L700 ^{8,9}
Lens	F400 (color) ^{6,9} F500 (color) ^{7,9} F700 (color) ^{8,9}



Head style	CCH
Watts/lamp ¹	35MHC
Distribution	N/A
Size	20
Voltage	120
Ballast	HEB Electronic EMB Electromagnetic ⁷
Finish	DWHG Matte white, textured DBL Black
Options	LPFL Flood lamp ³ LPSP Spot lamp ³

Accessories: N/A



Head style	CCH
Watts/lamp ¹	35MHC 70MHC
Distribution	N/A
Size	30
Voltage	120
Ballast	HEB Electronic
Finish	DWHG Matte white, textured DBL Black
Options	LPFL Flood lamp ³ LPSP Spot lamp ³

Accessories: N/A

NOTES:

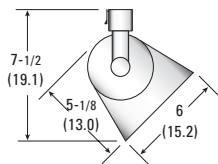
- 1 Recommended for use with color-corrected metal halide lamps.
- 2 Available with EMB ballast only.
- 3 Philips lamp shipped separately. Consult factory for other lamp options.
- 4 Sylvania lamp shipped separately for 150M.
- 5 Filter holders and barn doors available in white (WH) or black (DBL).
- 6 Available for use with size 20 only.
- 7 Available for use with size 30 only.
- 8 Available for use with size 38 only.
- 9 Filter holder required when ordering louver or lens. For lens type (color) selection, see page 291.
- 10 120/277V electronic only.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

Ordering Information

Example: LTD CFWW 1/18DTT 12AP 120 DWHG

Series ¹	Head style	Wattage/lamp	Housing size	Louver style	Voltage	Finish
---------------------	------------	--------------	--------------	--------------	---------	--------



Head style	CFWW
Watts/lamp	1/18DTT 1/26DTT 1/18TRT 1/26TRT 1/32TRT 1/42TRT
Housing size	12 12" nominal length
Louver style	(blank) Open aperture AP Clear semi-diffuse, low-iridescent parabolic WHP White BLP Black
Voltage	120
Finish	DWHG Matte white, textured DBL Black

Accessories: N/A

Head style	CFWW
Watts/lamp	2/26DTT 2/32TRT 2/42TRT 2/27TT 2/39TT
Housing size	20 20" nominal length
Louver style	(blank) Open aperture AP Clear semi-diffuse, low-iridescent parabolic WHP White BLP Black
Voltage	120
Finish	DWHG Matte white, textured DBL Black

Accessories: N/A

Head style:	CFWW
Watts/lamp:	2/40TT 2/50TT 2/55TT
Housing size:	26 26" nominal length ²
Louver style:	(blank) Open aperture AP Clear semi-diffuse, low-iridescent parabolic WHP White BLP Black
Voltage:	120
Finish	DWHG Matte white, textured DBL Black

Accessories: N/A

NOTES:

- 1 Not for use with monopoint. Not available with dimming applications.
 - 2 4' or longer track stick required.
- Dimensions are shown in **inches (centimeters)** unless otherwise noted.

LTC

Ordering Information

Example: **LTC RNDB MR16/50 MB WH**

Series

Head style

Lamp designation

Trim type

Finish

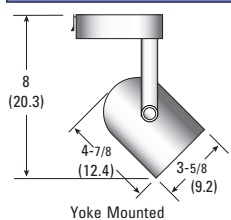
Low Voltage (Electronic Transformer)



Head style	RNDY
Lamp designation	MR16 (50W max.)
Trim type	MB Matte black baffle WB White baffle
Finish	WH White DBL Black

Accessories:

Filter holder	LTFH500 (color) ¹
Lens	F500 (color) ^{2,3}
Eggcrate louver	L500 ^{2,4}
Barn door	LTBD500 (color) ¹



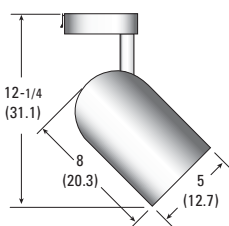
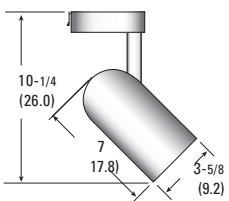
Yoke Mounted



Head style	RNDB
Lamp designation	MR16/50 (50W max.)
Trim type	MB matte black baffle WB white baffle
Finish	WH white DBL black

Accessories:

Filter holder	LTFH500 (color) ¹
Lens	F500 (color) ^{2,3}
Eggcrate louver	L500 ^{2,4}
Barn door	LTBD500 (color) ¹



Head style	RNDB
Lamp designation	MR16/75 PAR36 (75W max.)
Trim type	MB Matte black baffle WB White baffle
Finish	WH White DBL Black

Accessories:

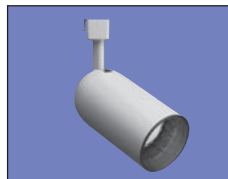
Filter holder	LTFH700 (color) ¹
Lens	F700 (color) ^{2,3}
Eggcrate louver	L700 ^{2,4}
Barn door	LTBD700 (color) ¹

NOTES:

- Filter holders and barn doors available in white (WH) or black (DBL).
- Filter holder or barn door required when ordering louver or lens. For lens type (color) selection, see page 291.
- F200 lens also available. Allows for lens positioning internal to track fixture. For MR16 lamp type only. Consult factory.
- L200 honeycomb louver also available. Allows for lens positioning internal to track fixture. For MR16 lamp type only. Consult factory.
- PAR16 compatible.
- Socket extender must be used with short-neck lamps. Order TP30 SE. Shipped separately.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

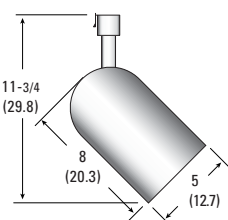
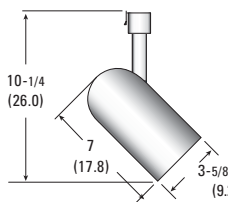
Line Voltage



Head style	RNDB
Lamp designation	PAR20 (75W max.) ⁵
Trim type	MB Matte black baffle WB White baffle
Finish	WH White DBL Black

Accessories:

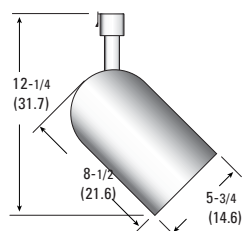
Filter holder	LTFH500 (color) ¹
Lens	F500 (color) ²
Eggcrate louver	L500 ²
Barn door	LTBD500 (color) ¹



Head style	RNDB
Lamp designation	PAR30 (75W max.) ⁶
Trim type	MB Matte black baffle WB White baffle
Finish	WH White DBL Black

Accessories:

Filter holder	LTFH700 (color) ¹
Lens	F700 (color) ²
Eggcrate louver	L700 ²
Barn door	LTBD700 (color) ¹



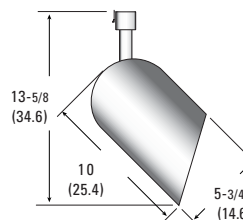
Head style	RNDB
Lamp designation	PAR38 (Q250W max.)
Trim type	MB Matte black baffle WB White baffle
Finish	WH White DBL Black

Accessories:

Filter holder	LTFH800 (color) ¹
Lens	F800 (color) ²
Eggcrate louver	L800 ²
Barn door	LTBD800 (color) ¹



Head style	WWRD
Lamp designation	PAR38 (Q250W max.)
Finish	WH White DBL Black

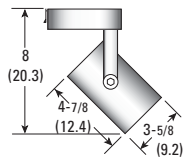
Accessories: N/A

Ordering Information

Example: **LTC FLTB PAR20 MB WH**

Series	Head style	Lamp designation	Trim type	Finish
--------	------------	------------------	-----------	--------

Low Voltage (Electronic Transformer)

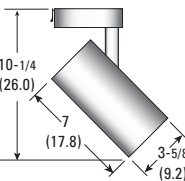
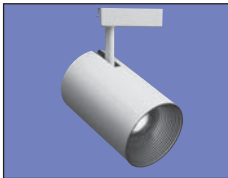


Yoke Mounted

Head style	FLTY
Lamp designation	MR16 (50W max.)
Trim type	MB Matte black baffle WB White baffle
Finish	WH White DBL Black

Accessories:

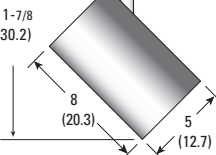
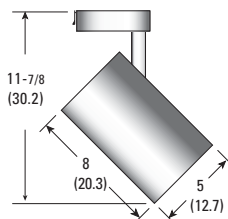
Filter holder	LTFH500 (color) ¹
Lens	F500 (color) ^{2,3}
Eggcrate louver	L500 ^{2,4}
Barn door	LTBD500 (color) ¹



Head style	FLTB
Lamp designation	MR16/50 (50W max.)
Trim type	MB Matte black baffle WB White baffle
Finish	WH White DBL Black

Accessories:

Filter holder	LTFH500 (color) ¹
Lens	F500 (color) ^{2,3}
Eggcrate louver	L500 ^{2,4}
Barn door	LTBD500 (color) ¹

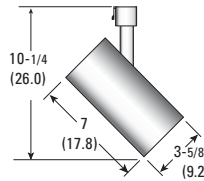
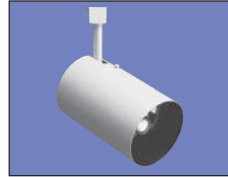


Head style	FLTB
Lamp designation	MR16/75 PAR36 (75W max.)
Trim type	MB Matte black baffle WB White baffle
Finish	WH White DBL Black

Accessories:

Filter holder	LTFH700 (color) ¹
Lens	F700 (color) ^{2,3}
Eggcrate louver	L700 ^{2,4}
Barn door	LTBD700 (color) ¹

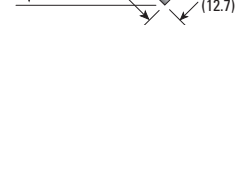
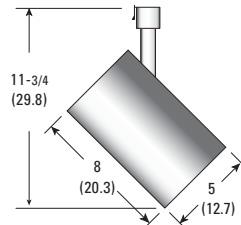
Line Voltage



Head style	FLTB
Lamp designation	PAR20 (75W max.) ⁵
Trim type	MB Matte black baffle WB White baffle
Finish	WH White DBL Black

Accessories:

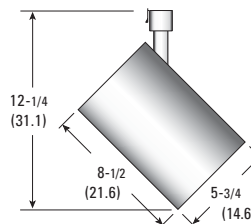
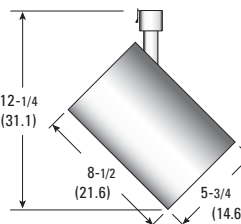
Filter holder	LTFH500 (color) ¹
Lens	F500 (color) ²
Eggcrate louver	L500 ²
Barn door	LTBD500 (color) ¹



Head style	FLTB
Lamp designation	PAR30 (75W max.) ⁶
Trim type	MB Matte black baffle WB White baffle
Finish	WH White DBL Black

Accessories:

Filter holder	LTFH700 (color) ¹
Lens	F700 (color) ²
Eggcrate louver	L700 ²
Barn door	LTBD700 (color) ¹



Head style	FLTB
Lamp designation	PAR38 (Q250W max.)
Trim type	MB Matte black baffle WB White baffle
Finish	WH White DBL Black

Accessories:

Filter holder	LTFH800 (color) ¹
Lens	F800 (color) ²
Eggcrate louver	L800 ²
Barn door	LTBD800 (color) ¹

NOTES:

- 1 Filter holders and barn doors available in white (WH) or black (DBL).
- 2 Filter holder or barn door required when ordering louver or lens. For lens type (color) selection, see page 291.
- 3 F200 lens also available. Allows for lens positioning internal to track fixture. For MR16 lamp type only. Consult factory.
- 4 L200 honeycomb louver also available. Allows for lens positioning internal to track fixture. For MR16 lamp type only. Consult factory.
- 5 PAR16 compatible.
- 6 Socket extender must be used with short-neck lamps. Order TP30 SE. Shipped separately.

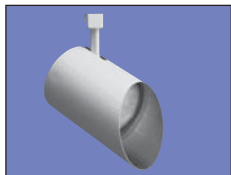
Dimensions are shown in **inches (centimeters)** unless otherwise noted.

LTC

Ordering Information Example: **LTC WWFT PAR38 WH**

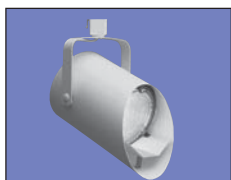
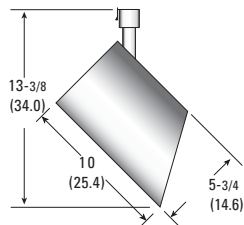
Series	Head style	Lamp designation	Finish
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Wallwash, Line Voltage



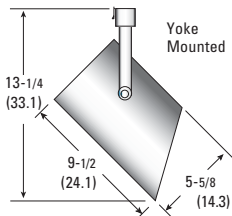
Head style **WWFT**
 Lamp designation **PAR38** (Q250W max.)
 Finish **WH** White
DBL Black

Accessories: N/A



Head style **WWFT**
 Lamp designation **PAR38/3** (150W max.)
 Finish **WH** White
DBL Black

Accessories: N/A



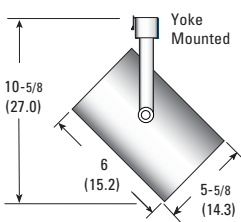
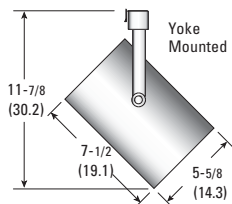
PAR Spot, Line Voltage



Head style **PRSP**
 Lamp designation **PAR38** (Q250W max.)
 Finish **WH** White
DBL Black

Accessories:

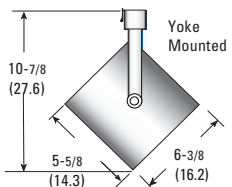
Lens **F600** (color)¹
 Eggcrate louver **L600**¹



Head style **PRSP**
 Lamp designation **PAR38/3** (150W max.)
 Finish **WH** White
DBL Black

Accessories:

Lens **F600** (color)¹
 Eggcrate louver **L600**¹



Head style **PRSP**
 Lamp designation **PAR46/3** (200W max.)
 Finish **WH** White
DBL Black

Accessories:

Lens **F600** (color)¹
 Eggcrate louver **L600**¹

NOTES:
 1 Internal retaining clips allow room for F600 lens or L600 louver.
 Dimensions are shown in **inches (centimeters)** unless otherwise noted.

Ordering Information

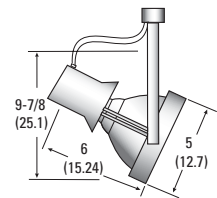
Example: **LTC GMBR PAR20 WH**

Series	Head style	Lamp designation	Stem length	Finish
--------	------------	------------------	-------------	--------

Line Voltage



Head style **GLPR** (front loading gimbal ring)
 Lamp designation **PAR38** (Q250W max.)
 Stem length N/A
 Finish **WH** White
DBL Black

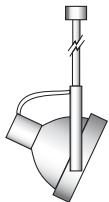


Accessories: N/A



Head style **GMBR**
 Lamp designation **PAR16** (75W max.)
PAR20 (50W max.)
PAR30 (75W max.)
PAR38 (Q250W max.)
PAR38/3 (150W max.)

Stem length **ST12** 12"
ST18 18"
ST24 24"
ST36 36"
 Finish **WH** White
DBL Black

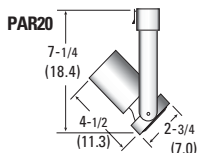
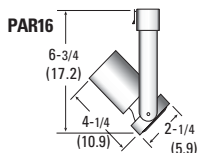


Consult factory for dimensions.



Head style **GMBR**
 Lamp designation **PAR16**^{1,2}
PAR20 (75W max.)
 Stem length N/A
 Finish **WH** White
DBL Black

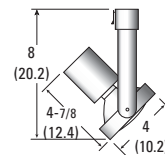
Accessories:
 Filter holder **LTGCS**³
 Lens **F400** (color)⁴
 Eggcrate louver **L400**⁴
 Barn door **LTGBD400** (color)⁵



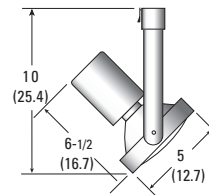
Line Voltage



Head style **GMBR**
 Lamp designation **PAR30** (75W max.)
 Stem length N/A
 Finish **WH** White
DBL Black

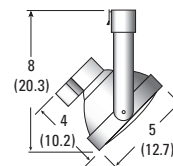


Accessories:
 Filter holder **LTGCS**³
 Lens **F500** (color)⁴
 Eggcrate louver **L500**⁴
 Barn door **LTGBD500** (color)⁵



Head style **GMBR**
 Lamp designation **PAR38** (Q250W max.)
 Stem length N/A
 Finish **WH** White
DBL Black

Accessories:
 Filter holder **LTGCS**³
 Lens **F700** (color)⁴
 Eggcrate louver **L700**⁴
 Barn Door **LTGBD701** (color)⁵



Head style **GMBR**
 Lamp designation **PAR38/3** (150W max.)
 Stem length N/A
 Finish **WH** White
DBL Black

Accessories:
 Filter holder/clips **LTGCS**³
 Lens **F700** (color)⁴
 Eggcrate louver **L700**⁴
 Barn door **LTGBD701** (color)⁵

NOTES:

- 1 Not compatible with Philips PAR16 lamp.
- 2 Accessories not available.
- 3 Available only in black. Can use two filters with clips.
- 4 Filter holder or barn door required when ordering louver or lens. For lens type (color) selection, see page 291.
- 5 Filter holders and barn doors available in white (WH) or black (DBL).

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

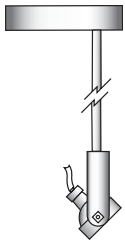
LTC

Ordering Information

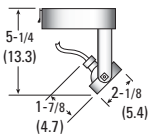
Example: **LTC GMBR PAR20 WH**

Series	Head style	Lamp designation	Shielding	Stem length	Finish
--------	------------	------------------	-----------	-------------	--------

Low Voltage (Electronic Transformer)



Consult factory for dimensions.



Head style	GMBR
Lamp designation	MR16 (75W max.) PAR36 (75W max.)
Shielding	N/A
Stem length	ST12 12" ST18 18" ST24 24" ST36 36"
Finish	WH White DBL Black

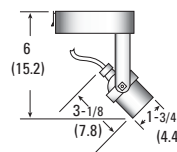
Accessories: N/A

Head style	GMBR
Lamp designation	MR16 (75W max.)
Shielding	N/A
Stem length	N/A
Finish	WH White DBL Black

Accessories:

Lens	F200 (color)
Honeycomb louver	L200
Barn door	LTGBD200 (color) ¹

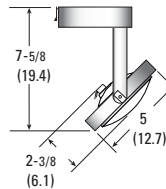
Low Voltage (Electronic Transformer)



Head style	GMBR
Lamps	MR16 (75W max.)
Shielding	BMDR Beam director ²
Stem length	N/A
Finish	WH White DBL Black

Accessories:

Lens	F200 (color)
Honeycomb louver	L200



Head style	GMBR
Lamps	PAR36 (75W max.)
Shielding	N/A
Stem length	N/A
Finish	WH White DBL Black

Accessories:

Filter holder	LTGCS³
Lens	F700 (color) ⁴
Eggcrate louver	L700⁴
Barn door	LTGBD700 (color) ¹

NOTES:

- Filter holders and barn doors available in white (WH) or black (DBL).
- Available only with MR16 lamp designation.
- Available only in black.
- Filter holder or barn door required when ordering louver or lens. For lens type (color) selection, see page 291.

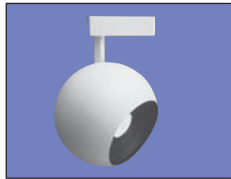
Dimensions are shown in **inches (centimeters)** unless otherwise noted.

Ordering Information

Example: **LTC GEOS PAR30 MB WH**

Series	Head style	Lamp designation	Trim type	Finish
--------	------------	------------------	-----------	--------

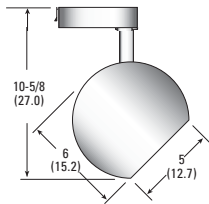
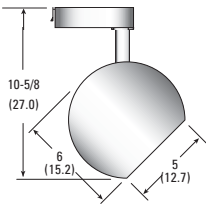
Low Voltage (Electronic Transformer)



Head style	GEOS
Lamp designation	MR16 (75W max.)
Trim type	MB Matte black baffle WB White baffle
Finish	WH White DBL Black

Accessories:

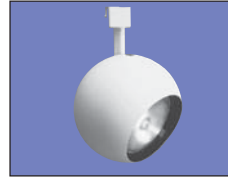
Lens	F200 (color) ¹
Honeycomb louver	L200



Head style	GEOS
Lamp designation	PAR36 (75W max.)
Trim type	N/A
Finish ¹	WH White DBL Black

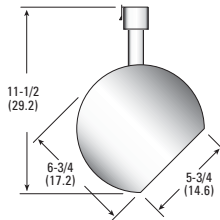
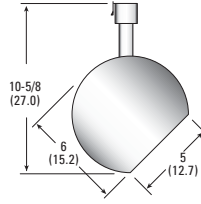
Accessories: N/A

Line Voltage



Head style	GEOS
Lamp designation	PAR30 (75W max.) ²
Trim type	MB Matte black baffle WB White baffle
Finish	WH White DBL Black

Accessories: N/A



Head style	GEOS
Lamp designation	PAR38 (Q250W max.)
Trim type	MB Matte black baffle WB White baffle
Finish	WH White DBL Black

Accessories: N/A

NOTES:

- 1 For lens type (color) selection, see page 291.
- 2 Also compatible with PAR20 lamps.

Dimensions are shown in inches (centimeters) unless otherwise noted.

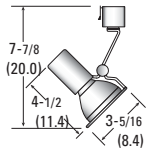
LTC

Ordering Information

Example: **LTC STPC PAR20 MB WH**

Series	Head style	Lamp designation	Trim type	Finish
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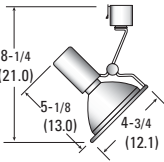
Wireform, Line Voltage



Head style	WRFM
Lamp designation	PAR20 (75W max.) ¹
Trim type	N/A
Finish	WH White DBL Black

Accessories:

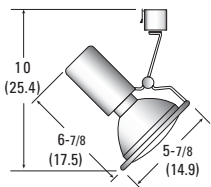
Filter holder	LTWFH400 (color) ²
Lens	F400 (color) ³
Eggcrate louver	L400 ³
Barn door	LTWBD400 (color) ²



Head style	WRFM
Lamp designation	PAR30 (75W max.)
Trim type	N/A
Finish	WH white DBL black

Accessories:

Filter holder	LTWFH500 (color) ²
Lens	F500 (color) ³
Eggcrate louver	L500 ³
Barn door	LTWBD500 (color) ²



Head style	WRFM
Lamp designation	PAR38 (Q250W max.)
Trim type	N/A
Finish	WH White DBL Black

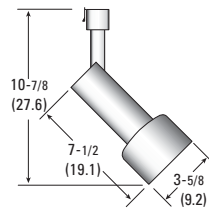
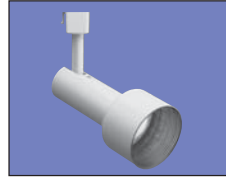
Accessories:

Filter holder	LTWFH700 (color) ²
Lens	F700 (color) ³
Eggcrate louver	L700 ³
Barn door	LTWBD700 (color) ²

NOTES:

- PAR16 compatible.
- Filter holders and barn doors available in white (WH) or black (DBL).
- Filter holder is required when ordering a louver or lens.
- Filter holder or barn door required when ordering louver or lens. For lens type (color) selection, see page 291.
- Socket extender must be used with short-neck lamps. Order TP30 SE. Shipped separately. Dimensions are shown in inches (centimeters) unless otherwise noted.

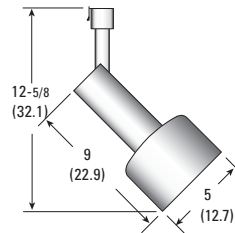
Step Cylinders, Line Voltage



Head style	STPC
Lamp designation	PAR20 (75W max.) ¹
Trim type	MB Matte black baffle WB White baffle
Finish	WH White DBL Black

Accessories:

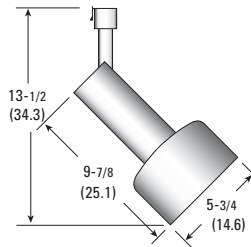
Filter holder	LTFH500 (color) ²
Lens	F500 (color) ⁴
Eggcrate louver	L500 ⁴
Barn door	LTBD500 (color) ²



Head style	STPC
Lamp designation	PAR30 (75W max.) ³
Trim type	MB Matte black baffle WB White baffle
Finish	WH White DBL Black

Accessories:

Filter holder	LTFH700 (color) ²
Lens	F700 (color) ⁴
Eggcrate louver	L700 ⁴
Barn door	LTBD700 (color) ²



Head style	STPC
Lamp designation	PAR38 (Q250W max.)
Trim type	MB Matte black baffle WB White baffle
Finish	WH White DBL Black

Accessories:

Filter holder	LTFH800 (color) ²
Lens	F800 (color) ⁴
Eggcrate louver	L800 ⁴
Barn door	LTBD800 (color) ²

Ordering Information

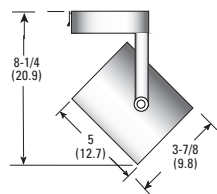
Example: **LTC SFTS PAR20 MB WH**

Series	Head style	Lamp designation	Trim type	Shielding	Finish
--------	------------	------------------	-----------	-----------	--------

Soft Square, Low Voltage (Electronic Transformer)



Head style	SFTS
Lamp designation	MR16 (50W max.)
Trim type	N/A
Shielding	N/A
Finish	WH White DBL Black

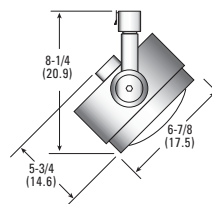


Accessories:
 Lens: **F200** (color)¹
 Honeycomb louver: **L200**

Wallwash Spread Lens, Line Voltage



Head style	WWSL
Lamp designation	PAR46/3 (200W max.) ³
Trim type	N/A
Shielding	N/A
Finish	WH White DBL Black

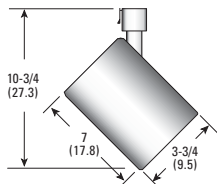


Accessories: N/A

Soft Square, Line Voltage



Head style	SFTS
Lamp designation	PAR20 (75W max.) ²
Trim type	MB Matte black baffle WB White baffle
Shielding	N/A
Finish	WH White DBL Black

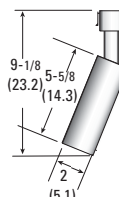


Accessories: N/A

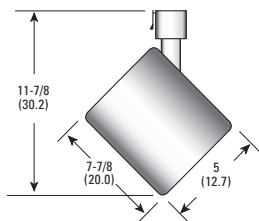
Quartz Flood, Line Voltage



Head style	QTZF
Lamp designation	T4 (150W max.)
Trim type	N/A
Shielding	N/A
Finish	WH White DBL Black



Accessories:
 Decorative visor **LTDV** (color)⁴

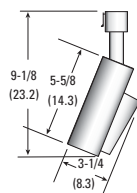


Head style	SFTS
Lamp designation	PAR30 (75W max.)
Trim type	MB Matte black baffle WB White baffle
Shielding	N/A
Finish	WH White DBL Black

Accessories: N/A



Head style	QTZF
Lamp designation	T4 (150W max.)
Trim type	N/A
Shielding	SHRD Shroud
Finish	WH White DBL Black



Accessories: N/A

NOTES:

- For lens type (color) selection, see page 291.
- PAR16 compatible.
- Also compatible with PAR38/3 (150W max.).
- Decorative visor available in white (WH) or black (DBL).

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

LTC

Ordering Information

Example: **LTC BLSP MR16 MB WH**

Series	Head style	Lamp designation	Trim type	Finish
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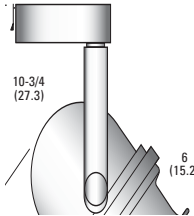
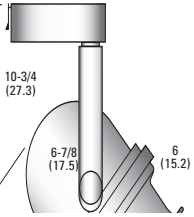
Low Voltage (Electronic Transformer)



Head style	BLSP
Lamp designation	MR16 (50W max.)
Trim type	MB Matte black baffle WB White baffle
Finish	WH White DBL Black

Accessories:

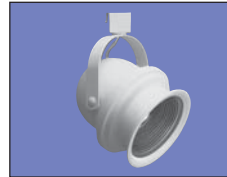
Lens	F200 (color) ¹
Honeycomb louver	L200



Head style	BLSP
Lamp designation	PAR36 (50W max.)
Trim type	MB Matte black baffle WB White baffle
Finish	WH White DBL Black

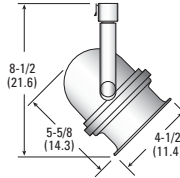
Accessories: N/A

Line Voltage



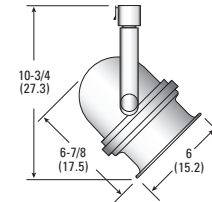
Head style	BLSP
Lamp designation	PAR20 (50W PAR20 or 75W R20 max.) ²
Trim type	N/A
Finish	WH White DBL Black

Accessories: N/A



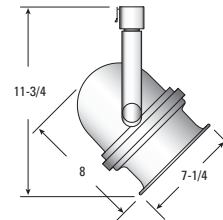
Head style	BLSP
Lamp designation	PAR30 (75W max.)
Trim type	N/A
Finish	WH White DBL Black

Accessories: N/A



Head style	BLSP
Lamp designation	PAR38 (Q250W max.)
Trim type	N/A
Finish	WH White DBL Black

Accessories: N/A



NOTES:
 1 For lens type (color) selection, see page 291.
 2 PAR16 compatible.
 Dimensions are shown in inches (centimeters) unless otherwise noted.

Ordering Information

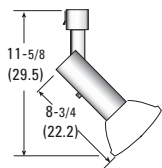
Example: **LTC LPHR PAR38 WH**

Series	Head style	Lamp designation	Trim type	Finish
--------	------------	------------------	-----------	--------

Lampholder, Line Voltage



Head style	LPHR
Lamp designation	PAR38 (Q250W max.)
Trim type	N/A
Finish	WH White DBL Black



Shown with PAR38 lamp dimensions

PAR38 lamp designation is used for all lamp types (PAR16, PAR20, PAR30 and PAR38).

Lamp type	Maximum wattage
PAR16, PAR20, PAR30	75W
PAR 38	Q250W

Accessory ordering information is lamp type specific.

Accessories:

PAR16, PAR20 N/A

PAR30

Lens	F400 (color) ¹
Eggcrate louver	L400 ¹
Hood	H400 (color) ²

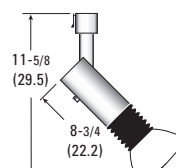
PAR38

Lens	F600 (color) ¹
Eggcrate louver	L600 ¹
Hood	H600 (color) ²

Lampholder with Bellows, Line Voltage



Head style	LPHR w/bellows (BLWS)
Lamp designation	PAR38 (Q250W max.)
Trim type	BLWS
Finish	WH White DBL Black



Shown with PAR38 lamp dimensions

PAR38 lamp designation is used for all lamp types (PAR16, PAR 20, PAR30 and PAR38).

Lamp type	Maximum wattage
PAR16, PAR20, PAR30	75W
PAR 38	Q250W

Accessory ordering information is lamp type specific.

Accessories:

PAR16, PAR20 N/A

PAR30

Lens	F400 (color) ¹
Eggcrate louver	L400 ¹
Hood	H400 (color) ²

PAR38

Lens	F600 (color) ¹
Eggcrate louver	L600 ¹
Hood	H600 (color) ²

NOTES:

1 Hood required when ordering louver or lens. For lens type (color) selection, see page 291.

2 Hood available in white (WH) or black (DBL).

Dimensions are shown in inches (centimeters) unless otherwise noted.

LTC

Ordering Information

Example: **LTC PRSD PAR30 WH**

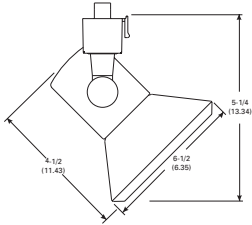
Series	Head style	Lamp designation	Trim type	Finish
--------	------------	------------------	-----------	--------

PAR Shade, Line Voltage



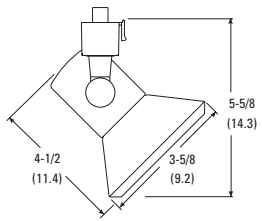
Head style **PRSD**
 Lamp designation **PAR16/38** (60W max.)
 Finish **WH** White
DBL Black

Accessories: N/A



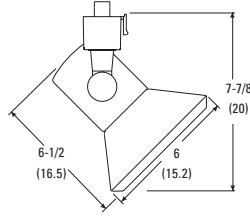
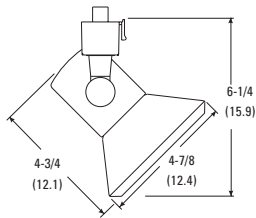
Head style **PRSD**
 Lamp designation **PAR20** (75W max.)
 Finish **WH** White
DBL Black

Accessories:
 Filter holder **LTWFH400** (color)^{1,2}
 Lens **F400** (color)²
 Eggcrate louver **L400**²



Head style **PRSD**
 Lamp designation **PAR30 3** (75W max.)
 Finish **WH** White
DBL Black

Accessories:
 Filter holder **LTWFH500** (color)^{1,2}
 Lens **F500** (color)²
 Eggcrate louver **L500**²



Head style **PRSD**
 Lamp designation **PAR38** (150W max.)
 Finish **WH** White
DBL Black

Accessories:
 Filter holder **LTWFH700** (color)^{1,2}
 Lens **F700** (color)²
 Eggcrate louver **L700**²

NOTES:

- 1 Filter holders available in white (WH) or black (DBL).
- 2 Filter holder required when ordering louver or lens. For lens type (color) selection, see page 291.
- 3 If using filter holder, use long-neck PAR30 lamp. Without filter holder, short-neck PAR30 lamp is recommended.

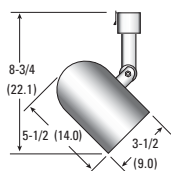
Dimensions are shown in inches (centimeters) unless otherwise noted.

Ordering Information

Example: **LTE RNDB PAR20 MB WH**

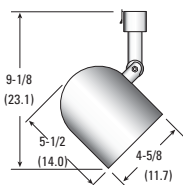
Series	Head style	Lamp designation	Trim type	Finish
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Roundback, Line Voltage



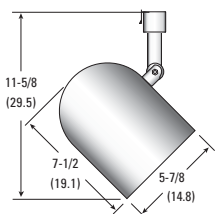
Head style	RNDB
Lamp designation	PAR20 (75W max.) ¹
Trim type	MB Matte black baffle WB White baffle
Finish	WH White DBL Black

Accessories: N/A



Head style	RNDB
Lamp designation	PAR30 (75W max.)
Trim type	MB Matte black baffle WB White baffle
Finish	WH White DBL Black

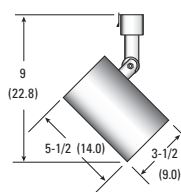
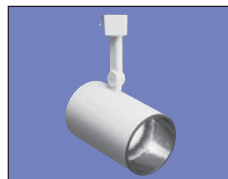
Accessories: N/A



Head style	RNDB
Lamp designation	PAR38 (150W max.)
Trim type	MB Matte black baffle WB White baffle
Finish	WH White DBL Black

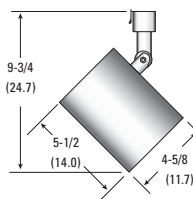
Accessories: N/A

Flatback, Line Voltage



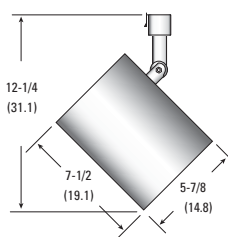
Head style	FLTB
Lamp designation	PAR20 (75W max.) ¹
Trim type	MB Matte black baffle WB White baffle
Finish	WH White DBL Black

Accessories: N/A



Head style	FLTB
Lamp designation	PAR30 (75W max.)
Trim type	MB Matte black baffle WB White baffle
Finish	WH White DBL Black

Accessories: N/A



Head style	FLTB
Lamp designation	PAR38 (150W max.)
Trim type	MB Matte black baffle WB White baffle
Finish	WH White DBL Black

Accessories: N/A

NOTES:

¹ PAR16 compatible.

Dimensions are shown in inches (centimeters) unless otherwise noted.

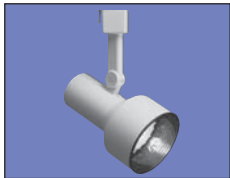
LTE

Ordering Information

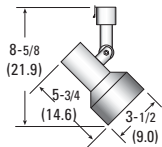
Example: **LTE STPC PAR20 MB WH**

Series	Head style	Lamp designation	Trim type	Finish
--------	------------	------------------	-----------	--------

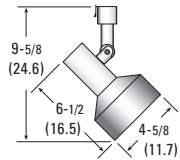
Step Cylinder, Line Voltage



Head style **STPC**
 Lamp designation **PAR20** (75W max.)¹
 Trim type **MB** Matte black baffle
WB White baffle
 Finish **WH** White
DBL Black

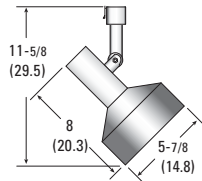


Accessories: N/A



Head style **STPC**
 Lamp designation **PAR30** (75W max.)
 Trim type **MB** Matte black baffle
WB White baffle
 Finish **WH** White
DBL Black

Accessories: N/A



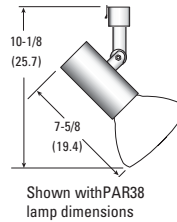
Head style **STPC**
 Lamp designation **PAR38** (150W max.)
 Trim type **MB** Matte black baffle
WB White baffle
 Finish **WH** White
DBL Black

Accessories: N/A

Lampholder, Line Voltage



Head style **LPHR**
 Lamp designation **PAR38** (150W max.)
 Trim type N/A
 Finish **WH** White
DBL Black



PAR38 lamp designation is used for all lamp types (PAR16, PAR20, PAR30 and PAR38).

Lamp type	Maximum wattage
PAR16, PAR20, PAR30	75W
PAR38	150W

Accessories: N/A

NOTES:

1 PAR16 compatible.

Dimensions are shown in inches (centimeters) unless otherwise noted.

Track

Intended Use

One- or two-circuit track sections for use with Lithonia Lighting track fixtures. Common applications include retail, grocery, museums or any application requiring accent illumination and the versatility of track lighting systems.

Features

Low-profile, heavy-gauge, extruded aluminum channel for maximum rigidity, available in white, black or aluminum finishes.

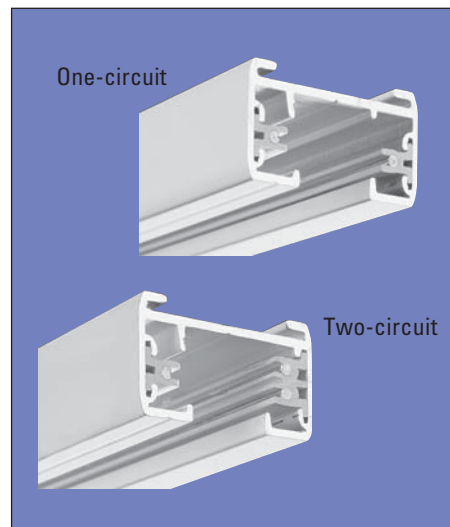
Track sections and connectors are designed to consider dimensional restrictions of T-bar grid ceilings.

Track sections can be surface- or pendant-mounted individually or joined to form continuous rows.

Electrical System – *One circuit*: One 20-amp circuit, #12 gauge copper conductors are co-extruded in PVC insulator. *Two circuit*: Two 20-amp circuits, #12 gauge copper conductors are co-extruded in PVC insulator. Two-circuit track shares one neutral.

Visible polarity line indicates proper electrical connection and mechanical alignment.

Listings – UL Listed. CSA Certified.



One-Circuit Track

Ordering Information

Example: **LT2 WH**

Series	Finish
LT2 2-foot section. Actual length 20" (50.8 cm)	WH White
LT4 4-foot section. Actual length 44" (111.8 cm)	DBL Black
LT8 8-foot section. Actual length 92" (233.7 cm)	AL Aluminum
LT12 12-foot section. Actual length 140" (355.6 cm)	

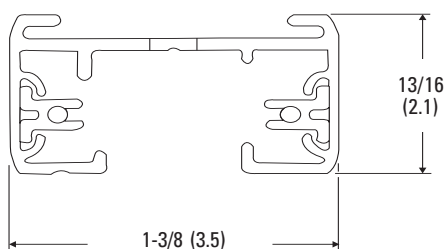
Two-Circuit Track

Ordering Information

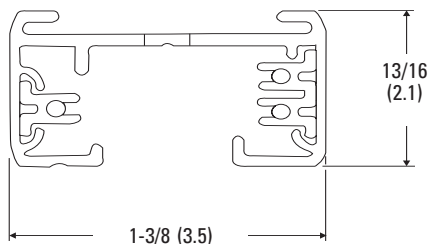
Example: **L2T4 WH**

Series	Finish
L2T4 4-foot section. Actual length 44" (111.8 cm)	WH White
L2T8 8-foot section. Actual length 92" (233.7 cm)	DBL Black
L2T12 12-foot section. Actual length 140" (355.6 cm)	AL Aluminum

One-Circuit



Two-Circuit



ORDERING/PACKAGING OPTIONS

To accommodate the product's physical configuration as well as a range of customer handling and processing needs, alternative ordering/packaging methods are available.

1 Standard Packaging (Optimized form)

To order, use single *master* catalog number
Example: (13) LT4 DBL

Track sections ship as multiple components using optimized packaging. Example above ships as:

- (Qty 12) LT4 DBL J6 (2 cartons of 6 track sections)
- (Qty 1) LT4 DBL U (1 carton of 1 track section)

2 Component Packaging

Order track sections as unit or J6 pack as per component order guide listed below.

Track sections only:
series(length of track) finish U¹ or J6

- 1. Two-circuit track sticks available in unit packs (U) only.

Dimensions are shown in inches (centimeters) unless otherwise noted.

Ordering Information¹

Example: **F 400 RR**

Series	Size
F	200³
L^{2,3}	400
	500
	600
	700
	800

Lens/Color/Type	
Dichroic Borosilicate Colors	
RED	Red
GAMB	Golden amber
YEL	Yellow
GRN	Green
CBLUE	Cool blue
MBLUE	Medium blue
CPCH	Cool peach
MGN	Magenta
CYAN	Cyan
CL	Clear
UV	UV blocking
Soda Lime Colors⁴	
RR	Ruby red
MB	Medium blue
MG	Medium green
MA	Medium amber
DB	Dark blue
MP	Medium pink

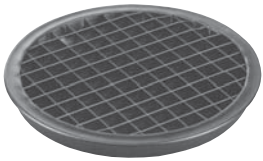
Borosilicate Beam-Shaping

PMF	Perimeter frost
LTF	Light frost
SFG	Softening

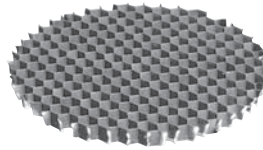
NOTES:

- 1 Ordering information for the accessories below depends on fixture type. Refer to specific fixture ordering information for details.
- 2 Not available with lens type.
- 3 Honeycomb louver available in size 200 only. Eggcrate louver available in sizes 400-800.
- 4 Borosilicate lens required when using soda lime lens or louver.

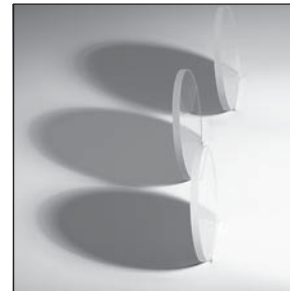
Eggcrate louver



Honeycomb louver



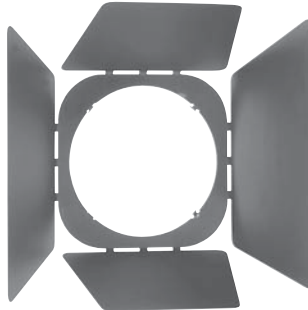
Colored lenses



LTGCS Filter holders



Barn door



Hood

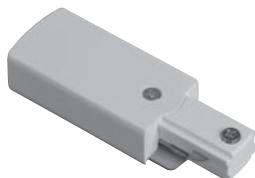


A complete selection of one-circuit and two-circuit track connectors, accessories and pendant and T-bar accessories is available for the Lithonia track system. Most components are available in white and black finish. All feature embossed polarity lines to indicate correct insertion position and electrical connection.

Live End Feed

Feed Connector used to start a run. Includes one dead end. Available in White (WH) and Black (DBL).

LTA1 (color) One-circuit
L2TA1 (color) Two-circuit

**Linear Coupler**

Joins two track sticks in a straight run. Not a feed point. Does not add to track length. Available in White (WH) and Black (DBL).

LTA2 (color) One-circuit
L2TA2 (color) Two-circuit

**Floating Feed**

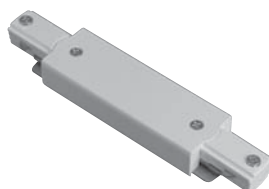
Permits track to be wired anywhere along the track length. Includes two dead ends. Available in White (WH) and Black (DBL).

LTA3 (color) One-circuit
L2TA3 (color) Two-circuit

**Straight Feed Connector**

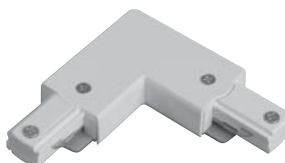
Joins two track sections in a straight run. Includes two dead ends. May be used as a feed. Available in White (WH) and Black (DBL).

LTA4 (color) One-circuit
L2TA4 (color) Two-circuit. Includes Adjustable L Feed Connector cover

**Adjustable L Feed Connector***

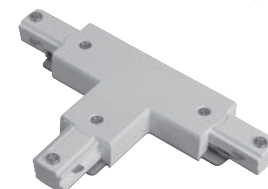
Joins two track sticks at 90° angles. Includes two dead ends. May be used as a feed. For two-circuit, use L2TA4 connector. Available in White (WH) and Black (DBL).

LTA5 (color) One-circuit
*For two-circuit, use L2TA4 connector

**T Feed Connector**

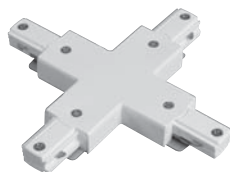
Joins three track sticks at 90° angles. Includes three dead ends. May be used as a feed. Available in White (WH) and Black (DBL).

LTA6 (color) One-circuit
L2TA6R (color) Two-circuit, right only
L2TA6L (color) Two-circuit, left only

**X Feed Connector**

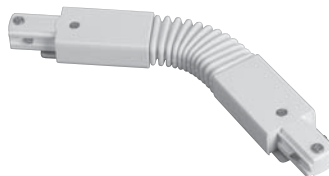
Joins four track sticks at 90° angles. Includes four dead ends. May be used as a feed. Available in White (WH) and Black (DBL).

LTA7 (color) One-circuit
L2TA7 (color) Two-circuit

**Flexible Connector**

Joins two track sections. Permits vertical or horizontal bends up to 90°. Not a feed point. Available in White (WH) and Black (DBL).

LTA8 (color) One-circuit
L2TA8 (color) Two-circuit

**Surface Conduit Feed**

Permits track to be connected to conduit. (1/2" trade size conduit fitting). Includes one dead end. Available in White (WH) and Black (DBL).

LTA9 (color) One-circuit
L2TA9 (color) Two-circuit

**Conduit Continuation Kit**

Left and right conduit connector. Allow continuous run around obstructions. Available in White (WH) and Black (DBL).

LTA91 (color) One-circuit
L2TA91 (color) Two-circuit

**Cord and Plug Feed**

Permits track to be connected to grounded outlet. Maximum 10 amps. Includes one dead end. For one-circuit track only. Consult factory for use. UL Listed to Canadian safety standards. Available in White (WH) and Black (DBL).

LTA10 (color) One-circuit

**Concealed Feed**

Permits direct conduit wiring from above track without outlet box. Use with LTA1, LTA4, LTA5, LTA6, LTA7, L2TA1, L2TA4, L2TA6R, L2TA6L & L2TA7.

LTA11



Track Accessories

Replacement Dead End

Terminates straight run. Replacement only. Available in White (WH) and Black (DBL).

LTA12 (color) Set of 10



Outlet Box Cover

Used at any feed connection points (LTA1, LTA4, LTA5, LTA6, LTA7, L2TA1, L2TA4, L2TA6R, L2TA6L & L2TA7). Available in White (WH) and Black (DBL).

LTA13 (color)



Grounded Convenience Outlet

Provides an electrical outlet on the track. Consult factory for use. UL Listed to Canadian safety standards. Available in White (WH) and Black (DBL).

LTA15 (color) One-circuit and two-circuit



Pendant Chain Adapter

Allows chain-hung or swag fixtures to be attached to track. Max. weight: 20 lbs. (9kg). Available in White (WH) and Black (DBL).

LTA16 (color) One-circuit and two-circuit



Switch Module

Allows independent switching of connected fixtures. Available in White (WH) and Black (DBL).

LTA17 (color) One-circuit and two-circuit



Line Voltage Monopoint

Converts line voltage track fixtures for direct wiring to an outlet box. For use with 120V fixtures. Available in White (WH) and Black (DBL).

LTA18 (color)



Pendant Cord Adapter

Allows cord-hung fixtures to be mounted to track. Maximum weight: 20 lbs. (9kg). Available in White (WH) and Black (DBL).

LTA19 (color) One-circuit and two-circuit



Track Mounting Clips

Optional track mounting method. Set of three. Available in White (WH) and Black (DBL).

LTA20 (color)



Low Voltage Monopoint

Converts low voltage track fixtures for direct wiring to an outlet box. Designed for use with electronic low voltage fixtures. Available in White (WH) and Black (DBL).

LTA21 (color)



Threaded Rod Mounting Clips

Allows support of the track by 1/4" threaded rod. Set of three.

Available in White (WH) and Black (DBL).

LTA30 (color)



Extension Wand

Mounts to track. Drops head 12", 18", 24", 36" or 48". Available in White (WH) and Black (DBL).

LTA31xx (color) (Specify 12, 18, 24, 36 or 48)



Track Reinforcement Plate

Slides between track lengths to provide extra strength when pendant mounting.

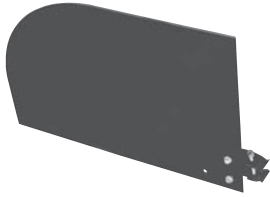
LTA33



Louver Baffle Blades

Provides lateral shielding for bare lamps. Clips to track at any point. Available in White (WH) and Black (DBL).

LTA35 (color)

**Stem Kits**

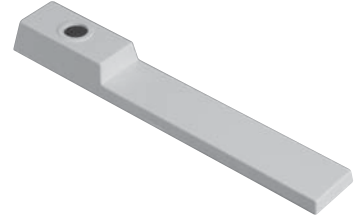
Canopy and stem for use on hard ceilings. Requires stem feed kit (LTAP2) to be used as a feed. Available in 12", 18", 24", 36" or 48". Available in White (WH) and Black (DBL).

LTAP1xx (color) (Specify 12, 18, 24, 36 or 48)

**Stem Feed Kit**

For use with stem kit. Required for track to be wired through stem. One required for each live feed. Available in White (WH) and Black (DBL).

LTAP2 (color)

**T-Bar Mounting Clips**

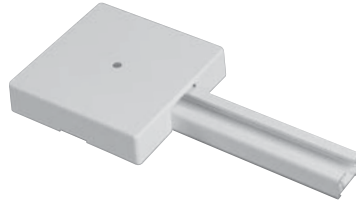
Offsets track from T-bar. Set of three. Available in White (WH) and Black (DBL).

LTAT20 (color) For 1" T-bar, 1/4" drop.
LTAT21 (color) For 1" T-bar, 1/2" drop.
LTAT22 (color) For 1/2" T-bar, 1/4" drop.
LTAT23 (color) For 1/2" T-bar, 1/2" drop.

**T-Bar Feed Kit**

Outlet box for grid ceilings. For use with LTA1, LTA4, LTA5, LTA6, LTA7, L2TA1, L2TA4, L2TA6R, L2TA6L and L2TA7. Includes outlet box, cover and mounting hardware. Available in White (WH) and Black (DBL).

LTAT1 (color)

**T-Bar Earthquake Clips**

Provides added structural support for 1" T-bar. Set of three.

LTAT32

**T-Bar Stem Kit**

Canopy and stem. Requires stem feed kit (LTAP2) and T-Bar Junction Box (LTAT25) to be a feed. Available in 12", 18", 24", 36" and 48". Available in White (WH) and Black (DBL).

LTATP1 (color) (Specify 12", 18", 24", 36" or 48")

**T-Bar Junction Box**

For use with T-Bar Stem Kit

LTAT25

**Decorative Visor**

For use with quartz QTZF fixture. Available in White (WH) and Black (DBL).

LTDV (color)



EMERGENCY SYSTEMS

Emergency Systems

Lithonia Emergency Systems manufactures a comprehensive selection of exit signs, emergency lighting units, fluorescent battery packs and emergency power systems for a wide range of commercial and industrial applications and special environments.

Our extensive product offering includes architectural, commercial and industrial models in a choice of materials and light sources. A substantial range of remote heads, options and accessories also is available.





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Photometrics 347

Precise®

LED

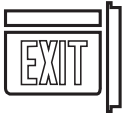


Chevron Direction

Specification (add to catalog number)	Graphics	
	Back	Front
LA		<EXIT
RA		EXIT>
LRA (single face)		<EXIT>
DA	<EXIT	EXIT>
LRA (double face)	<EXIT>	<EXIT>

Dimensions are shown in inches (millimeters) unless otherwise noted.

Panel/Trim Assembly



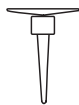
RECESSED END MOUNT
 Panel length (from wall): 13-1/2 (343)
 Panel height: 10 (254)
 Trim length: 14-3/4 (375)
 Trim height: 1-7/8 (47)
 Panel depth: 1-7/8 (47)
 Weight: 5 lbs. (2.3 kgs.)



RECESSED CEILING MOUNT
 Panel length: 13-1/4 (336)
 Trim length: 14-3/4 (375)
 Height(below ceiling): 8 (203)
 Trim width: 5 (127)
 Weight: 5 lbs. (2.3 kgs.)

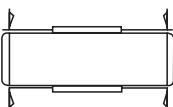


RECESSED BACK MOUNT
 Panel length: 13-1/4 (336)
 Trim length: 14-3/4 (375)
 Total height: 11-1/2 (292)
 Depth (from wall): 1-7/8 (47)
 Weight: 5 lbs. (2.3 kgs.)



TOP MOUNT
 Panel length: 13-1/4 (336)
 Trim length: 13-1/8 (333)
 Panel height: 8 (203)
 Weight: 5 lbs. (2.3 kgs.)

Rough-In Section



Length: 13-5/8 (346)
 Width: 4-1/2 (114)
 Depth: 3-1/8 (80)

Edge-Lit Exits

Intended Use

Suitable for architectural applications where aesthetics and superior performance are required.

Features

Injection-molded acrylic panels, ultrasonically welded to eliminate visible hardware.

Depth of molded letters increases toward bottom of panel for better, more uniform illumination.

Chevron directional indicators.

Long-life LEDs feature very low energy consumption and rated life up to 25 years.

Maintenance-free nickel-cadmium battery.

Recessed mounting. Extruded aluminum housing recessed into wall or ceiling for top, back or end mounting capability.

Surface top-mount (TM) option available on standard exits and attaches directly to J-box. Can be used for pendant mounting.

Special wording available; consult factory.

Listings – UL Listed. NOM Certified.

Ordering Information

Example: **LRP BS 1 RC LA 120/277 EL N EM**

Family LRP LED	Number of faces 1 Single 2 Double	Input voltage 120/277 Dual voltage	Mounting (blank) Ceiling or back EM End TM Top ³
Housing color (blank) Brushed aluminum W White B Black BZ Bronze BS Brass CR Chrome U Unfinished	Panel color letter/background RW Red on white RC Red on clear ¹ RMR Red on mirror ² GW Green on white GC Green on clear ¹ GMR Green on mirror ²	Operation (blank) Standard non-emergency EL N Nickel-cadmium battery	Item type (blank) Complete exit panel and rough-in section PNL Panel assembly only
Accessories⁴	Directional indicators (blank) No chevrons LA Left RA Right LRA Left and right DA Double-face chevrons	Certification (blank) UL Listed NOM NOM Certified	

LED ROUGH-IN SECTION⁵

Standard

ELA LCRIS 1 or 2 face red or green
ELA LCRIS 120 X2 1 or 2 face 120V w/ X2 option
ELA LCRIS 277 X2 1 or 2 face 277V w/ X2 option

Emergency

ELA R LRIS 120/277 EL N 1-face red
ELA R 2LRIS 120/277 EL N 2-face red
ELA G LRIS 120/277 EL N 1-face green
ELA G 2LRIS 120/277 EL N 2-face green

Pendant Mounting (Top TM mounting only)

ELA US12 12" pendant kit with brushed aluminum canopy

NOTES:

- 1 Single-face exits only.
- 2 Mirror background simulates clear for double-face option.
- 3 Standard exits only. No rough-in section required.
- 4 For additional options, accessories and fixture compatibility, see page 307.
- 5 Supplied standard with exit unless PNL suffix is specified. Order separately only if necessary for early installation. When ordering rough-in separately, all options must be included with rough-in nomenclature. Example: ELA LCRIS120/277FI

Electrical Application Data				
Primary Circuit				
Type	Volts	Faces	Amps	Watts
Red standard	120	1	.087	1.5
Red standard	277	1	.089	1.8
Red standard	120	2	.178	3.1
Red standard	277	2	.178	3.4
Red emergency	120	1	.093	2.3
Red emergency	277	1	.095	2.7
Red emergency	120	2	.084	3.2
Red emergency	277	2	.094	3.9
Green standard	120	1	.064	1.2
Green standard	277	1	.062	1.3
Green standard	120	2	.059	2.0
Green standard	277	2	.061	2.3
Green emergency	120	1	.066	1.7
Green emergency	277	1	.064	1.9
Green emergency	120	2	.138	3.7
Green emergency	277	2	.130	3.8

EDG LED

Intended Use

Suitable for applications requiring attractive edge-lit exit signage, universal installation and low energy consumption.

Features

Extruded brushed aluminum finish lamp housing.

Clear thermoplastic panels with precision outline engraved letters measuring 6" high with 3/4" stroke.

Mirrored separator panel to simulate clear background for double face signs. Clear panel for single face signs.

Expected LED life over 25 years.

Low energy consumption – less than 5 watts for 120V red AC only; and battery back-up.

Universal (top, end or back) mounting. Double face available with top or end mounting only (canopy provided).

Universal directional indicators. Field selected and attached.

Listings – UL listed.



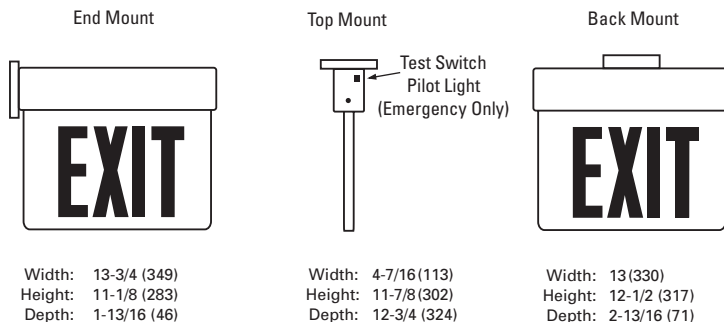
Example: EDG 1 R 120/277 EL N

Ordering Information

Family	Housing color	Number of faces	Letter color	Input voltage	Operation
EDG Surface Mount LED edge-lit	(blank) Brushed aluminum	1 Single 2 Double	R Red G Green	120/277 Dual voltage	(blank) Standard non-emergency EL N Nickel-cadmium battery

Primary Circuit			
Type	Supply voltage	Input watts	Max. amps
Red LED, AC only	120 277	3 3	0.2 0.1
Green LED, AC only	120 277	4 6	0.3 0.2
Red LED, emergency	120 277	5 5	0.4 0.2
Green LED, emergency	120 277	6 6	0.5 0.2

Dimensions are shown in inches (millimeters) unless otherwise noted. Shipping weight 4lbs. (1.81 kgs.)



Signature®

LED



Die-Cast Aluminum Exits

Intended Use

Ideal for applications requiring attractive die-cast aluminum signage, superior illumination and low energy consumption.

Features

Solid, die-cast aluminum housing – smallest sign on the market. Standard finish is brushed aluminum face with matte black housing. Other finishes available.

The self-diagnostic emergency signs comply with NFPA Life Safety Code and automatically tests the battery once a month for five minutes and once every six months for 30 minutes.

Completely concealed chevron directional indicator knockouts and mounting hardware.

Long-life LEDs feature very low energy consumption and rated life up to 25 years.

A standard red LED exit consumes only .73 watts of electricity at 120 volts.

LEDs provide uniform graphics illumination. Meets 3/4" letter stroke requirements. Maintains 100% brightness in emergency mode.

Emergency exits contain maintenance-free nickel-cadmium battery and reliable, solid-state charging system.

Universal mounting – top, back or end. Double face available with top or end mounting only (canopy included).

US patent no. 5,954,423.

Listings – UL Listed. NOM Certified.

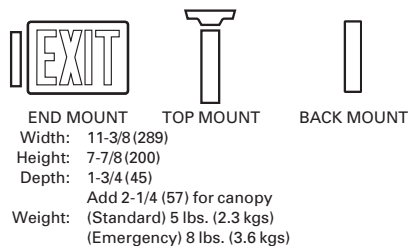
Ordering Information

Example: **LE S W 1 R 120/277 EL N SD**

Family LE LED LRE LED recessed	Housing color (blank) Matte black, brushed aluminum face BZ Dark bronze W White B Matte black	Panel color R Red G Green	Input voltage 120/277 Dual voltage	Operation (blank) Standard non-emergency EL N Nickel-cadmium battery ² EL N SD Nickel-cadmium battery with self-diagnostics	Options For options and fixture compatibility, see page 307.	Number of faces 1 Single 2 Double ²	Certification (blank) UL Listed NOM NOM Certified
Face type S Stencil P Panel ¹							

Dimensions are shown in inches (millimeters) unless otherwise noted.

LED



Recessed



Width: 12-15/16 (329)
Depth: 4 (102)
Height: 9-7/16 (240)
Weight: (Standard) 10 lbs. (4.5 kgs)
(Emergency) 13 lbs. (5.9 kgs)

Electrical Application Data					
Primary Circuit					
Type	Volts	Faces	Amps	Watts	
Standard	120	1 or 2	.04	.73	
LED red	277	1 or 2	.05	.94	
Standard	120	1 or 2	.04	1.2	
LED green	277	1 or 2	.05	1.5	
Emergency	120	1 or 2	.05	1.2	
LED red	277	1 or 2	.06	1.3	
Emergency	120	1 or 2	.05	1.6	
LED green	277	1 or 2	.06	1.8	
Emergency Circuit					
Type	Faces	Volts	Amps	Watts	Lamp No.
DC6	1 or 2	6	2	12	S6S
DC12	1 or 2	12	1	12	S6S/12
DC24	1 or 2	24	.5	12	S6S/24
DC48	1 or 2	48	.25	12	S6S/48

Accessories³ (Order separately)

ELA B US12	12" pendant kit with black canopy
ELA LEHO 120/277 N	Remote capable with black canopy. Provides 90 minutes of 10.2 watt capacity for remote head ^{4,5}

NOTES:

- For special signage only, special wording available on panel face; consult factory.
- Not available with recessed exits.
- For additional accessories, see page 307.
- Add W for white canopy.
- For use with emergency exits only.

Extreme®

LED, Incandescent

Intended Use

Suitable for cold weather (down to -40°C), hose down, wet location, security prisons and high abuse applications.

Features

Ideal for high abuse, cold weather (down to -40°C with CW option) and wet location applications such as schools, security areas/prisons and parking garages.

Durable, cast-aluminum construction. Rugged housing is .250" to .525" thick.

Clear, UV-stable polycarbonate cover is .130" thick to prevent cracking or breaking.

Secured with four stainless steel Torx T20 tamperproof screws with center pin.

Completely concealed chevron directional indicator knockouts.

LV – Long-life LEDs feature very low energy consumption and a rated life up to 25 years.

V – Two long-life 19,000 hour rated life, energy efficient incandescent lamps (145V 15T6) consume less than 11 watts per lamp.

Emergency exits contain maintenance-free nickel-cadmium battery and reliable, solid-state charging system.

UM option offers conduit entry and top, end, or back mounting. Double face available with top or end mounting only (canopy provided).

Self-diagnostics option automatically tests battery once every month and once every six months.

Vandal-resistant magnetic test switch and status indicator provide a safe, easy means of testing.

U.S. Patent No. D383,501 and 5,611,163.

Listings – UL Listed. NOM Certified. 4X option is UL Listed.



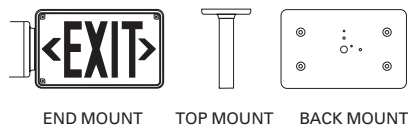
Ordering Information

Example: LV S W 1 R 120/277 UM EL N

Face type S Stencil P Panel ^{1,2,3}		Faceplate/housing color (blank) Black faceplate on black housing W White on white AB Aluminum on black AW Aluminum on white		Panel color letter/background R Red G Green WR White on red ³ RW Red on white ³ GW Green on white ³ WG White on green ³		Input voltage 120 120V ³ 277 277V ³ 120/277 Dual voltage ⁴		Operation (blank) Standard non-emergency EL N Nickel-cadmium battery ⁴		Options CW Cold weather and NEMA 4X wet location to -40°C ^{5,6} 4X UL Listed for NEMA 4X ⁶	
Family LV LED V Incandescent						Mounting (blank) Back mount UM Universal mount ⁷				Certification (blank) UL Listed NOM NOM Certified	
Number of faces 1 Single 2 Double											

Accessories (Order separately)
ELA TPS T20 Torx tamperproof bit for T20 center-pin screw

Dimensions are shown in inches (millimeters) unless otherwise noted.



Width: 13-7/8 (352)
 Height: 8-5/8 (219)
 Depth: 3 (76); add 3 (76) for canopy;
 Weight: (Standard): 11 lbs. (5 kgs.),
 (Emergency): 12 lbs. (5.5 kgs.)

- NOTES:
- Special wording available on panel face; consult factory.
 - Incandescent available with special wording in red or green.
 - Not available with LED exits.
 - Not available with incandescent exits.
 - Available with emergency exits only.
 - NEMA 4X is included with CW option.
 - Universal mount standard with conduit entry. (1/2"-14 UNC)
 - Lamp type 145V 15T6.

Electrical Application Data				
Primary Circuit				
Type	Volts	Faces	Amps	Watts
Standard LED red	120	1	.15	2.3
	120	2	.30	4.6
	277	1	.13	2.2
	277	2	.26	4.4
Standard LED green	120	1	.09	1.7
	120	2	.08	2.8
	277	1	.09	1.9
	277	2	.09	3.3
Emergency LED red	120	1	.14	3.3
	120	2	.13	4.8
	277	1	.13	3.3
	277	2	.13	5.2
Emergency LED green	120	1	.10	2.2
	120	2	.09	3.2
	277	1	.10	2.5
	277	2	.10	4.0
Incandescent ⁸	120	1 or 2	.20	24
	277	1 or 2	.11	26

Quantum®

LED Quick-Mount®



Contemporary Thermoplastic Exits

Intended Use

Ideal for applications requiring attractive, quick installation exit signs and low energy consumption.

Features

Precision-molded thermoplastic housing is impact and scratch-resistant, corrosion-proof and UV-stabilized to resist discoloration.

Innovative snap-together design allows installation in less than three minutes. Universal mounting – top, back or end.

Long-life LEDs feature very low energy consumption and rated life up to 25 years. Consumes less than one watt of energy.

Fully assembled single-face exit with optional extra faceplate for easy field conversion to double face.

Replaceable chevron directional indicator knockouts for choice of direction.

Universal mounting capability – top, back or end (canopy provided).

Automatic recharge after discharge.

Conveniently located test switch and status indicator provide visual and manual means of monitoring system operation.

The self diagnostic emergency signs comply with NFPA Lite Safety Code and automatically test the battery once a month for five minutes and once every six months for 30 minutes

U.S. Patent No. 5,526,251, 5,611,163, 5,739,639 and 5,954,423. Other patents pending.

Listings – UL Listed. NOM Certified.

Ordering Information

Example: **LQM S W 3 R 120/277 EL N**

Family	Housing color	Number of faces	Panel color	Input voltage ³	Operation	Options ²
LQM LED	(blank) Black ² W White	1 Single ² 3 Single with extra faceplate and color panel for field conversion to double-face	R Red G Green	120/277 Dual voltage	(blank) Standard non-emergency EL N Nickel-cadmium battery EL N SD Nickel-cadmium battery with self-diagnostics ⁵	For options and fixture compatibility, see page 307.
Face type						
S Stencil P Panel ^{1,2}						

Accessories	(Order separately)
ELA W US12	12" stem kit w/white canopy
ELA WGEX	Back-mount wireguard
ELA WGEXT	Top-mount wireguard
ELA WGEXE	End-mount wireguard

Electrical Application Data			
Primary Circuit			
Type	Volts	Watts	Amps
Standard LED red	120 277	.04 .05	.57 .68
Standard LED green	120 277	.05 .05	.62 .72
Emergency LED red	120 277	.04 .92	.72 .92
Emergency LED green	120 277	.04 .05	.72 .92
Emergency Circuit			
Type	Volts	Watts	Amps
DC6	6	12.2	2.03
DC12	12	12.1	1.01

Exit signage	Certification
(blank) Exit SALIDA Salida ^{2,4}	(blank) UL Listed NOM NOM Certified

- Quick-Mount Installation:**
- 1) Connect jumper leads (provided) to AC input leads in J-box. Fasten bracket and canopy to J-box.
 - 2) Remove faceplate from housing and snap housing onto canopy.
 - 3) Connect input leads to leads at corner of housing wire channel. Connect battery.
 - 4) Snap out directional chevron indicators (if necessary) and snap faceplate onto canopy.

- NOTES:
- 1 For custom signage only. Special wording available on panel face. Consult factory.
 - 2 See "with options" below for special housing dimensions.
 - 3 Some special voltages available. Consult factory.
 - 4 Letters 6" high with 7/16" stroke.
 - 5 See "SD option" below for special housing dimensions.

For additional options, accessories and fixture compatibility, see page 307.

Dimensions are shown in inches (millimeters) unless otherwise noted.

No Options:	With Options:	SD Option:
<p>ENDMOUNT TOPMOUNT BACKMOUNT</p> <p>Width: 11 (298) Height: 7-5/8 (193) (Add 7/8 (22) for canopy) Depth: 1-15/16 (49) Weight: 2.6 lbs. (1.2 kgs.)</p>	<p>ENDMOUNT TOPMOUNT BACKMOUNT</p> <p>Width: 12-1/4 (311) Height: 7-1/2 (191) (Add 7/8 (22) for canopy) Depth: 2 (51) Weight: 2 lbs. (.9 kgs.)</p>	<p>ENDMOUNT TOPMOUNT BACKMOUNT</p> <p>Width: 12-1/4 (311) Height: 10 (254) (Add 7/8 (22) for canopy) Depth: 2 (51) Weight: 2.6 lbs. (1.2 kgs.)</p>

Quantum[®]

LED Quick-Mount[®]

Intended Use

Suitable for applications requiring quick-installation of both exit sign and unit equipment. Attractive 10-inch tall, streamlined design is great for above the door applications and other tight fits.

Features

UV-stabilized thermoplastic housing resists discoloration from sunlight and man-made sources.

QUICK-MOUNT installation. Innovative, snap-together design allows for installation in less than three minutes.

Factory assembled and prewired.

Replaceable chevron directional indicator knockouts for choice of direction.

Side-mount lamp heads reduce overall height, allowing for easy fit over doorways.

Long-life LEDs feature very low energy consumption and rated life up to 25 years.

Sealed, maintenance-free, lead-calcium battery standard. Nickel-cadmium battery optional.

Top, back or end mounting (canopy included).

Optional high-output battery (HO) to power a remote head or exit.

U.S. Patent No. 5,611,163, 5,646,502, 5,526,251, 5,797,673 and D379,373. Other patents pending.

Listings – UL Listed. NOM Certified.



Example: **LHQM S W 1 R 120/277**

Ordering Information

Family	Face type	Housing color	Number of faces	Input voltage	Options	Certification
LHQM LED exit/unit	S Stencil P Panel ¹	(blank) Black W White	1 Single 3 Single with extra faceplate and color panel	120/277 Dual voltage	N Nickel-cadmium battery ² H Two 6W tungsten halogen lamps ^{2,3} HO High-output lead-calcium battery ³ RO Less lamp heads	(blank) UL Listed NOM NOM Certified
Accessories ⁴ (Order separately)		Panel color				
ELA MR24 K0606	Compact MR24 remote head (6W, 6V krypton lamp)		R Red			
ELA MR24 K0906	Compact MR24 remote head (9W, 6V krypton lamp)		G Green			
ELA NX H0606	NEMA 4X sealed-beam remote fixture (6W, 6V halogen lamp)					

NOTES:
 1 Special wording available on panel face; consult factory.
 2 Choice of H or N. Not available with both.
 3 Choice of H or HO. Not available with both.
 4 For additional accessories, see page 307.

Remote Output Capacity

Family	Standard combo	Combo/ni-cad battery (N)	Combo/halogen lamps (H)	Combo/high-output battery (HO)	Combo/no heads (RO)	Combo/no heads (RO) & high-output battery (HO)
LHQM	NA	NA	NA	11.5 W	10.8 W	22.3 W

Dimensions are shown in **inches (millimeters)** unless otherwise noted.



Width: 21-1/4 (539)
 Depth: 4 (102)
 Height: 9-7/8 (250)
 Weight: 7.36 lbs. (3.3 kgs.)

Electrical Application Data									
AC Lamp Description	Electrical			Output Volts	Standard Lamp			Catalog Number	Watts
	Volts	AC Input Amps	Watts		1.5 hrs.	2 hrs	3 hrs.		
Red LED	120	.23	3.3	6	14	10	7	MR24 K0606	5.4
	277	.23	3.3	(HO) 6	24	18	12		
Green LED	120	.23	3.3	6	14	10	7	MR24 K0606	5.4
	277	.23	3.3	(HO) 6	24	18	12		

Quantum®

Incandescent Quick-Mount®



Contemporary Thermoplastic Exits and Exit/Unit Combos

Intended Use

Ideal for applications requiring attractive, quick installation exit signs, and exit/unit combos. Streamline design of exit/unit combo is 10" tall and great for above door application.

Features

Precision-molded thermoplastic housing is impact- and scratch-resistant, corrosion-proof and UV-stabilized to resist discoloration.

Quick-mount installation. Innovative, snap-together design allows for installation in less than three minutes.

Fully assembled single-face exit with optional extra faceplate for easy field conversion to double face.

Replaceable chevron directional indicator knockouts for choice of direction.

Two long-life 19,000 hour rated life, energy efficient incandescent lamps (145V, 15T6) consume less than 11 watts per lamp.

QM

Universal mounting capability — top, back or end (canopy included).

HQM

Sealed, maintenance-free, lead-calcium battery standard.

Top or back mounting (canopy included).

Optional high-output battery (HO) to power remote head or exit.

U.S. Patent No. 5,526,251, 5,611,163, 5,739,639 and 5,954,423, 5,646,502, 5,797,673 and D379,373. Other patents pending.

Listings – UL Listed. NOM Certified.

Ordering Information

Example: **QM S W 3 R 120/277 EL**

Family	Housing color	Number of faces	Panel color	Input voltage	Options	Exit signage
QM Incandescent exit	W White	1 Single	R Red	120 120V ³	For additional options and fixture compatibility, see page 307.	(blank) Exit
HQM Incandescent exit/unit		3 Single with extra faceplate and color panel	G Green	277 277V ³		SALIDA Salida
	Face type		WR White on red ²	120/277 Dual voltage		
	S Stencil		RW Red on white ²		Operation	Certification
	P Panel ¹		GW Green on white ²		(blank) Standard non-emergency	(blank) UL Listed
			WG White on green ²		EL Lead-calcium battery ⁵	NOM NOM Certified
			R/G Extra color panels (red and green)			

Primary Circuit			
Type	Volts	Amps	Watts
Standard incandescent ⁴	120	.22	22.4
	277	.22	22.4
Emergency incandescent ⁴	120	23	27
	277	12	30

NOTES:

- 1 Special wording available on panel face QM incandescent only; consult factory
- 2 Available with QM panel face only.
- 3 Available with standard exits only.
- 4 Lamp type 145V, 15T6.
- 5 Exit/Unit combo standard with battery.
- 6 For additional accessories, see page 307.

Electrical		Standard Lamp						
Volts	AC Input Amps	Watts	Output Volts	Output Watts			Catalog Number	Watts
				1.5 hrs.	2 hrs.	3 hrs.		
120	.28	23	6	18	13	9	CDSN0606	5.4
277	.26	20	(HO) 6	24	18	12		

Accessories⁶ (Order separately)

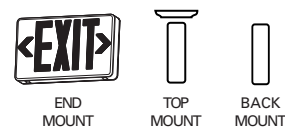
- ELA CDS N0606** Compact designer square remote fixture (6W, 6V incandescent)
- ELA CDS H0606** Compact designer square remote fixture (6W, 6V halogen)
- ELA CDS N0806** Compact designer square remote fixture (8W, 6V incandescent)
- ELA NX H0606** NEMA 4X sealed-beam remote fixture (6W, 6V halogen)

Quick-Mount Installation:

- 1) Connect jumper leads (provided) to AC input leads in J-box. Fasten canopy to J-box bracket.
- 2) Remove faceplate from housing and snap housing onto canopy.
- 3) Connect input leads to leads at corner of housing wire channel. Connect battery.
- 4) Snap out directional chevron indicators (if necessary) and snap faceplate onto canopy.

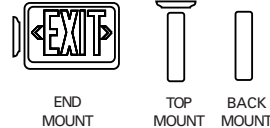
Dimensions are shown in inches (millimeters) unless otherwise noted.

QM standard



Width: 12-1/4 (311)
 Height: 7-1/2 (191)
 (add 7/8 (22) for canopy)
 Depth: 2 (51)
 Weight: 2 lbs. (.9 kgs.)

QM emergency



Width: 13 (330)
 Height: 9-7/8 (250)
 (add 7/8 (22) for canopy)
 Depth: 2-5/8 (67)
 Weight: 5.4 lbs. (2.4 kgs.)

HQM



Width: 22-3/4 (578)
 Height: 10-1/4 (260)
 Depth: 4 (102)
 Weight: 9.51 lbs. (4.3 kgs.)

Die-Formed Steel Exits

Intended Use

Suitable for applications requiring heavy duty steel exit signage such as a light industrial warehouse or manufacturing facility.

Features

Heavy-gauge, die-formed steel housing. Impact-resistant color panels.

Knockout chevrons for choice of direction. Long-life LEDs feature very low energy consumption and rated life up to 25 years. Universal mounting — top, back or end (canopy included).

Listings – UL Listed. NOM Certified.

Ordering Information

Example: **LX S W 1 R 120/277 EL N**

Family LX LED	Face type S Stencil P Panel ¹	Number of faces 1 Single 3 Single with extra faceplate and color panel
Housing color (blank) Matte black W White		

Panel color R Red G Green	Operation (blank) Standard non-emergency EL N Nickel-cadmium battery
Input voltage 120/277 Dual voltage	



Titan[®]
LED

Options For additional options and fixture compatibility, see page 307.	Certification (blank) UL Listed NOM NOM Certified
---	---

Dimensions are shown in **inches (millimeters)** unless otherwise noted.

LED	STANDARD/EMERGENCY Width: 11-1/2 (292) Height: 7-7/8 (200) Depth: 2-1/2 (64) (Add 7/8 (22) for canopy) Weight: 5 lbs. (2.2 kgs.)
------------	--

Accessories²	(Order separately)
ELA B US12	12" stem kit with black canopy.

- NOTES:**
- 1 Special wording available on panel face; consult factory.
 - 2 For additional accessories see page 307.

Electrical Application Data			
Primary Circuit			
Type	Volts	Amps	Watts
Standard	120	.04	.57
LED red	277	.05	.68
Standard	120	.05	.62
LED green	277	.05	.72
Emergency	120	.04	.72
LED red	277	.05	.92
Emergency	120	.04	.72
LED green	277	.05	.92

Self-Luminous Exits

Intended Use

Ideal for applications where electrical power cannot be provided.

Features

Tritium-filled gas tubes require no electrical input and are rated for 10 or 20-year life.

Universal directional indicators and mounting (canopy included).

Completely sealed housing. Explosion-proof/hazardous location. Suitable for wet locations. Tamperproof mounting hardware included. 10 or 20-year total customer warranty (varies with luminous life option chosen).

Listings – UL Listed.

Ordering Information

Example: **D S W 1 R**



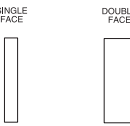
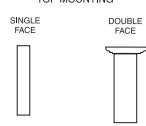
Family D Self-luminous	Number of faces 1 Single 2 Double	Faceplate color R Red G Green	Luminous life (blank) 10 years 20 20 years	Options VR Vandal shield ^{1,2,4} AA Aluminum anodized frame ³ IF Institutional frame ⁴
Face type S Stencil	Housing color (blank) Black W White AL Aluminum			

- NOTES:**
- 1 Only available in single face.
 - 2 Only available with aluminum housing color.
 - 3 Available in all housing colors.
 - 4 Consult factory for dimensional details.

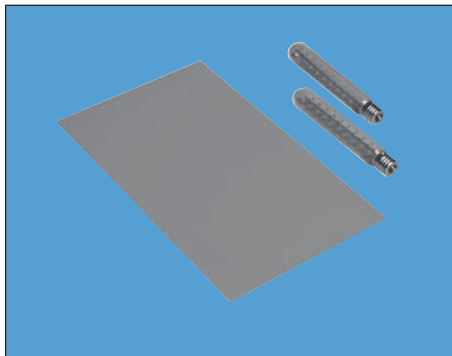
Self-Luminous



Dimensions are shown in **inches (millimeters)** unless otherwise noted.

Plastic Frame	Option AA (Aluminum Anodized)
	
TOP MOUNTING	END MOUNTING
	
Width: 14-3/16 (360)	Width: 12-3/4 (324)
Height: 9-5/8 (244)	Height: 8-1/4 (209)
Depth: Single - 1-1/2 (38) Double - 3 (76)	Depth: Single - 1-1/2 (38) Double - 2-11/16 (68)
Weight: Single - 3 lbs. (1.4 kgs.) Double - 6 lbs. (2.8 kgs.)	Weight: Single - 4 lbs. (1.8 kgs.) Double - 8 lbs. (3.6 kgs.) (Canopy provided with double face only)

Merlin™



Universal LED Exit Retrofit Kit

Intended Use

The Merlin LED exit retrofit kit makes energy and maintenance costs disappear. With Merlin, virtually any stencil-face incandescent exit 120V or 277V with step-down transformer; standard or emergency; single or double face; top, end or back mount) can be upgraded to an energy-efficient LED sign. The LED light tubes simply install into the existing sockets. Each LED light tube consumes only *one watt* of energy, and the LEDs feature a rated life up to 25 years.

Features

Compatible with 120V or 277V (with step-down transformer) stencil-face incandescent exits.

Long-life LEDs – rated life up to 25 years.

Each LED light tube consumes only one watt of energy (two LED light tubes included in each kit).

Quick installation. LED light tubes screw into existing sockets.

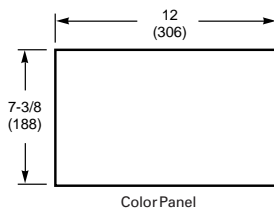
Optional LED red diffuser enhances exit illumination.

U.S. Patent No. 5,463,280.

Ordering Information

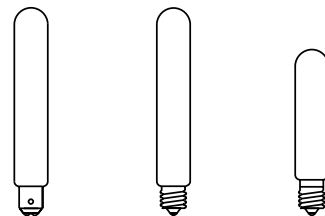
Example: **LRK IN**

Family	Socket base type
LRK LED retrofit kit (two LED light tubes)	IN Intermediate
	DB Double-contact bayonet
	CA Candelabra



Accessories (Order separately)

Cat. Number	Description
ELA LRD M6	One carton of six red LED color panels (merchandise packaging) ¹
ELA LRD M24	Four cartons of six red LED color panels (merchandise packaging) ¹
ELA LRD BP	One red LED color panel (bulk-style packaging) ¹



Double-Contact Bayonet Base	Intermediate Base	Candelabra Base
Height: 5-1/2 (140) Diameter: 13/16 (21)	Height: 5-1/2 (140) Diameter: 13/16 (21)	Height: 4-1/2 (114) Diameter: 13/16 (21)

NOTES:

- Optional LED red diffuser enhances exit illumination.
- Based on two LED light tubes.

Electrical Application Data ²		
Volts	Amps	Watts
120	.06	2

Custom Signage

Lithonia Lighting can create special signage to suit almost any request. A picture or reproduction of the image along with the special wording is all that is required. The Precise®, Signature® and Quantum® exit families will allow special wording using standard light sources, including LED. Add special wording to end of catalog number; add "M" before special wording.

Ordering Information

Example: **LE P 1 R 120/277 M "X-RAY IN USE"**

Common Special Wording¹

Arabic/English	Handicap Symbol/Women	Restrooms
Area of Refuge ²	Laser in Use	Room in Use
Area of Rescue Assistance ²	Meeting in Progress	Salida
Danger Keep Out	Men	Sortie
Darkroom in Use	No Exit	Stairs ²
Elevator	No Smoking	Stairway
Fire Escape ²	Not an Exit	To Exit ²
Handicap Symbol	On Stage	Women
Handicap Symbol/Exit ²	On the Air	X-Ray in Use
Handicap Symbol/Men	Recording	

PANEL-FACE OPENING	
Family	Dimensions
Precise ³	12-1/2" x 7-1/4"
Signature	8-5/8" x 6"
Quantum	8" x 6-1/8"

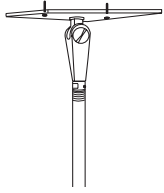


NOTES:

- If picture or foreign language is required, send reproduction of image to factory.
- Consult factory for ADA, NFPA or UL legal legend size.
- Directional indicators must be specified. See page 298.

Stem Kits¹

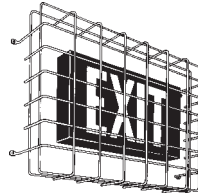
ELA US12



Signature LE standard or emergency and Precise LRP with TM option, Quantum, Titan LED incandescent.

Wireguards²

- ELA WGXG** Back-mount wireguard (shown) 13 $\frac{5}{8}$ "W x 13 $\frac{5}{8}$ "H x 4 $\frac{3}{4}$ "D
- ELA WGXET** Top-mount wireguard 14"W x 10"H x 5"D
- ELA WGXEXE** End-mount wireguard 15"W x 11"H x 4 $\frac{3}{4}$ "D
- ELA WGHQM** Back mount for LHQM/HQM combo 28" W x 15" H x 8" D

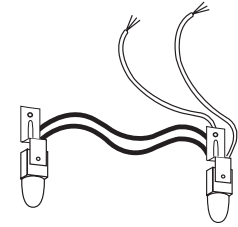


DC Input Kits³

LED Signature® Series

ELA LEDC6⁴

6V 12W kit



NOTES:

- 1 Stem color is brushed aluminum. Standard canopy color is brushed aluminum. To order white or black canopy, add **W** or **B** to catalog number. For other lengths, replace 12 with appropriate stem length in inches. Example: ELA **W US24**.
- 2 See page 320 for additional wireguard information.
- 3 Supplemental emergency circuits designed for normally off operation only.
- 4 For other voltages, replace DC6 with DC12, DC24, or DC48.

Exit Options and Compatibility — UL Listed Products

	EL	N	SD	DC6	DC12	X2	F	FA	FI	HO	DL	TP	VR
LE				■	■	■ ¹			■ ²		■	■	■
LE EL N		□	■				■	■	■		■	■	■
LRE				■	■	■ ¹			■ ²		■	■	■
LRE EL N		□	□				■	■	■		■	■	■
QM									■				
QM EL	□						■	■	■				
LQM				■	■	■			■ ²		■		
LQM EL N		□	■				■	■	■		■		
HQM	□									■			
LHQM	□	■					■	■	■	■			
LRP						■ ¹			■				
LRP EL N		□					■	■	■				
LX									■				■
LX EL N		□					■	■	■				■
V						■ ¹			■		■	□	□
LV						■ ¹			■		■	□	□
LV EL N		■	■				■		■		■	□	□

Option	Descriptions
EL	Lead-calcium battery
N	Nickel-cadmium battery ⁵
SD	Self-diagnostics ^{2,5}
DC6	6V DC incandescent emergency lamps ³
DC12	12V DC incandescent emergency lamps ³
X2	Lamps wired on two separate circuits ^{3,4}
F	Flashing emergency operation ^{2,5}
FA	Flashing and audible emergency operation ^{2,5}
FI	Fire alarm flashing interface
HO	High-output battery ⁴
DL	UL Listed for damp locations
TP	Tamperproof torx-head screws
VR	Vandal-resistant shield (polycarbonate, .1" thick)

NOTES:

- 1 Must specify input voltage.
- 2 Not available with DC6, DC12 or X2 options.
- 3 Supplemental emergency circuits designed for *normally off* operation only. Do not operate primary and emergency circuits concurrently.
- 4 Not available with flashing option.
- 5 Only available with exits containing battery.

Exit Replacement Batteries — UL Listed Products

	ELB06042 lead-calcium L: 2-3/4 (70) W: 1-7/8 (48) H: 4-1/8 (102)	ELB0607 lead-calcium L: 4 (102) W: 1-1/2 (38) H: 6 (152)	ELB0610 lead-calcium L: 6 (152) W: 2 (51) D: 4 (102)	ELB 1P201N nickel-cadmium L: 1-5/8 (43) Dia: 3/4 (19)	ELB 4814N nickel-cadmium L: 3-1/2 (89) W: 1 (25) H: 1-3/4 (44)	ELB0604N nickel-cadmium L: 3-7/8 (98) W: 2-3/8 (60) H: 2-3/8 (60)	ELB 0701N nickel-cadmium L: 5-1/4 (133) W: 1 (25) H: 1-3/4 (44)	ELB1201N nickel-cadmium L: 1-5/8 (43) Dia: 3/4 (19)
QM EL/X EL	■					■ ³		
LHQM ¹ /LQM EL ²								
FQM EL/FX EL	■					■ ³		
LHQM ¹ /HQM		■	■ ⁵					
LQM EL N ⁶ /LX EL N				■				
LQM EL N ⁷ /LE EL N ⁸								■
LV EL N					■ ⁹		■ ¹⁰	

Not all batteries and equipment are shown. Consult factory for additional requirements. All dimensions are **inches (millimeters)**.

NOTES:

- 1 Series 15-16
- 2 Series 10-12
- 3 With N option
- 4 Series 10-14
- 5 With HO option
- 6 Series 30
- 7 Series 20-23
- 8 Series 20-21
- 9 Single face, no options
- 10 Double face, no options

Die-Cast Architectural Emergency Lighting Units

Intended Use

Provides a minimum of 90 minutes illumination for the rated wattage upon loss of AC power. Ideal for applications requiring attractive unit equipment.

Construction

Compact, low-profile, architectural design with die-cast aluminum housing that has a contemporary brushed nickel-plated finish. Other available finishes are textured polyester powder coat paint in white, black and dark bronze.

U.S. Patent No. D468,046.

Two 6W wedge-base xenon lamps offer 55 percent more light output than standard incandescent lamps.

Patent-pending reflector/refractor design features superior vac-metalized, die-casted reflectors; and multi-faceted, highly transmissive refractor that significantly improve photometrics.

Maintenance-free lead-calcium battery (as a standard). Nickel-cadmium optional.

Dual-voltage input capability (120/277V).

Low-profile, integrated test switch/pilot light located below the lens.

Rigid conduit entry provision on top of the unit.

Remote version available for exterior use. Ideal for exit discharge applications.

Listing – UL listed. Wet location (EXT) listed. Damp location (PREM,EXT) listed. Cold Weather (EXT) listed. Meets UL 924, NFPA 101, NFPA 70-NEC and OSHA illumination standards.

NEW



Ordering Information

Example: **AFN BN PREM**

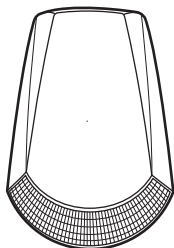
Family AFN	Input Voltage (blank) 120/277V	Finish W White B Black BN Brushed nickel DB Dark bronze ¹	Option Packages (blank) Features lead-calcium battery PREM Features nickel-cadmium battery, self-diagnostics and damp location 0° to 50°C (32° to 122°F) EXT Features high-temperature nickel-cadmium battery listed from -18° to 50°C (0° to 122°F), self-diagnostics, damp and wet location ²
----------------------	-----------------------------------	--	---

- NOTES:
- Dark bronze can only be ordered with the exterior package. This finish is not available on other units.
 - Exterior package available in dark bronze only.
 - Only available in dark bronze with the wet location and cold weather listing (-40°C to 60°C).
- For fixture performance charts, see page 346.

Accessories (Order separately)

ELA AFNR DB Remote fixture (less batteries and electronics) to be powered by 6V battery equipment as part of an emergency lighting system (listed from -40°C to 60°C)³

Dimensions are shown in inches (millimeters) unless otherwise noted.



Width: 6-1/2 (165)
Depth: 2-7/10 (69)
Height: 9-1/2 (241)
Weight: 3.5 lbs. (1.59 kgs.)

	Electrical Application Data				
	AC Input		Output Volts	Output Watts	
	Volts	Amps		Watts	1½ hrs
AFN	120 277	.11 .12	1.1 1.3	6	12
AFN PREM	120 277	.15 .14	1.4 1.4	6	12
AFN EXT	120 277	.23 .25	2.1 3.5	6	12

Quantum®

ELM/ELM2
6ELM2/ELM4/ELM10
Quick-Mount®

Intended Use

Provides a minimum of 90 minutes of illumination for the rated wattage upon loss of AC power. Ideal for applications requiring attractive unit equipment with quick installation.

Features

White, compact low profile contemporary design with high-impact thermoplastic housing that is impact-resistant, scratch-proof, corrosion-proof, UV-stable to resist discoloration from artificial light sources or sunlight.

Maintenance-free lead-calcium battery.

Two 5.4W wedge-based krypton lamps (ELM/ELM2) offer 32 percent more light output than standard incandescent lamps.

Patent-pending MR24, multi-faceted reflector (ELM2) significantly improves photometric performance - 60 to 100 percent more light delivered to the path of egress.

Dual-voltage input capability (120/277V)
Edge connectors on printed circuit board ensure long-term durability.

Unique track-and-swivel arrangement permits full range of direction of lamp head adjustment (except ELM). Universal J-box mounting pattern. Tool-less access for maintenance. Flexible conduit entry provision on top of the unit.

Quick-Mount® snap-together construction permits installation in three easy steps in less than three minutes. (ELM/ELM2)

Vandal-resistant ELA VS (ELM/ELM2) and ELA VS2 (6ELM2/P,ELM4,ELM10) polycarbonate shield available.

Wall or ceiling mounted. (ELM/ELM2)

Quantum Series 6ELM2P, ELM4 and ELM10 will power a variety of remote devices up to rated wattage of fixture.

Listings – UL Listed. NOM Certified/ (see options).



Ordering Information

Example: **6ELM2 SSB AM**

Option	Descriptions
SD	Self-diagnostics
B	Black housing
N	Maintenance-free nickel-cadmium batteries
RO	Less lamp heads
H	8W halogen lamps
SSB	Square sealed-beam lamp heads
TD	Integral time delay (12V only)
DL	Damp location
CSR	8-foot cordset attached (120V ELM only)
NOM	NOM Certified

Catalog Number	DL	SD	B	N	RO	H	SSB	TD	CSR	NOM	Cat. No.	Watt/Lamp
ELM	■								■	■	MR24 K0606	5.4
ELM2	■	■	■ ¹							■	MR24 K0606	5.4
6ELM2			■	■	■	■	■			■	CDS N0806	7.2
6ELM2P			■	■	■	■	■			■	CDS N0806	7.2
ELM4		■ ²	■	■	■	■	■			■	CDS N1212	12
ELM10			■	■	■	■	■			■	CDS N1212	12

NOTES:

- 1 Black ELM2 not available with damp location option.
- 2 SD option not available with N, AM, VM, LD or HC.

For additional lamp heads, remote fixtures, options and accessories, see pages 319-321.

For application guidelines and fixture performance data, see pages 344-351.

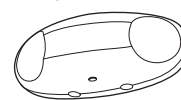
ELM/ELM2 Quick-Mount Installation:

- 1) Feed leads through mounting plate and make connections to AC power supply.
- 2) Align mounting plate on J-box and secure with screws.
- 3) Connect battery and snap housing onto mounting plate.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (millimeters)** unless otherwise noted.

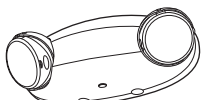
ELM

Width: 11-1/2 (292)
Depth: 8-1/2 (215)
Height: 5 (127)
Weight: 3.0 lbs. (1.4 kgs.)



ELM2

Width: 12-1/2 (317)
Depth: 3-3/4 (95)
Height: 5 (127)
Weight: 4.0 lbs. (1.8 kgs.)



6ELM2/6ELM2P

Width: 16-1/4 (413)
Depth: 5-3/8 (137)
Height: 5 (128)
Weight: 7.5 lbs. (3.4 kgs.)
6ELM2: 7.5 lbs. (3.4 kgs.)
6ELM2P: 7.5 lbs. (3.4 kgs.)



ELM4

Width: 18-1/2 (470)
Depth: 6-1/4 (158)
Height: 7-1/2 (191)
Weight: 13 lbs. (5.9 kgs.)



ELM10

Width: 17-3/4 (451)
Depth: 7-1/4 (184)
Height: 8-7/8 (225)
Weight: 29.5 lbs. (13.4 kgs.)



	Electrical Application Data							
	AC Input			Output Volts	Output Watts			
	Volts	Amps	Watts		1½ hrs	2 hrs	3 hrs	4 hrs
ELM	120 277	.11 .12	1.2 1.5	6	12	—	—	—
ELM2	120 277	.11 .12	1.2 1.5	6	12	—	—	—
6ELM2	120 277	.167 .072	20 20	6	16	12	8	6
6ELM2P	120 277	.167 .072	20 20	6	24	18	12	9
ELM4	120 277	.250 .108	30 30	12	50	37	25	18
ELM10	120 277	.250 .108	30 30	12	125	93	62	46

ELR



Ordering Information

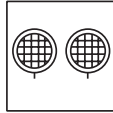
Catalog Number	OPTION SUFFIXES								STANDARD LAMP			Watts/Lamp
	SD	N	RO	H	CDS	N1812	N2512	H1212	TD	NOM	Cat. No.	
ELR2		■	■	■	■					■	N0806	8
ELR2P N		□	■	■	■					■	N0806	8
ELR4	■		■	■	■	■	■	■	■	■	N1212	12

■ Option □ Standard

Dimensions are shown in inches (millimeters) unless otherwise noted.

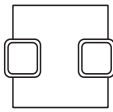
PAR36

Length: 11-15/16 (303)
 Width: 11-15/16 (303)
 Depth: 5-7/8 (149) below ceiling plane
 Weight: (ELR2) 16 lbs. (7.3 kgs.)
 (ELR4) 22.5 lbs. (10.2 kgs.)



COMPACT DESIGNER SQUARE

Length: 11-15/16 (303)
 Width: 13-3/8 (340)
 Depth: 2-3/4 (70) below ceiling plane
 Weight: (ELR2 CDS) 15 lbs. (6.8 kgs.)
 (ELR4 CDS) 22.5 lbs. (10.2 kgs.)



Recessed Emergency Lighting Units

Intended Use

Provides a minimum of 90 minutes of illumination for the rated wattage upon loss of AC power. Ideal for applications that require attractive unit equipment or when wall mounting is undesirable.

Features

Heavy-duty recessed housing suitable for use in air-handling plenums. PAR36 lamp heads standard; Compact Designer Square lamp heads optional.

Sealed, maintenance-free battery (lead-calcium standard, nickel-cadmium optional) provides capacity for 90 minutes of emergency illumination.

Sturdy T-bar clips secure unit to grid members.

Adjustable bar hangers for easy mounting in walls and exposed or concealed suspended ceilings.

Listings – UL Listed. NOM Certified (see options).

Example: ELR2 CDS AM

Special voltages/frequencies available; consult factory. For additional lamp heads, remote fixtures, options and accessories, see pages 319-321. For application guidelines, see page 326-327.

Option Descriptions

- SD** Self diagnostic (ELR4 only)
- N** Maintenance-free nickel-cadmium batteries
- RO** Less lamp heads
- H** 6V/8W or 12V/8W halogen lamps
- CDS** Compact Designer Square lamp heads
- N1812** 18W/12V incandescent lamps
- N2512** 25W/12V incandescent lamps
- H1212** 12W/12V incandescent lamps
- TD** Time delay (12V only)
- NOM** NOM Certified

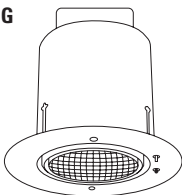
	Electrical Application Data							
	AC Input		Output		Output Watts			
	Volts	Amps	Watts	Volts	1½ hrs	2 hrs	3 hrs	4 hrs
ELR2	120	.167	20	6	16	12	8	6
	277	.072	20					
ELR2P N	120	.167	20	6	24	18	12	9
	277	.072	20					
ELR4	120	.250	30	12	50	37	25	18
	277	.108	30					

ELRG



Dimensions are shown in inches (millimeters) unless otherwise noted.

ELRG



Length: 8-3/8 (213)
 Width: 8-3/8 (213)
 Depth: 8-1/4 (210)
 Weight: 6.5 lbs. (3 kgs.)

Recessed Gimbal Emergency Lighting Unit

Intended Use

Provides a minimum of 90 minutes of illumination for the rated wattage upon loss of AC power. Ideal for applications requiring unobtrusive emergency lighting.

Features

Matte white baked enamel finish. All-metal housing and gimbal assembly.

High-output, 8W halogen lamp. Lamp ad-

justs in two planes to 26°.

Low-profile pilot light and test switch.

Approved for use in air-handling plenums.

Maintenance-free lead-calcium battery.

Mounts in 6" diameter opening.

UL Listed. NOM Certified.

Ordering Information

Catalog Number	Description
ELRG	6V, self-contained recessed gimbal
ELRG NOM	NOM Certified

Example: ELRG

	Electrical Application Data		
	AC Input		Watts
	Volts	Amps	
ELRG	120	.052	5.8
	277	.023	5.9

Contemporary Square Emergency Lighting Units

Intended Use

Provides a minimum of 90 minutes of illumination for the rated wattage upon loss of AC power. Ideal for applications requiring unobtrusive emergency lighting. Available flushed, semi-recessed or recessed.

Features

Maintenance-free lead-calcium (standard) or nickel-cadmium (optional) battery.

Push-to-test switch and "ready" light behind lens.

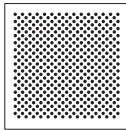
10W or two 8W (with 2L option) halogen lamp provides high lumen output.

Listings – UL Listed. NOM Certified (see options).

Ordering Information Example: ELSQ N LEX

Catalog Number	OPTION SUFFIXES						STANDARD LAMP		
	NOM	N	AM	VM	CS	2L	LEX	Cat No.	Watts/Lamps
ELSQ	■	■	■ ¹	■ ¹	■		■	787	10
ELSQM	■	■ ²	■ ¹	■ ¹	■	■ ²	■	787	10

Dimensions are shown in inches (millimeters) unless otherwise noted.



Length: 10-5/16 (262)
Width: 10-5/16 (262)
Depth: 3-7/16 (87)
Weight: 5 lbs. (2.3 kgs.) ELSQ
7 lbs. (3.2 kgs.) ELSQM

Option	Descriptions
N	Maintenance-free nickel-cadmium batteries
AM	Ammeter ¹
VM	Voltmeter ¹
CS	3-foot cordset (120V only)
LEX	Polycarbonate lens (standard with 2L option)
2L	Two 8 watt lamps with Lexan lens and high charge indicator (ELSQM only) ²
NOM	NOM Certified

	Electrical Application Data					
	Volts	AC Input Amps	Watts	Output Volts	Output Watts	
					1½ hrs	2 hrs 3 hrs
ELSQ	120	.167	20	6	10	—
	277	.072	20			
ELSQM	120	.167	20	6	20	16 10
	277	.072	20			

Accessories (Order separately)

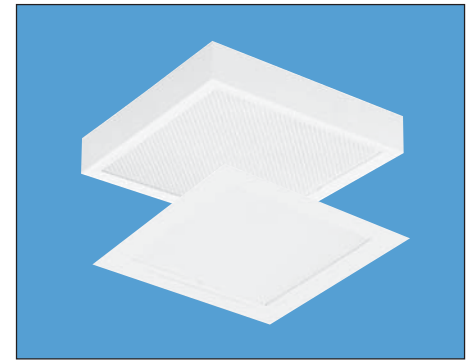
RECESSING KITS

Catalog Number	Description	Fixture	Compatibility
		ELSQ	ELA SQR 6V ³
ELA SRK	Semi-recessed	■	■
ELA FRK	Fully-recessed	■	■

NOTES:

- Choice of VM or AM. Not available with both.
- 2L option is UL Listed for a two-hour run time. Not available with nickel-cadmium option.

For additional lamp heads, remote fixtures, options and accessories, see pages 319-321. Special voltages/frequencies available; consult factory.



ELSQ

Contemporary Cylinder Emergency Lighting Units

Intended Use

Provides a minimum of 90 minutes of illumination for 12 watts upon loss of AC power. Designed for environments requiring decorative emergency lighting fixtures.

Features

Black 16-gauge steel backplate and housing.

Contemporary white cylinder shroud with UV-stabilized high-temperature plastic optical lens.

Sturdy adjustable cast-aluminum swivel.

One 8W halogen wedge-base lamp (single) or two 6W halogen wedge-base lamps (twin).

Wall or ceiling mount.

Dual-voltage input (120V/277V).

Sealed, maintenance-free lead-calcium battery provides 12W rated capacity.

UL Listed.

Ordering Information

Base Catalog Number	Description
ELCC 120/277	Single lamphead cylinder emergency light
ELCC T 120/277	Twin lamphead cylinder emergency light

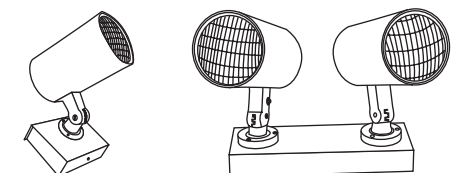
Example: ELCC T 120/277

	Electrical Application Data					
	Volts	AC Input Amps	Watts	Output Volts	Output Watts	
					1½ hrs	
ELCC/ELCC T	120	.052	5.8	6	12	
	277	.023	5.9			

Drawings for dimensional detail only. May not represent actual mechanical configuration. Dimensions are shown in inches (millimeters) unless otherwise noted.



ELCC



ELCC

Width: 6-1/2 (165)
Depth: 13 (330)
Height: 6-1/2 (165)
Weight: 9 lbs. (4.1 kgs.)

ELCC T (Twin Lamps)

Width: 13-1/4 (337)
Depth: 13 (330)
Height: 6-1/2 (165)
Weight: 14 lbs. (6.6 kgs.)

ELUX



NOTES:

- 1 Available with nickel-cadmium battery only.
 - 2 Must specify WL option for wet location listing. Nickel-cadmium option cannot be ordered with WL.
- All dimensions are in **inches (millimeters)**. For additional lamp heads, remotes, options and accessories, see pages 319-321. For application guidelines, see page 326-327.

	Electrical Application Data							
	AC Input		Output Volts	Output Watts				
	Volts	Amps		Watts	1½ hrs	2 hrs	3 hrs	4 hrs
ELU2X	120	.167	20	6	16	12	8	6
	277	.072	20					
ELU2PX	120	.167	20	6	24	18	12	9
	277	.072	20					
ELU3X	120	.250	30	12	36	27	18	12
	277	.108	30					
ELU4X	120	.250	30	12	50	37	25	18
	277	.108	30					
ELU8X	120	.250	30	12	125	93	62	46
	277	.108	30					

Industrial Emergency Lighting Units

Intended Use

Provides a minimum of 90 minutes of illumination for the rated wattage upon loss of AC power. Designed for industrial environments requiring dust, corrosion and water protection.

Features

Fully self-contained, sealed and gasketed for wet location industrial environments. (Must specify WL option to get wet location listing).

Fiberglass-reinforced polyester housing. True glass sealed-beam lamps provide superior light output. Heads rotate 359°. Lamp housings are sealed, high impact thermoplastic.

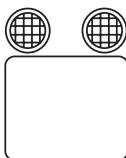
Maintenance-free batteries. Lead-calcium standard, nickel-cadmium optional.

Listings – UL Listed for wet locations². NOM Certified (see options).

Ordering Information

Example: **ELU8X H TD**

Catalog Number	OPTION SUFFIXES										STANDARD LAMP			
	WL ²	N ²	RO	H	N1812	N2512	H1212	AM	VM	LD	TD	NOM	Cat No.	Watts/Lamp
ELU2X	■	■	■	■				■	■	■		■	N0806	8
ELU2PX ¹	■	■	■	■				■	■	■		■	N0806	8
ELU3X	■		■	■	■		■	■	■	■		■	N1212	12
ELU4X	■	■	■	■	■	■	■	■	■	■	■	■	N1212	12
ELU8X	■		■	■	■	■	■	■	■	■	■	■	N1212	12



ELUX

- Width: 13-1/4 (336)
- Depth: 5-1/2 (140)
- Height: 11-1/4 (285), 16-3/4 (425) w/lamps
- Weight: (ELU2X) 18 lbs. (8.2 kgs.), (ELU3X and ELU4X) 23 lbs. (10 kgs.), (ELU8X) 28 lbs. (12.7 kgs.)

Option Descriptions

- WL** Wet location (0-40°C)
- N** Maintenance-free nickel-cadmium battery
- RO** Less lamp heads
- H** Two 8W sealed-beam halogen lamps
- N1812** 18W/12V incandescent lamps
- N2512** 25W/12V incandescent lamps
- H1212** 12W/12V halogen lamps
- AM** Ammeter
- VM** Voltmeter
- LD** Load disconnect switch
- TD** Integral time delay (12V only)
- NOM** NOM Certified

Indura™



Industrial Emergency Lighting Units

Intended Use

Provides a minimum of 90 minutes of illumination for the rated wattage upon loss of AC power. Unique, innovative design for a variety of light and heavy industrial applications and heavy commercial environments. Super-performance lamp heads are ideally suited for higher mounting heights. Perfect for pole and column mounting.

Features

Rugged blue and gray (standard colors) .140" thick, injection-molded thermoplastic. Vertical orientation – designed especially for pole or column mounting. Also suitable for wall, I-beam and unistrut mounting. Ceiling and pendant mounting with accessory equipment, available on selected models.

Easy-Mount® installation with one galvanized, 12-gauge steel mounting bracket shipped standard. Conduit entry points are located on top and both sides of the unit. Maintenance is made easy by tool-less re-lamp, single tool entry, hinging front cover, printed circuit board mounting shelf and battery belt.

Sealed maintenance-free, lead-calcium battery with wattage capacities from 10 to 450W for 90 minutes of emergency operation. Available in 6, 12 and 24V.

Dual-voltage input (120/277V). U.S. Patent Numbers D419,097, 6,135,624, and 6,193,395.

Listings – UL Listed. Meets UL 924, NFPA 101, NEC and OSHA illumination standards. NOM Certified (see options).

See following page for ordering information.

Ordering Information

Example: **IND1250 H1212 SD CW277**

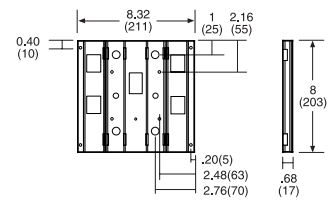
Family	Voltage	No. of lamps	Housing color	Lamp type (I) = INCANDESCENT, (H) = HALOGEN			
6 Volts							
IND616 16W	(blank) 120/277	(blank) 2 heads	(blank) Navy back, gray front W White	PAR36 composite:			
IND636 36W				(blank) 8W/6V (I)			
IND650 50W				N0906 9W/6V (I)			
IND6100 100W				H0606 6W/6V (H)			
12 Volts							
IND1236 36W	(blank) 120/277	(blank) 2 heads	(blank) Navy back, gray front W White	PAR36 composite:			
IND1250 50W				(blank) 9W/12V (I)			
IND12100 100W				N1212 12W/12V (I)			
IND12150 150W				N1812 18V/12V (I)			
IND12200 200W				H0806 8W/6V (H)			
IND12250 250W				H0806 8W/6V (H)			
IND12300 300W				H1006 10W/6V (H)			
IND12400 400W				H1206 12W/6V (H)			
IND12450 450W				H2006 20W/6V (H)			
24 Volts							
IND24100 100W				(blank) 120/277	(blank) 2 heads	(blank) Navy back, gray front W White	PAR36 composite:
IND24300 300W							(blank) 9W/24V (I)
IND24450 450W	N1824 18W/24V (I)						
	H2024 20W/24V (H)						
24 Volts							
	PAR36 sealed-beam:	N1212S 12W/12V (I)	N1812S 18W/12V (I)				N2512S 25W/12V (I)
	N0806S 8W/6V (I)	N3512S 35W/12V (I)	N5012S 50W/12V (I)				H0812S 8W/12V (H)
	N1206S 12W/6V (I)	H1212S 12W/12V (H)	H3512S 35W/12V (H)				H5012S 50W/12V (H)
	N1806S 18W/6V (I)						
	N2506S 25W/6V (I)						
	H0606S 6W/6V (H)						
	H0806S 8W/6V (H)						
	H1206S 12W/6V (H)						
	H2006S 20W/6V (H)						

Options
(blank) No options
SD Self-diagnostics
RT Remote test receiver ¹
AV Ammeter/voltmeter
LD Load disconnect ²
CW120 Cold weather (-40°C) ³ , 120V, damp location
CW277 Cold weather (-40°C) ³ , 277V, damp location
TD Time delay
AFI Audible failure indicator ⁴
DL Damp location (0° to 40°C) ⁵
HA High ambient (55C or 131°F) ⁶

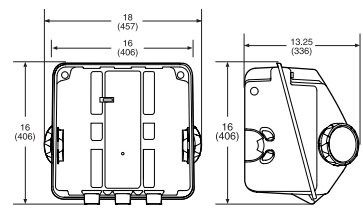
Accessories (Order separately)

- ELA RTT** Remote transmitter
- ELA WG2M** Small wireguard (16W-100W)
- ELA BS** Banding strap
- ELA IND R3** Pre-pack to install third head
- ELA IND PM** Pendant mount kit
- ELA IND CM1** Ceiling mount kit for IND616/36
- ELA IND CM2** Ceiling mount kit for IND650/IND1236/50
- ELA IND CM3** Ceiling mount kit for IND6100
- ELA IND RH3** Remote head bracket for surface mounted j-boxes
- ELA WGLG** Large wireguard (150-450W UL)

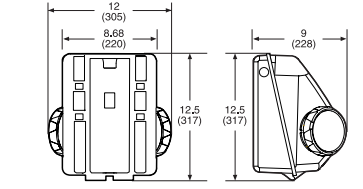
Universal Mounting Bracket



Large Housing (150W-450W)



Small Housing (16W-100W)



NOTES:

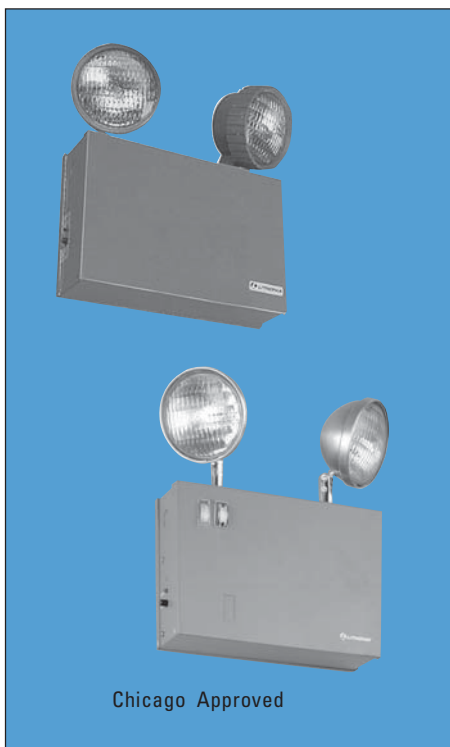
- Remote transmitter sold separately. One per job required.
- Load disconnect not available with SD, RT, AV, TD, or AFI.
- CW option available on IND1250 and IND12150 only.
- AFI only available with SD option.
- DL units must be derated by 20 percent. (i.e., 100W unit may be loaded only to 80W.)
- HA option available on IND1250, IND 12100, IND12150, IND12300 and IND24300. Cannot be ordered with DL or CV options.

For replacement batteries, see page 321.

Drawings for dimensional detail only. May not represent actual mechanical configuration. Dimensions are shown in inches (millimeters) unless otherwise noted.

Electrical Application Data								
Primary Circuit								
Numbers in () denote capacity for DL units after de-rating 20%.								
Type	AC Input		Output Watts	Output Volts	Watts Output			
	Volts	Amps			1-1/2hr.	2hr.	3hrs.	4hrs.
IND616	120	.163	16.6	6	16	12	8	6
	277	.069	16.4		(12.8)	(9.6)	(6.4)	(NA)
IND636	120	.172	17.8	6	36	27	18	13.5
	277	.075	18.0		(28.8)	(21.6)	(14.4)	(10.8)
IND650	120	.171	17.6	6	50	37.5	25	18
	277	.073	17.4		(40)	(30)	(20)	(14.4)
IND6100	120	.152	16.2	6	100	75	50	37.5
	277	.064	15.2		(80)	(60)	(40)	(30)
IND1236	120	.174	18.3	12	36	27	18	13
	277	.078	18.9		(28.8)	(21.1)	(14.4)	(10.8)
IND1250	120	.174	18.3	12	50	37.5	25	18
	277	.078	18.9		(40)	(30)	(20)	(14.4)
IND12100	120	.174	18.9	12	100	75	50	37
	277	.074	17.8		(80)	(60)	(40)	(30)
IND12150	120	.359	33.4	12	150	112	75	56
	277	.168	36.1		(120)	(89.6)	(60)	(44.8)
IND1200	120	.332	30.7	12	200	150	100	75
	277	.152	32.3		(160)	(120)	(80)	(60)
IND12250	120	.260	23.3	12	250	187	125	37
	277	.140	27.0		(200)	(149.6)	(100)	(74.4)
IND12300	120	.290	25.5	12	300	225	150	112
	277	.130	26.9		(240)	(180)	(120)	(89.6)
IND12400	120	.334	31.2	12	400	300	200	150
	277	.158	34.3		(320)	(240)	(160)	(120)
IND12450	120	.333	31.3	12	450	337	225	168
	277	.158	34.5		(360)	(269.6)	(180)	(134.4)
IND24100	120	.33	31.1	24	100	75	50	37
	277	.15	33.2		(80)	(60)	(40)	(30)
IND24300	120	.755	41.7	24	300	225	150	112
	277	.319	41.6		(240)	(180)	(120)	(89.6)
IND24450	120	.773	42.8	24	450	337	225	168
	277	.327	40.9		(300)	(269.6)	(100)	(134.4)

Titan[®]



Die-Formed Steel Emergency Lighting Units

Intended Use

Provides a minimum of 90 minutes of illumination for the rated wattage upon loss of AC power. Designed for general/light industrial environments requiring a steel housing.

Features

True glass sealed-beam lamps in polycarbonate lamp housings (metal housings standard on Chicago units).

Housing is die-formed steel, finished with corrosion-resistant instrument tan enamel.

Maintenance-free batteries. Lead-calcium standard, nickel-cadmium optional.

Titan Series units will power a variety of remote devices up to rated wattage of unit.

Chicago Approved — ELT24C and ELT36C meet City of Chicago requirements.

Listings – UL Listed. NOM Certified (see options).

Ordering Information

Example: **ELT24 H LD**

Catalog Number	OPTION SUFFIXES													STANDARD LAMP	
	N	RO	H	N1812	H0806	H1212	MT	AM	VM	CS	LD	TD	NOM	Cat No.	Watts
ELT16	■	■	■		■		■	■	■	■	■		■	N0806	8
ELT24	■	■	■		■		■	■	■	■	■		■	N0806	8
ELT24C			■		■		□	■	■	■	■		■	H1206	12
ELT36		■	■		■		■	■	■	■	■		■	N0806	8
ELT36C		■	■		■		□	■	■	■	■		■	H1206	12
ELT50 ¹	■	■	■	■		■	■	■	■	■	■	■	■	N1212	12
ELT125		■	■			■	■	■	■	■	■	■	■	N1212	12
ELT180		■	■			■	■	■	■	■	■	■	■	N1212	12
ELT275		■	■			■	■	■	■	■	■	■	■	N1212	12

■ Option □ Standard

Option Descriptions

- N** Maintenance-free nickel-cadmium batteries
- RO** Less lamp heads
- H** 8W halogen lamps (6W on ELT24)
- N1812** 12W/18V incandescent lamps
- H0806** 6W/8V halogen lamps
- H1212** 12W/12V halogen lamps
- MT** Metal lamp heads
- AM** Ammeter
- VM** Voltmeter
- CS** 3-foot cordset (120V only)
- LD** Load disconnect switch
- TD** Integral time delay (12V only)
- NOM** NOM Certified

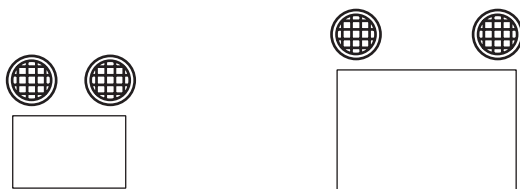
NOTES:

1 ELT50 unit uses ELT125 housing when ordered with VM, AM or TD options.

For additional lamp heads, remote fixtures, options and accessories, see pages 319-321.

For application guidelines, see pages 326-327.

Drawings for dimensional detail only. May not represent actual mechanical configuration. Dimensions are shown in inches (millimeters) unless otherwise noted. For details on accessories, batteries and remote fixtures, see pages 319-321.



ELT 16/24/24C/36/36C/50¹

Width: 11-5/8 (295)
 Depth: 3-5/8 (92)
 Height: 7-7/8 (200), 14 (356) with lamps
 Weight: ELT 16/24/24C: 12.5 lbs.(5.7 kgs.)
 ELT 36/36C/50: 17 lbs.(7.7 kgs.)

ELT125/180/275

Width: 18 (457)
 Depth: 9 (229)
 Height: 12 (305), 18 (457) with lamps
 Weight: ELT 125: 43.5 lbs.(19.7 kgs.)
 ELT 180: 58.5 lbs.(26.5 kgs.)
 ELT 275: 61.5 lbs.(27.9 kgs.)

Electrical Application Data

	AC Input			Output Volts	Output Watts			
	Volts	Amps	Watts		1½ hrs	2 hrs	3 hrs	4 hrs
ELT16	120 277	.167 .072	20 20	6	16	12	8	6
ELT24	120 277	.167 .072	20 20	6	24	24	16	12
ELT24C	120 277	.167 .072	20 20	6	24	24	16	12
ELT36	120 277	.167 .072	20 20	6	36	36	24	18
ELT36C	120 277	.167 .072	20 20	6	36	36	24	18
ELT50	120 277	.250 .108	30 30	12	50	37	25	18
ELT125	120 277	.250 .108	30 30	12	125	93	67	46
ELT180	120 277	.287 .125	50 50	12	180	135	90	67
ELT275	120 277	.287 .125	50 50	12	275	206	137	103

Hazardous Location Emergency Lighting Units

Emergency Lighting Units

Z – Class I, Div. 2 Hazardous Location Units

Intended Use

Provides a minimum of 90 minutes of illumination for the rated wattage upon loss of AC power. Designed for Class I, Division 2 environments.

Features

Impact-resistant, fiberglass-reinforced polyester housing. Gray with stainless steel hardware. View-through window allows easy monitoring of AC indicator and optional voltmeter and ammeter.

Housing suitable for use in NEMA 4, 4X, 12 and 13 areas; Class I, Division 2, Groups A, B, C & D, Zone 2, Groups IIA, IIB + H2 & IIC and Class II, Division 2, Groups F & G.

Lamp heads are Class I, Div. 2 rated polycarbonate sealed beam PAR36 tungsten or halogen lamps. 8W tungsten lamps for 6V units and 12W tungsten lamps for 12V units are standard.

Optional shatter-resistant shield is designed for use in food service areas.

Listings – UL Listed.



Example: Z650 R1 N2506 SD

Ordering Information

Family		Voltage ⁵		No. of Lamps		Lamp type		Options ⁶	
<u>6V lead-calcium</u>		<u>12V lead-calcium</u>		(blank)	Two	<u>PAR36 sealed-beam, 6-volt</u>		SD	Self-diagnostics ³
Z625	25 watts ¹	Z1225	25 watts ¹	120/277	R1	(blank)	8W/6V incand.	SDA	Self-diagnostics with alarm ³
Z650	50 watts ¹	Z1250	50 watts ^{1,2}		R0	(blank)	N1806 18W/6V incand.	VM	Voltmeter
Z6100	100 watts ^{2,3}	Z12120	120 watts ³			(blank)	N2506 25W/6V incand.	AM	Ammeter
Z6125	125 watts ³					(blank)	N3006 30W/6V incand.	TD1	Time delay 120 VAC
<u>12V nickel-cadmium</u>						(blank)	H0806 8W/6V halogen	TD2	Time delay 277 VAC
<u>6V nickel-cadmium</u>		Z1225N 25 watts ^{1,4}				(blank)	H1206 12W/6V halogen	SRS	Shatter-resistant lamp head shield
Z625N	25 watts ^{1,4}	Z1250N	50 watts ^{1,4}			(blank)	<u>PAR36 sealed-beam, 12-volt</u>		
Z650N	50 watts ^{1,4}	Z1275N	75 watts ^{1,4}			(blank)	(blank)		
		Z12100N	100 watts ^{1,4}			(blank)	12W/12V incand.		
		Z12125N	125 watts ^{1,4}			(blank)	N1812 18W/12V incand.		
						(blank)	N2512 25W/12V incand.		
						(blank)	N3012 30W/ 12V incand.		
						(blank)	H0812 8W/12V halogen		
						(blank)	H1212 12W/12V halogen		

NOTES:

- In addition to UL 924, units are Listed to 844, 1203 and 1604.
- Includes temperature compensated charger.
- Self-diagnostics not available on Z6100, Z6125 and Z12120.
- Nickel-cadmium units are the only units Listed for Class II, Div. 2, Groups F & G applications.
- Special voltages available; consult factory.
- Option configurations may impact UL listing. Consult factory for specifics.

For matching remote lamp head or other remote fixture options, see pages 319-321.

Electrical

Input power requirements

120 VAC - .58 amps max., 65 watts max.
277 VAC - .27 amps max., 68 watts max.

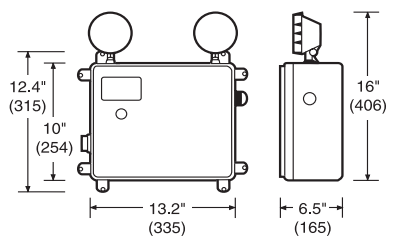
Operation		Standard Lamp Head		Watts to 87-1/2% of Rated Voltage			
DC Voltage	Unit			1 1/2 hrs.	2hrs.	4hrs.	8hrs.
6	Z625	N0806		25	19	12	-
	Z650	N0806		50	37.5	24	8.5
	Z6100	N0806		100	75	48	17
	Z6125	N0806		125	94	60	21.5
	Z625N	N0806		25	19	12	-
	Z650N	N0806		50	37.5	24	8.5
12	Z1225	N1212		25	19	12	-
	Z1250	N1212		50	37.5	24	8.5
	Z12120	N1212		120	90	58	20
	Z1225N	N1212		25	19	12	-
	Z1250N	N1212		50	37.5	24	8.5
	Z1275N	N1212		75	56.5	28.5	15
	Z12100N	N1212		100	75	48	17
	Z12125N	N1212		125	94	60	21.5

Shipping weight:

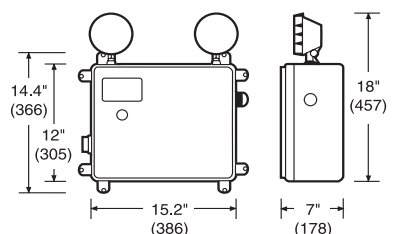
Z625	18 lbs. (8 kgs.)
Z650	18 lbs. (8 kgs.)
Z6100	27 lbs. (12 kgs.)
Z6125	29 lbs. (13 kgs.)
Z625N	16 lbs. (7 kgs.)
Z650N	18 lbs. (8 kgs.)
Z1225	29 lbs. (13 kgs.)
Z1250	29 lbs. (13 kgs.)
Z1225N	18 lbs. (8 kgs.)
Z1250N	18 lbs. (8 kgs.)
Z1275N	20 lbs. (9 kgs.)
Z12100N	29 lbs. (13 kgs.)
Z12125N	29 lbs. (13 kgs.)
Z12120	22 lbs. (10 kgs.)

Dimensions are shown in inches (millimeters) unless otherwise noted.

25 Watt to 75 Watt Units

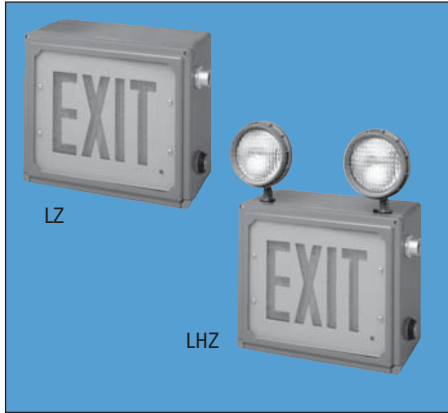


100 Watt to 125 Watt Units



LZ – Class I, Div. 2

Exit & Combo



Hazardous Location Emergency Exit and Combo

Intended Use

Combo and EL N exit provide 90 minutes of operation for the rated wattage upon loss of AC power. Both are designed for Class I, Division 2 environments.

Features

Impact-resistant, fiberglass reinforced polyester housing. Gray with stainless steel hardware and clear polycarbonate cover. Includes one-piece formed gasket and corrosion resistant hardware. Standard internal or external mounting feet for installation flexibility.

Housing suitable for NEMA 4, 4X, 12 and 13 areas; Class I, Division 2, Groups A, B, C & D, Zone 2, Groups IIA, IIB + H₂ & IIC and Class II, Division 2, Groups F & G.

Lamp heads are Class I, Div. 2 rated polycarbonate sealed beam PAR36 tungsten or halogen lamps. 6W halogen lamps standard.

Optional shatter-resistant shield is designed for use in food service areas.

Non-diffuse LEDs provide maximum face illumination.

LED life exceeds 25 years based on continuous operation.

Listings – UL Listed.

Ordering Information

Family LZ LED hazardous exit	Face type S Stencil	Housing color (blank) Gray	No. of faces 1 Single	LED color R Red G Green	Input voltage¹ 120/277 Dual-voltage	Operation (blank) Non-emergency EL N Nickel-cadmium battery	Options SD Self-diagnostics SDA Self-diagnostics with alarm TD1 Time delay 120 VAC TD2 Time delay 277 VAC
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Example: LZ S 1 R 120/277 EL N SD

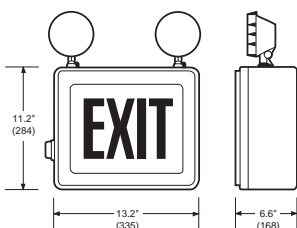
NOTES:
1 Other voltages and frequencies available; consult factory.

Ordering Information

Family LHZ ¹ 6V, 6W lead-calcium battery ¹ LHZ612 6V, 12W lead-calcium battery LHZ624 6V, 24W lead-calcium battery LHZ660 6V, 60W lead-calcium battery	Face type S Stencil	No. of faces 1 Single	Voltage² 120/277 Dual voltage	Lamp heads¹ (blank) 2 heads R1 1 head R0 No heads	Lamp type PAR36 sealed beam (blank) 6W/6V halogen N0806 8W/6V incand. N1806 18W/6V incand. N2506 25W/6V incand. N3006 30W/6V incand. H0806 8W/6V halogen H1206 12W/6V halogen	Options³ SD Self-diagnostics SDA Self-diagnostics with alarm TD1 Time delay 120 VAC TD2 Time delay 277 VAC SRS Shatter-resistant lamp head shield
---	-------------------------------	---------------------------------	--	--	--	--

Example: LHZ S 1 R 120/277 R1 SD

Dimensions are shown in inches (millimeters) unless otherwise noted.



ELECTRICAL (EXIT)
Input power requirements at 120V AC (red and green): AC only = 9.5W, emergency operation = 11W, .90 power factor.

ELECTRICAL (COMBO)
Input power requirements at 120V AC: red = 25.2W max., green = 25.2W max.

NOTES:

- LHZ has 6W total capacity. Will be shipped with one 6W lamp head unless R0 option is selected.
- Other voltages and frequencies available. Consult factory.
- Some option configurations may impact UL listing. Consult factory for details.

Explosion-Proof Emergency Lighting Units

Emergency Lighting Units

ZX – Class I, Div. 1

Explosion-Proof Units

Intended Use

Suitable for use in Class I, Div. 1, Groups C & D, Zones 0, 1, & 2, Groups IIA, IIB + H₂ & IIC; Class I, Div. 2, Groups C & D, Zone 2, Groups IIA, IIB + H₂ & IIC; Class II, Div. 1, Groups E, F & G; Class I, Div. 2, Groups F & G and Class III hazardous location areas.

Features

Copper-free cast-aluminum enclosure withstands explosions generated by internal arc without propagating them into hazardous atmosphere.

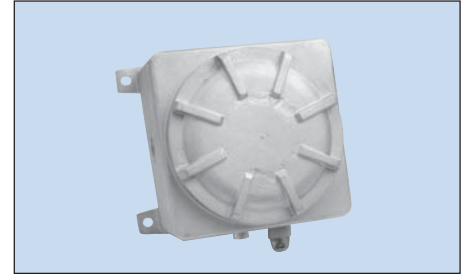
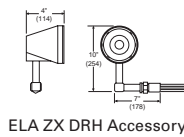
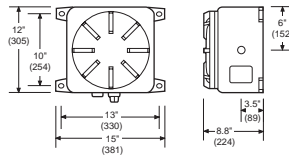
Listings – UL Listed.

Ordering Information

Example: ZX614N TD1

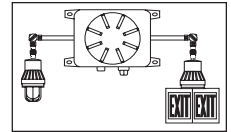
Family	Voltage ³
<u>6V lead-calcium</u> ZX685 85 watts ¹	(blank) 120/277
<u>6V nickel-cadmium</u> ZX614N 14 watts ² ZX628N 28 watts	Shipping weight: ZX614N - 63 lbs. (28 kgs.) ZX628N - 65 lbs. (29 kgs.) ZX1250N - 67 lbs. (30 kgs.) ZX685 - 69 lbs. (31 kgs.)
<u>12V nickel-cadmium</u> ¹ ZX1250N 50 watts	

Options
KLD Key lock two-way, battery disconnect for servicing
TD1 Time delay 120 VAC
TD2 Time delay 277 VAC



The sample application consists of:

- (1) ZX614 - 14 watt power pack for exclusive use with compact fluorescent fixtures.
- (2) ELA SEA - Elbow arms.
- (2) ELA ZX CF0706 PM7 watt compact fluorescent lamp fixture.
- (1) ELA EAK - Exit accessory kit.



NOTES:

- 1 Incandescent emergency lamp operation only.
 - 2 Compatible only with ELA ZX remotes using 7W compact fluorescent lamps. Will not operate incandescent lamps. Maximum remote mounting distance is 8'.
 - 3 Some special voltages available. Consult factory.
- Order accessories separately

Accessories (Order separately)

Cat. No.	Description
ELA ZX DRH	12W/12V directional head

Intended Use

Suitable for use in Class I, Div. 1, Groups C & D, Zones 0, 1 & 2, Groups IIA, IIB + H₂ & IIC; Class I, Div. 2, Groups C & D, Zone 2, Groups IIA, IIB + H₂ & IIC; Class II, Div. 1, Groups E, F & G; Class I, Div. 2, Groups F & G and Class III hazardous location areas.

them into hazardous atmosphere. Enclosure has corrosion-resistant, epoxy powder coat finish.

Top and wall mount fixtures have a universal junction box with four tapped holes for 3/4" rigid conduit (three hole plugs provided.)

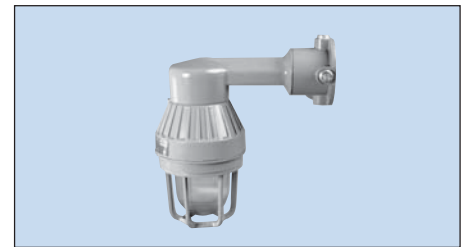
UL Listed. Meets UL 924 and 844 illumination standards.

Features

Copper-free cast-aluminum enclosure with stands pressure of explosions generated by internal arc without propagating

ELA ZX – Class I, Div. 1

Explosion-Proof Remotes



Ordering Information

Example: ELA ZX H0706 WM

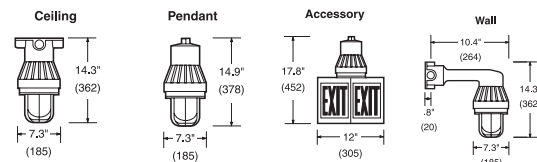
Family	Fixture	Lamp type	Mounting
ELA	ZX Explosion-proof	<u>Emergency only, halogen</u> H0706 7W/6V halogen H1006 10W/6V halogen H1206 12W/6V halogen H1212 12W/12V halogen	WM Wall mount PM Pendant mount TM Top mount

NOTES:

- 1 Operates only with ZX614N power pack in AC and emergency modes. Maximum mounting distance from ZX 614N is 8'. See specification sheet UE-296 for details.
- All dimensions are inches (millimeters).
Shipping weight: 15 lbs. (7 kgs.)

AC / emergency operation

CF0706 7W compact fluorescent¹



Accessories (Order separately)

Cat. No.	Description
ELA 3CH	3-way explosion-proof 3/4" conduit hub.
ELA SEA	Swivel elbow arm for use with pendant-mount fixture to connect to ELA 3CH or ELA ZX unit.
ELA EAK	Exit accessory kit (red silk-screened letters on white background).
ELA SDR	Straight dome reflector.

ELA ZCD – Class II, Div. I Remote Heads



Hazardous Location Emergency Lighting Remotes

Intended Use

ELA ZCD models suitable for use in Class II and III, Division I environments.

Features

Corrosion-resistant, cast aluminum alloy with epoxy polyester finish.

Top-mount fixture with single wall remote has universal junction box with four tapped holes for 3/4" rigid conduit (three close-up plug provided).

Twin wall remote has junction box with two tapped holes for 3/4" rigid conduit (one close-up plug provided).

Listings – UL Listed. Meets UL 924, 844, and 1203 illumination standards. UL Listed for use in Class II, Division 1, Groups, E, F & G and Class III areas.

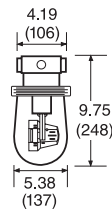
Ordering Information

Remote	Family	Heads	Lamp type	Mounting	Options
ELA	ZCD Hazardous Combustible Dust	(blank) Single T Twin ¹	H1206 12W/6V halogen H1212 12W/12V halogen	WM Wall mount TM Top mount SM Side mount to ZX1250N unit	WGZCD Wireguard

NOTES:
1 Only available with wall mount unit.

Example: ELA ZCD H1212 WM

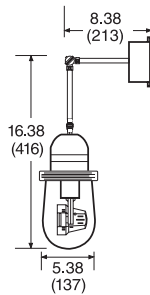
ELA ZCD H1206 TM



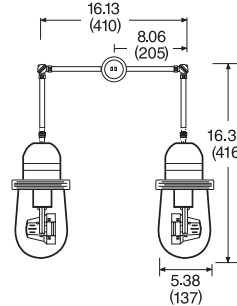
Dimensions are shown in inches (millimeters) unless otherwise noted.

Shipping weight: 18 lbs. (8 kgs.)

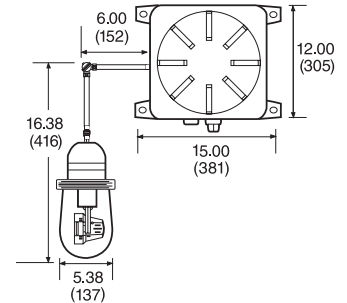
ELA ZCD H1206 WM



ELA ZCD T H1206 WM



ELA ZCD H1212 SM



Remote Fixtures

Open Cone¹



6" PAR36²
ELA OC
PAR36 SB lamp up to 25W (not included)
3" MR16 LV3 Series
ELA LV3 OC
MR16 lamp up to 20W (not included)

L = 11-3/8 (289), W = 8-3/8 (213), H = 8-1/2 (216)

Stepped Baffle



6" PAR36
ELA SB
PAR36 SB lamp up to 25W (not included)
3" MR16 LV3 Series
ELA LV3 SB
MR16 lamp up to 20W (not included)

L = 11-3/8 (289), W = 8-3/8 (213), H = 8-1/2 (216)

Eyeball¹



PAR36
ELA EB
PAR36 SB lamp up to 25W (not included)
3" MR16 LV Series
ELA LV3 EB
MR16 lamp up to 20W (not included)

L = 11-3/8 (289), W = 8-3/8 (213), H = 5-1/2 (144)

Recessed Rectangle



ELA RR
S8 or S11 DC bayonet base lamp up to 25W (not included)

L = 8-3/16 (208), W = 4-1/2 (115), D = 3-3/8 (86)

Square Series



ELA SQR (6V/10W)
ELA SQR12V (12V/12W)

Note: Order ELA FRK for fully-recessed mounting or ELA SRK for semi-recessed mounting.

L = 10-5/16 (262), W = 10-5/16 (262), H = 3-7/16 (87)

Surface Gimbal



ELASG
PAR36 SB lamp up to 25W (not included)

Diameter = 7-7/8 (200), depth = 5 (127)

Recessed Gimbal



ELARG
PAR36 SB lamp up to 25W (not included)

Diameter = 8-1/4 (209), depth = 5-1/4 (133)

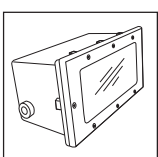
Weatherproof



ELA WP
PAR46 lamp up to 35W (not included)

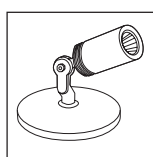
Diameter = 6-3/8 (162), depth = 8-1/2 (216)

Outdoor Step Light



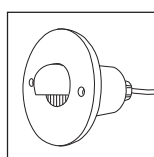
ELAOSL
12W Halogen bi-pin lamp (not included)

Outdoor Mini Cylinder²



MR11
ELA OMC DDB
ELA OMC DNA
ELA OMC BL
MR11 type lamp up to 20W (not included)

Round Outdoor Step Light



MR16
ELA CL
MR16 type lamp up to 20W (not included)

NOTES:

1 Rough-in section same as Lithonia Downlighting LV Series, less transformer.

2 Twin version available.

All dimensions are inches (millimeters).

Ordering Information – Lamp heads on this page can be ordered as separate fixtures, as individual or twin remote heads with a mounting plate.

To Order Remotes: Order as separate line items.

Ordering Information

EXAMPLE: ELA IND H2012

Emergency lighting accessory	Color	Number of lamps	Lamp head style	Options
ELA	(blank) Standard color B Black W White ITN Instrument Tan (Titan Series match). Available on standard PAR36 and NX head only	(blank) Single T Twin	(blank) Standard PAR36 MR24 Multi-faceted reflector CDS Compact Designer Square SSB Square PAR36 IND Indura NX Sealed and gasketed PAR36 MT Metal PAR36 Z Hazardous PAR36 (Class I, Division II)	RMP Round mounting plate (available with CDS lamp head only)
				Lamp type (Select from lamp compatibility chart on page 320) (For Indura sealed beam lamps add suffix S to lamp nomenclature. Example: H351 2S)

Standard PAR36



(Blank)

Width: 4-3/4" (121) single head,
13" (330) twin heads
Height: 7-3/4" (197)
Depth: 5-1/16" (129)

Standard color: Desert tan

Multi-Faceted Reflector



MR24

Width: 4-5/8" (117) single head,
6-5/8" (168) twin heads
Height: 6-5/8" (168) single head,
4-1/2" (114) twin heads
Depth: 2-1/2" (63)

Standard color: white
Quantum® match

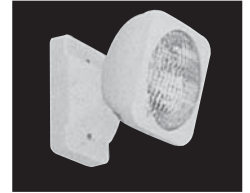
Compact Designer Square



CDS

Width: 3-7/8" (98) single head,
10-5/8" (270) twin heads
Height: 4-1/4" (108)
Depth: 4-1/8" (107)
Standard color: white
6ELM2, 6ELM2P, ELM4,
ELM10 match

Square PAR36



SSB

Width: 4-3/4" (121) single head,
10-1/2" (267) twin heads
Height: 5" (127)
Depth: 4-1/2" (115)

Standard color: white

Indura Remote



IND

Width: 5-7/8" (149) single head,
7-1/8" (181) twin heads
Height: 5-1/8" (130)
Depth: 5-3/8" (137)

Standard color: gray head & mounting plate, blue lamp housing

Sealed & gasketed PAR36



NX

Width: 4-3/4" (121) single head,
13" (330) twin heads
Height: 7-3/4" (197)
Depth: 5-1/16" (129)

Standard color: gray (ELUX match)

Metal PAR36



MT

Width: 4-5/8" (118) single head,
10-1/2" (267) twin heads
Height: 5-1/8" (130)
Depth: 6-1/2" (165)
Standard finish: chrome
Optional finish: white

Hazardous PAR36



Z

Width: 4-3/4" (121) single head,
13" (330) twin heads
Height: 7-3/4" (197)
Depth: 5-1/16" (129)

Standard color: gray Z series match

Mounting Plate Dimensions for MT:

Single Head = 2-3/4 (70) W X 4-1/2 (115) H
Two Head = 4-9/16 (116) W X 4-1/2 (115) H

Mounting Plate Dimensions for IND:

5-1/8 W X 4 11/16 H

Mounting Plate for MR24:

6-7/8 (x) W X 4-5/8 (x) H

Mounting Plate for All Others:

3-1/8 (79) W X 5 (127) H

For photometric information visit our website at www.lithonia.com. Consult factory for additional lamp availability.

All dimensions are inches (millimeters).

Composite Lamps

Lamp Type	6-Volt									12-Volt					24-Volt					
	Incandescent			Halogen			Krypton			Incandescent		Halogen			Krypton	Incandescent		Halogen		
	N0606	N0806	N0906	H0606	H0806	H1006	H1206	H2006	K0606	K0906	N0912	N1212	N1812	H0812	H1212	H2012	K0912	N0924	N1824	H2024
Wattage	6W	8W	9W	6W	8W		12W	20W	6W	9W	9W	12W		8W	12W	20W	9W	9W	18W	20W
MR24							■	■	■	■				■	■		■			
CDS	■	■	■	■	■						■	■		■	■					
IND		■	■	■	■	■	■	■			■	■	■	■	■			■	■	■

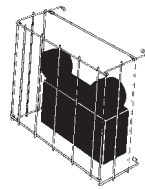
Sealed-Beam Lamps

Lamp Type	6-Volt								12-Volt					24Volt ¹				
	Incandescent				Halogen				Incandescent			Halogen		Incand.				
	N0806	N1206	N1806	N2506	H0606	H0806	H1206	H2006	N1212	N1812	N2512	N3512	N5012	H0812	H1212	H3512	H5012	N5024
Wattage	8W	12W	18W	25W	6W	8W	12W		12W	18W	25W	35W	50W	8W	12W	35W	50W	50W
SSB	■	■			■	■	■		■	■	■	■			■	■	■	
IND	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
NX	■	■			■	■	■		■	■	■	■	■	■	■	■	■	
Std. PAR36	■	■			■	■	■		■	■	■			■	■			
MT	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	

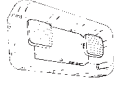

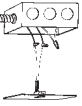
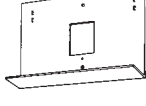

Wireguard Compatibility

UL Listed Products

Catalog Number	ELT 50 ¹ (w/options), 125 ¹ , 180 ¹ , 250 ¹ , 275 ¹ ; ELUX	Single remote heads	Twin remote heads	ELT 50 (w/options), 125, 180, 250, 275	IND (16-100 Watts)	ELM2, ELM4, ELM10, 6ELM2, 6ELM2P	HQM, LHQM	ELM, ELT 16, 24, 36, 50, ELSQ	IND (150-450 Watts)	Dimensions
Units										
ELA WGHQM							■			28W x 15H x 8D
ELA WGLG								■		21W x 20H x 18D
ELA WGLT				■						22 ¹⁵ / ₁₆ W x 24 ³ / ₈ H x 12 ³ / ₈ D
ELA WGRH		■								11 ¹⁵ / ₁₆ W x 12 ³ / ₈ H x 9 ³ / ₈ D
ELA WGST								■		15W x 15H x 6D
ELA WG2			■							15 ¹⁵ / ₁₆ W x 14 ³ / ₈ H x 8 ⁵ / ₈ D
ELA WG2M					■	■				20 ¹ / ₄ W x 15H x 10D
ELA WG4/8	■									22 ¹ / ₈ W x 22 ¹⁵ / ₁₆ H x 10D
Exits										
ELA WGEX		Back mounted exits								13 ⁵ / ₈ W x 13 ⁵ / ₈ H x 4 ³ / ₄ D
ELA WGEXT		Top mounted exits								14W x 11H x 6 ³ / ₄ D ³
ELA WGEXE		End mounted exits								15W x 11H x 4 ³ / ₄ D ³
ELA WGHXT										13W x 13 ¹ / ₂ H x 6 ¹ / ₂ D ³



NOTES:
 1 Without heads.
 2 Measurement at smallest point of guard.

<p>Vandal Shield ELA VS2 ELA VS</p>  <p>1/8" thick, (ELAVS2) high-impact or 3/16" thick (ELAVS) transparent polycarbonate shield. Fits all Lithonia Quantum ELM and ELM2 (ELA VS), and 6ELM2/P, ELM4, ELM10 (ELA VS2) units. 10"H x 22" W x 9-3/4" D (ELA VS2); 8-1/2"H x 15" W x 4-3/4" D (ELA VS).</p>	<p>Low Voltage Relay ELA LVR</p>  <p>Converts any incandescent low voltage (12V) downlight (75W maximum) to an emergency downlight when removed from a 12V Lithonia emergency lighting unit. (ELT125, etc.)</p>	<p>Remote Test Switch Less Pilot Light ELA RTLP</p>  <p>Provides remote testing capability to all Lithonia Lighting unit equipment, exit signs, fluorescent battery packs and emergency downlights. Mounts on standard J-box, ceiling or wall.</p>
<p>Mounting Shelves ELAMS4/8¹ ELM4, ELM10, ELA MST² ELT125, ELT180, ELT275 ELA MST5² ELT16, ELT24, ELT24C, ELT36, ELT36C, ELT50</p> 	<p>Indura Accessories ELA IND PM1 Pendant mount kit for Indura small housing ELA IND CM1 Ceiling mount kit for IND616 or IND636 ELA IND CM2 Ceiling mount kit for IND650, IND1236 and IND1250 ELA IND CM3 Ceiling mount kit for IND6100 ELA IND R3 Prepack kit to field install third head on Indura unit ELA RTT Remote transmitter ELA BS Banding strip ELA IND RHB Remote head bracket for surface-mounted j-boxes</p> 	

Replacement Batteries for Emergency Lighting Units

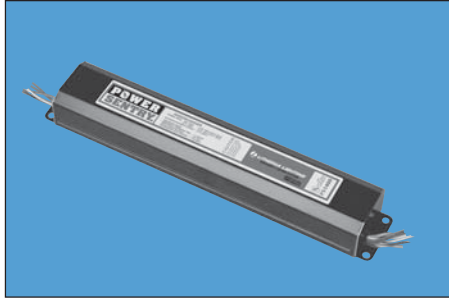
	ELB 06042 lead-calcium L: 2-3/4 (70) W: 1-7/8 (48) H: 4-1/8 (102)	ELB 0607 lead-calcium L: 4 (102) W: 1-1/2 (38) H: 6 (152)	ELB 0609 lead-calcium L: 4-1/4 (108) W: 2 (51) D: 5-1/2 (140)	ELB 0610 lead-calcium L: 6 (152) W: 2 (51) D: 4 (102)	ELB 0614 lead-calcium L: 4-1/4 (108) W: 2-3/4 (70) H: 5-1/2 (140)	ELB 1228 lead-calcium L: 7-7/8 (198) W: 5-1/4 (133) H: 7-3/8 (187)	ELB 1255 lead-calcium L: 10-1/4 (259) W: 6-3/4 (171) D: 8-3/4 (222)	ELB 0604N nickel-cadmium L: 3-7/8 (98) W: 2-3/8 (60) H: 2-3/8 (60)	ELB 14 04N nickel-cadmium L: 14 (356) W: 2-11/16 (58) H: 1-3/8 (37)
ELM/ELM2	■								
6ELM2		■							
6ELM2N								■	
6ELM2P					■				
ELM4				■ ³					
ELM10						■			
ELSQ/ELSQM	■								
ELSQM N								■	
ELT16		■							
ELT16 N								■	
ELT24/24C					■				
ELT36/36C/50			■ ³						
ELT125						■			
ELT275							■		
ELU2/ELU2X		■							
ELU2N/ELU2XN								■	
ELU3X			■						
ELU4/ELU4X				■ ³					
ELU8/ELU8X						■			
ELU2P					■				
ELR2		■							
ELR2 N								■	
ELR4					■				
PS3000									■
ELCC/ ELCCT	■								
AFN	■								

- NOTES:
- Standard color is Desert Tan. To order White, add W to catalog number. Example: ELA WMS4/8
 - Standard instrument tan.
 - Uses two batteries.

Indura™ Replacement Batteries

	ELB 0607 L: 4 (102) W: 1-1/2 (38) H: 6 (152)	ELB 0610 L: 6 (152) W: 2 (51) D: 4 (102)	ELB 0612A L: 4-1/4 (108) W: 2-3/4 (70) H: 5-1/2 (140)	ELB 0636 L: 5-7/8 W: 6 (152) H: 3-5/8	ELB 1207A L: 2-3/5 W: 6 H: 3-7/8	ELB 1221 L: 3-7/8 W: 6 H: 7-3/4	ELB 1220 L: 5-7/8 W: 8 H: 3-5/8	ELB 1228 L: 7-7/8 (198) W: 5-1/4 (133) H: 7-3/8 (187)	ELB 1238 L: 6-3/4 W: 6-1/2 H: 7-3/4	ELB 1250 L: 8-5/8 W: 5-5/16 H: 8-13/16	ELB 1255 L: 10-7/32 W: 6-11/16 H: 9-21/32	ELB 12100 L: 12 W: 6-11/16 H: 9-3/4	ELB 2410 L: 5-7/8 W: 8 H: 3-5/8
IND616	■												
IND636			■										
IND650		■ ³											
IND6100				■									
IND1236	■ ³												
IND1250		■ ³											
IND1250CW							■						
IND1250HA				■ ³									
IND12100						■							
IND12100HA							■						
IND12150								■					
IND12150CW											■		
IND12150HA									■				
IND12300											■		
IND12300HA									■ ³				
IND12450												■	
IND24100													■
IND24450										■ ³			

Power Sentry®



- PS300** Economical
- PSL400** Low-profile, 400 lumen output
- PSQ500** 15-minute installation, 400-500 lumen output
- PSL550** Low-profile, 700 lumen output
- PS600** 600 lumen output
- PS600C** Two-hour emergency operation
- PSL600** Low-profile, 1250 lumen output
- PS1400** 1400 lumen output
- PS3000** Full light output
- PS48** Central 48VDC interface

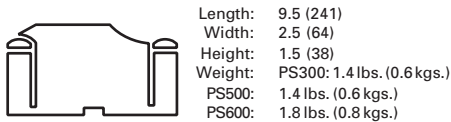
NOTES:

- 1 To order a factory-installed battery pack, add suffix to fluorescent fixture catalog number.
- 2 Add DW to factory installed suffix to receive as wet or damp location listed, depending on the fixture. Applies to PS300, PSQ500, PS600 and PS1400. Example: EL14 DW.
- 3 Standard test switch pilot light for these products may be remote mounted by splicing to desired length up to 25'. Plate is provided to mount to single gang switch box.
- 4 Add SD to suffix to receive self-diagnostics version. Example: EL5SD. Applies to PSQ500, PS600 and PS1400.

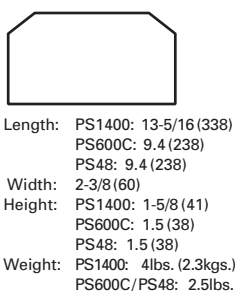
Special voltages/frequencies available; consult factory. For lamp/ballast compatibility, see page 324.
For application guidelines, see page 325.

Dimensions are shown in inches (millimeters) unless otherwise noted.

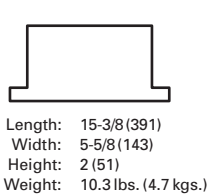
PS300/PS600/PSQ500
Cross Section End View



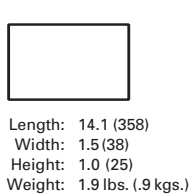
PS1400/PS600C/PS48
Cross Section End View



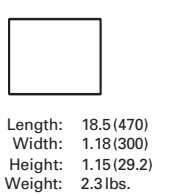
PS3000
Cross Section End View



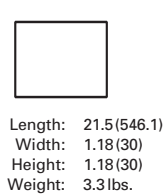
PSL400
Cross Section End View



PSL550
Cross Section End View



PSL600
Cross Section End View



Fluorescent Battery Packs, Linear Fluorescent Fixtures

Intended Use

Factory or field installed inside or outside (field only) fluorescent fixture to operate lamp(s) at an initial output of 10% to 95% of rated lamp lumens, providing optimum glare free illumination for a minimum of 90 minutes upon interruption of normal power.

Features

Sealed, maintenance-free, high-temperature nickel-cadmium batteries.

Housing is high-impact polycarbonate (PS300, PSQ500 and PS600), 20-gauge steel or permanently sealed steel (PS600C, PS1400, PS3000, PS48, PSL400, PSL550 and PSL600).

U.S. Patent No. 5,202,608 and 5,814,971.

Listings – UL Listed.

Ordering Information

Example: **PS1400 SD**

Option Descriptions	
SD	Self-diagnostics
DW	UL Listed for use inside damp or wet location listed fixtures 0-50°C (32-122°F)
MK	External mounting kit
2T8	Operates two, 4-foot T8 lamps
Accessories (Order separately)	
Catalog Number	Description

PSSD	Field installable self-diagnostic modules for PSQ500, PS600 or PS1400
ELA TSPLP	Remote or replacement test switch/pilot light and mounting plate (PS300, PSQ500, PS600 and PS1400) ³
ELA TSPLP SD	Remote or replacement test switch/pilot light and mounting plate for self-diagnostics (PSQ500SD, PS600SD and PS1400SD) ³
ELA RTS2	Remote test switch and pilot light (PS3000)
ELA RTS3	Remote test switch and pilot light for the PSL400, PSL550, PSL600 and PS600C
ELA PSTS	Double-pole, single-throw test switch (no pilot light)
ELA PSMK	External mounting kit (PS1400 two required)
ELA PSMKSD	External mounting kit for self-diagnostics module
ELA PSDMT	External mounting tray (PS3000)
ELA PSRME	Remote mounting enclosure

Factory Installation ^{2,3}	
Suffix	Description
EL	PS300 installed ^{1,2}
EL5	PSQ500 installed ^{1,2,4}
EL55	PSL550 installed ¹
EL6	PS600 installed ^{1,2,4}
EL61C	PS600 one-lamp operation installed ^{1,2}
EL6C	PS600C installed ¹
EL14	PS1400 installed ^{1,2,4}
EL48	PS48 installed ¹
ELSC4	PSL400 installed ¹
EL65	PSL600 installed ¹

Catalog Number	OPTION SUFFIXES			
	DW	MK	2T8	SD
PS300	■			
PSQ500	■			■
PS600	■			■
PS600C				
PS1400	■	■		■
PS3000			■	

	Electrical Application Data		
	AC INPUT		
	Volts	Amps	Watts
PS300	120	.28	2.5
	277	.25	2.5
PSL400	120	.1	1.5
	277	.1	1.5
PSQ500	120	.27	2.9
	277	.25	2.5
PSL550	120	.18	3.2
	277	.18	3.2
PS600	120	.27	2.2
	277	.26	2.2
PS600C	120	.28	3.5
	277	.28	3.5
PSL600	120	.18	3.0
	277	.18	3.0
PS1400	120	.27	3.3
	277	.25	3.2
PS3000	120	.09	9.6
	277	.04	10.2
PS48	120	.28	3.5
	277	.09	0.5

Power Sentry®

Intended Use

Factory or field install on fluorescent downlighting fixtures to operate lamps at an initial light output of 20% to 85% of full lumen rating, providing optimum glare free illumination for a minimum of 90 minutes upon interruption of normal power.

Features

PSDL1 operates one two-pin 18W or 26W quad-tube compact fluorescent lamp. PSDL1 2LP operates two (2) two-pin (13-26W) quad-tube fluorescent lamps.

PSDL2 operates one two-pin 7W, 9W, or 13W quad-tube compact fluorescent lamp.

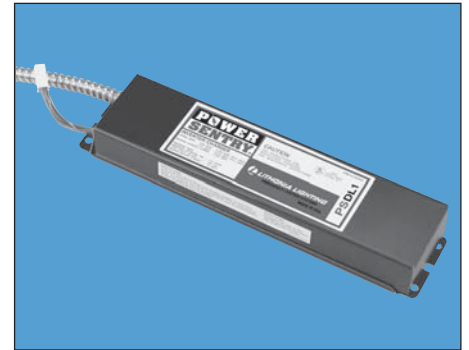
PSDL3 operates one or two four-pin twin-tube (9-13W), triple-tube (18-42W*), quad-tube (13-26W) or 20W compact fluorescent lamp(s).

*42W triple-tube is one lamp only.

Sealed, maintenance-free, high-temperature nickel-cadmium batteries.

Housing is permanently sealed steel enclosure.

Listings – UL Listed.



Ordering Information

Example: PSDL3 SD

- PSDL1** Bi-pin 18-26W quad-tube lamps
- PSDL2** Bi-pin 7-13W twin-tube or quad-tube lamps
- PSDL3** Four-pin 9-42W quad-tube or triple-tube lamps

Base Catalog Number	OPTION SUFFIXES		
	DL	2LP ²	SD
PSDL1		■	
PSDL3	■		■

Factory Installation	
Suffix	Description
EL	PSDL1/PSDL2/PSDL3 installed, compact fluorescent ¹
ELR	PSDL1/PSDL2/PSDL3 installed, compact fluorescent with remote pilot light/test switch ¹

NOTES:

- To order a factory-installed battery pack, add suffix to fluorescent downlighting fixture catalog number. PSDL1/PSDL2/PSDL3 will be determined automatically based on ballast and lamp type. Add 2LP (example: EL2LP) to suffix to specify 2-lamp emergency operation for all 4-pin or 2-pin quad lamps. (Available for Gotham® Downlighting and Lithonia Downlighting.)
- The PSDL3 product may be wired for a 2-lamp operation as a standard feature, see wiring diagrams. 2LP option does not need to be specified for this product.

For lamp/ballast compatibility, see page 324. For application guidelines, see page 325. All dimensions are **inches (millimeters)** unless otherwise specified.

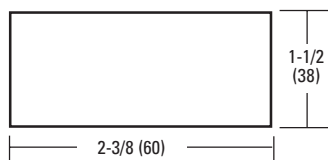
Option	Descriptions
SD	Self-diagnostics
DL	Damp location listed 0-50°C (32-122°F)
2LP	Operates two two-pin quad-tube lamps (PSDL1) ²

Accessories (Order separately)	
Cat. No.	Description
PSSD	Field installable self-diagnostic module for PSDL3
ELA TSPLP	Remote or replacement test switch/mounting plate for PSDL3
ELA PSTS	Double-pole, single-throw test switch (no pilot light)
ELA PSDMT	External mounting tray (PSDL1, PSDL2, PSDL3)
ELA RTS3	Remote test switch and pilot light (PSDL1 2LP)

	Electrical Application Data		
	AC INPUT		
	Volts	Amps	Watts
PSDL1	120	.275	3.5
	277	.255	3.5
PSDL2	120	.275	3.5
	277	.255	3.5
PSDL3	120	.27	3.3
	277	.25	3.2

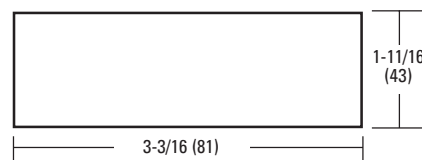
Dimensions are shown in **inches (millimeters)** unless otherwise noted.

PSDL1 and PSDL2



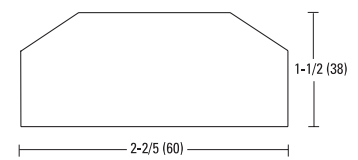
Cross section end view
Length: 10-5/8 (270)
Shipping weight: 2.14 lbs. (.9 kgs.)

PSDL3



Cross section end view
Length: 17-1/8 (435)
Shipping weight: 5.0 lbs. (2.3 kgs.)

PSDL1 2LP



Cross section end view
Length: PSDL1 2LP – 12 (304)
Shipping weight: 3.0 lbs. (1.4 kgs.)

UL Listed Products

LampType	Wattage	PS300	PSL400	PSQ500	PSL550	PS600	PS600C	PSL600	PS1400	PS3000	PS48	PSDL1	PSDL2	PSDL3
Lumens		350-450	350-450	300-500	390-700	600-700	600-700	900-1325	1100-1400	1500-3000	*	340-970	490-565	580-1070
24" - 48" T5	14-28				1			1	1					1
24" - 48" T5 HO	24-54				1			1	1					
U-Lamp T8	16-32	1	1	1		1,2			1,2	1,2,3	1,2			
24" - 48" T8	17-32	1	1	1		1,2	4	1	1,2	1,2,3	1,2			
48" - 60" T8	32-40				1			1			1			
48" T8HO	44				1			1						1
60" - 96"	40-59					1			1	1				
96" HO T8	86					1			1					
Circline T9	20-40	1				1			1	1,2	1			
U-lamp T12	34-40	1	1	1		1,2			1,2	1,2	1,2			
24" - 48" T12	20-40	1	1	1		1,2	4		1,2	1,2	1,2			
60" - 96" T12	50-75					1			1	1	1			
24" - 48" HO T12	35-60					1			1	1	1			
60" - 96" HO T12	70-110					1			1	1	1			
24" - 48" - VHO T12	74-115					1			1	1	1			
60" - 96" VHO T12	135-215					1			1	1	1			
PL twin-tube (2-pin)	9-13										1		1	
PL quad-tube (2-pin)	13-26										1	1,5		
PL twin-tube (4-pin)	9-13								1		1,2			1,2
PL quad-tube (4-pin)	13-26								1,2	1	1,2			1,2
Triple-tube (4-pin)	18-32		1						1,2	1	1			1,2
Triple-tube (4-pin)	42								1		1			1
Long compact (4-pin)	18-40	1	1	1		1			1	1	1			
Long compact (4-pin)	50-55					1		1	1	1	1			
Long compact (4-pin)	36-55				1	1		1	1	1	1			
2D	28-38							1	1					1

- NOTES:
- * Based on the lumen output of the lamp; provides full light output.
 - 1 One-lamp emergency operation for 1, 2, 3 or 4-lamp ballasts.
 - 2 Two-lamp emergency operation for 2, 3 or 4-lamp ballasts.
 - 3 2T8 option required for 2-lamp emergency operation for 2, 3 or 4-lamp ballasts.
 - 4 One-lamp, 2-hour emergency operation for 2, 3 or 4-lamp ballasts.
 - 5 2LP option required for 2-lamp emergency operation in fixtures with two or more lamps.

One Footcandle Average Spacing Guidelines ¹																								
	Corridor ²					Open Office ³					Industrial ⁴	Lobby ⁵												
	2 x 2		2 x 4			8" Alzak Downlight	2 x 2		2 x 4			AF 2 96 HO	8" Alzak Downlight											
	2GT8 2U316 A12	2SP8 2U316 A12	2AV 2CF40 MDR	2PMSN 2U316 9LD	2PMO 2U31 12LS		2GT8 3 32 A12	2SP8 332 A12	2AV 332 MDR	2PM3N 332 18LD	2PMO 332 27LD			2GT8 2U316 A12	2SP8 2U316 A12	2AV 2CF40 MDR	2PM3N 2U316 9LD	2PMO 2U31 12LS	2GT8 3 32 A12	2SP8 332 A12	2AV 332 MDR	2PM3N 332 18LD	2PMO 332 27LD	
PS300	16'	18'	12'	11'	12'	18'	21'	12'	15'	18'	-	13'	15'	-	10'	12'	15'	16'	-	13'	15'	-	-	-
PSQ500	30'	31'	22'	20'	20'	32'	33'	20'	27'	32'	-	25'	23'	20'	18'	22'	25'	28'	15'	23'	25'	-	-	-
PS600	35'	44'	33'	25'	23'	41'	45'	29'	34'	37'	-	32'	28'	30'	20'	25'	32'	38'	20'	28'	28'	-	-	-
PS1400	75'	55'	64'	60'	65'	80'	60'	63'	75'	52'	-	45'	43'	47'	40'	26'	45'	45'	45'	42'	29'	25'	-	-
PS3000	76'	63'	80'	65'	65'	85'	62'	80'	80'	50'	-	49'	48'	56'	41'	26'	53'	51'	60'	42'	29'	52'	-	-
PSDL1	-	-	-	-	-	-	-	-	-	-	CF	-	-	-	-	-	-	-	-	-	-	-	CF	CF
PSDL2	-	-	-	-	-	-	-	-	-	-	CF	-	-	-	-	-	-	-	-	-	-	-	CF	CF
PSDL3	-	-	-	-	-	-	-	-	-	-	CF	-	-	-	-	-	-	-	-	-	-	-	CF	CF

NOTES:

- All spacings are intended to be guidelines. Results will vary if application deviates from dimensions or assumptions stated below. All spacings are based on 1 FC average, 0.1 footcandle minimum, 40:1 maximum to minimum ratio and a 6' path of egress. All troffer lamps are T8. PSDL 1 lamp = 2-pin 26W DTT; PSDL2 lamp = 2-pin 13W TT; PSDL3 lamp = 32W tri-lube.
- Corridor dimensions: 100' L X 8' W X 9' H; reflectances = 80/50/20.
- Open office dimensions: 100' L X 80' W X 9' H; reflectances = 80/50/20.
- Industrial dimensions: 200' L X 200' W X 18' H; reflectances = 10/10/10.
- Lobby dimensions: 80' L X 80' W X 9' H; reflectances = 80/50/20.

One Footcandle Minimum Spacing Guidelines ¹																								
	Corridor ²					Open Office ³					Industrial ⁴	Lobby ⁵												
	2 x 2		2 x 4			8" Alzak Downlight	2 x 2		2 x 4			AF 2 96 HO	8" Alzak Downlight											
	2GT8 2U316 A12	2SP8 2U316 A12	2AV 2CF40 MDR	2PMSN 2U316 9LD	2PMO 2U31 12LS		2GT8 3 32 A12	2SP8 332 A12	2AV 332 MDR	2PM3N 332 18LD	2PMO 332 27LD			2GT8 2U316 A12	2SP8 2U316 A12	2AV 2CF40 MDR	2PM3N 2U316 9LD	2PMO 2U31 12LS	2GT8 3 32 A12	2SP8 332 A12	2AV 332 MDR	2PM3N 332 18LD	2PMO 332 27LD	
PS300	14'	14'	11'	14'	13'	15'	16'	11'	15'	15'	-	12'	12'	8'	10'	10'	12'	13'	7'	12'	12'	-	-	
PSQ500	19'	19'	18'	19'	19'	20'	20'	17'	21'	18'	-	16'	16'	14'	16'	16'	17'	17'	7'	16'	15'	-	-	
PS600	21'	20'	20'	20'	20'	21'	21'	19'	22'	19'	-	18'	17'	16'	17'	18'	19'	19'	16'	17'	15'	-	-	
PS1400	32'	31'	29'	29'	23'	30'	29'	28'	31'	24'	-	24'	24'	24'	22'	22'	26'	25'	24'	22'	19'	CF	-	
PS3000	38'	38'	38'	37'	25'	40'	40'	39'	39'	27'	-	30'	29'	30'	31'	22'	33'	31'	33'	29'	22'	CF	-	
PSDL1	-	-	-	-	-	-	-	-	-	-	CF	-	-	-	-	-	-	-	-	-	-	-	CF	CF
PSDL2	-	-	-	-	-	-	-	-	-	-	CF	-	-	-	-	-	-	-	-	-	-	-	CF	CF
PSDL3	-	-	-	-	-	-	-	-	-	-	CF	-	-	-	-	-	-	-	-	-	-	-	CF	CF

NOTES:

- All spacings are intended to be guidelines. Results will vary if application deviates from dimensions or assumptions stated below. All spacings are based on 1 FC minimum and a 6' path of egress. All troffer lamps are T8. PSDL 1 lamp = 2-pin 26W DTT; PSDL2 lamp = 2-pin 13W TT; PSDL3 lamp = 32W TRT.
- Corridor dimensions: 100' L X 8' W X 9' H; reflectances = 80/50/20.
- Open office dimensions: 100' L X 80' W X 9' H; reflectances = 80/50/20.
- Industrial dimensions: 200' L X 200' W X 18' H; reflectances = 10/10/10.
- Lobby dimensions: 80' L X 80' W X 9' H; reflectances = 80/50/20.

(CF) = Consult factory.

For expanded spacing information, photometric charts or IES files, visit our website: www.lithonia.com

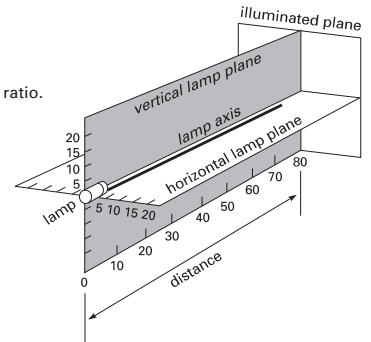
						Fixture Spacing														
Cat. #	Volts	Watts	Type	Lumens	Lamp #	Beam H x V	7.5' MH		12' MH		14' MH		16' MH		18' MH		20' MH		25' MH	
							1 FC Avg.	1 FC Min.	1 FC Avg.	1 FC Min.	1 FC Avg.	1 FC Min.	1 FC Avg.	1 FC Min.	1 FC Avg.	1 FC Min.	1 FC Avg.	1 FC Min.	1 FC Avg.	1 FC Min.
N0806S	6	8	Inc.	54	7613-1	30 x 20	20	—	—	—	—	—	—	—	—	—	—	—	—	—
N1206S	6	12	Inc.	177	4042	45 x 20	20	—	22	—	20	—	18	—	17	—	15	—	—	—
N1806S	6	18	Inc.	184	4014	50 x 25	25	—	23	—	23	—	22	—	20	—	20	—	18	—
N2506S	6	25	Inc.	395	4510	80 x 20	25	—	38	—	38	—	36	—	34	—	32	—	27	—
N1212S	12	12	Inc.	177	4044-1	50 x 25	25	—	20	—	19	—	19	—	16	—	15	—	—	—
N1812S	12	18	Inc.	184	4414	50 x 25	25	—	23	—	23	—	22	—	20	—	20	—	18	—
N2512S	12	25	Inc.	238	4446	80 x 30	32	—	20	—	19	—	18	—	16	—	15	—	—	—
N3512S	12	35	Inc.	350	4411-1	Trapezoid	—	—	46	—	46	—	46	—	46	16	44	17	38	20
N5012S	12	50	Inc.	200	50PAR36NSP	Spot	—	—	32	—	32	—	32	—	32	—	32	16	32	17
N5024S	24	50	Inc.	420	4504	11 x 5	—	—	65	—	60	—	60	—	55	—	55	—	55	—
H0606S	6	6	Hal.	110	H7556	30 x 20	—	—	28	—	26	—	26	15	24	16	22	16	20	15
H0806S	6	8	Hal.	150	H7551	30 x 20	25	—	16	—	16	—	15	—	—	—	—	—	—	—
H1206S	6	12	Hal.	263	H7553	30 x 20	28	—	28	—	26	—	26	15	24	16	22	16	20	15
H2006S	6	20	Hal.	400	H7554	30 x 20	—	—	46	—	46	—	46	—	46	—	42	—	40	16
H0812S	12	8	Hal.	150	H7555	30 x 20	25	—	16	—	16	—	15	—	—	—	—	—	—	—
H1212S	12	12	Hal.	263	H7557	30 x 20	37	—	28	—	27	—	26	16	24	16	23	16	20	16
H3512S	12	37.5	Hal.	706	H7600	9 x 4.5	—	—	75	—	70	—	70	—	70	—	70	—	70	—
H5012S	12	50	Hal.	940	H7604	7 x 5	—	—	80	—	80	—	80	—	80	—	80	—	80	—

Quantum® Composite Lamps					Spacing @	
Cat. #	Volts	Watts	Type	Lumens	7.5' MH	
CDS N0606	6	6	Incand.	68	CF	
CDS N0806	6	8	Incand.	100	11'	
CDS N0906	6	9	Incand.	150	20'	
CDS N0912	12	9	Incand.	138	17'	
CDS N1212	12	12	Incand.	151	18'	
CDS H0606	6	6	Halogen	113	15'	
CDS H0806	6	8	Halogen	163	19'	
CDS H0812	12	8	Halogen	163	15'	
CDS H1212	12	12	Halogen	276	25'	

MR24 Composite Lamps					Spacing@	
Cat. #	Volts	Watts	Type	Lumens	7.5' MH	12' MH
MR24 K0606	6	6	Krypton	90	25	—
MR24 K0906	6	9	Krypton	180	25	24
MR24 K0912	12	9	Krypton	190	25	24
MR24 H1206	6	12	Halogen	238	—	27
MR24 H1212	12	12	Halogen	276	—	28
MR24 H2006	6	20	Halogen	—	—	40
MR24 H2012	12	20	Halogen	314	—	39

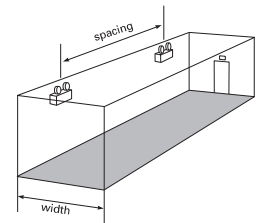
Assumptions for CDS spacings:
 MH = Mounting height
 9' H ceiling
 Illum: 1fc avg., 0.1fc min., 40:1 max/min ratio.
 Reflectances = 80/50/20
 3' wide path of egress
 100'L x 8'W corridor

Distance at which the indicated illuminance is achieved varies with vertical and horizontal angles off of lamp axis.



Assumptions for MR24 spacings 12'
 MH = Mounting height
 Illum.: 1fc avg., 0.1fc min., 40:1 max/min ratio
 Reflectances = 10/10/10
 6' wide path of egress
 200L' x 200W' open area

Assumptions for MR24 spacings at 7.5:
 MH = Mounting height, 9' H ceiling
 Illum.: 1fc avg., 0.1fc min., 40:1 max/min ratio
 Reflectances = 80/50/20
 3' wide path of egress
 Open space with no obstructions



NUMBER OF UNITS/FIXTURES

To determine the number of fixtures, determine the length of the path of egress to be lighted and use the following formula:

$$\# \text{ UNITS/FIXTURE} = \frac{\text{LENGTH}}{\text{SPACING FACTOR}}$$

Actual placement of units or fixtures will vary with unit chosen. Use (a) or (b) as appropriate.

- (a) Unit equipment, twin remote heads, fixtures
Space evenly along path of egress using Spacing Factor. Beams should overlap to provide complete coverage and should be aimed away from eyes of oncoming foot traffic to avoid glare.
- (b) Single head remote
Use the following formula for individual lamp head spacing.

$$\text{SPACING} = \frac{\text{SPACING FACTOR}}{2}$$

Beams should overlap to provide complete coverage and should be aimed away from the eyes of oncoming foot traffic to avoid glare.

Spacing Factors are calculated from a series of points along the centerline of a 3-foot path of egress or a 6-foot path of egress. Illuminance figures shown are initial and will decline as fixtures and buildings age.

Indura Composite Lamps							Fixture Spacing											
							12'MH		14'MH		16'MH		18'MH		20'MH		25'MH	
Cat. #	Volts	Watts	Type	Lumens	Lamp #	Beam	1 FC Avg.	1 FC Min.	1 FC Avg.	1 FC Min.	1 FC Avg.	1 FC Min.	1 FC Avg.	1 FC Min.	1 FC Avg.	1 FC Min.	1 FC Avg.	1 FC Min.
N0806	6	8	Inc.	100	927	Flood	—	—	—	—	—	—	—	—	—	—	—	—
N0906	6	9	Inc.	150	908	Flood	24	—	24	—	24	—	20	—	20	—	18	—
N0912	12	9	Inc.	138	915	Flood	20	—	20	—	19	—	18	—	16	—	—	—
N1212	12	12	Inc.	151	912	Flood	20	—	19	15	18	16	17	16	31	16	28	18
N1812	12	18	Inc.	264	921	Flood	36	—	36	—	31	—	31	15	32	15	28	15
N0924	24	9	Inc.	113	HAS2409W	Flood	—	—	—	—	—	—	—	—	—	—	—	—
N1824	24	18	Inc.	289	CM#1824X	Flood	36	—	36	—	34	—	34	—	35	15	28	15
H0606	6	6	Hal.	113	784	Spot	—	—	—	—	—	—	—	—	—	—	—	—
						Medium	—	—	—	—	—	—	—	—	—	—	—	—
						Flood	—	—	—	—	—	—	—	—	—	—	—	—
H0806	6	8	Hal.	163	785	Spot	25	—	25	—	25	—	24	—	24	—	22	—
						Medium	25	—	25	—	23	—	22	—	21	—	18	—
						Flood	16	—	16	—	15	—	—	—	—	—	—	
H1006	6	10	Hal.	201	787	Spot	25	—	25	—	24	—	24	—	23	—	20	—
						Medium	20	16	19	—	18	—	17	—	16	—	—	—
						Flood	—	—	—	—	—	—	—	—	—	—	—	
H1206	6	12	Hal.	238	786	Spot	32	16	32	—	32	—	30	—	30	—	28	—
						Medium	28	22	28	16	26	16	24	18	22	18	20	15
						Flood	16	15	16	—	15	—	—	—	—	—	—	
H2006	6	20	Hal.	402	788	Spot	38	—	46	16	45	16	43	16	41	16	39	16
						Medium	23	—	32	24	32	24	30	23	28	22	24	18
						Flood	—	—	21	15	—	20	15	15	18	17	—	—
H0812	12	8	Hal.	163	774	Spot	38	—	38	—	38	—	38	—	37	—	33	15
						Medium	35	16	23	—	21	—	21	—	19	—	16	—
						Flood	22	—	—	—	—	—	—	—	—	—	—	
H1212	12	12	Hal.	276	783	Spot	38	—	38	—	38	—	38	—	37	—	33	15
						Medium	26	19	35	17	33	19	31	20	30	21	26	21
						Flood	15	—	15	—	21	—	20	15	18	—	—	—
H2012	12	20	Hal.	314	782	Spot	38	—	38	—	36	—	36	—	34	—	30	15
						Medium	38	—	26	19	23	19	23	18	21	18	17	15
						Flood	24	—	15	—	—	—	—	—	—	—	—	
H2024	24	20	Hal.	300	OS#58662	Spot	38	—	38	—	37	—	35	—	33	—	30	—
						Medium	38	—	38	—	37	15	35	16	33	17	29	19
						Flood	24	—	23	—	22	—	20	—	18	—	15	—

Assumptions for spacings 12' and higher:
 MH = Mounting height
 Illum.: 1fc avg., 0.1 fc min., 40:1 max/min ratio
 1fc min. = 1fc min. at any point
 Reflectances = 10/10/10
 6' wide path of egress
 200L' x 200W' open area

EAC IST EAC ISS



AC Power Systems

Intended Use

Automatic standby AC power systems for incandescent and fluorescent emergency lighting loads that provide full light output for 1-1/2 hours of operation.

Features

PWM inverter type.
IGBT technology allows for universal compatibility.
Microprocessor controlled.
RS232 interface option allows communication with system from remote computer. Low voltage disconnect, short circuit protection, current limiting and brown-out protection.

EAC IST

One compact self-contained cabinet.
12-hour battery recharge. Input circuit breaker. Normally on and off output circuit breakers.

20-character display with touch pad (4x4) controls, functions and data logging.

Programmable self-diagnostic testing for 5 minutes monthly and 90 minutes annually is standard.

20 millisecond transfer time.

EAC ISS

Stackable, modular cabinet design enabling versatile installation.

Systems 4KVA and below are self-contained. Larger systems require external, stackable battery cabinets.

Standard digital meter panel displays input/output voltage, battery voltage, and output current.

24-hour battery recharge standard.

50 millisecond transfer time.

Listings – UL 924 Listed – 90 minutes of emergency operation. These models not available in Canada.

Ordering Information

Example: **EAC LC IST 1350 120/120 OTA**

Family	Battery type	System type	VA rating	Voltage	Options
EAC Emergency AC power system	LC Lead-calcium	IST Interruptible	750 1350	<i>Input/Output</i> 120 / 120 277 / 277	(Blank) None <u>Battery</u> 2HR 2-hour run time 4HR 4-hour run time ¹ <u>Input/Output</u> OTA Output trip alarm <u>Miscellaneous</u> Modem External modem for RS232 3WS External 3-way switch RMP Remote meter panel ² FSP Factory start-up program RS232 Diagnostic interface DFC Form "C" contact DBR Dimmer bypass relay

NOTES:
1 Only available on the 750 VA
2 Not available with the RS232

Ordering Information

Example: **EAC LC ISS 1000 120/120 ICB**

Family	Battery type	System type	VA rating ¹	Voltage ²	Options
EAC Emergency AC power system	LC Lead-calcium NC Wet nickel cadmium	ISS Interruptible	500 750 1000 1500 2000 2400 3000 3600 4000 4500 5000 6000 7500 10000 12500 16600	<i>Input/Output</i> 120 / 120 277 / 277 277 / 120 120 / 120-277 277 / 120-277	<u>Battery</u> 12HR 12-hour battery recharge 30 Day 30 day battery exerciser ELD Electrolyte level detector ³ <u>Electronic</u> VTD Variable time delay <u>Input/Output</u> ICB Input circuit breaker OCB Output circuit breaker (specify quantity and amps) ⁴ OTA Output trip alarm <u>Miscellaneous</u> FSP Factory start-up program RP Remote summary alarm panel MBYP Maintenance bypass switch RS232 Diagnostic interface DFC Form "C" contact

NOTES:
1 Systems 5000VA (5KVA) or larger require external battery cabinets.
2 Consult factory for other voltages.
3 Only available with nickel-cadmium batteries.
4 Standard 20-amp, normally on unless otherwise specified.

EAC FT EAC 3FT

Intended Use

An off-line AC power system for the emergency operation of H.I.D., incandescent and fluorescent emergency lighting loads that provides full light output for 1-1/2 hours of operation.

Features

- Sinusoidal output waveform has <3% THD.
- Off-line uninterruptible system has 2-millisecond transfer time.
- Choice of maintenance-free lead-calcium, or nickel-cadmium batteries.
- Standard circuit protection: low voltage disconnect, short circuit protection, current limiting, fused battery protection, brownout protection, input circuit breaker.
- Factory start-up assistance available upon request.

Listings – UL 924 Listed – 90 minutes of emergency operation. These models not available in Canada.

EAC FT

Output ratings: 1,500 VA to 16,700 VA. Single phase system.

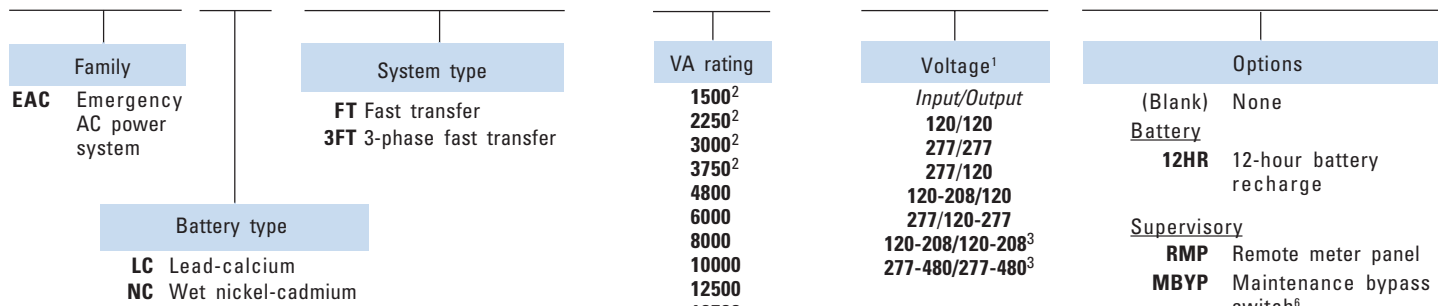
EAC 3FT

Output ratings: 4,800 VA to 50,000 VA. Three-phase system.



Ordering Information

Example: **EAC LC 3FT 6000 120-208/120-208 FSP**



NOTES:

- Consult factory for other voltage requirements. Special voltages may affect the weight, size and number of cabinets.
- Available on FT only.
- Available on 3 FT only.
- Standard 20-amp normally on unless otherwise specified.
- Normally off load cannot exceed 20% of total VA rating with any combination of HID loads.
- Standard on 3 FT.

Ordering Information – Lamp heads on this page can be ordered as separate fixtures, as individual or twin remote heads with a mounting plate.

To Order Remotes: Order as separate line items.

Ordering Information

EXAMPLE: ELA IND H2012

Emergency lighting accessory	Color	Number of lamps	Lamp head style	Options
ELA	(blank) Standard color B Black W White ITN Instrument Tan (Titan Series match). Available on standard PAR36 and NX head only	(blank) Single T Twin	(blank) Standard PAR36 MR24 Multi-faceted reflector CDS Compact Designer Square SSB Square PAR36 IND Indura NX Sealed and gasketed PAR36 MT Metal PAR36 Z Hazardous PAR36 (Class I, Division II)	RMP Round mounting plate (available with CDS lamp head only)
				Lamp type (Select from lamp compatibility chart on page 320) (For Indura sealed beam lamps add suffix S to lamp nomenclature. Example: H3512 S)

Standard PAR36



(Blank)

Width: 4-3/4" (121) single head,
13" (330) twin heads
Height: 7-3/4" (197)
Depth: 5-1/16" (129)

Standard color: Desert tan

Multi-Faceted Reflector



MR24

Width: 4-5/8" (117) single head,
6-5/8" (168) twin heads
Height: 6-5/8" (168) single head,
4-1/2" (114) twin heads
Depth: 2-1/2" (63)

Standard color: white
Quantum® match

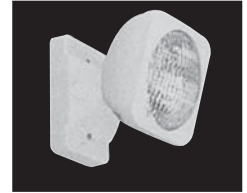
Compact Designer Square



CDS

Width: 3-7/8" (98) single head,
10-5/8" (270) twin heads
Height: 4-1/4" (108)
Depth: 4-1/8" (107)
Standard color: white
6ELM2, 6ELM2P, ELM4,
ELM10 match

Square PAR36



SSB

Width: 4-3/4" (121) single head,
10-1/2" (267) twin heads
Height: 5" (127)
Depth: 4-1/2" (115)

Standard color: white

Indura Remote



IND

Width: 5-7/8" (149) single head,
7-1/8" (181) twin heads
Height: 5-1/8" (130)
Depth: 5-3/8" (137)

Standard color: gray head & mounting plate, blue lamp housing

Sealed & gasketed PAR36



NX

Width: 4-3/4" (121) single head,
13" (330) twin heads
Height: 7-3/4" (197)
Depth: 5-1/16" (129)

Standard color: gray (ELUX match)

Metal PAR36



MT

Width: 4-5/8" (118) single head,
10-1/2" (267) twin heads
Height: 5-1/8" (130)
Depth: 6-1/2" (165)
Standard finish: chrome
Optional finish: white

Hazardous PAR36



Z

Width: 4-3/4" (121) single head,
13" (330) twin heads
Height: 7-3/4" (197)
Depth: 5-1/16" (129)

Standard color: gray Z series match

Mounting Plate Dimensions for MT:

Single Head = 2-3/4 (70) W X 4-1/2 (115) H
Two Head = 4-9/16 (116) W X 4-1/2 (115) H

Mounting Plate Dimensions for IND:

5-1/8 W X 4 11/16 H

Mounting Plate for MR24:

6-7/8 (x) W X 4-5/8 (x) H

Mounting Plate for All Others:

3-1/8 (79) W X 5 (127) H

For photometric information visit our website at www.lithonia.com. Consult factory for additional lamp availability.

All dimensions are inches (millimeters).

Precise®

LED



Edge-Lit Exits

Intended Use

Suitable for architectural applications where aesthetics and superior performance are required.

Features

Long life LEDs feature very low energy consumption and rated life up to 25 years. Injection-molded virgin acrylic panels, ultrasonically welded to eliminate visible hardware. Depth of molded letters increases toward bottom of panel for better, more uniform illumination.

Extruded aluminum housing recesses into wall or ceiling for top, back or end mounting capability.

Chevron directional indicators.

Housing attaches directly to the J-box with the top-mount (TM) option. Can be used for pendant mounting.

Special wording available; consult factory.

SORTIE available. Specify **SORTIE** at end of catalog number.

Optional DC input for LED lamp (6, 12, 24, 32 and 48V source).

Listings – CSA Certified. C860 Certified.

Chevron Direction

Specification (add to catalog number)	Graphics	
	Back	Front
LA		<EXIT
RA		EXIT>
LRA (single face)		<EXIT>
DA	<EXIT	EXIT>
LRA (double face)	<EXIT>	<EXIT>

Dimensions are shown in inches (millimeters) unless otherwise noted.

Panel/Trim Assembly

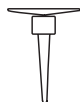


RECESSED END MOUNT

Panel length (from wall): 13-1/2 (343)
 Panel height: 10 (254)
 Trim height: 14-3/4 (375)
 Panel depth: 1-7/8 (47)
 Weight: 5 lbs. (2.3 kgs.)

RECESSED CEILING MOUNT

Panel length: 13-1/4 (336)
 Trim length: 14-3/4 (375)
 Height (below ceiling): 8 (203)
 Trim width: 5 (127)
 Weight: 5 lbs. (2.3 kgs.)



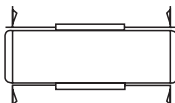
RECESSED BACK MOUNT

Panel length: 13-1/4 (336)
 Trim length: 14-3/4 (375)
 Total height: 11-1/2 (292)
 Depth (from wall): 1-7/8 (47)
 Weight: 5 lbs. (2.3 kgs.)

TOP MOUNT

Panel length: 13-1/4 (336)
 Trim length: 13-1/8 (333)
 Panel height: 8 (203)
 Weight: 5 lbs. (2.3 kgs.)

Rough-In Section



Length: 13-5/8 (346)
 Width: 4-1/2 (114)
 Depth: 3-1/8 (80)

Ordering Information

Example: **LRP W 1 RC LA 120/347 CSA**

Family LRP LED	Number of faces 1 Single 2 Double	Input voltage 120/347 Dual voltage	Item type (blank) Complete exit panel and rough-in section PNL Panel assembly only	Exit signage (blank) Exit SORTIE Sortie ³ ES3 Exit-Sortie faceplate (3" letters) ³ SE3 Sortie-Exit faceplate (3" letters) ³
Housing Color (blank) Brushed aluminum W White B Black BZ Bronze BS Brass CR Chrome U Unfinished	Panel color letter/background RW Red on white RC Red on clear ^{1,3} RMR Red on mirror ^{2,3}	Mounting (blank) Recessed ceiling or back mount EM Recessed end mount TM Top mount ⁴	Directional indicators (blank) No chevrons LA Left RA Right LRA Left and right DA Double-face chevrons	Certification CSA CSA Certified
			Operation (blank) Standard non-emergency LDC6 6V DC input for LED lamps ³ LDC12/48 12-48V DC input for LED lamps ³	

Accessories (Order separately)

LED ROUGH IN SECTION⁵
Standard

ELA LCRIS 1 or 2 face
ELA R LRIS 120/347 LDC12/48 CSA 1 or 2 face with LDC 12/48 option
ELA R LRIS 120/347 LDC6 CSA 1 or 2 face with LDC6 option

Pendant mounting

ELA US12 12" pendant mounting kit with brushed aluminum canopy.^{4,6}

NOTES:

- 1 Single-face only.
- 2 Mirror background simulates clear for double-face option.
- 3 Not available with C860 certification.
- 4 No rough-in section required. Not available with **LDC6**, or **LDC12/48** options.
- 5 Supplied standard with exit unless PNL suffix is specified. Order separately only if necessary for early installation.
- 6 Top-mount exits only.

For additional options, accessories and fixture compatibility, see pages 337-338.

Electrical Application Data				
Primary Circuit				
Type	Volts	No. of Faces	Amps	Watts
LED	120	1	.09	1.4
	347	1	.09	1.5
LED	120	2	.09	2.7
	347	2	.09	2.8
Emergency Circuit				
Type	Volts	Faces	Amps	Watts
LDC6	6	1	.20	1.2
LDC12/48	12	1	.12	1.5
LDC12/48	24	1	.06	1.5
LDC12/48	32	1	.05	1.5
LDC12/48	48	1	.04	1.6
LDC6	6	2	.40	2.40
LDC12/48	12	2	.23	2.75
LDC12/48	24	2	.12	2.75
LDC12/48	32	2	.09	2.79
LDC12/48	48	2	.06	2.89

Signature® LED



Intended Use

Ideal for applications requiring attractive die-cast aluminum signage, superior illumination and low energy consumption.

Features

Solid, die-cast aluminum housing – smallest sign on the market. Standard finish is brushed aluminum face with matte black housing. Other finishes available.

The self-diagnostic emergency signs automatically tests the battery once a month for five minutes and once every six months for 30 minutes.

Completely concealed chevron directional indicator knockouts and mounting hardware.

Long-life LEDs feature very low energy consumption and rated life up to 25 years.

A standard red LED exit consumes only .73 watts of electricity at 120 volts.

LEDs provide uniform graphics illumination. Meets 3/4" letter stroke requirements. Maintains 100% brightness in emergency mode.

Emergency exits contain maintenance-free nickel-cadmium battery and reliable, solid-state charging system.

Universal mounting – top, back or end. Double face available with top or end mounting only (canopy included).

Listings – CSA Certified. C860 Certified.

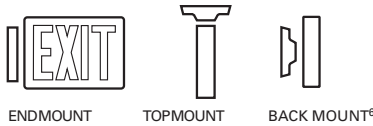
Ordering Information

Example: **LE S W 1 R 120 EL N SD CSA**

Family	Housing color	Panel color	Input voltage	Operation	Options
LE LED LRE LED recessed	(blank) Matte black, brushed aluminum face BZ Dark Bronze ¹ W White B Matte black	R Red	120 120V ³ 347 347V ³ 120/347 Dual voltage ⁴	(blank) Standard non-emergency EL N SD Nickel-cadmium battery with self-diagnostics ² LDC6 6V DC input for LED lamps ^{2,3} LDC12/48 12-48V DC input for LED lamps ^{2,3}	For additional options and fixture compatibility, see page 338.
Face type	Number of faces	Exit signage	Certification		
S Stencil	1 Single 2 Double ²	(blank) Exit SORTIE Sortie ^{1,2} ES3 Exit-Sortie faceplate (3" letters) ^{1,2} SE3 Exit-Sortie faceplate (3" letters) ^{1,2}	CSA CSA Certified		

Dimensions are shown in **inches (millimeters)** unless otherwise noted.

LED



Width: 11-3/8 (289)
Height: 7-7/8 (200)
Depth: 1-3/4 (45)
Add 2-1/4 (57) for canopy
Weight: (Standard) 5 lbs. (2.3 kgs)
(Emergency) 9 lbs. (4.1 kgs)

Recessed



Width: 12-15/16 (329)
Depth: 4 (102)
Height: 9-7/16 (240)
Weight: (Standard) 10 lbs. (4.5 kgs)

Electrical Application Data					
Primary Circuit					
Type	Volts	Faces	Amps	Watts	
Standard LED red	120	1 or 2	.04	.73	
	347	1 or 2	.06	1.2	
Emergency LED red	120	1 or 2	.03	2.8	
	347	1 or 2	.01	2.9	

Emergency Circuit					
Type	Faces	Volts	Amps	Watts	Lamp No.
LDC6	1 or 2	6	.20	1.2	CF
LDC12/48	1 or 2	12	.12	1.5	CF
LDC12/48	1 or 2	24	.06	1.5	CF
LDC12/48	1 or 2	32	.05	1.5	CF
LDC12/48	1 or 2	48	.04	1.6	CF

Accessories⁵ (Order separately)

ELA B US12	12" pendant kit with black canopy
ELA ERK	Rough in kit, order only if required before sign is delivered.

NOTES:

- 1 Not available with CSA C860.
- 2 Not available with recessed exits.
- 3 Only available on emergency signage.
- 4 Only available on non-emergency signage.
- 5 For additional accessories, see page 337.
- 6 Canopy required for ELN SD or LDC option.

Extruded Aluminum

LED



Extruded Aluminum Exits

Intended Use

Ideal for applications requiring attractive extruded aluminum signage, superior illumination and low energy consumption.

Features

Constructed of extruded aluminum, 2.35mm thick.

Long-life LEDs feature very low energy consumption and rated life up to 25 years.

Consumes less than one watt of energy.

Optional DC input for LED lamp (6, 12, 24, 32 and 48V source).

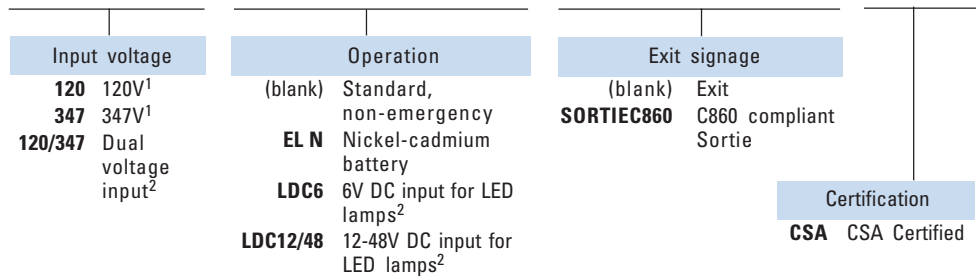
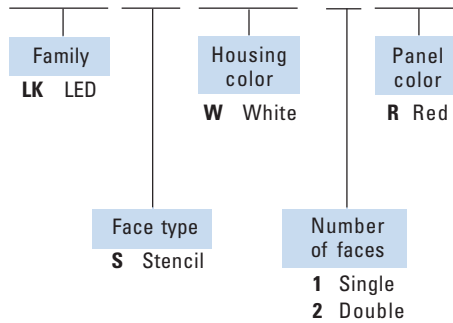
Universal mounting – top, back or end mounting. Double face available with top or end mount only (canopy included).

Tamper-resistant.

SORTIE available. Specify **SORTIEC860** at end of catalog number.

Listings – CSA Certified. C860 Certified.

Ordering Information



Example: **LK S W 1 R 120 EL N CSA**

Dimensions are shown in **inches (millimeters)** unless otherwise noted.

LK Series



Width: 12-1/2 (318)
Height: 7-7/8 (200)
Depth: 2-1/2 (64)
Add 1/2 (13) for canopy

Sortie C860 option



Width: 18-1/2 (470)
Depth: 2-1/2 (63)
Height: 8-5/8 (219)
Add 1/2 (13) for canopy

Electrical Application Data				
Primary Circuit				
Type	Volts	Amps	Watts	
Standard	120	.05	.58	
	347	.05	.51	
Emergency	120	.028	2.38	
	347	.009	2.51	
Emergency Circuit				
Type	Volts	Amps	Watts	
LDC6	6	.16	.96	
LDC12/48	12	.10	1.2	
LDC12/48	24	.05	1.24	
LDC12/48	32	.04	1.28	
LDC12/48	48	.03	1.36	

NOTES:

- 1 Only available on emergency signage.
- 2 Only available on standard, non-emergency LED exit.

For options, accessories, fixture compatibility, and battery information, see pages 337-338.

Accessories (Order separately)

- ELA WGEX** Back-mount wireguard
- ELA WGEXT** Top-mount wireguard
- ELA WGEXE** End-mount wireguard
- ELA W US12** 12" stem kit with white canopy

Extreme®

LED, Incandescent



Intended Use

Suitable for wet location, security prisons and high abuse applications.

Features

Ideal for high abuse and wet location applications such as schools, security areas/prisons and parking garages.

Durable cast-aluminum construction. Rugged housing is 6mm to 13mm thick.

Clear UV-stable polycarbonate cover is 3mm thick to prevent cracking or breaking. Secured with four stainless steel Torx T20 tamperproof screws with center pin.

Completely concealed chevron directional indicator knockouts.

LV — Long-life LEDs feature very low energy consumption and rated life up to 25 years.

V — Two long-life 19,000 hour rated life, energy efficient incandescent lamps (145V 15T6) consume less than 11 watts per lamp.

Universal mount – top, back, end mounting or conduit entry. Double face available with top or end mounting only. (canopy provided).

Optional DC input for incandescent lamps (6, 12 and 24V sources).

Optional DC input for LED lamps (6, 12, 24, 32 and 48V sources).

Listings – CSA Certified.

Ordering Information

Example: **LV S W 1 R 120/347 UM CSA**

Face type S Stencil P Panel ^{1,2}	Number of faces 1 Single 2 Double	Input voltage 120 120V ⁴ 347 347V ⁴ 120/347 Dual voltage ⁶	Operation (blank) Standard non-emergency EL N Nickel-cadmium battery ⁵ DC12 12V DC lamp and socket ² LDC6 6V DC input for LED lamp ⁶ LDC12/48 12-48V DC input for LED lamps ⁶	Exit signage (blank) Exit SORTIE Sortie ^{1,2,3}	Certification CSA CSA Certified
Family LV LED V Incandescent ¹	Panel color letter/background R Red WR White on red ^{2,3} RW Red on white ^{2,3}	Mounting (blank) Back mount UM Universal mount ⁷	Options WL Suitable for wet-mounting applications For additional options and fixture capabilities, see page 338.		

Faceplate/housing color

- (blank) Black faceplate on black housing
- W** White on white
- BW** Black on white
- WB** White on black
- AB** Aluminum on black¹
- AW** Aluminum on white¹

Accessories (Order separately)

ELA TPS T20 Torx tamperproof bit for T20 centerpin screw

NOTES:

- 1 Not available with C860 certification.
- 2 Not available with LED exits.
- 3 Not available with stencil-face exits.
- 4 Only available with incandescent or emergency exits.
- 5 Only available with LED exits.
- 6 Not available with incandescent or emergency exits.
- 7 Universal mount standard with conduit entry (1/2" - 14 UNC)
- 8 Lamptype 145V 15T6.

Electrical Application Data				
Primary Circuit				
Type	Volts	Faces	Amps	Watts
LED Standard	120	1	.14	2.23
	120	2	.13	3.80
	347	1	.14	1.92
	347	2	.13	3.74
LED Emergency	120	1	.11	13.27
	120	2	.10	8.14
	347	1	.04	12.65
	347	2	.03	7.83
Incandescent ⁸	120	1 or 2	.20	24
	347	1 or 2	.06	21
Emergency Circuit				
Type	Volts	Faces	Amps	Watts
LDC6	6	1	.24	1.44
LDC12/48	12	1	.15	1.90
LDC12/48	24	1	.07	1.79
LDC12/48	32	1	.06	1.76
LDC12/48	48	1	.04	1.73
LDC6	6	2	.48	2.88
LDC12/48	12	2	.26	3.11
LDC12/48	24	2	.13	3.05
LDC12/48	32	2	.10	3.25
LDC12/48	48	2	.07	3.35
DC6	6	1 or 2	1.5	9
DC12	12	1 or 2	.75	9
DC24	24	1 or 2	.375	9

Dimensions are shown in inches (millimeters) unless otherwise noted.

ENDMOUNT/TOPMOUNT/BACKMOUNT

- Width: 13-7/8 (352)
- Height: 8-5/8 (219)
- Depth: 3 (76); add 3 (76) for canopy;
- Weight: (Standard): 11 lbs. (5 kgs.) (Emergency): 11.5 lbs. (5.2 kgs.)



Quantum®

LED Quick-Mount®



Contemporary Thermoplastic Exits

Intended Use

Ideal for applications requiring attractive, quick installation exit signs and low energy consumption.

Features

Precision-molded thermoplastic housing is impact and scratch-resistant, corrosion-proof and UV-stabilized to resist discoloration.

Innovative snap-together design allows installation in less than three minutes.

Long-life LEDs feature very low energy consumption and rated life up to 25 years. Consumes less than one watt of energy.

Fully assembled single-face exit with optional extra faceplate for easy field conversion to double face.

Replaceable chevron directional indicator knockouts for choice of direction.

Universal mounting capability – top, back or end. (canopy included).

Automatic recharge after discharge.

Conveniently located test switch and status indicator provide visual and manual means of monitoring system operation.

Canadian Patent No. 2,204,218. Other patents pending.

Listings - CSA Certified.

Ordering Information

Example: **LQM S W 3 R 120 EL N CSA**

Family	Housing color	Number of faces	Panel color	Input voltage	Operation	Options
LQM LED	W White	3 Single with extra faceplate and color panel for field conversion to double-face	R Red	120 120V ² 347 347V ² 120/347 Dual voltage ³	(blank) Standard non-emergency EL N Nickel-cadmium battery ⁴ LDC6 6V DC input for LED lamps ³ LDC12/48 12-48V DC input for LED lamps ³	For options and fixture compatibility, see page 338. Certification CSA CSA Certified
Face type						
S Stencil						

Accessories (Order separately)

ELA W US12	12" stem kit with white canopy
ELA WGEX	Back-mount wireguard
ELA WGEXT	Top-mount wireguard
ELA WGEXE	End-mount wireguard
ELA LQMSORTIE	SORTIE face plate kit ¹

Quick-Mount Installation:

- 1) Connect jumper leads (provided) to AC input leads in J-box. Fasten canopy to J-box bracket.
- 2) Remove faceplate from housing and snap housing onto canopy.
- 3) Connect input leads to leads at corner of housing wire channel. Connect battery.
- 4) Snap out directional chevron indicators (if necessary) and snap faceplate onto canopy.

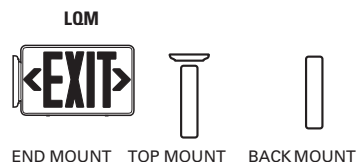
NOTES:

- 1 Letters 6" high with 5/8" stroke.
- 2 Only available with emergency signage.
- 3 Not available with emergency signage.
- 4 Not available with C860 certification.

For additional options, accessories, fixture compatibility and battery information, see pages 337-338.

Electrical Application Data				
Primary Circuit				
Type	Volts	Amps	Watts	
Standard	120	.05	.62	
LED red	347	.05	.77	
Emergency Circuit				
Type	Volts	Amps	Watts	Lamp No.
LDC6	6	.16	.96	CF
LDC12/48	12	.10	1.20	CF
LDC12/48	24	.05	1.24	CF
LDC12/48	32	.04	1.28	CF
LDC12/48	48	.03	1.36	CF

Dimensions are shown in **inches (millimeters)** unless otherwise noted.



Width: 12-1/4 (311)
Height: 7-1/2 (191)
(Add 7/8 (22) for canopy)
Depth: 2 (51)
Weight: 2 lbs. (.9 kgs.)

Quantum[®]

Incandescent Quick-Mount[®]

Intended Use

Ideal for applications requiring attractive, quick installation exit signs and exit/unit combos. Streamline design of exit/unit combo is 10" tall and great for above the door applications.

Features

Two long-life 19,000 hour rated life, energy efficient incandescent lamps (145V 15T6) consume less than 11 watts per lamp.

Precision-molded thermoplastic housing is impact- and scratch-resistant, corrosion-proof and UV-stabilized to resist discoloration.

Fully assembled single-face exit with optional extra faceplate for easy field conversion to double face.

Replaceable chevron directional indicator knockouts for choice of direction.

Quick-mount installation. Innovative, snap-together design allows for installation in less than three minutes.

QM

Universal mounting capability – top, back or end (canopy included).

HQM

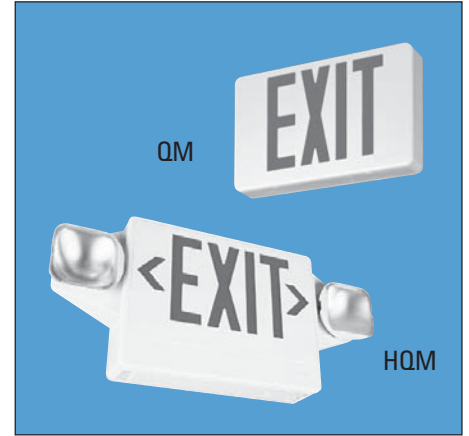
Side-mount lamp heads reduce overall height, allowing for easy fit over doorways.

Sealed, maintenance-free, lead-calcium battery standard.

Top or back mounting (canopy included).

QM and HQM: Canadian Patent No. 80,141, 2,180,495 and 2,184,940.

Listings – CSA Certified.



Ordering Information

Example: **QM S W 3 R 120/347 CSA**

Family QM Incandescent exit HQM Incandescent exit/unit	Face type S Stencil	Housing color W White	Panel color R Red	Input voltage 120 120 ¹ 347 347 ¹ 120/347 Dual voltage ²	Options¹ R0 Less lamp heads H0806 8W, 6V halogen composite lamps H1206 12W, 6V halogen composite lamps	Certification CSA CSA Certified
Wattage Capacity¹ (blank) 6V/36W 672 6V/72W		Number of faces 3 Single with extra faceplate and color panel		Operation² (blank) Standard non-emergency socket for 6, 12, or 24 lamp DC 6V DC lamp and socket DC6 6V DC lamp and socket DC12 12V DC lamp and socket		

Primary Circuit			
Type	Volts	Amps	Watts
Standard incandescent ⁴	120	.22	22.4
	347	.06	21.0
Emergency Circuit			
Type	Volts	Amps	Watts
DC6	6	1.5	9
DC12	12	.75	9
DC24	24	.34	9

Accessories³ (Order separately)

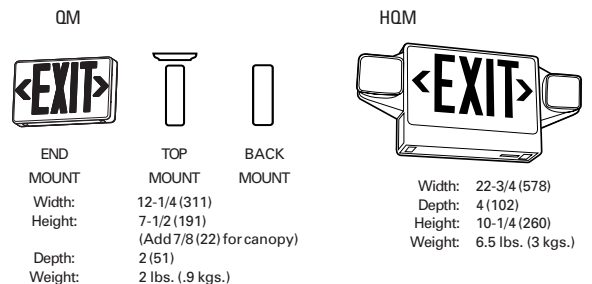
ELA W US12	12" stem kit with white canopy
ELA WGEX	Back-mount wireguard for exit
ELA QMSORTIE	SORTIE faceplate kit ^{2,5}
ELA HQMSORTIE	SORTIE faceplate kit ^{1,5}
ELA WGHQM	Back mount wireguard for combo

HQM Electrical Application Data										
Electrical				Standard Lamp						
AC lamp description	Volts	Amps	Watts	Output volts	Capacity	Output watts ⁵			Catalog number	Watts
						1/2 hrs.	1 hr.	2 hrs.		
Incandescent ⁴	120	.30	32	6	HQM	36	18	9	CDSN0606	5.4
	347	.10	34			HQM 672	72	36		

NOTES:

- For HQM only.
- For QM only.
- For additional accessories, see page 337.
- Lamp type 145V 15T6.
- Letters 6" high, 5/8" stroke.
- DC lamps in exit/unit combo use 8 watts of total available output watts.

Dimensions are shown in **inches (millimeters)** unless otherwise noted.





Die-Formed Steel Exits and Exit/Unit Combos

Intended Use

Suitable for applications requiring heavy duty steel exit signage and/or unit combo, such as a light industrial warehouse or manufacturing facility.

Features

20-gauge steel construction. White baked enamel finish standard.

Knockout indicators for choice of direction.

LX/X

LX – Long-life LEDs feature very low energy consumption and rated life up to 25 years.
 X – Two long-life, 1,900-hour rated life, energy-efficient incandescent lamps (145V 15T6) consume less than 11 watts per lamp.

Optional DC input for LED lamps (6, 12, 24, 32 and 48V DC source).

Optional DC input with incandescent lamps. (6, 12 and 24V DC source).

Universal mounting — top, back or end. Double face available with top or end mounting only (canopy included).

HX

Two adjustable lighting heads.

Two long-life 19,000 hour rated life, energy efficient incandescent lamps (145V 15T6) consume less than 11 watts per lamp.

Sealed, lead-calcium maintenance-free battery. Solid-state charger.

Brownout protection and DC fuse.

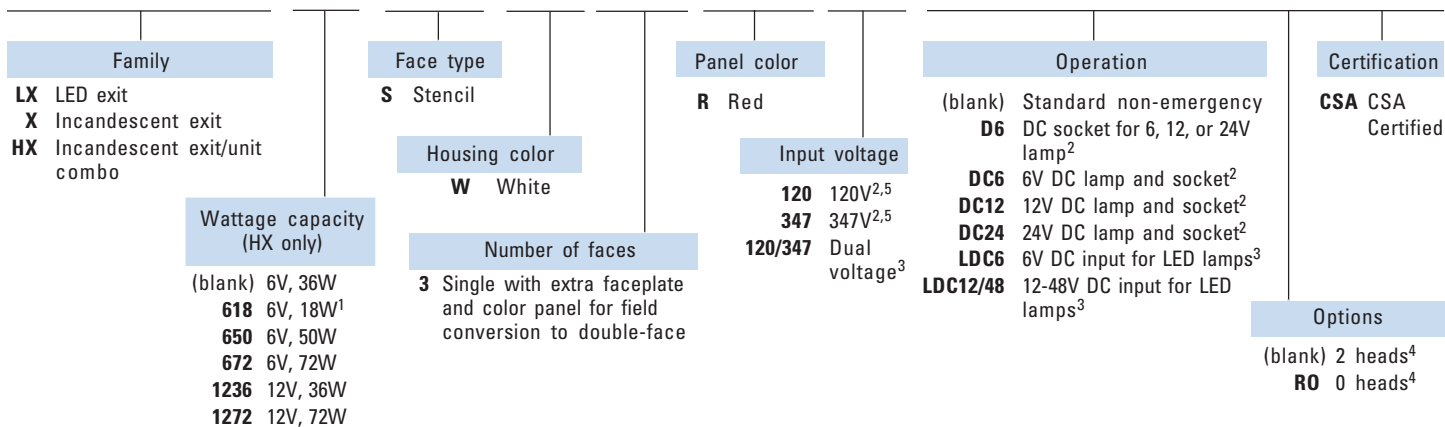
Low voltage disconnect and AC reset.

Available with top or back mounting (canopy included).

Listings – CSA Certified.

Ordering Information

Example: **LX S W 3 R 120/347 LDC6 CSA**



Electrical Application Data – LX, X				
Primary Circuit Type	Volts	Amps	Watts	
LED	120	.05	.62	
	347	.05	.77	
Incandescent ²	120	.20	24	
	347	.11	26	

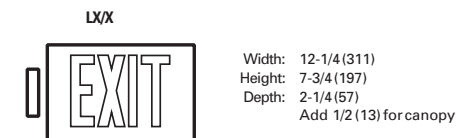
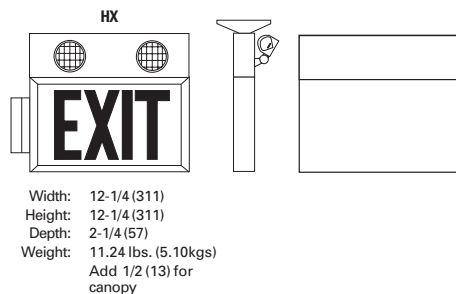
Emergency Circuit				
Type	Volts	Amps	Watts	Lamp No.
LDC6	6	.16	.96	CF
LDC12/48	12	.10	1.20	CF
LDC12/48	24	.05	1.24	CF
LDC12/48	32	.04	1.28	CF
LDC12/48	48	.03	1.36	CF
DC6	6	1.5	9	908
DC12	12	.75	9	915
DC24	24	.375	9	EMS2409

Electrical Application Data – HX			
Primary Circuit Type	Volts	Amps	Watts
Incandescent ²	120	.30	33
	347	.11	35

Accessories (Order separately)

- ELA W US12** 12" pendant stem with white canopy
- ELA WGEX** Back-mount wireguard for exit
- ELA WGEXT** Top-mount wireguard for exit
- ELA WGEXE** End-mount wireguard for exit
- ELA LXSORTIE** Sortie faceplate kit³
- ELA X/HXSORTIE** Sortie faceplate kit⁴

Dimensions are shown in inches (millimeters) unless otherwise noted.



- NOTES:
- 1 Only available with RO lamp head option.
 - 2 Incandescent exits only.
 - 3 LED models only.
 - 4 Available with HX only.
 - 5 Available with incandescent exit/unit combo.

Intended Use

The Merlin LED exit retrofit kit makes energy and maintenance costs disappear. With Merlin, virtually any stencil-face incandescent exit (120V, 277V or 347V with stepdown transformer; standard or emergency; single or double face; top, end or back mount) can be upgraded to an energy-efficient LED sign. The LED light tubes simply install into the existing sockets. Each LED light tube consumes only *one watt* of energy, and the LEDs feature a rated life up to 25 years.

Features

Compatible with 120V, 277V or 347V (with stepdown transformer) stencil-face incandescent exits.

Long-life LEDs – rated life up to 25 years.

Each LED light tube consumes only one watt of energy (two LED light tubes included in each kit).

Quick installation. LED light tubes screw into existing sockets.

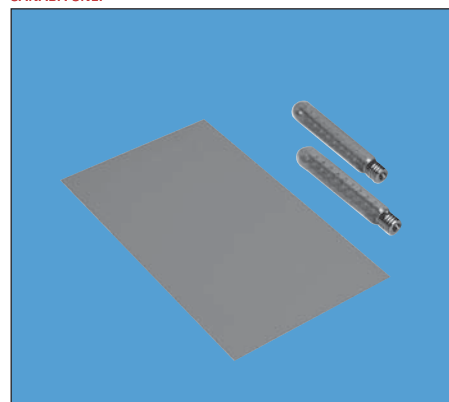
Optional LED red diffuser enhances exit illumination.

U.S. Patent No. 5,463,280.

Listings - CSA Certified.

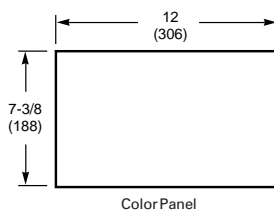


Merlin™



Order Number Example: LRK IN

Family	Socket base type
LRK LED retrofit kit (two LED light tubes)	IN Intermediate
	DB Double-contact bayonet
	CA Candelabra



NOTES:

- Optional LED red diffuser enhances exit illumination.
- Based on two LED light tubes.

Accessories (Order separately)

Cat. Number	Description
ELA LRD M6	One carton of six red LED color panels (merchandise packaging) ¹
ELA LRD M24	Four cartons of six red LED color panels (merchandise packaging) ¹
ELA LRD BP	One red LED color panel (bulk-style packaging) ¹

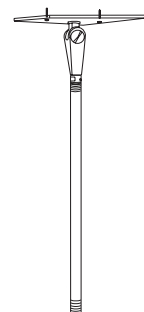
Double-Contact Bayonet Base	Intermediate Base	Candelabra Base
Height: 5-1/2 (140) Diameter: 13/16 (21)	Height: 5-1/2 (140) Diameter: 13/16 (21)	Height: 4-1/2 (114) Diameter: 13/16 (21)

Electrical Application Data ²		
Volts	Amps	Watts
120	.06	2

Exit Accessories

Stem Kits¹

ELA US12



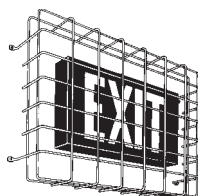
Signature LE standard, Precise LRP with TM option, Quantum, Titan LED incandescent and extruded aluminum LED.

NOTES:

- Stem color is brushed aluminum. Standard canopy color is brushed aluminum. To order white or black canopy, add **W** or **B** to catalog number. For other lengths, replace 12 with appropriate stem length in inches. Example: ELA **W** US24
- See page 343 for additional wireguard information.
- Supplemental emergency circuits designed for normally off operation only.
- For other voltages, replace DC6 with DC12.

Wireguards²

ELA WGEX	Back-mount wireguard (shown) 13 ⁵ / ₈ "W x 13 ⁵ / ₈ "H x 4 ³ / ₄ "D
ELA WGEXT	Top-mount wireguard 14"W x 10"H x 5"D
ELA WGEXE	End-mount wireguard 15"W x 11"H x 4 ³ / ₄ "D
ELA WGHXT	Ceiling and end-mount for Titan Combo 19"W x 12"H x 13"D



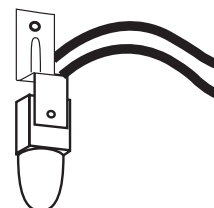
DC Input Kits³

Quantum® Series

ELA QDC6 CSA⁴	6V 9W kit
ELA QLDC6 CSA	6V LED DC kit
ELA QLDC12/48 CSA	12/48V LED DC kit

Extruded Aluminum Series

ELA KLDC6	6V LED DC kit
ELAKLDC12/48	12/48V LED DC kit





■ Option □ Standard

	LDC6	TP	VR	EL N	SD	WL	DL	R0	DC	DC12,24	DC6	SE3	ES3
	LDC12/48										SORTIE		
LE	■	■	■		■ ³		■				■	■	■
LRE		■	■				■						
LK	■	■		■ ³							■		
V		□	□			■	■			■	■		
LV	■	□	□	■ ³		■	■						
LRP	■ ²										■	■	■
QM							■		■	■	■ ⁵		
LQM	■			■ ³			■				■ ⁵		
HQM								■			■ ⁵		
LX	■								■		■ ⁵		
X									■	■	■ ⁵		
HX								■			■ ⁵		

Option	Description
--------	-------------

LDC6	6V DC input for LED lamps ⁴
LDC12/48	12-48V DC input for LED lamps ⁴
TP	Tamperproof screws
VR	Vandal-resistant shield
EL N	Nickel-cadmium battery ¹
WL	Suitable for wet- mounting applications
DL	Suitable for damp locations
R0	Less lamp heads ¹
DC	DC socket ⁴
DC6,12,24	6, 12 or 24V DC socket and lamps ⁴
SD	Self-diagnostics ¹
SORTIE	Sortie
SE3	Sortie-Exit (3" letters)
ES3	Exit-Sortie (3" letters)

NOTES:

- 1 Only available with exits containing a battery.
- 2 Not available with TM mounting option.
- 3 No remote capability.
- 4 Only available with standard, non-battery exits.
- 5 Available as faceplate kit only (consult factory).

Exit Replacement Batteries

Exits	ELB06042 lead calcium L: 2-3/4 (70) W: 1-7/8 (48) H: 4-1/8 (102)	ELB0607 lead calcium L: 4 (102) W: 1-1/2 (38) H: 6 (152)	ELB 06072 lead calcium L: 6 (152) W: 1-1/2 (38) H: 4 (102)	ELB 06122 lead calcium L: 4-1/4 (108) W: 2-3/4 (70) H: 6 (152)	ELB 1207 lead calcium L: 4-1/4 (108) W: 2-3/4 (70) H: 6 (152)	ELB 1201N nickel-cadmium L: 1-5/8 (43) W: 1/4 (6) Dia.	ELB 4814N nickel-cadmium L: 3-1/2 (89) W: 1-3/4 (45) H: 7/8 (22)	ELB 0701N nickel-cadmium L: 5-1/4 (134) W: 1-3/4 (45) H: 7/8 (22)
QM EL	1X							
LQM EL N						1X		
HQM		1X						
LE EL N						2X		
LK EL N						1X		
LV EL N (1 face)							1X	
LV EL N (2 face)								1X
HX618/36			1X					
LHX618/36			1X					
HX650/72				1X				
LHX650/72				1X				
HX1236/72					1X			
LHX1236/72					1X			

Number equals quantity of batteries.
Not all batteries and equipment are shown.
Consult factory for additional requirements.

Intended Use

Provides a minimum of 30 minutes of illumination for the rated wattage upon loss of AC power. Ideal for applications requiring attractive unit equipment with quick installation.

Features

Thermoplastic housing is impact-resistant, scratch-proof, corrosion-proof and UV-stabilized to resist discoloration.

Six-volt maintenance-free lead-calcium battery. Low-voltage disconnect and AC reset.

ELM/ELM2 snap-together construction allows for installation in three easy steps in less than three minutes.

ELM2/6ELM2 feature a unique track and swivel design that permits full-range adjustment of lamp heads.

Three-foot cordset (**CS**) (6ELM2 120V only). ELM CSR eight-foot cordset is standard.

ELM/ELM2 dual-voltage input (120/347V). 6ELM2 requires 120V or 347V input specification.

Vandal-resistant ELA VS2 polycarbonate shield available. See page 343.

6ELM2 will power a variety of remote devices up to 36 watts. (see page 342 for remotes).

Wall or ceiling mounted.

Listings – CSA Certified.



Ordering Information

Example: **6ELM2 120 CS CSA**

■ Option □ Standard

Catalog Number	OPTION SUFFIXES					STANDARD LAMPS	
	120	347	H	CS	CSA	Cat. No.	Watts
ELM	□	□			■	939	5.4
ELM CSR	□				■	939	5.4
ELM2	□	□			■	939	5.4
6ELM2	■	■	■	■	■	908	9

Option	Description
H	8W halogen lamps (6ELM2)
CS	3-foot cordset (6ELM2 120V only)
120	6ELM2 – specify voltage
347	6ELM2 – specify voltage
CSA	CSA Certified

ELM/ELM2 Quick-Mount Installation:

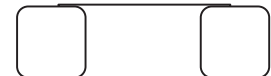
- 1) Feed leads through mounting plate and make connections to AC power supply.
- 2) Align mounting plate on J-box and secure with screws.
- 3) Connect battery and snap housing onto mounting plate.

Drawings for are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (millimeters)** unless otherwise noted.



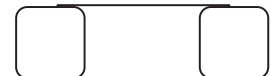
Width: 11-3/4 (298)
Depth: 2-3/8 (60)
Height: 5 (127)
Weight: 3.0 lbs. (1.4 kgs.)

ELM2



Width: 16-1/4 (412)
Depth: 4 (102)
Height: 5-1/8 (130)
Weight: 4.0 lbs. (1.8 kgs.)

6ELM2



Width: 16-1/4 (412)
Depth: 5-3/8 (137)
Height: 5 (127)
Weight: 7.5 lbs. (3.4 kgs.)

	Electrical Application Data							
	AC INPUT			OUTPUT		OUTPUT WATTS		
	Volts	Amps	Watts	Volts	1/2 hr.	1 hr.	1-1/2 hrs.	2 hrs.
ELM	120	.216	1.3	6	10.8	10.8	10.8	8
ELM CSR	120	.216	1.3	6	10.8	10.8	10.8	8
ELM2	120	.216	1.3	6	10.8	10.8	10.8	8
6ELM2	120	.10	10.9	6	36	18	12	9
	347	.04	12.7	6				

Titan

M6, M12, M24 Series



M12

Ordering Information

Family	
6 Volts	
M618	18 watts
M636	36 watts
M650	50 watts
M672	72 watts
12 Volts	
M1236	36 watts
M1272	72 watts
M12100	100 watts
M12150	150 watts
12 Volts (cont.)	
M12200	200 watts
M12250	250 watts
M12360	360 watts
24 Volts	
M24200	200 watts
M24360	360 watts
M24560	560 watts
M24720	720 watts

	Electrical Application Data									
	AC INPUT		OUTPUT Volts	OUTPUT WATTS				STANDARD LAMP		
	Volts	Amps		Watts	1/2 hr.	1 hr.	1-1/2 hrs.	2 hrs.	Cat. No.	Watts
M618	120	.3	33	6	18	9	6	4.5	908	9
	347	.11	35	6	36	18	12	9	908	9
M636	120	.3	33	6	36	18	12	9	908	9
	347	.11	35	6	50	25	16.5	12.5	908	9
M650	120	.3	33	6	50	25	16.5	12.5	908	9
	347	.11	35	6	72	36	24	18	908	9
M672	120	.3	33	6	72	36	24	18	908	9
	347	.11	35	6	72	36	24	18	908	9
M1236	120	.3	33	12	36	18	12	9	915	9
	347	.11	35	12	36	18	12	9	915	9
M1272	120	.3	33	12	72	36	24	18	915	9
	347	.11	35	12	72	36	24	18	915	9
M12100	120	.3	33	12	100	50	33	25	915	9
	347	.11	35	12	100	50	33	25	915	9
M12150	120	.3	33	12	150	75	49.5	37	915	9
	347	.11	35	12	150	75	49.5	37	915	9
M12200	120	.3	33	12	200	100	66	49.5	915	9
	347	.11	35	12	200	100	66	49.5	915	9
M12250	120	.3	33	12	250	125	82.5	62	915	9
	347	.11	35	12	250	125	82.5	62	915	9
M12360	120	.3	33	12	360	180	119	89	915	9
	347	.11	35	12	360	180	119	89	915	9
M24200	120	.3	33	24	200	100	66	49.5	EMS2409	9
	347	.11	35	24	200	100	66	49.5	EMS2409	9
M24360	120	.3	33	24	360	180	119	89	EMS2409	9
	347	.11	35	24	360	180	119	89	EMS2409	9
M24560	120	.3	33	24	560	280	185	139	EMS2409	9
	347	.11	35	24	560	280	185	139	EMS2409	9
M24720	120	.3	33	24	720	360	238	178.5	EMS2409	9
	347	.11	35	24	720	360	238	178.5	EMS2409	9

Die-Formed Steel Emergency Lighting Units

Intended Use

Provides a minimum of 30 minutes of illumination for the rated wattage upon loss of AC power.

Features

Rugged 20-gauge steel cabinet with white baked enamel finish standard.

Two PAR18 polycarbonate composite lamp heads, utilizing 9W T5 wedge-base lamps, metalized reflectors and prismatic polycarbonate lens for superior optical control.

Unique swivel stem connector allows lamp head to rotate 355 degrees, providing aim-

ing flexibility. Side knockouts allow mounting of lamp heads to side of cabinet.

Sealed, maintenance-free lead-calcium battery. Optional long-life lead-calcium (LC) battery available (3-year full warranty; 7-year pro rata).

Brownout protection and DC fuse.

Low-voltage disconnect and AC reset.

Universal mounting plate for a 4" x 4" J-box. Knockouts on top, center and sides facilitate conduit entry.

120V and 347V input available.

Listings – CSA Certified.

Example: **M636 120 CS CSA**

Voltage	Number of lamp heads	Options
120 120V	(blank) Two heads	MH Metal PAR36 high wattage lamp head ¹
347 347V	R0 No heads	CS 3-foot cordset (120V only)
		LC Long-life lead-calcium battery
		H0806 8W/6V halogen composite lamps ²
		H1206 8W/6V halogen composite lamps ²
		H1212 12W/12V halogen composite lamps
		H2012 20W/12V halogen composite lamps
		H2024 20W/24V halogen composite lamps
		H5012 50W/12V halogen composite lamps (MH PAR36 only)
		H7024 70W/24V halogen composite lamps (MH PAR36 only)
		N1824 18W/24V incandescent composite lamps
		CSA CSA Certified

Accessories (Order separately)

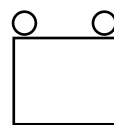
- ELA MSS** M6/12 (18-72 watts) small mounting shelf
- ELA MSM** M12/24 (100-360 watts) medium mounting shelf
- ELA MSL** M24 (560-720 watts) large mounting shelf
- ELA WGMS** M6/12 (18-72 watts) small wireguard
- ELA WGM** M12/24 (100-720 watts) medium/large wireguard

NOTES:

- 1 Not available in M6 series
- 2 Only available in M6 series

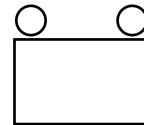
Housing size may vary based on the number and type of option(s) specified. For details on accessories, batteries and remote fixtures, see pages 342-343.

M12100/150/200/250/360
M24/200/360



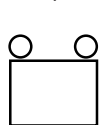
Width: 12(305)
Depth: 5-3/4(146)
Height: 12-7/8(327)

M24560/720



Width: 16-1/4(412)
Depth: 7-3/4(197)
Height: 12-7/8(470)

M618/36/50/72
M1236/72



Width: 9-1/2(241)
Depth: 3(76)
Height: 10-3/4(273)

Decorative Lexan Cube Emergency Lighting Units

Emergency Lighting Units

Q-BIC

Decorative Cube

Intended Use

Provides a minimum of 30 minutes of illumination for the rated wattage upon loss of AC power. Designed for applications requiring decorative and vandal resistant emergency lighting.

Features

Contemporary 20-gauge steel housing. Frosted lexan cube diffusers.

Two 9W T5 wedge-base lamps with metalized reflectors.

Sealed, maintenance-free lead-calcium battery. Optional long-life lead-calcium bat-

tery (LC) available (3-year full warranty; 7-year pro rata).

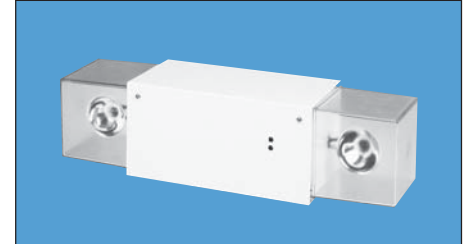
Brownout protection and DC fuse. Low-voltage disconnect and AC reset.

Universal mounting plate for a 4" x 4" J-box. Knockouts on top facilitate conduit entry.

Wall or ceiling mounted.

120V or 347V input available.

Listings – CSA Certified.



Example: **QB618 120 LD CSA**

Ordering Information

Family		Voltage		Options ¹			
6 Volts		12 Volts					
QB618	18 watts	QB1236	36 watts	120	120V	LD	Load disconnect switch
QB636	36 watts	QB1272	72 watts	347	347V	TD	Integral time delay
QB650	50 watts	QB12100	100 watts			LC	Long-life lead-calcium battery
QB672	72 watts	QB12150	150 watts			TP	Tamperproof screws
QB6100	100 watts	QB12200	200 watts			RIF	Radio interference filter (120V only)
						TB	Terminal block input/output
						H0806	8W/6V halogen composite lamps
						H0812	8W/12V halogen composite lamps
						H1206	12W/6V halogen composite lamps
						H1212	12W/12V halogen composite lamps
						CSA	CSA Certified

Accessories (Order separately)	
Cat. No.	Description
ELA TPS	Tamperproof screwdriver
ELA WGQB	Wireguard (18W-180W)
ELA WGQBL	Wireguard (200W)

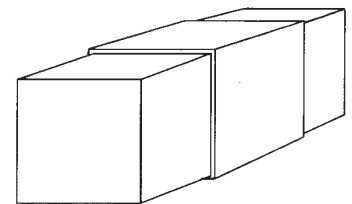
	Electrical Application Data									
	AC INPUT			OUTPUT Volts	OUTPUT WATTS				STANDARD LAMP	
	Volts	Amps	Watts		1/2 hr.	1 hr.	1-1/2 hrs.	2 hrs.	Cat. No.	Watts
QB618	120	.3	33	6	18	9	6	4.5	908	9
	347	.11	35							
QB636	120	.3	33	6	36	18	12	9	908	9
	347	.11	35							
QB650	120	.3	33	6	50	25	16.5	12.5	908	9
	347	.11	35							
QB672	120	.3	33	6	72	36	24	18	908	9
	347	.11	35							
QB6100	120	.3	33	6	100	54	36	27	908	9
	347	.11	35							
QB1236	120	.3	33	12	36	18	12	9	915	9
	347	.11	35							
QB1272	120	.3	33	12	72	36	24	18	915	9
	347	.11	35							
QB12100	120	.3	33	12	100	50	33	25	915	9
	347	.11	35							
QB12150	120	.3	33	12	150	75	49.5	37	915	9
	347	.11	35							
QB12200	120	.3	33	12	200	100	66	49.5	915	9

NOTES:

1 When specifying multiple options, consult factory for compatibility.

For details on accessories, batteries and remote fixtures, see pages 342-343.

Dimensions are shown in inches (millimeters) unless otherwise noted.



QB 18-72 watts	14-1/2 (368) x 5 (127) x 5 (127)
QB 100-150 watts	22-1/2 (571) x 5 (127) x 5 (127)
QB 200 watts	30-1/4 (768) x 5 (127) x 5 (127)



Remote Lamphheads

Lamp heads on this page can be ordered as separate fixtures, as individual or twin remote heads with a mounting plate. Note: *order remotes as separate line items.*

Ordering Information

Example: **ELA MH**

Emergency lighting accessory ELA	Color (blank) Standard color B Black W White	Number of lamps (blank) Single T Twin	Lamp head style MH Metal PAR 36 P18 PAR18	Lamp type (Select from list below)
--	---	--	---	---------------------------------------

Metal PAR36



MH

Width: 7-1/2" (190) single head
9-1/2" (241) two heads
Height: 5" (127)
Depth: 7-1/2" (190)
Mounting Plate: 3-1/8" (79) W x 5" (127) H
Standard color: White

Standard PAR18



P18

Width: 5" (127) single head
9" (228) two heads
Height: 5" (127)
Depth: 5-1/4" (133)
Mounting Plate: 3-1/8" (79) W x 5" (127) H
Standard color: White only

NOTES:
For photometric information visit our website at www.lithonia.com.
Consult factory for additional lamp availability.
Dimensions are shown in **inches (millimeters)** unless otherwise noted.

Lamp Compatibility

Composite Lamps

Lamp Type	6-Volt					12-Volt					24-Volt									
	Incandescent			Halogen					Incandescent			Halogen					Incandescent		Halogen	
	N0606	N0806	N0906	H0606	H0806	H1006	H1206	H2006	N0912	N1212	N1812	H0812	H1212	H2012	H5012	H7012	N0924	N1824	H2024	H7024
Wattage	6W	8W	9W	6W	8W	10W	12W	20W	9W	12W	18W	8W	12W	20W	20W	20W	9W	18W	20W	20W
P18			■		■		■	■	■			■	■	■			■	■	■	
MH														■	■	■			■	■

Remote Fixtures

Q-BIC Remote Single



- ELA QR N0906
- ELA QR N0912
- ELA QR N0924
- ELA QR H0806
- ELA QR H0812
- ELA QR H1206
- ELA QR H1212
- ELA QR H2012¹

Width: 4-2/5 (112)
Depth: 4-2/5 (112)
Height: 4-2/5 (122)

Q-BIC Remote Twin



- ELA T QR N0906
- ELA T QR N0912
- ELA T QR N0924
- ELA T QR H0806
- ELA T QR H0812
- ELA T QR H1206
- ELA T QR H1212
- ELA T QR H2012¹

Width: 9-2/5 (239)
Depth: 4-3/5 (117)
Height: 5-3/4 (146)

Q-BIC Remote



- ELA QBR N0906
- ELA QBR N0912
- ELA QBR N0924
- ELA QBR H0806
- ELA QBR H0812
- ELA QBR H1206
- ELA QBR H1212
- ELA QBR H2012¹

Width: 14-4/5 (376)
Depth: 4-2/5 (112)
Height: 4-2/5 (112)

NOTES:
1 20W Amber lens



Replacement Batteries for Emergency Lighting Units

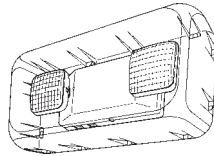
Type	ELB 06042 lead-calcium L: 2-3/4 (70) W: 1-7/8 (48) H: 4-1/8 (102)	ELB 0607 lead-calcium L: 4 (102) W: 1-1/2 (38) H: 6 (152)	ELB 06072 lead-calcium L: 6 (152) W: 1-1/2 (38) H: 4 (102)	ELB 0612 lead-calcium L: 4-1/4 (108) W: 2-3/4 (70) H: 6 (152)	ELB 06122 lead-calcium L: 4-1/4 (108) W: 2-3/4 (70) H: 6 (152)	ELB 1207 lead-calcium L: 4-1/4 (108) W: 2-3/4 (70) H: 6 (152)	ELB 1225 lead-calcium L: 10-1/4 (259) W: 6-3/4 (171) H: 8-3/4 (222)	ELB 1228 lead-calcium L: 7-7/8 (200) W: 5-1/4 (134) H: 7-3/8 (188)
6ELM2		1X						
ELM	1X							
ELM2	1X							
M12100/150					2X			
M12200					4X			
M12250							1X	
M1236/72						1X		
M12360								1X
M24200					4X			
M24360/560							2X	
M24720								2X
M6100/150				2X				
M618/36			1X					
M6180				3X				
M650/72					1X			
QB12100/150					2X			
QB12200					4X			
QB1236/72						1X		
QB6100/150				2X				
QB6180				3X				
QB636			1X					
QB650/72					1X			

Number equals number of batteries needed to operate unit.

Not all batteries and equipment are shown. Consult factory for additional requirements.

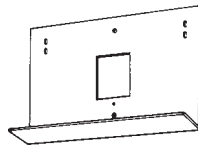
Vandal Shield ELA VS2

1/8" thick, high-impact polycarbonate. Fits all Quantum Series unit equipment (does not fit exit/unit combo). 10" x 22" x 9 3/4" (254mm x 559mm x 248mm)



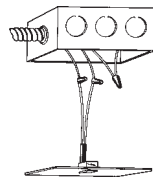
Mounting Shelves

- ELAMSS¹ M6, (18-72W)
M12 (36-72W)
- ELAMSM¹ M12 (100-360W)
M24 (200-560W)
- ELAMSL¹ M24 (560-720W)



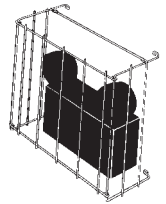
Remote Test Switch Less Pilot Light ELA RTLP

Provides remote testing capability to all Lithonia Lighting unit equipment, exit signs, fluorescent battery packs and emergency downlights. Mounts on standard J-box, ceiling or wall.



Wireguard Compatibility and Ordering Information

Catalog Number	M6, M12 (small)	M6, M12 (large), M24	Single remote heads	Twin remote heads	ELM2, 6ELM2	Q-Bic (18-72W)	HX, LHX (6V only)	Dimensions
ELA WGM	■							19-1/2 W x 19-1/2 H x 13 D
ELA WGQB						■		23-3/4 W x 7-1/2 H x 8-1/2 D
ELA WGXP								12-3/4 W x 12-3/4 H x 8-1/2 D
ELA WGMS								15-1/4 W x 10-3/4 H x 7-1/2 D
ELA WGRH1			■					8 W x 8-1/2 H x 9 D
ELA WGRH2				■				13 W x 7-3/4 H x 8 D
Exits								29 W x 11 H x 3-1/2 D
ELA WGEX					Back-mounted exits			13-5/8 W x 13-5/8 H x 4-3/4 D
ELA WGEXT					Top-mounted exits			14 W x 11 H x 6-3/4 D ²
ELA WGEXE					End-mounted exits			15 W x 11 H x 4-3/4 D ²
ELA WGHT					Top-mounted combos		■	13 W x 1-31/2 H x 6-1/2 D ²



NOTES:

- Standard White
- Measurement at smallest part of guard

Housing size may vary based on the number and type of option(s) specified.

Isofootcandle Diagrams Versus Point-by-Point Calculations

What do lamp isofootcandle diagrams tell us, and how should they be used?

Overview

An **isofootcandle curve** is a line plotted in an imaginary plane, perpendicular to the axis of the light source (typically horizontal and/or vertical) and comprised of points of equal illuminance. See *diagram 1*.

This curve can be used to illustrate the maximum distance from the source the desired illuminance can be achieved and the region through which this level is met or exceeded. A series of isofootcandle curves for a given light source is known as an isofootcandle diagram. See *diagram 2*.

Each isofootcandle curve represents a unique illuminance value in the same imaginary plane.

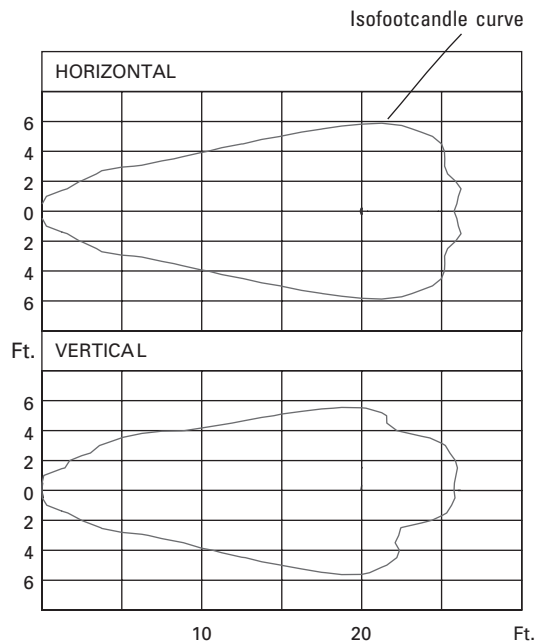


Diagram 1

What is the most accurate way to evaluate emergency lighting units to determine maximum center-to-center spacing?

Lamp isofootcandle diagrams are commonly used to compare one light source to another in terms of light distribution and intensity. For this reason, many lamp manufacturers provide isocontour diagrams for the lighting professional.

However, lamp isofootcandle diagrams alone in no way offer a reasonable prediction of the illuminance levels one might expect to obtain for a horizontal work plane or path of egress.

The diagrams are simplistic and do not take into account any of the application variables known to impact an indoor lighting layout including, but not limited to: the **surface reflectance** of the ceiling, walls and floors; the **room geometry**, and the **true distance and angle** at which the light strikes the path of egress and other surfaces. Collectively, these variables have a major impact on the overall lighting layout.

LTL10586
MR24 K0606
6-volts, 5.4-watts krypton

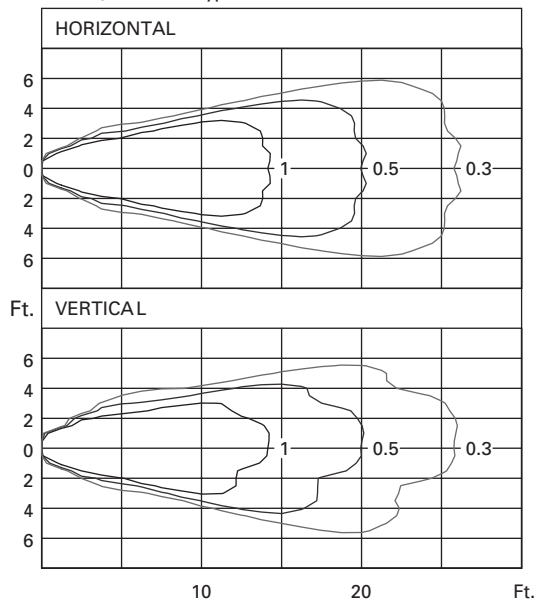


Diagram 2

NFPA Life Safety Code requirements

In order to meet the NFPA's Life Safety Code requirements, an emergency lighting layout must generate not only a minimum illuminance of 0.1 footcandles, but also an average illuminance of 1.0 footcandles, as well as a max-to-min illuminance ratio that is less than or equal to 40:1 along the path of egress. The average illuminance and the max-to-min ratio cannot be accurately predicted using isofootcandle diagrams. These metrics require a more thorough point-by-point calculation.

Compare isocontours to point-by-point analysis

Compare the two methods. See diagrams 3 and 4.

Below is an isofootcandle diagram for a 6V, 5.4 watt incandescent remote. Utilizing the horizontal isofootcandle diagram shown, one might conclude it is possible to space this lamphead 32 feet on center and maintain a minimum illuminance of 1.0 footcandle (at a distance of 16 feet each lamp produces 0.5 footcandles which collectively adds up to 1 footcandle).

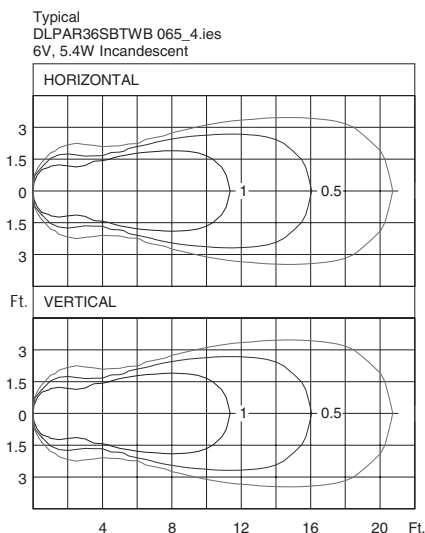


Diagram 3

Conversely, a point-by-point analysis using the IES photometric file for this same remote yields an average illuminance of 1.0 footcandle at 13 foot spacing*.

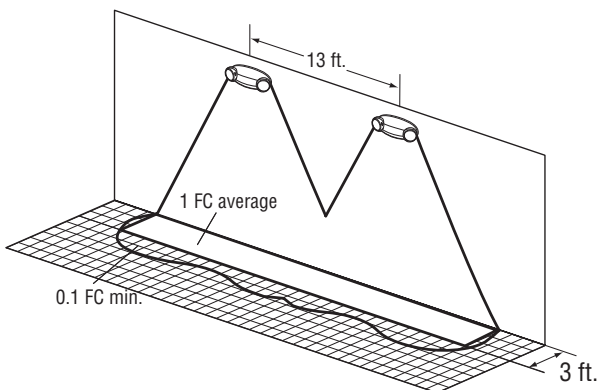


Diagram 4

New performance analysis

Lithonia Lighting historically has provided not only lamp isocontours on its specification sheets, but also a fixture spacing/performance factor based on IESNA90 format photometrics and a point-by-point analysis. See diagram 5.

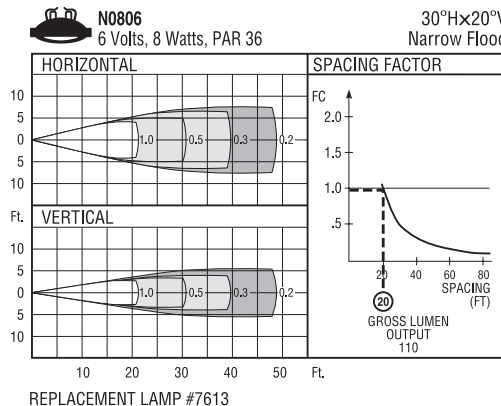
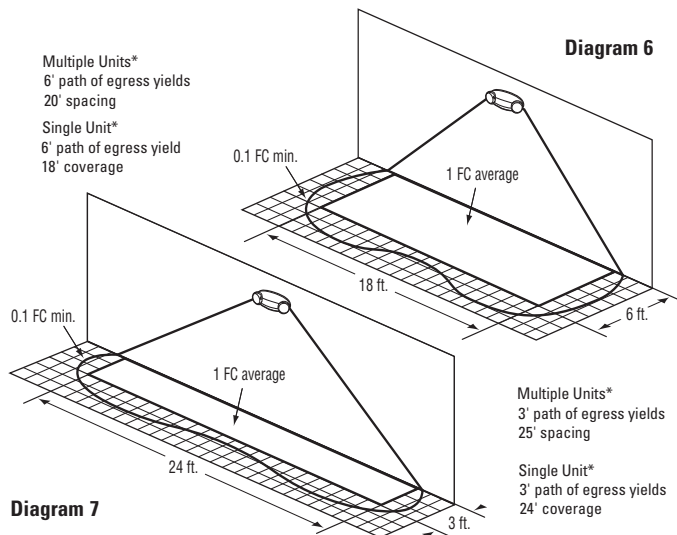


Diagram 5

With the introduction of the new MR24 lamp head, we are updating the lamp performance section on the new ELM2 specification sheet. See diagrams 6 and 7.

The new specification sheets show graphical representations of point-by-point analysis for both a 3'- and a 6'-path of egress. The rectangle depicts the area that an average of one footcandle (FC) is maintained, while the surrounding curve represents the minimum 0.1 FC isocontour along the floor. The coverage of an individual unit, as well as the maximum spacing that can be achieved with multiple units is shown next to the diagrams. The footnotes detail all the relevant information necessary to replicate this layout using your own lighting analysis software and IESNA format photometrics.



* Meets Life Safety Code standard minimum illuminance of 0.1 FC and average illuminance of 1.0 FC. Assumes open space with no obstructions, mounting height: 7.5', ceiling height: 9', and reflectances: 80/50/20. Analysis based on independently tested photometrics.

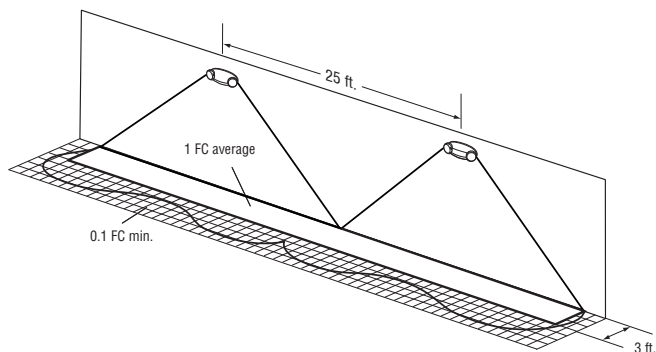
Summary

Lamp isofootcandle diagrams should not be used alone to determine center-to-center fixture spacing. There are too many variables that must be taken into account to ensure a consistent and reliable result. In an environment of increasing code enforcement, relying on only isocontours to determine spacing is not recommended.

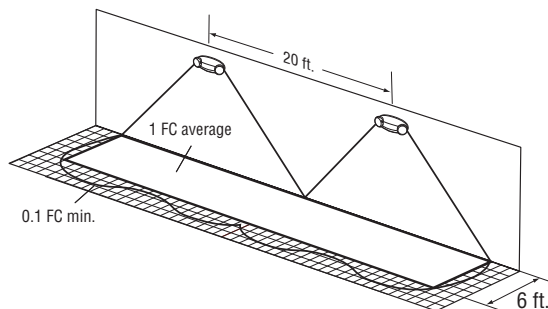
In the past point-by-point calculations would have been cumbersome and impractical at best. However, with current lighting software packages such as Lithonia Lighting's VISUAL 2.2, you can do the calculations in a matter of seconds. For a copy of VISUAL or a complete set of IES format photometrics, contact your local Lithonia Lighting representative or visit our website at www.Lithonia.com.

MR24 Lamphead Performance (ELM2)

1. Example of multiple units in a row, illuminating a 3' path of egress.



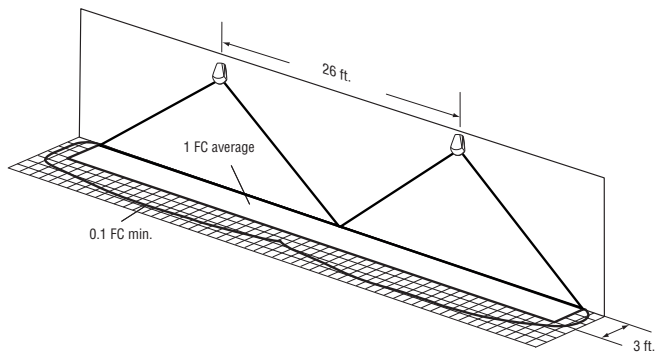
2. Example of multiple units in a row, illuminating a 6' path of egress.



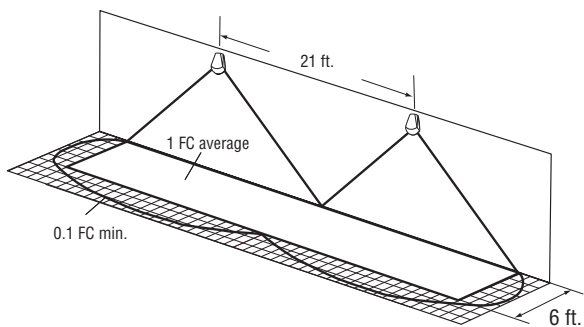
* Meets Life Safety Code standard minimum illuminance of 0.1 FC and average illuminance of 1.0 FC. Assumes open space with no obstructions, mounting height: 7.5', ceiling height: 9', and reflectances: 80/50/20. Analysis based on independently tested photometrics.

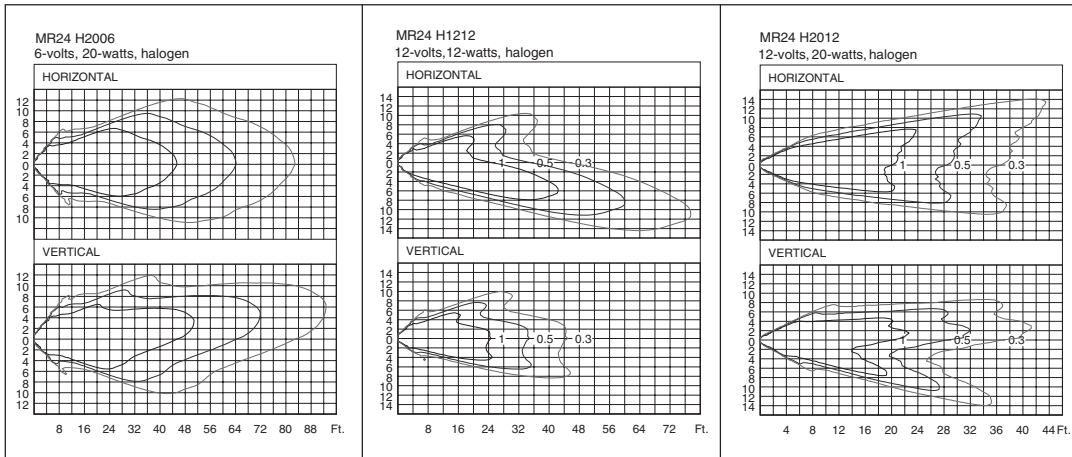
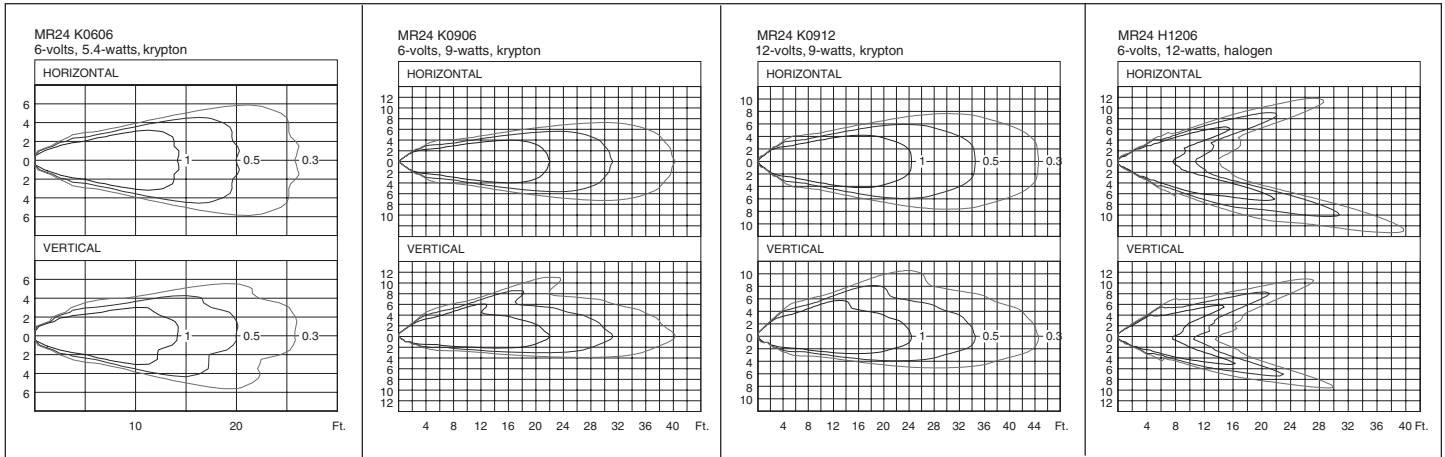
Affinity Performance

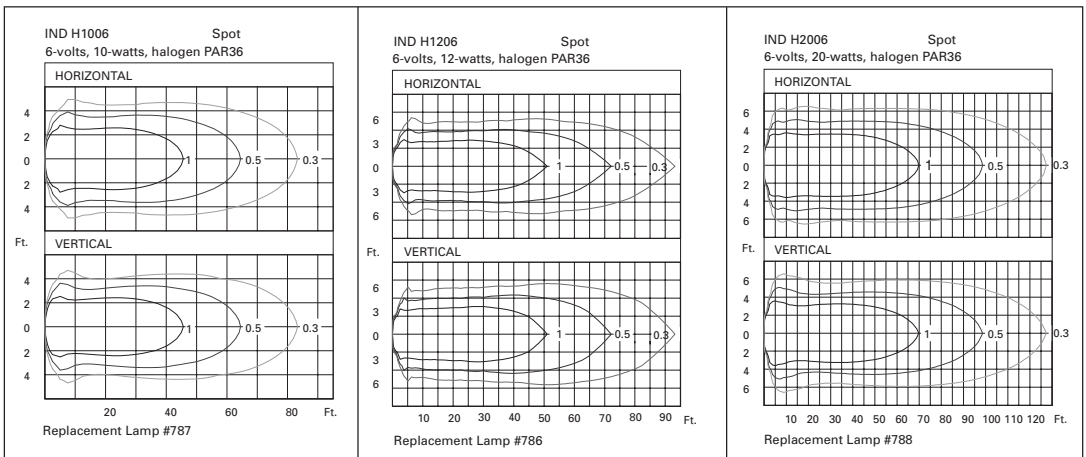
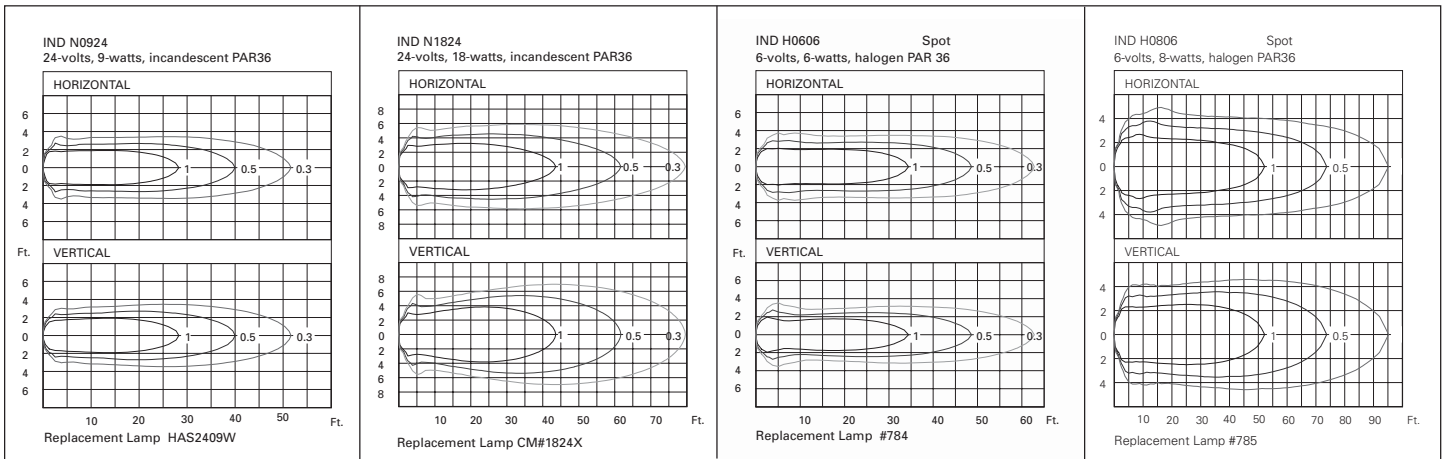
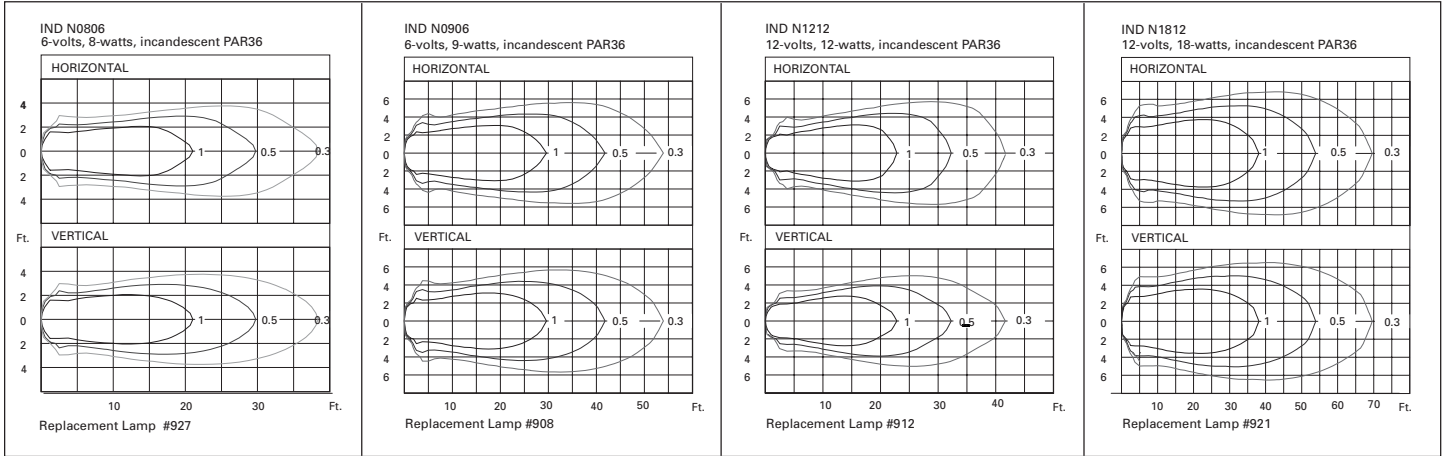
1. Example of multiple units in a row, illuminating a 3' path of egress.

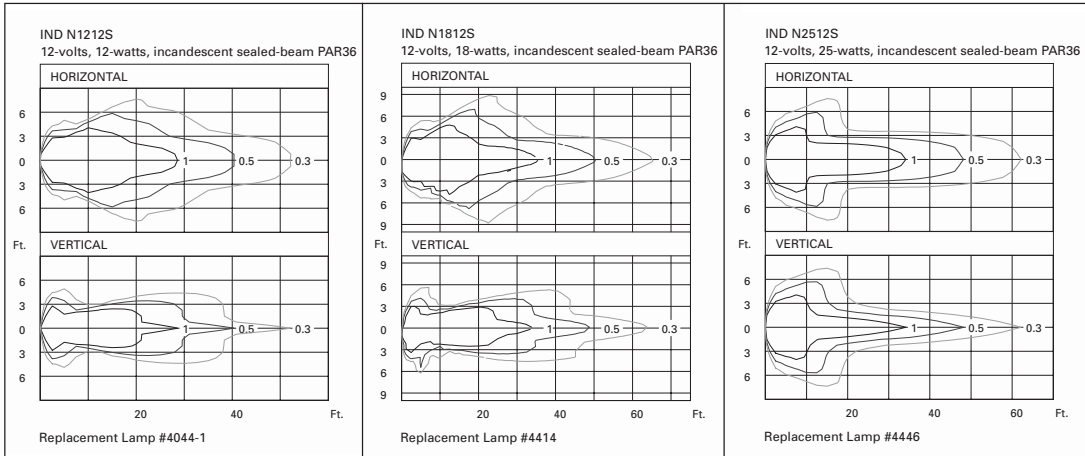
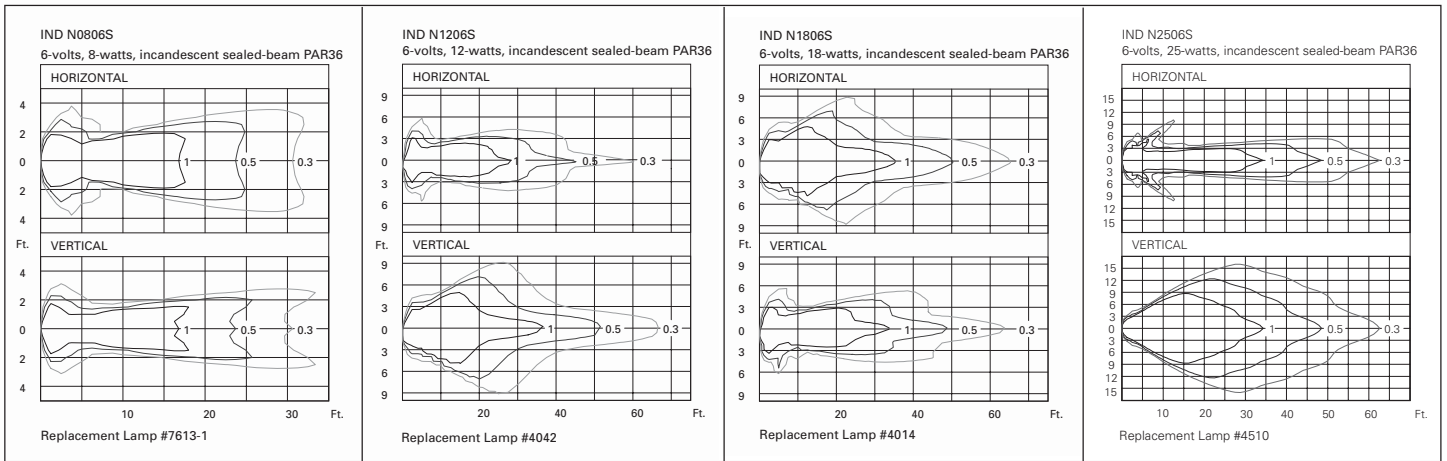
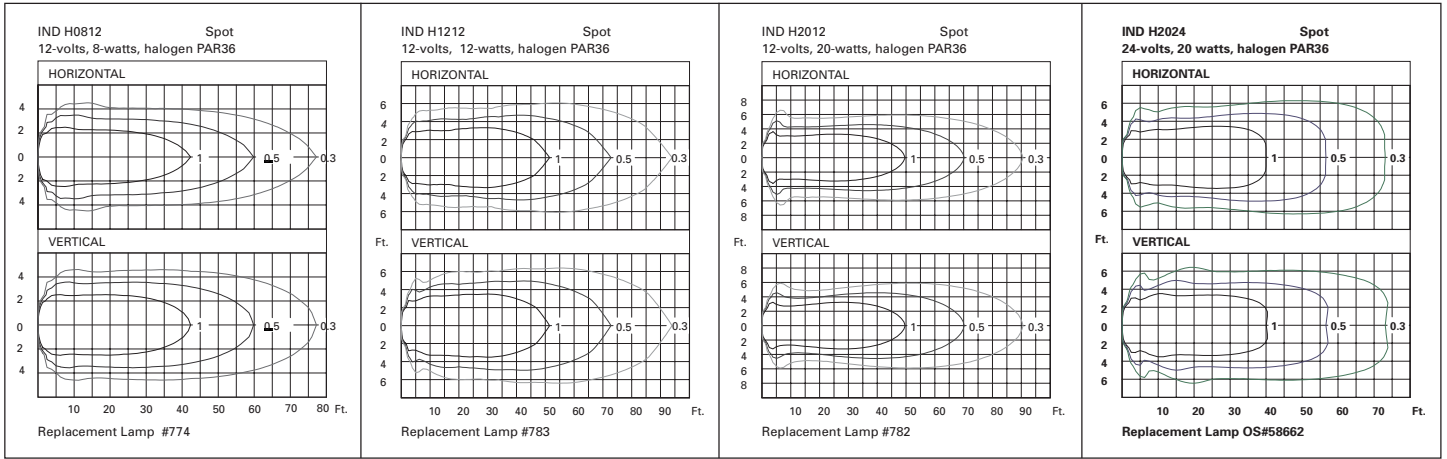


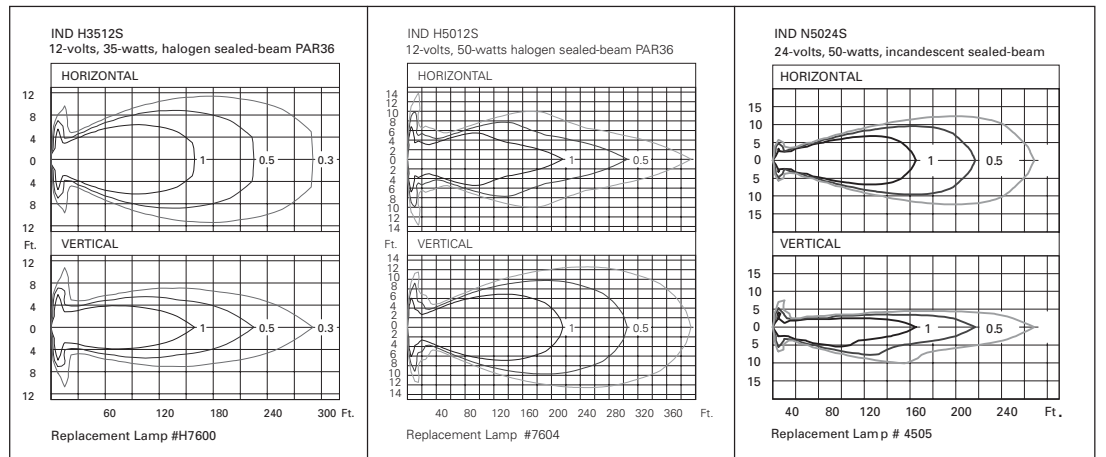
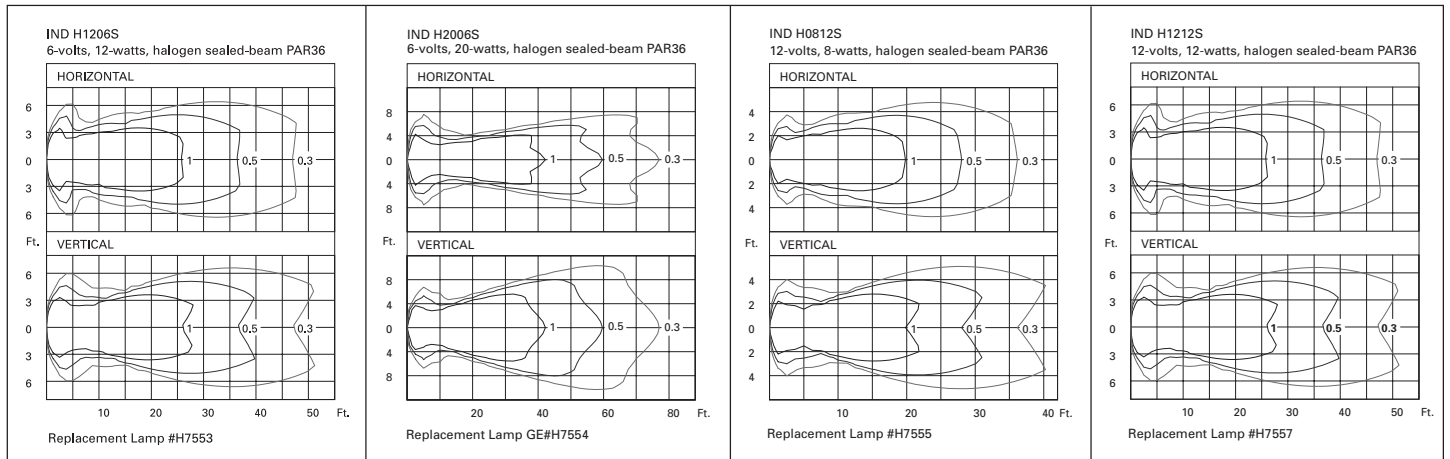
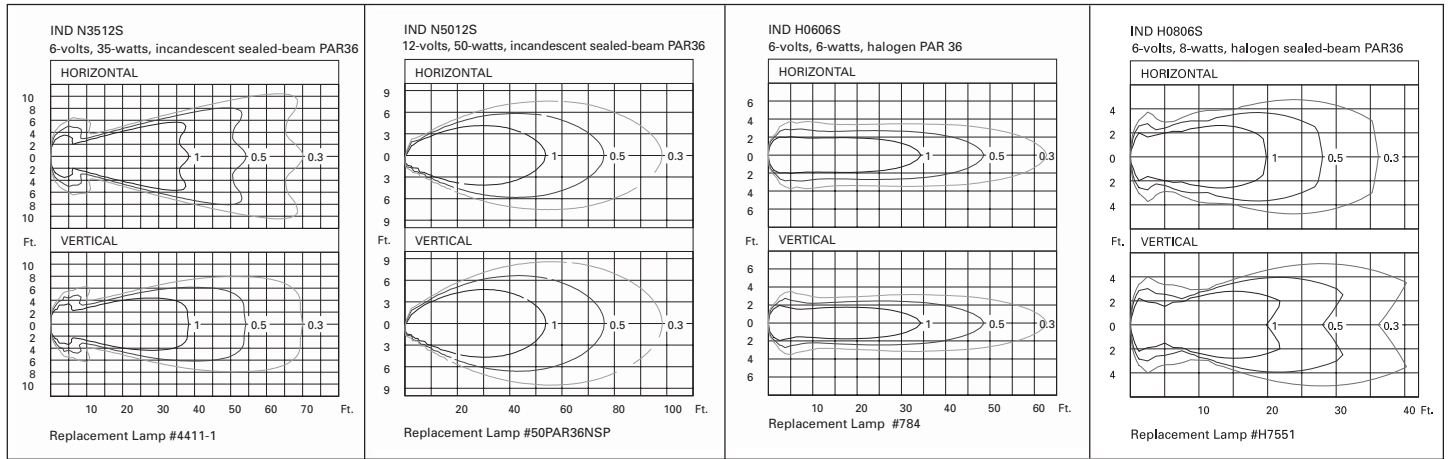
2. Example of multiple units in a row, illuminating a 6' path of egress.

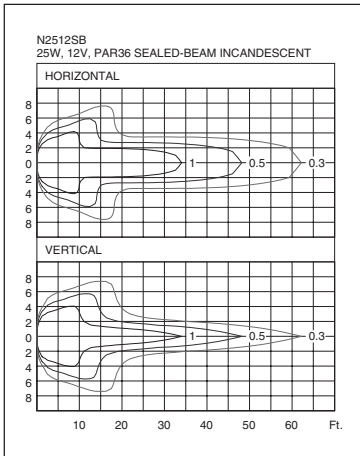
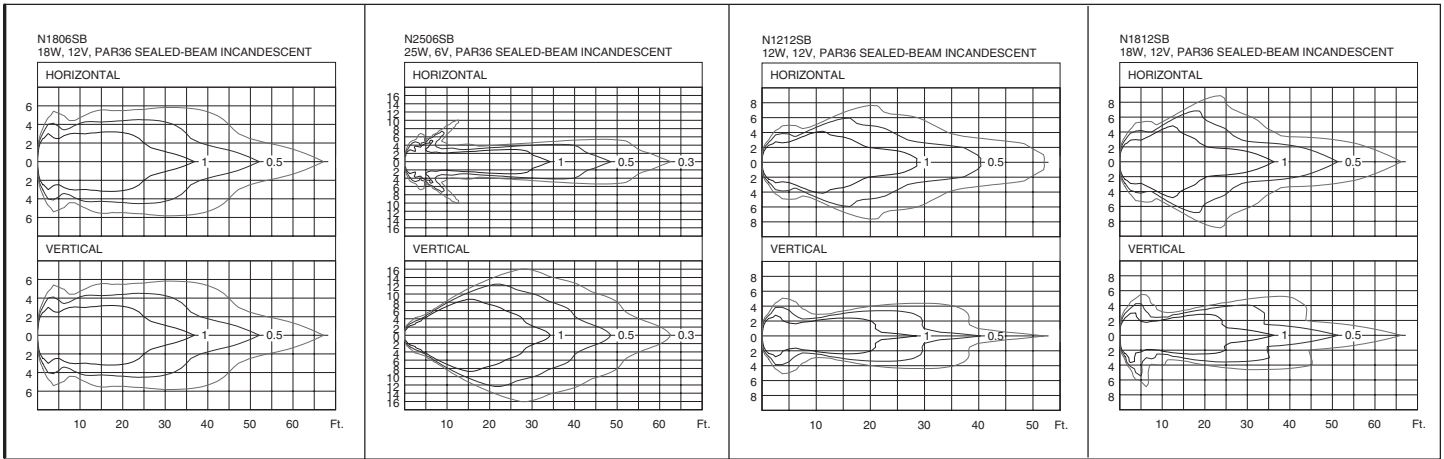
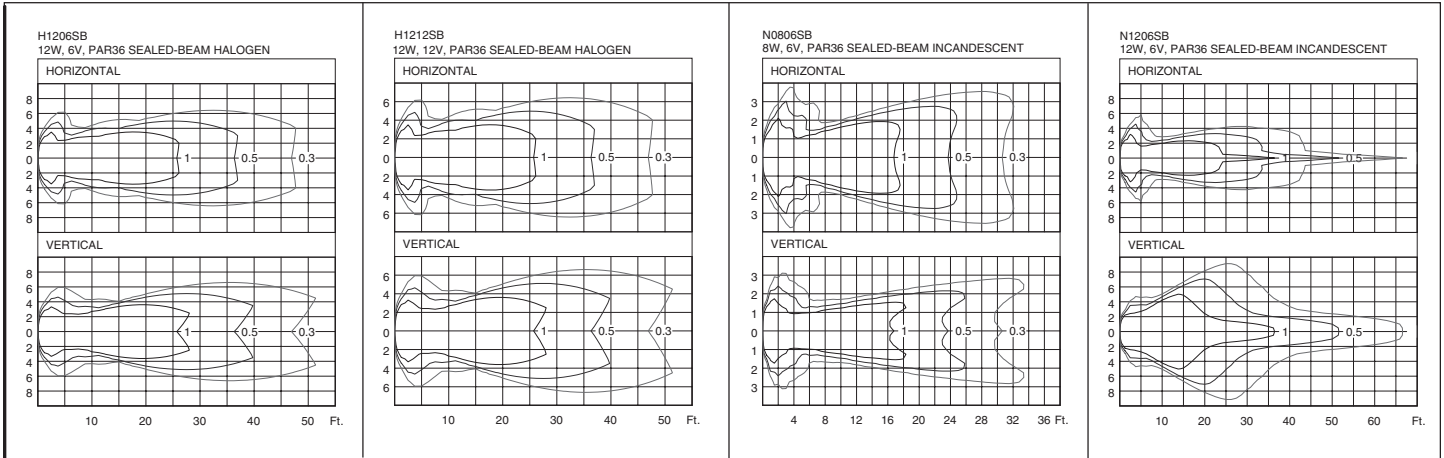










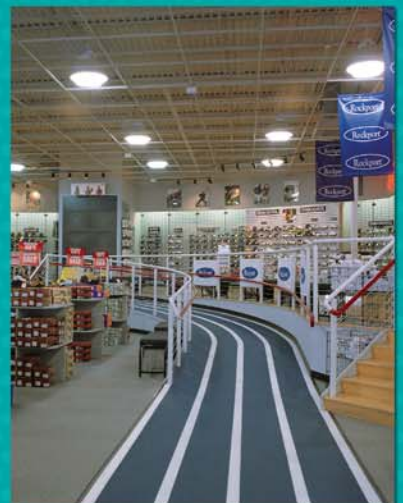


INDOOR HID

Indoor HID

Lithonia Lighting offers a wide selection of indoor HID products to address high-mount and low-mount lighting applications.

Lithonia industrial lighting withstands vibration, dirt, heat, moisture and corrosiveness while providing proper levels of efficient illumination. Lithonia commercial lighting provides a bright, cheerful and relaxed atmosphere that enhances customer and worker comfort. Lithonia recreational lighting delivers glare-free illumination so that playing surfaces and the surrounding environment are adequately illuminated for spectator and player safety.



CONTENTS



Ballast Housings 354



Glass High Bay 357

Acrylic High Bay 362



Aluminum High Bay 365

Acrylic Low Bay 373

Aluminum Low Bay 378



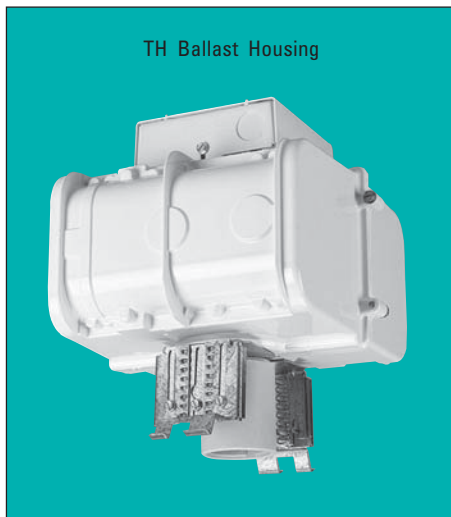
Dock Lights 384

KiloWatch Control Systems 385

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TH Ballast Housing



TH High Bay

Modular ballast housing for high bay opticals. Pre-attached adjustable legs. Accepts a variety of anodized aluminum and prismatic acrylic high bay reflectors.

Can achieve a variety of distribution patterns at higher mounting heights. These systems provide minimum brightness and superior energy efficiency.

Series	Housing	Reflector	Primary function
THV	TH	A14	Vertical illumination
THC	TH	A15	Horizontal illumination
THS	TH	A16	High efficiencies; glare control
THP	TH	A17, A22 ¹	Optimum lamp shielding; glare control
THR	TH	PA16, PA22, PA22E, PA22N, PA25 ¹ , PA22SP	High efficiencies; vertical & horizontal illumination; upright; glare control

NOTES:

¹ Suitable for 1000W using TH 1000W ballast housing.

TX Ballast Housing



TX Low Bay

Modular ballast housing for enclosed low bay opticals. Accepts various heavy-duty aluminum and prismatic acrylic optical assemblies. Designed to provide uniform, glare-free energy-efficient lighting.

Opticals are equipped with a heat-sensitive, dust-inhibiting gasket at the point of attachment and a fully gasketed lens ring assembly.

Series	Housing	Optical	Primary function
TXV	TX	A121, A125	Lower wattage; vertical and horizontal illumination.
TXV	TX	A162, A165	Vertical and horizontal illumination.
TXR	TX	PA22C	High efficiencies; vertical illumination with upright; glare control.
TXR	TX	PA25D	High efficiencies; vertical and horizontal illumination; glare control.
TXR	TX	PA22GLE, PA25ALE	High efficiencies; vertical and horizontal illumination (higher mounting).
TXL	TX	A20	Lower wattage; premium glare control.
TXP	TX	A26	Vertical and horizontal illumination; premium glare control.
TXS	TX	A30	High efficiencies; vertical and horizontal illumination; glare control; low brightness.
TXC	TX	A23	High efficiencies; glare control; vertical and horizontal illumination.

Optic-Specific Housings

Ballast Housings

TPG Open Glass High Bay

Provides reliable, simple installation of open glass reflectors and shrouded glass reflectors with heavy-gauge mounting

brackets and sliding safety latches. Distributions are designated in the catalog number and factory-preset.

Series	Housing	Reflector	Primary function
TPG	TPG	PG16	Optimum efficiencies; balance of uplight and downward distribution.
TPG	TPG	PG16A	Provides downward distributions and softens lamp image.
TPG	TPG	PG21 ¹	Optimum efficiencies; balance of uplight and downward distribution.
TPG	TPG	PG21A ¹	Provides downward distributions and softens lamp image.

TPG Ballast Housing



TPGE Enclosed Glass High Bay

Accepts enclosed and gasketed glass optical assemblies in both the standard and shrouded versions. Optical assemblies are equipped with a heat-sensitive, dust-inhibiting gas-

ket at the point of attachment and a fully gasketed lens ring assembly. Distributions are designated in the catalog number and factory-preset

Series	Housing	Reflector	Primary function
TPGE	TPGE	PG16GLE	Optimum efficiencies and a balance of uplight and downward distributions while providing total enclosure of the lamp.
TPGE	TPGE	PG16AGLE	Provides downward distributions and softens lamp image while providing total enclosure of the lamp.
TPGE	TPGE	PG21GLE ²	Optimum efficiencies and a balance of uplight and downward distributions while providing total enclosure of the lamp.
TPGE	TPGE	PG21AGLE ²	Provides downward distributions and softens lamp image while providing total enclosure of the lamp.

TPGE Ballast Housing



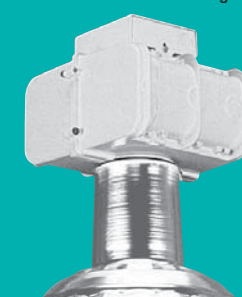
TE Enclosed Aluminum High Bay

Designed for E17 and E22 totally enclosed optical assemblies. Optical assemblies are equipped with a heat-sensitive, dust-inhibiting gasket at the point of attachment and a fully-

gasketed lens ring assembly. Distributions are designated in the catalog number and factory-preset.

Series	Housing	Reflector	Primary function
TE	TE	E17	Totally enclosed optics, optimum lamp shielding and glare control.
TE	TE	E22 ³	Totally enclosed optics, optimum lamp shielding and glare control.

TE Ballast Housing



TXF Low Bay

Designed for food processing areas and wet location applications. These assemblies feature fully gasketed construction, special FDA/USDA compliant

materials and finish, stainless steel and corrosion-resistant hardware and NSF certification. These systems provide glare-free, energy-efficient lighting.

Series	Housing	Optical	Primary function
TXF	TX	A30F	High efficiencies; vertical & horizontal illumination; glare control; low brightness. Hose-down tested to 1200psi, IP65 rated. Wet location listed.
TXF	TX	PA25ALEF	High efficiencies; vertical and horizontal illumination; glare control. IP65 rated. Wet location listed.

TXF Ballast Housing



NOTES:

- 1 Suitable for 1000W using TPG 1000W ballast housing.
- 2 Suitable for 750W, 875W and 1000W using TPGE 1000W ballast housing.
- 3 Suitable for 750W, 875W and 1000W using TE 1000W ballast housing.

Steel Housings, Interchangeable Opticals

NEW

SH Ballast Housing



SH High Bay

Modular ballast housing for high bay opticals. Pre-attached adjustable legs. Accepts a variety of anodized aluminum and prismatic acrylic high bay reflectors.

Can achieve a variety of distribution patterns at higher mounting heights. These systems provide minimum brightness and superior energy efficiency.

Housing	Reflector	Primary function
SH	A14	Vertical illumination
SH	A15	Horizontal illumination
SH	A16 A16GL	High efficiencies; glare control
SH	A17, A22 ¹	Optimum lamp shielding; glare control
SH	PA22	High efficiencies; vertical & horizontal illumination; uplight; glare control

NEW

SX Ballast Housing



SX Low Bay

Modular ballast housing for enclosed low bay opticals. Accepts heavy-duty aluminum optical assembly. Designed to provide uniform, glare-free energy-

efficient lighting. Optical are equipped with a heat-sensitive, dust-inhibitive gasket at the point of attachment and a fully gasketed lens ring assembly.

Housing	Optical	Primary function
SX	A23	High efficiencies; glare control; vertical and horizontal illumination.

NEW

SPG Ballast Housing



SPG High Bay

Modular ballast housing for open glass high bay opticals. Provides reliable, simple installation of open glass and shrouded glass reflectors with heavy-

gauge mounting brackets and sliding safety latches. Distributions are designated in the catalog number and factory-preset.

Housing	Reflector	Primary function
SPG	PG15	Optimum efficiencies; balance of uplight and downward distribution.
SPG	PG15A	Provides downward distributions and softens lamp image.

NOTES:

¹ Suitable for 1000W using SH 1000W ballast housing.

Premium Open Glass Optical

Intended Use

For high mounting heights that require high efficiencies, horizontal and vertical illumination, premium contrast control and higher thermal performance. Ideal for heavy manufacturing areas, retail and warehouse aisles.

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sunked to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solid-state ignitors are encased and potted (HPS). High power factor. Constant-wattage autotransformer. 180°C Class H insulation system. UL listed.

Optics – High-efficiency, high-performance, heat-resistant borosilicate glass reflector/refractor mounted within a heavy-gauge rigid wire form. Yields high vertical footcandles with low brightness and excellent contrast control. Self-cleaning, ventilated design carries optical contaminants out through top of reflector/refractor.

Installation – Cast-aluminum pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated. 5KV pulse rated for 1000S.

Listings – UL Listed to U.S. and Canadian safety standards. NOM Certified. UL listed for damp locations. Ambient operation: -30°C to 55°C. (65°C optional).

High Bay

TPG
DuraBay™



Example: TPG 400M PG16 M TB

Ordering Information

Series	Wattage	Optical	Distribution (select one)				Voltage	Options/Accessories
High Pressure Sodium								
TPG	150S	PG16	N	C	M	S	W	See pages 388-399. For ordering and packaging options, see page 400.
	200S	PG16	-	C	M	S	W	
	250S	PG16	-	C	M	S	W	
	400S	PG16	-	C	M	S	W	
	400S	PG21	-	C21	-	-	-	
	1000S	PG21	-	-	M21	-	-	
Metal Halide								
TPG	175MP	PG16	N	C	M	S	W	Pulse Start H.I.D. Ballast/Lamp Systems N = Narrow C = Concentrating M = Medium S = Spread W = Widespread
	200MP	PG16	N	C	M	S	W	
	250MP	PG16	N	C	M	S	W	
	300MP	PG16	N	C	M	S	W	
	320MP	PG16	N	C	M	S	W	
	350MP	PG16	N	C	M	S	W	
	400M	PG16	N	C	M	S	W	
	400MP	PG16	N	C	M	S	W	
	450MP	PG16	N	C	M	S	W	
	200MP	PG21	N21	-	-	-	-	
	350MP	PG21	N21	-	-	-	-	
	400M	PG21	N21	-	-	-	-	
	400MP	PG21	N21	-	-	-	-	
	450MP	PG21	N21	-	-	-	-	
	1000M	PG21	-	C21	-	-	-	
	1000MP	PG21	-	C21	-	-	-	

Due to recent technological enhancements, metal halide lamps and ballasts now provide optimum performance and energy savings. See Lamps & Ballasts, page 587.

Lamp/fixture Data									
Wattage	Ballast	Weight		Spacing Criteria					
		Lbs.	Kg.	N	C	M	S	W	
<i>PG16 Open Glass</i>									
<i>High Pressure Sodium (Mog/Clear)</i>									
150	CWA	32	15	0.7	1.0	1.3	1.7	2.0	
200	CWA	35	16	-	0.8	1.2	1.6	1.9	
250	CWA	35	16	-	0.8	1.2	1.6	1.9	
400	CWA	38	17	-	0.8	1.2	1.7	2.0	
<i>Metal Halide (Mog/Clear)</i>									
400	CWA	36	16	0.7	1.0	1.3	1.7	2.0	
<i>PG21 Open Glass</i>									
<i>High Pressure Sodium (Mog/Clear)</i>									
400	CWA	55	25	-	1.1	-	-	-	
1000	CWA	55	25	-	-	1.5	-	-	
<i>Metal Halide (Mog/Clear)</i>									
400	CWA	55	25	0.7	-	-	-	-	
1000	CWA	55	25	-	0.9	-	-	-	

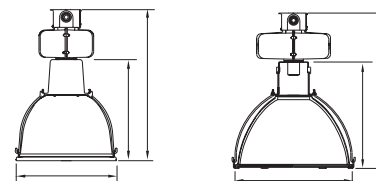
NOTES:

- Requires CWI or RLB option in Canada for MH. Available for 175-450W only.
- Requires MRB or CWI option in Canada for HPS, available for 70-400W only.
- 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- Optional multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada.)
- Optional five-tap ballast (120, 208, 240, 277, 480V). Available for 250, 400 and 1000 MH (CWA only).

HID lamps are available with luminaires. Consult factory. **Metal halide luminaires will operate comparable-wattage mercury vapor lamps.**

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

TPG PG16	TPG PG21
Overall height: 26 (66.0)	Overall height: 28 (71.1)
Reflector height: 15-1/2 (39.4)	Reflector height: 19-1/2 (49.5)
Diameter: 17-1/2 (44.5)	Diameter: 22 (55.9)



TPGE

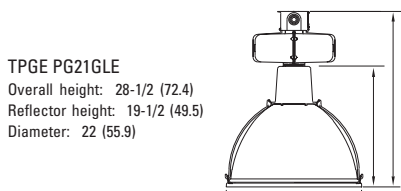
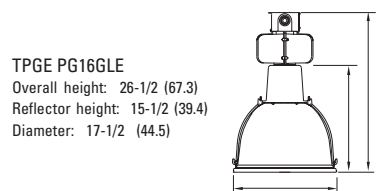
DuraBay™



Ordering Information

Series	Wattage	Optical	Distribution (select one)	Voltage	Options/Accessories
High Pressure Sodium					
TPGE	150S	PG16GLE	- C M S W	120	See pages 388-399. For ordering and packaging options, see page 400.
	200S	PG16GLE	- C M S W	208 ^{1,2}	
	250S	PG16GLE	- C M S W	240 ^{1,2,3}	
	400S	PG16GLE	- C M S W	277	
	400S	PG21GLE	- C21 - - -	347	
1000S	PG21GLE	- C21 - - -	480	TB ⁴	
Metal Halide					
TPGE	175M	PG16GLE	N C M S W	TBV ⁵	Pulse Start H.I.D. Ballast/Lamp Systems
	200M	PG16GLE	N C M S W		
	250M	PG16GLE	N C M S W		
	300M	PG16GLE	N C M S W		
	320M	PG16GLE	N C M S W		
	350M	PG16GLE	N C M S W		
	400M	PG16GLE	N C M S W		
	450M	PG16GLE	N C M S W		
	350M	PG21GLE	N21 - - - -		
	400M	PG21GLE	N21 - - - -		
	450M	PG21GLE	N21 - - - -		
	750M	PG21GLE	N21 - - - -		
875M	PG21GLE	N21 - - - -			
1000M	PG21GLE	- C21 - - -			

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



Premium Enclosed Glass Optical

Intended Use

For high mounting heights that require high efficiencies, horizontal and vertical illumination, premium contrast control and higher thermal performance. Ideal for heavy manufacturing areas, retail, warehouse aisles and gymnasiums.

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sunk to ballast housing.

Ballast – Copper wound and 100% factory tested. Solid-state ignitors are encased and potted (HPS). High power factor. Constant-wattage autotransformer. 180°C Class H insulation system. UL listed.

Optics – High-efficiency, high performance heat-resistant borosilicate glass reflector/refractor mounted within a heavy-gauge rigid wire form. Yields high vertical foot candles with low brightness and excellent contrast control. Cast-aluminum upper enclosure and corrosion-resistant steel flange and clear tempered glass lens are fully gasketed. Lens assembly hinged and latched for easy maintenance.

Installation – Cast-aluminum pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically oriented, mogul base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV. 5KV pulse rated for 1000S.

Listings – UL Listed to U.S. and Canadian safety standards. NOM Certified. UL listed for damp locations. Ambient operation: -30°C to 55°C. (65°C optional).

Example: TPGE 400M PG16GLE M TB

Due to recent technological enhancements, metal halide lamps and ballasts now provide optimum performance and energy savings. See Lamps & Ballasts, page 587.

Lamp/fixture Data									
Wattage	Ballast	Weight		Spacing Criteria					
		Lbs.	Kg.	N	C	M	S	W	
<i>PG16GLE Enclosed Glass</i>									
<i>High Pressure Sodium (Mog/Clear)</i>									
150	CWA	32	15	-	0.9	1.3	1.5	1.8	
200	CWA	35	16	-	0.9	1.5	1.7	2.0	
250	CWA	35	16	-	0.9	1.5	1.7	2.0	
400	CWA	38	17	-	0.8	1.3	1.7	2.2	
<i>Metal Halide (Mog/Clear)</i>									
175	CWA	36	16	0.6	0.8	1.3	1.6	1.9	
250	CWA	36	16	0.6	0.8	1.3	1.6	1.9	
400	CWA	38	17	0.7	0.9	1.3	1.6	1.9	
<i>PG21GLE Enclosed Glass</i>									
<i>High Pressure Sodium (Mog/Clear)</i>									
400	CWA	55	25	-	1.0	-	-	-	
1000	CWA	55	25	-	1.4	-	-	-	
<i>Metal Halide (Mog/Clear)</i>									
400	CWA	55	25	0.9	-	-	-	-	
1000	CWA	55	25	-	1.2	-	-	-	

NOTES:

- Requires CWI or RLB option in Canada for MH. Available for 175-450W only.
- Requires MRB or CWI option in Canada for HPS, available for 70-400W only.
- 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- Optional multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada.)
- Optional five-tap ballast (120, 208, 240, 277, 480V). Available for 250, 400 and 1000 MH (CWA only).

HID lamps are available with luminaires. Consult factory. **Metal halide luminaires will operate comparable-wattage mercury vapor lamps.**

Premium Open Shrouded Glass Optical

High Bay

TPG

DuraBay™

Intended Use

For high mounting heights that require high efficiencies, horizontal illumination, premium contrast control and higher thermal performance. Ideal for heavy manufacturing areas, retail and warehouse aisles.

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components are horizontally opposed and heat-sunk to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solid-state ignitors are encased and potted (HPS). High power factor. Constant-wattage autotransformer. 180°C Class H insulation system. UL listed.

Optics – High-efficiency, high-performance, heat-resistant borosilicate glass reflector/refractor with aluminum shroud to protect glass prisms from dirt accumulation, emphasizing downward efficiency. Self-cleaning, ventilated design carries optical contaminants out through top of reflector/refractor.

Installation – Cast-aluminum pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated. 5KV pulse rated for 1000S.

Listings – UL Listed to U.S. and Canadian safety standards. NOM Certified. UL listed for damp locations. Ambient operation: -30°C to 55°C. (65°C optional).



Ordering Information

Series	Wattage	Optical	Distribution (select one)					Voltage	Options/Accessories
High Pressure Sodium									
TPG	150S	PG16A	N	C	M	S	W	120	See pages 388-399. For ordering and packaging options, see page 400.
	200S	PG16A	-	C	M	S	W	208 ^{1,2}	
	250S	PG16A	-	C	M	S	W	240 ^{1,2,3}	
	400S	PG16A	-	C	M	S	W	277	
	400S	PG21A	-	C	M	S	W	347	
	1000S	PG21A	-	C21	-	-	-	480 ^{1,2}	
			-	-	M21	-	-	TB ⁴	
			-	-	M21	-	-	TBV ⁵	
Metal Halide									
TPG	175MP	PG16A	-	C	M	S	W	N = Narrow C = Concentrating M = Medium S = Spread W = Widespread	
	200MP	PG16A	-	C	M	S	W		
	250MP	PG16A	-	C	M	S	W		
	300MP	PG16A	-	C	M	S	W		
	320MP	PG16A	-	C	M	S	W		
	350MP	PG16A	-	C	M	S	W		
	400M	PG16A	N	C	M	S	W		
	400MP	PG16A	-	C	M	S	W		
	450MP	PG16A	-	C	M	S	W		
	350MP	PG21A	N21	-	-	-	-		
	400M	PG21A	N21	-	-	-	-		
	400MP	PG21A	N21	-	-	-	-		
	450MP	PG21A	N21	-	-	-	-		
	1000M	PG21A	-	C21	-	-	-		
	1000MP ⁶	PG21A	-	C21	-	-	-		



Example: TPG 400M PG16A M TB

Due to recent technological enhancements, metal halide lamps and ballasts now provide optimum performance and energy savings. See Lamps & Ballasts, page 587.

Lamp/fixture Data									
Wattage	Ballast	Weight		Spacing Criteria					
		Lbs.	Kg.	N	C	M	S	W	
PG16A									
High Pressure Sodium (Mog/Clear)									
150	CWA	32	15	0.7	0.8	1.1	1.4	1.6	
200	CWA	35	16	-	0.8	1.3	1.7	2.0	
250	CWA	35	16	-	0.8	1.3	1.7	2.0	
400	CWA	38	17	-	1.2	1.4	1.7	2.0	
Metal Halide (Mog/Clear)									
400	CWA	36	16	0.7	1.0	1.3	1.7	2.1	
PG21A									
High Pressure Sodium (Mog/Clear)									
400	CWA	55	25	-	1.1	-	-	-	
1000	CWA	55	25	-	-	1.6	-	-	
Metal Halide (Mog/Clear)									
400	CWA	55	25	0.8	-	-	-	-	
1000	CWA	55	25	-	1.2	-	-	-	

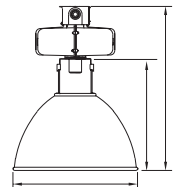
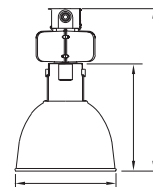
NOTES:

- Requires CWI or RLB option in Canada for MH. Available for 175-450W only.
- Requires MRB or CWI option in Canada for HPS, available for 70-400W only.
- 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- Optional multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada.)
- Optional five-tap ballast (120, 208, 240, 277, 480V). Available for 250, 400 and 1000 MH (CWA only).
- Not available with SCWA option.

HID lamps are available with luminaires. Consult factory. **Metal halide luminaires will operate comparable-wattage mercury vapor lamps.**

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

TPG PG16A	TPG PG21A
Overall height: 25-3/8 (64.5)	Overall height: 27-5/8 (70.2)
Reflector height: 15-1/2 (39.4)	Reflector height: 19-1/2 (49.5)
Diameter: 17-1/2 (44.5)	Diameter: 22 (55.9)




TPGE

DuraBay™

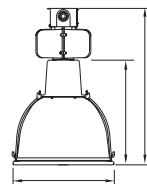


Ordering Information

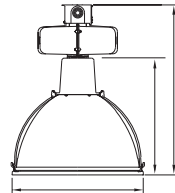
Series	Wattage	Optical	Distribution (select one)	Voltage	Options/ Accessories
High Pressure Sodium					
TPGE	150S	PG16AGLE	- C M S W	120	See pages 388-399. For ordering and packaging options, see page 400. 
	200S	PG16AGLE	- C M S W	208 ^{1,2}	
	250S	PG16AGLE	- C M S W	240 ^{1,2,3}	
	400S	PG16AGLE	- C M S W	277	
	400S	PG21AGLE	- C21 - - -	347	
	1000S	PG21AGLE	- C21 - - -	480 ^{1,2}	
				TB ⁴	
				TBV ⁵	
Metal Halide					
TPGE	175M	PG16AGLE	N C M S W		
	200M	PG16AGLE	N C M S W		
	250M	PG16AGLE	N C M S W		
	300M	PG16AGLE	N C M S W		
	320M	PG16AGLE	N C M S W		
	350M	PG16AGLE	N C M S W		
	400M	PG16AGLE	N C M S W		
	400M	PG21AGLE	N21 - - -		
	750M	PG21AGLE	N21 - - -		
	875M	PG21AGLE	N21 - - -		
	1000M	PG21AGLE	- C21 - - -		

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.

TPGEPG16AGLE
Overall height: 26-1/8 (66.4)
Reflector height: 15-1/2 (39.4)
Diameter: 17-1/2 (44.5)



TPGEPG21AGLE
Overall height: 28-1/2 (72.4)
Reflector height: 19-1/2 (49.5)
Diameter: 22 (55.9)



Intended Use

For high mounting heights that require high efficiencies, horizontal illumination, premium contrast control and higher thermal performance. Ideal for heavy manufacturing areas, retail and warehouse aisles.

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sinked to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solid-state ignitors are encased and potted (HPS). High power factor. Constant-wattage autotransformer. 180°C Class H insulation system. UL listed.

Optics – High-efficiency, high performance heat-resistant borosilicate glass reflector/refractor mounted in heavy-gauge rigid wire form. Aluminum shroud protects glass

prisms from dirt accumulation, emphasizing downward efficiency. Cast-aluminum upper enclosure, corrosion-resistant steel flange and clear tempered glass lens are fully gasketed to inhibit entrance of ambient contaminants. Lens assembly is hinged and latched for easy maintenance.

Installation – Cast-aluminum pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically oriented, mogul base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV. 5KV pulse rated for 1000S.

Listings – UL Listed to U.S. and Canadian safety standards. NOM Certified. UL listed for damp locations. Ambient operation: -30°C to 55°C. (65°C optional).

Example: TPGE 400M PG16AGLE M TB

Due to recent technological enhancements, metal halide lamps and ballasts now provide optimum performance and energy savings. See Lamps & Ballasts, page 587.

Lamp/fixture Data									
Wattage	Ballast	Weight		Spacing Criteria					
		Lbs.	Kg.	N	C	M	S	W	
PG16AGLE									
<i>High Pressure Sodium (Mog/Clear)</i>									
150	CWA	32	15	-	0.8	1.2	1.5	1.8	
200	CWA	35	16	-	1.6	1.8	2.0	2.2	
250	CWA	35	16	-	1.6	1.8	2.0	2.2	
400	CWA	38	17	-	1.2	1.6	1.8	2.0	
<i>Metal Halide (Mog/Clear)</i>									
175	CWA	36	16	-	1.3	1.5	1.7	2.0	
250	CWA	36	16	-	1.3	1.5	1.7	2.0	
400	CWA	36	16	0.8	1.2	1.4	1.6	1.9	
PG21AGLE									
<i>High Pressure Sodium (Mog/Clear)</i>									
400	CWA	55	25	-	1.0	-	-	-	
1000	CWA	55	25	-	0.8	-	-	-	
<i>Metal Halide (Mog/Clear)</i>									
400	CWA	55	25	0.8	-	-	-	-	
1000	CWA	55	25	-	1.1	-	-	-	

NOTES:

- Requires CWI or RLB option in Canada for MH. Available for 175-450W only.
- Requires MRB or CWI option in Canada for HPS, available for 70-400W only.
- 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- Optional multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada.)
- Optional five-tap ballast (120, 208, 240, 277, 480V). Available for 250, 400 and 1000 MH (CWA only).

HID lamps are available with luminaires. Consult factory. **Metal halide luminaires will operate comparable-wattage mercury vapor lamps.**

Open Glass Optical

High Bay

SPG

DuraBay™

Intended Use

For high mounting heights that require high efficiencies, horizontal and vertical illumination and premium contrast control. Ideal for retail and warehouse applications. Steel ballast housing (SPG) should be used in areas with minimal airborne containments.

Features

Housing – Steel housing with white polyester powder coat finish. All electrical components are positioned to assure unit will hang straight. Housing is ventilated for optimal thermal performance.

Ballast – Electronic ballast is 100% factory tested and UL Listed. Ballast will operate pulse start lamps only from 200-277V.

Optics – High-efficiency, high-performance, heat-resistant borosilicate glass reflector/

refractor. Standard optical is mounted with a heavy-gauge rigid wire form. Opticals are self-cleaning. Ventilated design carries optical contaminants out through top of reflector/ refractor.


Installation – One-piece galvanized hook and spring steel latch with cord and plug is standard. Optional pendant splice box (PSB) threaded for 3/4" conduit also available with other mounting options.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings – UL Listed to U.S. and Canadian safety standards. NOM Certified. UL listed for damp locations. Ambient operation: -30°C to 55°C.



Ordering Information

Series	Wattage	Optical	Distribution (select one)	Voltage	Options/Accessories
Metal Halide					
SPG	320MP 350MP 400M	PG15 PG15 PG15	N C M S W N C M S W N C M S W	208 240 277 MVOLT ¹	See pages 388-399.
For ordering and packaging options, see page 400.					
					

N = Narrow
C = Concentrating
M = Medium
S = Spread
W = Widespread

Example: **SPG 400M PG15 M 277 GEB**

Due to recent technological enhancements, metal halide lamps and ballasts now provide optimum performance and energy savings. See Lamps & Ballasts, page 587.

		Lamp/fixture Data						
Wattage	Ballast	Weight		Spacing Criteria				
		Lbs.	Kg.	N	C	M	S	W
PG15								
Metal Halide (Mog/Clear)								
400	GEB	21	9.5	0.7	1.0	1.3	1.7	2.1

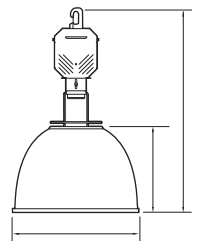
NOTES:

1 Multi-volt electronic ballast capable of operating on any line voltage between 200V and 277V at 50 or 60 Hz (available with GEB option only).

HID lamps are available with luminaires. Consult factory.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

SPG PG15
Overall height: 25-3/8 (64.5)
Reflector height: 15-1/2 (39.4)
Diameter: 17-1/2 (44.5)



THR

Acrylume™



Open Acrylic Optical

Intended Use

For high mounting heights that require higher efficiencies, general horizontal/high vertical illumination and premium contrast control. Ideal for light manufacturing areas, warehouse and retail aisles. **Consult factory for Environmental Compatibility chart.**

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sunk to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solid-state ignitors are encased and potted (HPS). High power factor. Constant-wattage autotransformer. 180°C Class H insulation system. UL listed.

Optics – UV-stabilized, high-efficiency, high-performance acrylic refractor yields high vertical footcandles while maintaining

low brightness. Optical assembly is fully adjustable & accommodates a range of light distributions, while providing approximately 15–20% upright. Open opticals are self cleaning – ventilated design carries contaminants out top of refractor. Enclosed optical utilizes clear, tempered-glass lens. Hinged & latched for easy maintenance. Coated lamps provide optimum performance.

Installation – Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available. **For areas where reflectors are subject to impact (gymnasiums, etc.), use FWG option. Not recommended for use in oily environments. Consult factory.**

Socket – Glazed porcelain, vertically-oriented, mogul-base socket with copper alloy, nickel-plated screw shell & center contact. UL listed 1500W, 600V, 4KV pulse rated.

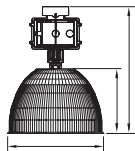
Listings – UL Listed to U.S. and Canadian safety standards. NOM Certified. UL listed for damp locations.

Ordering Information

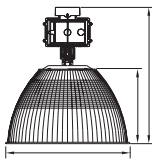
Series	Wattage	Optical
High Pressure Sodium		
THR	250S	PA16
	250S	PA22
	250S	PA22L ¹
	400S	PA22
	400S	PA22L ¹
	1000S	PA25
Metal Halide		
THR	175M	PA22E ²
	200M	PA22E ²
	250M	PA22E ²
	300MP	PA22
	300MP	PA22
	320MP	PA22
	350MP	PA22
	350MP	PA22
	400M	PA22
	400MP	PA22
	400M	PA22L ¹
	400MP	PA22L ¹
	450MP	PA22
	1000M	PA25
	1000MP	PA25

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

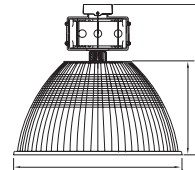
THRPA16
Reflector height:
10-3/4 (27.3)
Varies with distribution.
Overall height:
20-5/8 to 26 (52.4 to 66)
Diameter: 16-1/4 (41.3)



THRPA22/PA22L
Reflector height:
13-1/2 (34.3)
Varies with distribution.
Overall height: 20-5/8 to 26
(52.4 to 66)
Diameter: 22-3/8 (56.8)



THRPA25
Reflector height: 14 (35.6)
Varies with distribution.
Overall height:
23 to 26-3/8 (58.4 to 62)
Diameter: 25-1/2 (64.8)



Voltage	Options/Accessories
120	See pages 388-399. For ordering and packaging options, see page 400.
208 ^{3,4}	
240 ^{3,4,5}	
277	
347	
480 ^{3,4}	
TB ⁶	
TBV ⁷	



Example: THR 400M PA22 TB

Due to recent technological enhancements, metal halide lamps and ballasts now provide optimum performance and energy savings. See Lamps & Ballasts, page 587.

Lamp/fixture data			
Wattage	Ballast	Weight Lbs.Kg.	S/Mtg. Height
High Pressure Sodium (Mog/Coated)			
250 (PA16)	CWA	21 10	1.2 to 1.9
400 (PA22)	CWA	35 16	1.3 to 2.0
High Pressure Sodium (Mog/Coated)			
1000 (PA25)	CWA	48 22	1.3 to 2.2
Metal Halide (Mog/Coated)			
175 (PA22E)	CWA	20 9	1.3 to 2.0
250 (PA22E)	CWA	22 10	1.3 to 2.0
400 (PA22)	CWA	31 14	1.2 to 2.1
1000 (PA25)	CWA	40 18	1.6 to 2.2

NOTES:

- Lensed bottom, open top. Periodic cleaning maintains performance. Does not meet UL lamp rupture containment.
- Meets UL lamp rupture containment standards. Periodic cleaning maintains performance.
- Requires CWI or RLB option in Canada for MH. Available for 175-450W only.
- Requires MRB or CWI option in Canada for HPS, available for 70-400W only.

- 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- Optional multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada.)
- Optional five-tap ballast (120, 208, 240, 277, 480V). Available for 250, 400 and 1000 MH (CWA only).

HID lamps are available with luminaires. Consult factory. **Metal halide luminaires will operate comparable-wattage mercury vapor lamps.**

Ambient Parameters Product	-30° to 25°C (-22° to 77°F)	-30° to 40°C (-22° to 104°F)	-30° to 55°C (-22° to 131°F)
THR 100S, 150S, 250S PA16, PA22			■
THR 175M, 250M PA22E			■
THR 400S, 400M PA16	■		
THR 400M, 400S PA22			■
THR 400M, 400S PA22L		■	
THR 1000M, 1000S PA25		■	

■ = COMPATABILITY

THR

Acrylume™

Intended Use

For high mounting heights that require higher efficiencies, high horizontal/vertical illumination and premium contrast control. Ideal for light manufacturing areas, warehouse and retail aisles. **Consult factory for Environmental Compatibility chart.**

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sunked to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solid-state ignitors are encased and potted (HPS). High power factor. Constant-wattage autotransformer. 180°C Class H insulation system. UL listed.

Optics – UV-stabilized, high-efficiency, high-performance acrylic refractor yields high horizontal footcandles while main-

taining low brightness. Optical assembly is fully adjustable and accommodates a range of light distributions while providing approximately 15–20% upright. Self-cleaning, ventilated design carries optical contaminants out top of refractor. Coated lamps provide optimum performance.

Installation – Pendant splice box threaded for ¾" conduit (standard). Other mounting options available. **For areas where reflectors are subject to impact (gymnasiums, etc.), use FWG option. Not recommended for use in oily environments. Consult factory.**


Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings – UL Listed to U.S. and Canadian safety standards. NOM Certified. UL listed for damp locations.



PA22SP, PA22N

Ordering Information

Series	Wattage	Optical	Voltage	Options/Accessories	
High Pressure Sodium					
THR	250S	PA22N	120	See pages 388-399. For ordering and packaging options, see page 400. 	
	400S	PA22N	208 ^{1,2}		
Metal Halide	THR	PA22N	240 ^{1,3}		
			277		
			347		
			480 ^{2,3}		
			TB ⁴		
			TBV ⁵		
			200MP		PA22N
			250MP		PA22N
			300MP	PA22N	
			320MP	PA22N	
350MP	PA22N				
400M	PA22N				
400MP	PA22N				
200MP	PA22SP				
250MP	PA22SP				
300MP	PA22SP				
320MP	PA22SP				
350MP	PA22SP				
400M	PA22SP				
400MP	PA22SP				
450MP	PA22SP				

- NOTES:
- Requires CWI option in Canada for MH.
 - Requires MRB or CWI option in Canada for HPS, available for 70-400W only.
 - 220V and 240V 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
 - Optional multi-tap ballast (120, 208, 240, 277V). (120, 277, 347V in Canada.)
 - Optional five-tap ballast (120, 208, 240, 277, 480V). Available for 250, 400 and 1000 MH (CWA only).

HID lamps are available with luminaires. Consult factory. **Metal halide luminaires will operate comparable-wattage mercury vapor lamps.**

Ambient Parameters	-30° to 25°C	-30° to 40°C	-30° to 55°C
Product	(-22° to 77°F)	(-22° to 104°F)	(-22° to 131°F)
THR 250-400S PA22N/PA22SP			■
THR 400M PA22N/PA22SP			■

■ = COMPATIBILITY

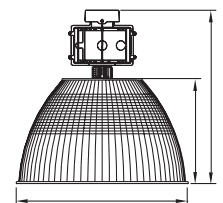
Example: THR 400M PA22N TB

Due to recent technological enhancements, metal halide lamps and ballasts now provide optimum performance and energy savings. See Lamps & Ballasts, page 587.

Lamp/Fixture data				
Wattage	Ballast	Weight		S/Mtg. Height
		Lbs.	Kg.	
High Pressure Sodium (Mog/Coated)				
250 (PA22N)	CWA	21	10	0.8 to 2.0
400 (PA22N)	CWA	35	16	0.8 to 2.0
Metal Halide (Mog/Coated)				
400 (PA22N)	CWA	31	14	0.8 to 2.1
400 (PA22SP)	CWA	31	14	0.8 to 2.1

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

THR PA22N/PA22SP
 Reflector height: 13-1/2 (34.3)
 Diameter: 22-3/8 (56.8)
 Overall height: 20-5/8 to 26 (52.4 to 66)
 Varies with distribution.



SH PA22

Acrylume™

NEW



PA22

Open Acrylic Optical

Intended Use

For high mounting heights that require higher efficiencies, high horizontal/vertical illumination and premium contrast control. Ideal for light manufacturing areas, warehouse and retail aisles. Steel ballast housings should be used in areas with minimal airborne contaminants. **Consult factory for Environmental Compatibility chart.**

Features

Housing – Steel housing with white polyester powder coat finish. All electrical components are positioned to assure unit will hang straight. Housing is ventilated for optimal thermal performance.

Ballast – Electronic ballast is 100% factory tested and UL Listed. Ballast will operate pulse start lamps only from 200-277V.

Optics – UV-stabilized, high-efficiency, high-performance acrylic refractor yields high horizontal footcandles while maintaining low brightness. Optical assembly is

fully adjustable, accommodates a range of light distributions while providing approximately 15–20% uplight. Self-cleaning, ventilated design carries optical contaminants out top of refractor. Coated lamps provide optimum performance.

Installation – One-piece galvanized hook and spring steel latch with cord and plug standard. Optional pendant splice box threaded for 3/4" conduit available. **For areas where reflectors are subject to impact (gymnasiums, etc.), use FWG option. Not recommended for use in oily environments. Consult factory.**

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings – UL Listed to U.S. and Canadian safety standards. NOM Certified. UL listed for damp locations.

Ordering Information

Series	Wattage	Optical	Voltage	Options/Accessories
Metal Halide SH	320MP 350MP 400M 400MP	PA22 PA22 PA22 PA22	208 240 277 MVOLT¹	See pages 388-399.

For ordering and packaging options, see page 400.



Example: SH 400M PA22 277 GEB

Due to recent technological enhancements, metal halide lamps and ballasts now provide optimum performance and energy savings. See Lamps & Ballasts, page 587.

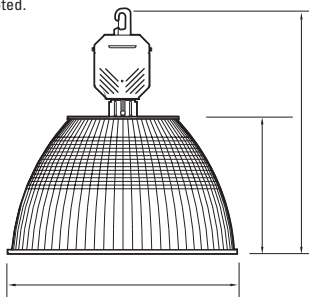
Lamp/Fixture data				
Wattage	Ballast	Weight Lbs.	Kg.	S/Mtg. Height
Metal Halide (Mog/Coated)				
400 (PA22)	GEB	14	6.5	1.2 to 2.1

Ambient Parameters	-30° to 25°C	-30° to 40°C	-30° to 55°C
Product	(-22° to 77°F)	(-22° to 104°F)	(-22° to 131°F)
SH400M PA22			■

■ = COMPATIBILITY

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.

SHPA22
 Reflector height: 13-1/2 (34.3)
 Diameter: 22-3/8 (56.8)
 Overall height: 20-5/8 to 26 (52.4 to 66)
 Varies with distribution.



NOTES:

1 Multi-volt electronic ballast capable of operating on any line voltage between 200V and 277V at 50 or 60 Hz (available with GEB option only).

HID lamps are available with luminaires. Consult factory.

Premium Enclosed Aluminum Optical

High Bay

TE

Hi-Tek®

Intended Use

For high-mounting heights that require high efficiencies, horizontal illumination, premium glare control and total enclosure. Ideal for heavy manufacturing areas, gymnasiums and wet location applications.

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components are horizontally opposed and heat-sunk to ballast housing for cool operation.

Ballast – Copper wound and 100% factory tested. Solid-state ignitors are encased and potted (HPS). High power factor, constant-wattage autotransformer. 180°C Class H insulation system. UL listed.

Optics – One-piece, totally enclosed-and-gasketed spun aluminum, anodized reflector combines high efficiency with extended shielding angle for high-performance op-

tical control. Exclusive fluting design minimizes arc tube voltage rise. Gasketed, clear, tempered-glass lens inhibits the entrance of ambient contaminants. Hinge and lens retainer latches for tool-less access.

Installation – Pendant splice box is threaded for 3/4" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated. 5KV pulse rated for 1000S.

Listings – UL Listed to U.S. and Canadian safety standards. NOM Certified. UL listed for damp locations. Ambient operation: -30°C to 55°C. (65°C optional).



Ordering Information

Series	Wattage	Optics	Distribution (select one)	Voltage	Options/Accessories	
High Pressure Sodium					See pages 388-399.	
TE	70S	E17	N C M S W	120	For ordering and packaging options, see page 400.	
	100S	E17	N C M S W	208 ^{1,2}		
	150S	E17	- C M S W	240 ^{1,2,3}		
	200S	E17	N C M S W	277		
	250S	E17	N C M S W	347		
	400S	E17	- - M S W	480 ^{1,2}		
	400S	E22	N C - - -	TB ⁴		
	1000S	E22	N C - - -	TBV ⁵		
	Metal Halide					
	TE	175M	E17	- C M S W		
200M		E17	- C M S W			
250M		E17	- C M S W			
300M		E17	- - M S W			
320M		E17	- - M S W			
350M		E17	- - M S W			
400M		E17	- - M S W			
350M		E22	N C - - -			
400M		E22	N C - - -			
450M		E22	N C - - -			
750M	E22	N C - - -				
875M	E22	N C - - -				
1000M	E22	- C M S -				



Example: TE 400M E17 M TB

Due to recent technological enhancements, metal halide lamps and ballasts now provide optimum performance and energy savings. See Lamps & Ballasts, page 587.

Lamp/fixture Data												
Wattage	Ballast	Weight		Spacing/Mounting Height								
		Lbs.	Kg.	E17N	E17C	E17M	E17S	E17W	E22N	E22C	E22M	E22S
High Pressure Sodium (Mog/Clear)												
70	HX-HPF	21	10	-	1.0	1.3	1.5	1.9	-	-	-	-
100	HX-HPF	21	10	-	1.0	1.4	1.5	1.9	-	-	-	-
150	HX-HPF	21	10	-	1.0	1.3	1.6	1.8	-	-	-	-
200	CWA	22	10	0.8	1.1	1.3	1.5	1.9	-	-	-	-
250	CWA	26	12	0.8	1.1	1.3	1.5	1.9	-	-	-	-
400	CWA	41	19	-	-	-	-	-	0.8	1.1	-	-
400	CWA	39	18	-	-	1.2	1.5	1.9	-	-	-	-
1000	CWA	65	29	-	-	-	-	-	0.8	1.0	-	-
Metal Halide (Mog/Clear)												
175	CWA	22	10	-	1.0	1.4	1.6	2.0	-	-	-	-
250	CWA	24	11	-	1.0	1.3	1.6	1.9	-	-	-	-
400	CWA	31	14	-	-	-	-	-	0.8	1.0	-	-
400	CWA	31	14	-	-	1.4	1.6	1.9	-	-	-	-
1000	CWA	50	23	-	-	-	-	-	-	1.0	1.3	1.6

N = Narrow
C = Concentrating
M = Medium
S = Spread
W = Widespread

NOTES:

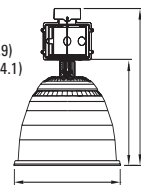
- Requires CWI or RLB option in Canada for MH. Available for 175-450W only.
- Requires MRB or CWI option in Canada for HPS, available for 70-400W only.
- 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- Optional multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada.)
- Optional five-tap ballast (120, 208, 240, 277, 480V). Available for 250, 400 and 1000 MH (CWA only).

HID lamps are available with luminaires. Consult factory. **Metal halide luminaires will operate comparable-wattage mercury vapor lamps.**

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

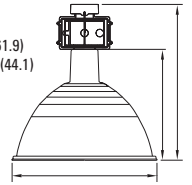
TE E17

Overall height: 24-3/8 (61.9)
Reflector height: 17-3/8 (44.1)
Diameter: 17-7/8 (45.4)



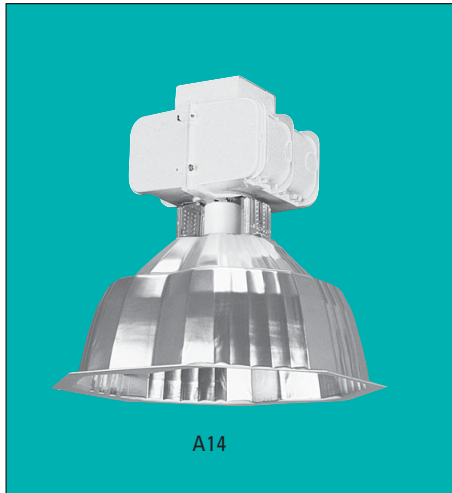
TE E22

Overall height: 24-3/8 (61.9)
Reflector height: 17-3/8 (44.1)
Diameter: 23 (58.4)



THV

Hi-Tek®



A14

Premium Open Aluminum Optical

Intended Use

For high-mounting heights that require high efficiencies, horizontal illumination and vertical illumination. Ideal for manufacturing and warehouse aisles.

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components are horizontally opposed and heat-sunk to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solid-state ignitors are encased and potted (HPS). High power factor, constant-wattage autotransformer. 180°C Class H insulation system. UL listed.

Optics – One-piece hydroformed, anodized aluminum reflector provides rectangular distribution for maximum luminaire spacing and vertical illumination.

Installation – Pendant splice box is threaded for 3/4" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings – UL Listed to U.S. and Canadian safety standards. NOM Certified. UL listed for damp locations. Ambient operation: -30°C to 55°C. (65°C optional).

Ordering Information

Series	Wattage	Optical
High Pressure Sodium		
THV	150S	A14
	200S	A14
	250S	A14
	400S	A14
Metal Halide		
THV	175MP	A14
	200MP	A14
	250MP	A14
	300MP	A14
	320MP	A14
	350MP	A14
	400M	A14
	450MP	A14

Voltage	Options/Accessories
120	See pages 388-399. For ordering and packaging options, see page 400.
208 ^{1,2}	
240 ^{1,2,3}	
277	
347	
480 ^{1,2}	
TB ⁴	
TBV ⁵	



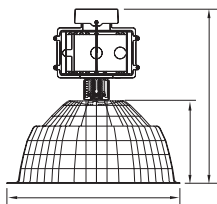
Example: THV 400M A14 TB

Due to recent technological enhancements, metal halide lamps and ballasts now provide optimum performance and energy savings. See Lamps & Ballasts, page 587.

Lamp/fixture Data				
Wattage	Ballast	Weight		S/Mtg.
		Lbs.	Kg.	Height
High Pressure Sodium (Mog/Clear)				
150	HX-HPF	16	7	2.7
200	HX-HPF	16	7	2.5
250	CWA	19	9	2.5
400	CWA	27	12	2.5
Metal Halide (Mog/Clear)				
400	CWA	23	10	2.4

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.

THVA14
Overall height: 17-3/4 to 19-1/2 (45.1 to 49.5).
Varies with distribution.
Reflector height: 8-1/2 (21.6)
Diameter: 17-3/4 (45.1)



NOTES:

- 1 Requires CWI or RLB option in Canada for MH. Available for 175-450W only.
- 2 Requires MRB or CWI option in Canada for HPS, available for 70-400W only.
- 3 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- 4 Optional multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada.)
- 5 Optional five-tap ballast (120, 208, 240, 277, 480V). Available for 250, 400 and 1000 MH (CWA only).

HID lamps are available with luminaires. Consult factory. **Metal halide luminaires will operate comparable-wattage mercury vapor lamps.**

SH A14

Hi-Tek®

Intended Use

For high-mounting heights that require high efficiencies, horizontal illumination and high vertical illumination. Ideal for manufacturing and warehouse aisles. Steel ballast housings should be used in areas with minimal airborne contaminants.

Features

Housing – Steel housing with white polyester powder coat finish. All electrical components are positioned to assure unit will hang straight. Housing is ventilated for optimal thermal performance.

Ballast – Electronic ballast is 100% factory tested and UL Listed. Ballast will operate pulse start lamps only from 200-277V.

Optics – One-piece hydroformed, anodized aluminum reflector provides rectangular distribution for maximum luminaire spacing and high illumination.

Installation – One-piece galvanized hook and spring steel latch with cord and plug is standard. Optional pendant splice box (PSB) threaded for 3/4" conduit also available with mounting options.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings – UL Listed to U.S. and Canadian safety standards. NOM Certified. UL listed for damp locations. Ambient operation: -30°C to 55°C.

NEW



Ordering Information

Series	Wattage	Optical	Voltage	Options/Accessories
Metal Halide SH	320MP 350MP 400M 400MP	A14 A14 A14 A14	208 240 277 MVOLT¹	See pages 388-399. For ordering and packaging options, see page 400.

Pulse Start H.I.D. Ballast/Lamp Systems

Example: **SH 400M A14 277 GEB**

Due to recent technological enhancements, metal halide lamps and ballasts now provide optimum performance and energy savings. See Lamps & Ballasts, page 587.

Lamp/fixture Data			
Wattage	Ballast	Weight Lbs. Kg.	S/Mtg. Height
Metal Halide (Mog/Clear)			
400	GEB	12 5.5	2.4

NOTES:

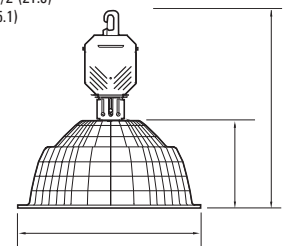
1 Multi-volt electronic ballast capable of operating on any line voltage between 200V and 277V at 50 or 60 Hz (available with GEB option only).

HID lamps are available with luminaires. Consult factory.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

SHA14

Overall height: 17-3/4 to 19-1/2 (45.1 to 49.5).
Varies with distribution.
Reflector height: 8-1/2 (21.6)
Diameter: 17-3/4 (45.1)



THP

Hi-Tek®



Premium Open Aluminum Optical

Intended Use

For high mounting heights that require high efficiencies, horizontal illumination and premium glare control. Ideal for manufacturing areas and aisles.

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sunk to ballast housing for cool operation.

Ballast – Copper wound and 100% factory tested. Solid-state ignitors are encased and potted (HPS). High power factor, constant-wattage autotransformer. 180°C Class H insulation system. UL listed.

Optics – Premium spun aluminum, anodized reflector combines high efficiency with ex-

tended shielding angles for high performance. Exclusive fluted design minimizes arc tube voltage rise. Optical system is adjustable and accommodates the full range of industrial light distributions. Self-cleaning, ventilated design carries optical contaminants out through open top of reflector.


Installation – Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated. 5KV pulse rated for 1000S.

Listings – UL Listed to U.S. and Canadian safety standards. NOM Certified. UL listed for damp locations. Ambient operation: -30°C to 55°C. (65°C optional).

Ordering Information

Series	Wattage	Optical
High Pressure Sodium		
THP	70S	A17
	100S	A17
	150S	A17
	200S	A17
	250S	A17
	400S	A17
	1000S	A22
Metal Halide		
THP	175MP	A17
	200MP	A17
	250MP	A17
	300MP	A17
	320MP	A17
	350MP	A17
	400M	A17
	400MP	A17
	450MP	A17
	750M	A22
	1000M	A22
	1000MP	A22

Voltage	Options/Accessories	
120	See pages 388-399.	
208^{1,2}		
240^{1,2,3}		
277		
347		
480^{1,2}		
TB⁴		
TBV⁵		
		
For ordering and packaging options, see page 400.		

Example: THP 400M A17 TB

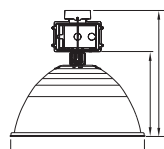
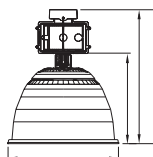
Due to recent technological enhancements, metal halide lamps and ballasts now provide optimum performance and energy savings. See Lamps & Ballasts, page 587.

Lamp/fixture data				
Wattage	Ballast	Weight		S/Mtg.
		Lbs.	Kg.	Height
High Pressure Sodium (Mog/Clear)				
70	HX-HPF	16	8	0.9 to 1.8
100	HX-HPF	17	8	0.9 to 1.8
150	HX-HPF	17	8	0.9 to 1.8
200	CWA	19	9	0.8 to 2.0
250	CWA	21	10	0.8 to 2.0
400 (A17)	CWA	33	15	0.8 to 1.9
1000 (A22)	CWA	56	26	0.8 to 1.6
Metal Halide (Mog/Clear)				
400 (A17)	CWA	25	11	0.8 to 1.8
1000 (A22)	CWA	45	21	1.0 to 1.9

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

THPA22
 Overall height: 23-1/2 to 25 (59.7 to 63.5).
 Varies with distribution.
 Reflector height: 12-1/4 (31.1)
 Diameter: 23-1/4 (59.1)

THPA17
 Overall height: 21-1/2 to 23-1/2 (54.6 to 59.7).
 Varies with distribution.
 Reflector height: 12-1/8 (30.8)
 Diameter: 17-7/8 (45.4)



NOTES:

- Requires CWI or RLB option in Canada for MH. Available for 175-450W only.
- Requires MRB or CWI option in Canada for HPS, available for 70-400W only.
- 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- Optional multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada.)
- Optional five-tap ballast (120, 208, 240, 277, 480V). Available for 250, 400 and 1000 MH (CWA only).

HID lamps are available with luminaires. Consult factory. **Metal halide luminaires will operate comparable-wattage mercury vapor lamps.**

Open or Lensed Aluminum Optical

High Bay

THS

Hi-Tek®

Intended Use

For high mounting heights that require high efficiencies and horizontal illumination. Ideal for general manufacturing areas, storage areas and warehouse aisles.

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sunk to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solid-state ignitors are encased-and-potted (HPS). High power factor, constant-wattage autotransformer. 180°C Class H insulation system. UL listed.

Optics – High-efficiency, anodized, spun aluminum reflector with exclusive fluted

design that minimizes arc-tube voltage rise for optimal lamp life. Open opticals are self cleaning with a ventilated design that carries contaminants out top of reflector.


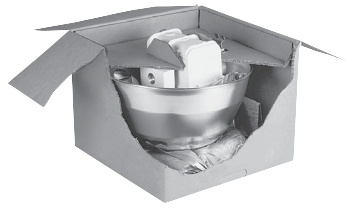
Installation – Pendant splice box threaded for ¾" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically oriented mogul-base socket with copper alloy nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings – UL Listed to U.S. and Canadian safety standards. NOM Certified. UL listed for damp locations. Ambient operation: -30°C to 55°C. (65°C optional). A16GL meets UL lamp rupture containment specifications.



Ordering Information

Series	Wattage	Optical	Voltage	Options/Accessories
Open				
<u>High Pressure Sodium</u>				
THS	70S	A16	120	See pages 388-399. For ordering and packaging options, see page 400.
	100S	A16	208 ^{2,3}	
	150S	A16	240 ^{2,3,4}	
	200S	A16	277	
	250S	A16 ¹	347	
	400S	A16 ¹	480 ^{2,3}	
			TB ⁵	
			TBV ⁶	
<u>Metal Halide</u>				
THS	175MP	A16		
	200MP	A16		
	250MP	A16		
	320MP	A16		
	350MP	A16		
	400MP	A16 ¹		
	400MP	A16		
	450MP	A16		
Lensed				
<u>High Pressure Sodium</u>				
THS	250S	A16GL		
	400S	A16GL		
<u>Metal Halide</u>				
THS	175M	A16GL		
	200M	A16GL		
	250M	A16GL		
	300M	A16GL		
	320M	A16GL		
	350M	A16GL		
	400M	A16GL		
	450M	A16GL		

Example: THS 400M A16 TB

Due to recent technological enhancements, metal halide lamps and ballasts now provide optimum performance and energy savings. See Lamps & Ballasts, page 587.

THS A16 Lamp/fixture data				
Wattage	Ballast	Weight Lbs.	Kg.	S/Mtg. Height
<u>High Pressure Sodium (Mog/Clear)</u>				
70	HX-HPF	12	5	0.9 to 1.8
100	HX-HPF	13	5	0.9 to 1.8
150	HX-HPF	14	6	0.9 to 1.8
200	CWA	14	6	1.1 to 1.9
250	CWA	17	8	1.1 to 1.9
400	CWA	25	11	1.1 to 2.0
<u>Metal Halide (Mog/Clear)</u>				
175	CWA	16	7	1.2 to 2.1
250	CWA	20	9	1.2 to 2.1
400	CWA	21	10	1.2 to 1.9

NOTES:

- 1 THD consists of TH housing and A16 reflector shipped in one carton. Available with tapped ballast or 480V only. To order, change THS designation to THD. Available only in wattages indicated.
- 2 Requires CWI or RLB option in Canada for MH. Available for 175-450W only.
- 3 Requires MRB or CWI option in Canada for HPS, available for 70-400W only.
- 4 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- 5 Optional multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada.)
- 6 Optional five-tap ballast (120, 208, 240, 277, 480V). Available for 250, 400 and 1000 MH (CWA only).

HID lamps are available with luminaires. Consult factory. **Metal halide luminaires will operate comparable-wattage mercury vapor lamps.**

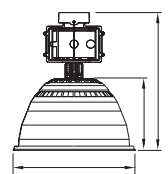
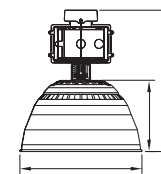
Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

THSA16

Overall height: 17-1/4 to 20 (43.8 to 50.8).
Varies with distribution.
Reflector height: 9-1/2 (24.1)
Diameter: 16 (40.6)

THSA16GL

Overall height: 17-1/4 to 20 (43.8 to 50.8).
Varies with distribution.
Reflector height: 10-1/2 (26.7)
Diameter: 17-1/4 (43.8)



SH A16

Hi-Tek®

NEW



Open or Lensed Aluminum Optical

Intended Use

For high mounting heights that require high efficiencies and horizontal illumination. Ideal for storage areas and warehouse aisles. Steel ballast housings should be used in areas with minimal airborne contaminants.

Features

Housing – Steel housing with white polyester powder coat finish. All electrical components are positioned to assure unit will hang straight. Housing is ventilated for optimal thermal performance.

Ballast – Electronic ballast is 100% factory tested and UL Listed. Ballast will operate pulse start lamps only from 200-277V.

Optics – High-efficiency, anodized, spun aluminum reflector with exclusive fluted design that minimizes arc-tube voltage rise for optimal lamp life. Open opticals

are self-cleaning with a ventilated design that carries contaminants out top of reflector.

Installation – One-piece galvanized hook and spring steel latch with cord and plug is standard. Optional pendant splice box (PSB) threaded for 3/4" conduit also available with other mounting options.

Socket – Glazed porcelain, vertically-oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings – UL Listed to U.S. and Canadian safety standards. NOM Certified. UL listed for damp locations. Ambient operation: -30°C to 55°C. A16GL meets UL Lamp rupture containment specifications.

Ordering Information

Series	Wattage	Optical
Open		
Metal Halide		
SH	320MP 350MP 400M 400MP	A16 A16 A16 A16
Lensed		
Metal Halide		
SH	320M 350M 400M	A16GL A16GL A16GL

Voltage	Options/Accessories
208 240 277 MVOLT ¹	See pages 388-399.

For ordering and packaging options, see page 400.



Example: SH 400M A16 208 GEB

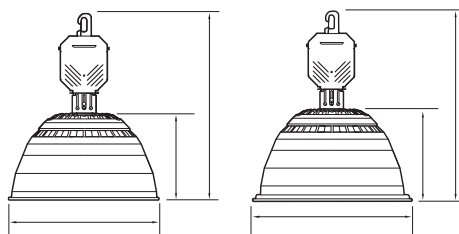
Due to recent technological enhancements, metal halide lamps and ballasts now provide optimum performance and energy savings. See Lamps & Ballasts, page 587.

SH A16 Lamp/fixture data				
Wattage	Ballast	Weight Lbs./Kg.		S/Mtg. Height
<i>Metal Halide (Mog/Clear)</i>				
400	GEB	12	5.5	1.2 to 1.9

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

SH A16
Overall height: 21 to 24-1/4 (53.3 to 61.6).
Varies with distribution.
Reflector height: 9-1/2 (24.1)
Diameter: 16 (40.6)

SH A16GL
Overall height: 21 to 24-1/4 (53.3 to 61.6).
Varies with distribution.
Reflector height: 10-1/2 (26.7)
Diameter: 17-1/4 (43.8)



NOTES:

1 Multi-volt electronic ballast capable of operating on any line voltage between 200V and 277V at 50 or 60 Hz (available with GEB option only).

HID lamps are available with luminaires. Consult factory.

Intended Use

For high mounting heights that require high efficiencies and horizontal illumination. Ideal for general manufacturing areas, storage areas and warehouse aisles.

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sunked to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solid-state ignitors are encased-and-potted (HPS). High power factor, constant-wattage autotransformer. 180°C Class H insulation system. UL listed.

Optics – High-efficiency, anodized, spun aluminum reflector with exclusive fluted

design that minimizes arc-tube voltage rise for optimal lamp life. Self-cleaning ventilated design that carries contaminants out top of reflector.

Installation – Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically-oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings – UL Listed to U.S. and Canadian safety standards. NOM Certified. UL listed for damp locations. Ambient operation: -30°C to 55°C. (65°C optional).



A15

Example: **THC 400M A15 TB**

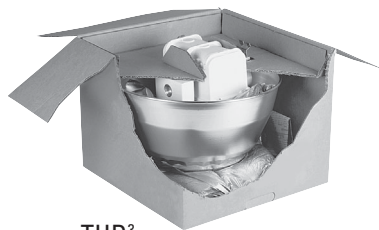
Due to recent technological enhancements, metal halide lamps and ballasts now provide optimum performance and energy savings. See Lamps & Ballasts, page 587.

Ordering Information

Series	Wattage	Optical	Voltage	Options/Accessories
High Pressure Sodium				
THC	70S	A15 ^{1,3}	120	See pages 388-399. For ordering and packaging options, see page 400.
	100S	A15 ^{1,3}	208 ^{4,5}	
	150S	A15 ^{1,3}	240 ^{4,5,6}	
	200S	A15 ^{1,3}	277	
	250S	A15 ^{1,3}	347	
	400S	A15 ^{1,3}	480 ^{4,5}	
			TB ⁷	Pulse Start H.I.D. Ballast/Lamp Systems
			TBV ⁸	

Metal Halide

THC	175MP	A15
	200MP	A15
	250MP	A15 ^{2,3}
	300MP	A15
	320MP	A15 ^{2,3}
	350MP	A15 ^{2,3}
	400M	A15 ^{2,3}
	400MP	A15 ^{2,3}
	450MP	A15 ^{2,3}



THD³

Unitized Distributor Pack

NOTES:

- Optimum performance achieved at leg position 4.
- Optimum performance achieved at leg position 11.
- THD consists of TH housing and A15 reflector shipped in one carton. Available with tapped ballast or 480V only. To order, change THC designation to THD. Available only in wattages indicated.
- Requires CWI or RLB option in Canada for MH. Available for 175-450W only.
- Requires MRB or CWI option in Canada for HPS. Available for 70-400W only.
- 220V and 240V 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- Optional multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada.)
- Optional five-tap ballast (120, 208, 240, 277, 480V). Available for 250, 400 and 1000 MH (CWA only).

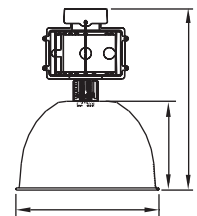
HID lamps are available with luminaires. Consult factory. **Metal halide luminaires will operate comparable-wattage mercury vapor lamps.**

THC A15 Lamp/Fixture data				
Wattage	Ballast	Weight		S/Mtg.
		Lbs.	Kg.	Height
High Pressure Sodium (Mog/Clear)				
250	CWA	17	8	1.5
400	CWA	25	11	1.5
Metal Halide (Mog/Clear)				
400	CWA	21	10	1.7

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

THCA15

Overall height:
250/400S: 19-1/2 (49.5)
400M: 21-1/4 (54.0)
Reflector height: 9 (22.9)
Diameter: 14-3/4 (37.5)



SH A15

Hi-Tek®

NEW



A15

Open Aluminum Optical

Intended Use

For high mounting heights that require high efficiencies and horizontal illumination. Ideal for general manufacturing areas, storage areas and warehouse aisles. Steel Ballast Housing (SH) should be used in areas with minimal airborne contaminants.

Features

Housing – Steel housing with white polyester powder coat finish. All electrical components are positioned to assure unit will hang straight. Housing is ventilated for optimal thermal performance.

Ballast – Electronic ballast is 100% factory tested and UL Listed. Ballast will operate pulse start lamps only from 200-277V.

Optics – High-efficiency, anodized, spun aluminum reflector with exclusive fluted design that minimizes arc-tube voltage

rise for optimal lamp life. Self-cleaning ventilated design carries contaminants out top of reflector.

Installation – One-piece galvanized hook and spring steel latch with cord and plug is standard. Optional pendant splice box (PSB) threaded for 3/4" conduit also available with other mounting options.

Socket – Glazed porcelain, vertically-oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings – UL Listed to U.S. and Canadian safety standards. NOM Certified. UL listed for damp locations. Ambient operation: -30°C to 55°C.

Ordering Information

Series	Wattage	Optical	Voltage	Options/Accessories
Metal Halide SH	320M 320MP 350MP 400M 400MP	A15 ¹ A15 ¹ A15 ¹ A15 ¹ A15 ¹	208 240 277 MVOLT ²	See pages 388-399. For ordering and packaging options, see page 400.

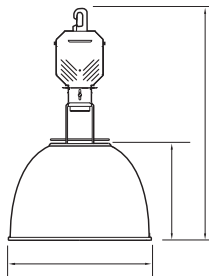
Example: SH 400M A15 277 GEB

Due to recent technological enhancements, metal halide lamps and ballasts now provide optimum performance and energy savings. See Lamps & Ballasts, page 587.

SH A15 Lamp/Fixture data				
Wattage	Ballast	Weight		S/Mtg.
		Lbs.	Kg.	Height
Metal Halide (Mog/Clear)				
400	GEB	12	5.5	1.7

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

SHA15
Overall height:
250/400S: 19-1/2 (49.5)
400M: 21-1/4 (54.0)
Reflector height: 9 (22.9)
Diameter: 14-3/4 (37.5)



NOTES:

- Optimum performance achieved at leg position 11.
- Multi-volt electronic ballast capable of operating on any line voltage between 200V and 277V at 50 or 60 Hz (available with GEB option only).

HID lamps are available with luminaires. Consult factory.

TXR

Acrylume™

Intended Use

For controlled environments that require vertical and high horizontal illumination. Ideal for retail areas, light manufacturing areas and aisles. **Consult factory for Environmental Compatibility chart.**

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sunk to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solid-state ignitors are encased and potted (HPS). High power factor, constant-wattage autotransformer. 180°C Class H insulation system. Meets ANSI C82 ballast standards. UL listed.

Optics – Injection-molded, virgin acrylic reflector with clear, tempered glass lens enclosure. UV-stabilized reflector. Hinge

and lens retainer latches facilitate tool-less removal for maintenance and cleaning. Totally enclosed, gasketed refractor and reflector inhibit the entrance of ambient contaminants. Meets UL lamp rupture containment specifications. Coated lamps provide optimum performance.

Installation – Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available. **For areas where reflectors are subject to impact (gymnasiums, etc.), use FWG (full wireguard) option. Not recommended for use in oily environments. Consult factory.**

Socket – Glazed porcelain, vertically oriented mogul-base socket with copper alloy, nickel-plated screw shell & center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings – UL Listed to U.S. and Canadian safety standards. NOM Certified. UL listed for damp locations. -30°C to 40°C ambient operations.



PA22GLE

Ordering Information

Series	Wattage	Optical	Voltage	Options/Accessories
High Pressure Sodium				
TXR	250S	PA22GLE	120	See pages 388-399. For ordering and packaging options, see page 400.
	400S	PA22GLE	208 ^{1,2}	
			240 ^{1,2,3}	
			277	
			347	
Metal Halide				
TXR	175M	PA22GLE	480 ²	Pulse Start H.I.D. Ballast/Lamp Systems
	200M	PA22GLE	TB ⁴	
	250M	PA22GLE	TB ⁵	
	300M	PA22GLE		
	320M	PA22GLE		
	350M	PA22GLE		
	400M	PA22GLE		
450M	PA22GLE			

Example: TXR 400M PA22GLE TB

Due to recent technological enhancements, metal halide lamps and ballasts now provide optimum performance and energy savings. See Lamps & Ballasts, page 587.

Lamp/Fixture data				
Wattage	Ballast	Weight		S/Mtg.
		Lbs.	Kg.	Height
High Pressure Sodium (Mog/Clear)				
250 (PA22GLE)	CWA	33	15	1.6
400 (PA22GLE)	CWA	36	16	1.6
Metal Halide (Mog/Clear)				
250 (PA22GLE)	CWA	30	14	1.7
400 (PA22GLE)	CWA	33	15	1.7

Ambient Parameters	-30° to 25°C (-22° to 77°F)	-30° to 40°C (-22° to 104°F)	-30° to 55°C (-22° to 131°F)
TXR 250S, 250M PA22GLE		■	
TXR 400S, 400M PA22GLE		■	

■ = COMPATABILITY

NOTES:

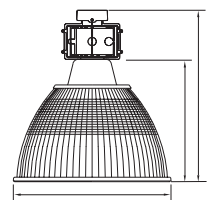
- Requires CWI or RLB option in Canada for MH. Available for 175-450W only.
- Requires MRB or CWI option in Canada for HPS, available for 70-400W only.
- 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- Optional multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada.)
- Optional five-tap ballast (120, 208, 240, 277, 480V). Available for 250, 400 and 1000 MH (CWA only).

HID lamps are available with luminaires. Consult factory. **Metal halide luminaires will operate comparable-wattage mercury vapor lamps.**

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

TXR PA22GLE

Overall height: 24-1/2 (62.2)
Reflector height: 17-1/2 (44.5)
Diameter: 23-3/8 (59.4)



TXR

Acrylume™



Premium Enclosed Acrylic Optical

Intended Use

For controlled environments that require vertical and high horizontal illumination. Ideal for retail areas, light manufacturing areas and aisles. **Consult factory for Environmental Compatibility chart.**

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sunk to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solid-state ignitors are encased and potted (HPS). High power factor, constant-wattage autotransformer. 180°C Class H insulation system. Meets ANSI C82 ballast standards. UL listed.

Optics – Injection-molded, virgin acrylic reflector with clear, flat acrylic lens enclosure. UV stabilized reflector. Hinge & lens

retainer latches facilitate tool-less removal for maintenance and cleaning. Totally enclosed, gasketed refractor & reflector inhibit entrance of contaminants. Meets UL lamp rupture containment specifications. Coated lamps provide optimum performance.


Installation: Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available. **For areas where reflectors are subject to impact (gymnasiums, etc.), use FWG option. Not recommended for use in oily environments. Consult factory.**

Socket – Glazed porcelain, vertically oriented mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings – UL Listed to U.S. and Canadian safety standards. NOM Certified. UL listed for damp locations. -30°C to 55°C ambient operations. UL wet location available.

Ordering Information

Series	Wattage	Optical
High Pressure Sodium		
TXR	250S	PA25ALE
	400S	PA25ALE
Metal Halide		
TXR	200M	PA25ALE
	250M	PA25ALE
	300M	PA25ALE
	320M	PA25ALE
	350M	PA25ALE
	400M	PA25ALE
	450M	PA25ALE

Voltage	Options/Accessories
120	See pages 388-399. For ordering and packaging options, see page 400.
208 ^{1,2}	
240 ^{1,2,3}	
277	
347	
480 ^{1,2}	
TB ⁴	
TBV ⁵	

Example: TXR 400M PA25ALE TB

Due to recent technological enhancements, metal halide lamps and ballasts now provide optimum performance and energy savings. See Lamps & Ballasts, page 587.

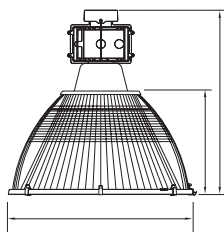
Lamp/fixture data				
Wattage	Ballast	Weight		S/Mtg.
		Lbs.	Kg.	Height
High Pressure Sodium (Mog/Clear)				
250	(PA25ALE) CWA	39	18	1.1
400	(PA25ALE) CWA	39	18	1.1
Metal Halide (Mog/Clear)				
250	(PA25ALE) CWA	35	16	1.2
400	(PA25ALE) CWA	35	16	1.2

Ambient Parameters	-30° to 25°C	-30° to 40°C	-30° to 55°C
	(-22° to 77°F)	(-22° to 104°F)	(-22° to 131°F)
TXR 250S, 250M PA25ALE			■
TXR 400S, 400M PA25ALE			■
TXR 450M PA25ALE		■	

■ = COMPATABILITY

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.

TXR PA25ALE
Overall height: 26-3/8 (66.9)
Reflector height: 15-3/8 (38)
Diameter: 25-3/4 (65.4)



NOTES:

- 1 Requires CWI option in Canada for MH, available for 175-450W only. N/A for 250W in 480V.
- 2 Requires MRB or CWI option in Canada for HPS, available for 70-400W only.
- 3 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- 4 Optional multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada.)
- 5 Optional five-tap ballast (120, 208, 240, 277, 480V). Available for 250, 400 and 1000 MH (CWA only).

HID lamps are available with luminaires. Consult factory. **Metal halide luminaires will operate comparable-wattage mercury vapor lamps.**

TXR

Acrylume™

Intended Use

For controlled environments that require a balance between high vertical and horizontal illumination. Ideal for retail areas, light manufacturing areas and aisles. **Consult factory for Environmental Compatibility chart.**

Features

Housing: Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sunked to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solid-state ignitors are encased and potted (HPS). High power factor, constant-wattage autotransformer. 180°C Class H insulation system. Meets ANSI C82 ballast standards. UL listed.

Optics – Injection-molded, virgin acrylic reflector and drop (PA25D) or conical

(PA22C) lens. UV stabilized. Hinge and lens retainer latches facilitate tool-less removal for maintenance and cleaning. Totally enclosed, gasketed refractor and reflector inhibit the entrance of ambient contaminants. Meets UL lamp rupture containment specifications. Coated lamps provide optimum performance.


Installation: Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available. **For areas where reflectors are subject to impact (gymnasiums, etc.), use FWG option. Not recommended for oily environments. Consult factory.**

Socket – Glazed porcelain, vertically oriented mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings – UL Listed to U.S. and Canadian safety standards. NOM Certified. UL listed for damp locations. -30°C to 40°C ambient operations. UL wet location available.



Ordering Information

Series	Wattage	Optical	Voltage	Options/Accessories
<u>High Pressure Sodium</u>				
TXR	250S	PA22C	120	See pages 388-399. For ordering and packaging options, see page 400.
	250S	PA25D	208 ^{1,2}	
	400S	PA22C	240 ^{1,2,3}	
	400S	PA22C	277	
	400S	PA25D	347	
<u>Metal Halide</u>				
TXR	175M	PA22C	480 ^{1,2}	
	175M	PA25D	TB ⁴	
	200M	PA22C	TBV ⁵	
	200M	PA25D		
	250M	PA22C		
	250M	PA25D		
	300M	PA22C		
	300M	PA25D		
	320M	PA22C		
	320M	PA25D		
	350M	PA22C		
	350M	PA25D		
	400M	PA22C		
	400M	PA25D		
450M	PA22C			
450M	PA25D			

NOTES:

- Requires CWI option in Canada for MH, available for 175-450W only. N/A for 250W in 480V.
- Requires MRB or CWI option in Canada for HPS, available for 70-400W only.
- 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- Optional multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada.)
- Optional five-tap ballast (120, 208, 240, 277, 480V). Available for 250, 400 and 1000 MH (CWA only).

HID lamps are available with luminaires. Consult factory. **Metal halide luminaires will operate comparable-wattage mercury vapor lamps.**

Ambient Parameters	-30° to 25°C (-22° to 77°F)	-30° to 40°C (-22° to 104°F)	-30° to 55°C (-22° to 131°F)
TXR 250S, 250M PA22C		■	
TXR 250S, 250M PA25D		■	
TXR 400S, 400M PA22C		■	
TXR 400S, 400M PA25D		■	

■ = COMPATABILITY

Example: TXR 400M PA22C TB

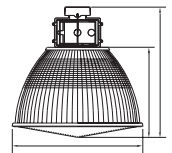
Due to recent technological enhancements, metal halide lamps and ballasts now provide optimum performance and energy savings. See Lamps & Ballasts, page 587.

Lamp/fixture data				
Wattage	Ballast	Weight Lbs.	Kg.	S/Mtg. Height
<u>High Pressure Sodium (Mog/Coated)</u>				
250 (PA22C)	CWA	31	14	2.7
250 (PA25D)	CWA	34	15	2.4
400 (PA22C)	CWA	31	14	2.7
400 (PA25D)	CWA	34	15	2.4
<u>Metal Halide (Mog/Coated)</u>				
250 (PA22C)	CWA	31	14	3.0
250 (PA25D)	CWA	31	13	2.8
350 (PA22C)	CWA	31	14	2.8
350 (PA25D)	CWA	31	13	2.5
400 (PA22C)	CWA	31	14	2.8
400 (PA25D)	CWA	30	13	2.8

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

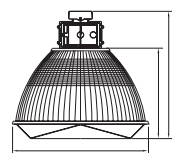
TXR PA22C

Overall height: 22-3/4 (57.8)
Refractor height: 15-3/4 (40)
Diameter: 22-3/8 (56.8)



TXR PA25D

Overall height: 22-1/8 (56.2)
Refractor height: 17-1/8 (43.5)
Diameter: 25-1/2 (64.8)



TXF

Acrylume™ and Hi-Tek®



Premium Enclosed NSF Certified Optical

Intended Use

For general area illumination of food processing and hose-down areas requiring high efficiencies, horizontal illumination, premium glare control, ease of cleanability, compliance to FDA/USDA requirements and/or NSF splash-zone certification. **Consult factory for Environmental Compatibility chart.**

Features

Housing – Fully gasketed, heavy-duty, die-cast copper free (<0.4%) aluminum ballast housing. Finish meets FDA CFR 21 175.300 for resinous and polymeric coatings. Electrostatically applied white polyester powder paint. Electrical components heat-sinked and horizontally opposed. External hardware is stainless steel or corrosion-resistant with no exposed threads.

Ballast – Copper wound and 100% factory tested. CWA (constant wattage autotransformer) is standard. Meets ANSI C82 ballast standards for M57 lamps. UL listed.

Optics – PA25ALEF: Enclosed and gasketed, injection-molded, UV stabilized, virgin acrylic reflector and flat lens. A30F: anodized aluminum and UV-stabilized virgin acrylic lens. Gasketed reflector and lens inhibit entrance of contaminants. Both meet UL lamp rupture containment specifications.

Installation – Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings – UL Listed to U.S. and Canadian safety standards. NOM Certified. UL listed for -30°C to 55° C ambient operation and wet locations. NSF International certified splash-zone and meets FDA/USDA guidelines. **A30F is IP65 rated against ingress of water and contaminants and is suitable for high-pressure hose-downs up to 1200 psi.**

Ordering Information

Series	Wattage	Optical
High Pressure Sodium		
TXF	250S	PA25ALEF
	400S	PA25ALEF
	250S	A30F
	400S	A30F
Metal Halide		
TXF	175M	PA25ALEF
	200M	PA25ALEF
	250M	PA25ALEF
	300M	PA25ALEF
	320M	PA25ALEF
	350M	PA25ALEF
	400M	PA25ALEF
	450M	PA25ALEF
	175M	A30F
	200M	A30F
	250M	A30F
	300M	A30F
	320M	A30F
	350M	A30F
	400M	A30F
450M	A30F	

Voltage
120
208 ^{1,2}
240 ^{1,2,4}
277
347
480 ²
TB ³
TBV ⁵

Options/Accessories
See pages 388-399.

For ordering and packaging options, see page 400.



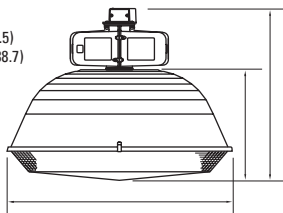
Example: TXF 400M A30F TB

Due to recent technological enhancements, metal halide lamps and ballasts now provide optimum performance and energy savings. See Lamps & Ballasts, page 587.

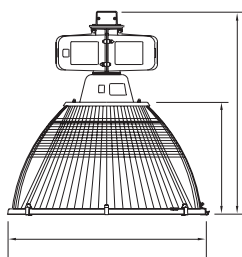
Lamp/Fixture data				
Wattage	Ballast	Weight Lbs.	Kg.	S/Mtg. Height
TXFP A25ALEF				
High Pressure Sodium (Mog/Clear)				
250	CWA	39	18	1.1
400	CWA	39	18	1.1
Metal Halide (Mog/Clear)				
250	CWA	35	16	1.2
400	CWA	35	16	1.2
TXF A30F				
High Pressure Sodium (Mog/Clear)				
250	CWA	26	12	2.0
400	CWA	31	14	2.0
Metal Halide (Mog/Clear)				
250	CWA	26	12	2.1
400	CWA	28	13	2.1

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

TXFA30F
Overall height: 22-1/4 (56.5)
Reflector height: 15-1/4 (38.7)
Diameter: 30-3/4 (78.1)



TXFPA25ALEF
Overall height: 26-3/8 (66.9)
Reflector height: 15-3/8 (38)
Diameter: 25-3/4 (65.4)



NOTES:

- Requires CWI or RLB option in Canada for MH. Available for 175-450W only.
- Requires MRB or CWI option in Canada for HPS, available for 70-400W only.
- Optional multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada.)
- 220V and 240V 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- Optional five-tap ballast (120, 208, 240, 277, 480V). Available for 250, 400 and 1000 MH (CWA only).

HID lamps are available with luminaires. Consult factory. **Metal halide luminaires will operate comparable-wattage mercury vapor lamps.**

Enclosed Prismatic Acrylic Optical

Low Bay

TXV
Hi-Tek®

Intended Use

For areas that require high vertical illumination and wide spacings. Ideal for aisles, service areas and parking garages. **Consult factory for Environmental Compatibility chart.**

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sunked to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solid-state ignitors are encased and potted (HPS and 100MH). High power factor, constant-wattage autotransformer. 180°C Class H insulation system. UL listed.

Optics – 12" Diameter: Anodized aluminum reflector with one-piece injection-molded acrylic refractor and bottom enclosure.

16" Diameter: High efficiency, optical-quality, white polyester powder finish with one-piece injection-molded acrylic refractor and bottom enclosure. Polycarbonate lens available. Consult factory.

Installation – Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings – UL Listed to U.S. and Canadian safety standards. NOM Certified. UL listed for damp locations and -30°C to 40°C ambient operation. 55°C available. UL wet location available, closed bottom only.



Example: TXV 150S A125 TB

Ordering Information

Series	Wattage	Optical ¹ (Select one)		Voltage	Options/Accessories
12" Diameter					
High Pressure Sodium		Type V	Type I	120 208 ^{3,4} 240 ^{3,4,5} 277 347 480 ^{3,4} TB ⁶ TBV ⁷	See pages 388-399.
TXV	70S 100S 150S 200S ² 250S ²	A125 A125 A125 A125OB A125OB	A121 A121 A121 A121OB A121OB		For ordering and packaging options, see page 400.
Metal Halide					
TXV	100M	A125	A121		
16" Diameter					
High Pressure Sodium		Type V	Type II		
TXV	200S 250S 400S ²	A165 A165 A165OB	A162 A162 A162OB		
Metal Halide					
TXV	100M 150M 175M 200M 250M 300MP ² 320MP ² 350MP ² 400M ² 400MP ² 450M ²	A165 A165 A165 A165 A165 A165OB A165OB A165OB A165OB A165OB A165OB	A162 A162 A162 A162 A162 A162OB A162OB A162OB A162OB A162OB A162OB		



NOTES:

- For polycarbonate lens, change A in nomenclature to P. Example: P125. All except open-bottom fixtures meet UL lamp rupture containment specifications.
- Open bottom only.
- Requires CWI option in Canada for MH, available for 175-400W only. N/A for 250W in 480V.
- Requires MRB or CWI option in Canada for HPS, available for 70-400W only.
- 220V and 240V 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- Optional multi-tap ballast (120, 208, 240, 277V). (120, 277, 347V in Canada.)
- Optional five-tap ballast (120, 208, 240, 277, 480V). Available for 250, 400 and 1000 MH (CWA only).

HID lamps are available with luminaires. Consult factory. **Metal halide luminaires will operate comparable-wattage mercury vapor lamps.**

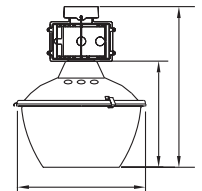
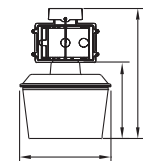
Due to recent technological enhancements, metal halide lamps and ballasts now provide optimum performance and energy savings. See Lamps & Ballasts, page 587.

Lamp/Fixture Data				
Wattage	Ballast	Weight		S/Mtg. Height
		Lbs.	Kg.	
12" Diameter Type V				
High Pressure Sodium (Mog/Clear)				
70	HX-HPF	15	7	1.8
100	HX-HPF	17	8	1.8
150	HX-HPF	17	8	1.8
200	CWA	20	9	2.7
250	CWA	23	10	2.6
Metal Halide (Med/Clear)				
100	CWA	15	7	1.8
16" Diameter Type V				
High Pressure Sodium (Mog/Clear)				
200	CWA	22	10	1.9
250	CWA	25	11	2.6
400	CWA	36	16	1.8
Metal Halide (Med (100) Mog/Clear)				
100	CWA	20	10	1.3
175	CWA	21	10	1.3
250	CWA	23	10	1.3
400	CWA	30	14	1.8

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.

TXVA125/A121
Overall height: 17 (43.2)
Reflector height: 10 (25.4)
Diameter: 12-1/4 (31.1)

TXVA165/A162
Overall height: 19-5/8 (49.8)
Reflector height: 13-5/8 (34.6)
Diameter: 16-3/4 (42.6)



TXL TXP

Hi-Tek®

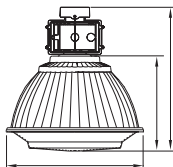


Ordering Information

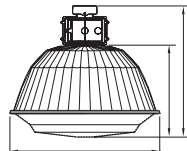
Series	Wattage	Optical
<u>High Pressure Sodium</u>		
TXL	50S	A20
	70S	A20
	100S	A20
	150S	A20
	200S	A20
TXP	250S	A20
	250S	A26
	400S	A26
<u>Metal Halide</u>		
TXL	100M	A20
	150M	A20
	175M	A20
	200M	A20
	250M	A20
	TXP	200M
250M		A26
300M		A26
320M		A26
350M		A26
400M		A26
450M		A26

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.

TXLA20
Overall height: 21-3/8 (54.3)
Reflector height: 14-1/2 (36.2)
Diameter: 20-3/4 (52.7)



TXPA26
Overall height: 24-3/8 (61.9)
Reflector height: 17-1/16 (43.3)
Diameter: 27-1/2 (69.9)



Premium Enclosed Aluminum Optical

Intended Use

For areas that require good vertical illumination with excellent glare control at low mounting heights. Ideal for general open areas, retail spaces, aisles and manufacturing areas. **Consult factory for Environmental Compatibility chart.**

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sunk to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solid-state ignitors are encased and potted (HPS and 100MH). High power factor, constant-wattage autotransformer. 180°C Class H insulation system. UL listed.

Optics – Injection-molded virgin acrylic lens, fully fluted anodized aluminum reflector. Hinge and lens retainer latches

facilitate tool-less removal for maintenance and cleaning. Totally enclosed, gasketed refractor and reflector inhibit the entrance of ambient contaminants. Meets UL lamp rupture containment specifications. All distribution patterns are widespread.

Installation – Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse-rated.

Listings – UL Listed to U.S. and Canadian safety standards. NOM Certified. UL listed -30°C to 40°C ambient operation and damp locations. 55°C operation available. UL wet location available.

Example: TXP 400M A26 TB

Due to recent technological enhancements, metal halide lamps and ballasts now provide optimum performance and energy savings. See Lamps & Ballasts, page 587.

Options/Accessories
See pages 388-399.

For ordering and packaging options, see page 400.



Lamp/Fixture data				
TXL A20				
<u>High Pressure Sodium (Mog/Clear)</u>				
50 (A20)	HX-HPF	11	5	1.9
70 (A20)	HX-HPF	12	5	1.8
100 (A20)	HX-HPF	14	6	1.9
150 (A20)	HX-HPF	15	7	1.9
200 (A20)	CWA	17	8	1.9
250 (A20)	CWA	21	9	1.7
<u>Metal Halide (Med (100) Mog/Clear)</u>				
100 (A20)	CWA	16	7	1.8
175 (A20)	CWA	17	8	1.8
250 (A20)	CWA	20	9	1.7
TXL A26				
<u>High Pressure Sodium (Mog/Clear)</u>				
250 (A26)	CWA	29	13	2.0
400 (A26)	CWA	37	17	2.0
<u>Metal Halide (Mog/Clear)</u>				
250 (A26)	CWA	25	11	2.2
400 (A26)	CWA	32	15	2.2

NOTES:

- 1 Requires CWI or RLB option in Canada for MH. Available for 175-450W only.
- 2 Requires MRB or CWI option in Canada for HPS, available for 70-400W only.
- 3 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- 4 Optional multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada.)
- 5 Optional five-tap ballast (120, 208, 240, 277, 480V). Available for 250, 400 and 1000 MH (CWA only).

Polycarbonate lens: Replace **A** in optical nomenclature with **P** for polycarbonate lens.

HID lamps are available with luminaires. Consult factory. **Metal halide luminaires will operate comparable-wattage mercury vapor lamps.**

Premium Enclosed Aluminum Optical

Low Bay

TXS
Hi-Tek®

Intended Use

For areas that require high efficiencies, high horizontal and vertical illumination and good glare control at low mounting heights. Ideal for general open areas, retail spaces, aisles and manufacturing areas. **Consult factory for Environmental Compatibility chart.**

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sunk to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solid-state ignitors are encased and potted (HPS and 100MH). High power factor. Constant-wattage autotransformer. 180°C Class H insulation system. UL listed.

Optics – Injection-molded virgin acrylic lens, fully fluted aluminum reflec-

tor; exclusive spun-fluted anodized reflector. Hinge and lens retainer latches facilitate removal for maintenance and cleaning. Totally enclosed, gasketed refractor and reflector inhibit the entrance of ambient contaminants. Meets UL lamp rupture containment specifications. All distribution patterns are widespread.

Installation – Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse-rated.

Listings – UL Listed. CSA Certified. NOM Certified. UL listed -30°C to 40°C ambient operation and damp locations. 55°C operation available. UL wet location available.



A30

Example: TXS 400M A30 TB

Ordering Information

Series	Wattage	Optical	Voltage	Options/Accessories
<u>High Pressure Sodium</u>				
TXS	250S	A30	120	See pages 388-399.
	400S	A30	208 ^{1,2}	
<u>Metal Halide</u>				
TXS	175M	A30	240 ^{1,2,3}	For ordering and packaging options, see page 400.
	200M	A30	277	
	250M	A30	347	
	300M	A30	480 ²	
	320M	A30	TB ⁴	
	350M	A30	TBV ⁵	
	400M	A30		
450M	A30			

Pulse Start H.I.D. Ballast/Lamp Systems

Due to recent technological enhancements, metal halide lamps and ballasts now provide optimum performance and energy savings. See Lamps & Ballasts, page 587.

Lamp/Fixture data				
Wattage	Ballast	Weight		S/Mtg. Height
		Lbs.	Kg.	
<u>High Pressure Sodium (Mog/Clear)</u>				
250	CWA	26	12	2.0
400	CWA	31	14	2.0
<u>Metal Halide (Mog/Clear)</u>				
250	CWA	26	12	2.1
400	CWA	28	13	2.1

NOTES:

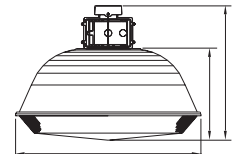
- Requires CWI or RLB option in Canada for MH. Available for 175-450W only.
- Requires MRB or CWI option in Canada for HPS, available for 70-400W only.
- 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- Optional multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada.)
- Optional five-tap ballast (120, 208, 240, 277, 480V). Available for 250, 400 and 1000 MH (CWA only).

Polycarbonate lens: Replace **A** in optical nomenclature with **P** for polycarbonate lens.

HID lamps are available with luminaires. Consult factory. **Metal halide luminaires will operate comparable-wattage mercury vapor lamps..**

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

TXS A30
Overall height: 22-1/4 (56.5)
Reflector height: 15-1/4 (38.7)
Diameter: 30-3/4 (78.1)



TXC

Hi-Tek®



A23

Enclosed Aluminum Optical

Intended Use

For areas that require vertical illumination and glare control at low mounting heights. Ideal for general open areas, retail spaces and aisles. **Consult factory for Environmental Compatibility chart.**

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sunk to ballast housing for cooler operation.

Ballast – Copper wound and 100% factory tested. Solid-state ignitors are encased and potted (HPS). High power factor, constant-wattage autotransformer. 180°C Class H insulation system. Meets ANSI C82 ballast standards. UL listed.

Optics – Injection-molded, virgin acrylic lens and highly reflective, white polyester powder painted reflector. UV stabilized. Hinge and lens retainer latches facilitate tool-less removal for maintenance and cleaning. Inhibits entrance of outside contaminants. Meets UL lamp rupture containment specifications.

Installation – Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically oriented socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings – UL Listed to U.S. and Canadian safety standards. NOM Certified. UL listed for damp locations. -30°C to 40°C ambient operations. 55°C available. UL wet location available.

Ordering Information

Series	Wattage	Optical
High Pressure Sodium		
TXC	250S ¹	A23
	400S ¹	A23
Metal Halide		
TXC	175M	A23
	200M	A23
	250M ¹	A23
	300M	A23
	320M	A23
	350M	A23
	400M ¹	A23
	450M	A23

Voltage	Options/Accessories
120	See pages 388-399.
208 ^{2,3}	
240 ^{2,3,4}	
277	
347	
480 ^{2,3}	
TB ⁵	
TBV ⁶	

For ordering and packaging options, see page 400.



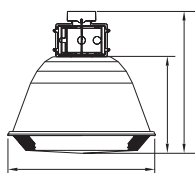
Example: TXC 400M A23 TB

Due to recent technological enhancements, metal halide lamps and ballasts now provide optimum performance and energy savings. See Lamps & Ballasts, page 587.

Lamp/Fixture Data				
Wattage	Ballast	Weight Lbs.	Kg.	S/Mtg. Height
High Pressure Sodium (Mog/Clear)				
250	CWA	23	10	1.6
400	CWA	29	13	1.6
Metal Halide (Mog/Clear)				
250	CWA	21	10	1.7
400	CWA	25	11	1.7

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.

TXC A23
 Overall height: 22-1/4 (56.5)
 Reflector height: 15-1/4 (38.7)
 Diameter: 23 (58.4)



TXD¹

NOTES:

- TXD consists of TX housing and A23 optical assembly shipped in one carton. Available with tapped ballast or 480V only. To order, change TXC designation to TXD. Available only in wattages indicated.
- Requires CWI or RLB option in Canada for MH. Available for 175-450W only.
- Requires MRB or CWI option in Canada for HPS, available for 70-400W only.
- 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- Optional multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada.)
- Optional five-tap ballast (120, 208, 240, 277, 480V). Available for 250, 400 and 1000 MH (CWA only).

Polycarbonate lens: Replace **A** in optical nomenclature with **P** for polycarbonate lens.

HID lamps are available with luminaires. Consult factory. **Metal halide luminaires will operate comparable-wattage mercury vapor lamps.**

SX A23

Intended Use

For areas that require vertical illumination and glare control at low mounting heights. Ideal for general open areas, retail spaces and aisles. Steel ballast housing should be used in areas with minimal airborne contaminants. **Consult factory for Environmental Compatibility chart.**

Features

Housing – Steel housing with white polyester powder coat finish. All electrical components are positioned to assure unit will hang straight. Housing is ventilated for optimal thermal performance.

Ballast – Electronic ballast is 100% factory tested and UL Listed. Ballast will operate pulse start lamps only from 200-277V.

Optics – Injection-molded, virgin acrylic lens and highly reflective, white poly-

ester powder painted reflector. UV stabilized. Hinge and lens retainer latches facilitate tool-less removal for maintenance and cleaning. Inhibits entrance of outside contaminants. Meets UL lamp rupture containment specifications.

Installation – One-piece galvanized hook and spring steel latch with cord and plug is standard. Optional pendant splice box (PSB) threaded for 3/4" conduit also available with mounting options.

Socket – Glazed porcelain, vertically oriented socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings – UL Listed to U.S. and Canadian safety standards. NOM Certified. UL listed for damp locations. -30°C to 40°C ambient operations for 400W metal halide.

NEW



Ordering Information

Series	Wattage	Optical	Voltage	Options/Accessories
Metal Halide				
SX	320M 350M 400M	A23 A23 A23	208 240 277 MVOLT ¹	See pages 388-399. For ordering and packaging options, see page 400.

Pulse Start H.I.D. Ballast/Lamp Systems

Example: SX 400M A23 MVOLT GEB

Due to recent technological enhancements, metal halide lamps and ballasts now provide optimum performance and energy savings. See Lamps & Ballasts, page 587.

Lamp/Fixture Data				
Wattage	Ballast	Weight Lbs.	Kg.	S/Mtg. Height
Metal Halide (Mog/Clear)				
400	GEB	12	5.5	1.7

NOTES:

1 Multi-volt electronic ballast capable of operating on any line voltage between 200V and 277V at 50 or 60 Hz (available with GEB option only).

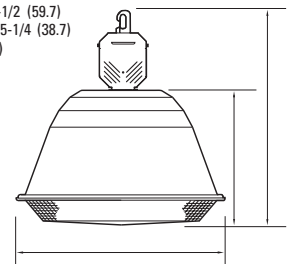
Polycarbonate lens: Replace **A** in optical nomenclature with **P** for polycarbonate lens.

HID lamps are available with luminaires. Consult factory.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

SXA23

Overall height: 23-1/2 (59.7)
Reflector height: 15-1/4 (38.7)
Diameter: 23 (58.4)



TGL TGR



Enclosed Prismatic Acrylic Optical

Intended Use

For areas that require optimum vertical illumination with glare control at low mounting heights. Ideal for parking garages, greenhouses, garden centers and low-profile industrial aisles. **Consult factory for Environmental Compatibility chart.**

Features

Housing – Rugged, heavy, die-cast aluminum housing. Standard finish is natural aluminum polyester powder finish.

Ballast – Copper wound and 100% factory tested. Solid-state ignitors are encased and potted (HPS and 100MH). High-reactance, high power factor or constant-wattage autotransformer. 180°C Class H insulation system. UL 1029 listed.

Induction Power Coupler – Induction coil that transfers energy from the generator to the lamp.

Optics – One-piece, injection-molded, 100%

virgin acrylic refractor. TGL Type V (A165), Type II (A162), TGR Type V (A125), and Type 1 (A121) distributions are available. Polycarbonate refractor available.

Installation – Quick-mount attachment plate mounts to 4" square or octagonal J-box. Plate is hinged to fixture housing during installation. Fixture is then twist-locked into place and secured in a tamper-proof installation. **Factory-installed pendant-mount option (PM) available.**

Socket – Glazed porcelain, vertically oriented mogul-base socket with copper alloy, nickel-plated screw shell and center contact. Medium-base (100M only): UL listed 660W, 600V, 4KV pulse rated.

Listings – TGL: UL Listed to U.S. and Canadian safety standards. NOM Certified. TGR: UL Listed and CSA Certified. NOM Certified. UL listed for damp locations. -30°C to 40°C ambient rated 250W metal halide. UL wet location available.

Ordering Information

Series	Wattage	Optical	
High Pressure Sodium			
TGL	70S	A165	A162
	100S	A165	A162
	150S	A165	A162
	200S	A165	A162
Metal Halide			
TGL	100M	A165	A162
	175M	A165	A162
	200M	A165	A162
	250M ⁵	A165	A162
Induction			
TGL	85IL	A165	A162
	55IL	A165	A162
High Pressure Sodium			
TGR	70S	A125	A121
	100S	A125	A121
	150S	A125	A121
	200S	A125	A121
Metal Halide			
TGR	100M ¹	A125	A121
	175M	A125	A121
	200M	A165	A121

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.

Voltage	Options/Accessories
120	See pages 388-399. For ordering and packaging options, see page 400.
208 ^{1,2}	
240 ^{2,3}	
277	
347	
480 ²	
TB ⁴	



NOTES:

- Requires CWI option in Canada. Only available in 250M.
- Requires MRB or CWI option in Canada for HPS, available for 70-150W.
- 220 and 240V, 50 and 60 hertz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- Optional multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada.)
- Not available with LLRPSL or SCWA.

Polycarbonate lens: Replace **A** in optical nomenclature with **P** for polycarbonate lens.

HID lamps are available with luminaires. Consult factory. Metal halide luminaires will operate comparable-wattage mercury vapor lamps.

Example: TGL 175M A165 TB

Due to recent technological enhancements, metal halide lamps and ballasts now provide optimum performance and energy savings. See Lamps & Ballasts, page 587.

Lamp/fixture data				
Wattage	Ballast	Weight Lbs.	Kg.	S/Mtg. Height
TGL Type V				
High Pressure Sodium (Mog/Clear)				
70	HX-HPF	21	9	2.3
100	HX-HPF	23	10	2.3
150	HX-HPF	23	10	2.3
Metal Halide [Med(100)/Mog(175-250)/Clear]				
100	CWA	20	9	1.2
175	CWA	23	10	1.7
250	CWA	26	12	1.7
TGR Type V				
High Pressure Sodium (Mog/Clear)				
70	HX-HPF	11	5	1.8
100	HX-HPF	13	6	1.7
150	HX-HPF	14	6	1.8
Metal Halide [Med(100)/Mog(175)/Clear]				
100	CWA	13	6	1.7
175	CWA	14	6	1.8

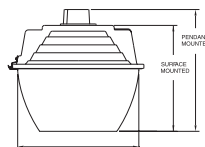
Ambient Parameters	-30° to 25°C (-22° to 77°F)	-30° to 40°C (-22° to 104°F)	-30° to 55°C (-22° to 131°F)
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TGL		■	
TGL 100-175M			■
TGL 250M		■	
TGL 70-150S			■

■ = COMPATABILITY

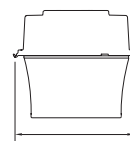
TGL
Overall height: 13-3/8 (34)
Diameter: 16-3/4 (42.5)

TGL (PM)
Overall height: 15-1/2 (39.4)
Diameter: 16-3/4 (42.5)



TGR
Overall height: 11-1/4 (28.6)
Diameter: 12-1/2 (31.8)

TGR PM
Overall height: 13-3/8 (34)
Diameter: 12-1/2 (31.8)



Intended Use

For areas that require low mounting heights. Used in applications including parking garages, stairwells, entrances or aisles.

Features

Housing – Rugged, heavy-duty aluminum housing. Standard finish is dark bronze polyester powder finish.

Ballast – Copper wound and 100% factory tested. Encased-and-potted, solid-state ignitors (HPS and 100MH). High-reactance, high power factor or constant-wattage autotransformer. 180°C Class H insulation system. UL listed.

Optics – One-piece, spun-aluminum, anodized reflector provides widespread distribution. High-impact, shock-resistant, tempered glass lens is fully gasketed to seal out contaminants.

Installation – Quick-mount attachment plate mounts to 4" square or octagonal J-box. Plate is hinged to fixture housing during installation. Fixture is then twist-locked into place and secured in a tamperproof installation. Internal trigger mechanism releases fixture from J-box.

Factory-installed pendant mount option (PSB) available.

Socket – Glazed porcelain, vertically oriented socket with copper alloy, nickel-plated screw shell and center contact. Medium-base: UL listed 660W, 600V, 4KV pulse rated; mogul-base: UL listed 1500W, 600V, 4KV pulse rated.

Listings – UL Listed. CSA Certified. NOM Certified. UL listed for damp locations.



TG

Example: TG 175M E13 TB

Ordering Information

Series	Wattage	Optical	Voltage	Options/Accessories
<i>High Pressure Sodium, wide distribution</i>				
TG	70S	E13	208 ¹	See pages 388-399. For ordering and packaging options, see page 400.
	100S	E13	240 ^{1,2}	
	150S	E13	277	
	200S	E13	347	
<i>Metal Halide</i>			480 ¹	
TG	100M ¹	E13	TB ³	
	175M	E13		
	200M	E13		
	250M	E13		



Due to recent technological enhancements, metal halide lamps and ballasts now provide optimum performance and energy savings. See Lamps & Ballasts, page 587.

Ambient Parameters	-30° to 25°C (-22° to 77°F)	-30° to 40°C (-22° to 104°F)	-30° to 55°C (-22° to 131°F)
TG 175M			■
TG 250M		■	
TG 70-150S			■
TG 200S		■	

■ = COMPATABILITY

NOTES:

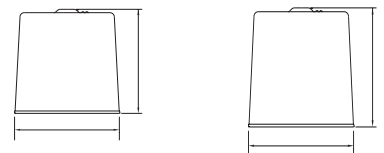
- Not available in Canada.
- 220V and 240V 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- Optional multi-tap ballast (120, 208, 240, 277V). (120, 277, 347V in Canada.)

HID lamps are available with luminaires. Consult factory. **Metal halide luminaires will operate comparable-wattage mercury vapor lamps.**

Lamp/fixture data				
Wattage	Ballast	Weight Lbs. Kg.	S/Mtg. Height	
TG				
<i>High Pressure Sodium (Mog/Clear)</i>				
70	HX-HPF	13 6	1.8	
100	HX-HPF	15 7	2.2	
150	HX-HPF	16 7	2.5	
200	CWA	19 9	1.7	
<i>Metal Halide (Med/Mog(175-250)/Clear)</i>				
100	CWA	15 7	2.2	
175	CWA	17 8	2.2	
250	CWA	19 9	2.2	

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

TG Overall height: 13-5/8 (34.6) Diameter: 13-1/2 (34.3)	TG (PSB) Overall height: 15 (38.1) Diameter: 13-1/2 (34.3)
--	--



DSA FSSA

Intended Use

Ideal for illuminating the interior of tractor trailers during initial inspection, loading or unloading.

Features

DSA – Double-strut arm.

DSA ADJ – Double-strut arm with adjustable knuckle joint.

FSSA ADJ – Folding single-strut arm with adjustable knuckle joint.

Reinforcement brackets provide maximum support to arm and head for long service without sagging or bending. Uses high-impact polycarbonate lamp head or heavy-gauge metal lamp head.

Construction – Arms and struts constructed of heavy-duty 1-1/2" cross-section, 14-gauge steel tubing. Corrosion-resistant hardware. Nuts are locking and exposed threads are plastic capped. Arm and strut ends feature injection-molded end caps. Hinged ends reinforced internally with aluminum inserts. Electrical cord lengths secured via grommets.

Finish – Safety-yellow polyester powder paint is standard on polycarbonate lamp heads, arm, struts and metal lamp head.

Optical System - Polycarbonate lamp head standard. All lamp heads include on/off switch and UL-listed porcelain, medium-base socket with copper alloy screw shell and center contact.

Electrical System: 120V only. HPS models feature reactor type ballasts.

Installation – Arm and strut-mounting bracket included. Arm assembly attached via bracket with one bolt. Lamp head attaches via a single bolt, electrified via a NEMA plug and receptacle assembly. Heavy-duty wall bracket recommended for fan/light combinations.

Listings – UL Listed to U.S. and Canadian safety standards.



Ordering Information

Example: **DSA24 ADJ 150I**

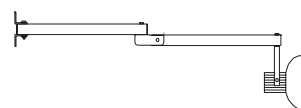
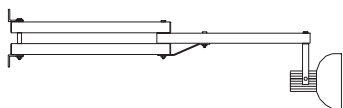
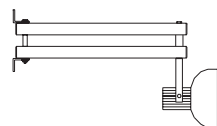
Series	Length	Arm	Lamp	Options
DSA Double-Strut Arm	24 24" length	ADJ Adjustable Arm (Optional for DSA, required for FSSA)	150I 150W incandescent 300I 300W incandescent ¹ 50S 150W incandescent ²	SED Special environment diffuser ³ FAN 3-speed fan ⁴ LPI Lamp included ⁵
	40 40" length			
	60 60" length			
	90 90" length			
	114 114" length			
FSSA Folding Single-Strut Arm	40 40" length			
	60 60" length			

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

DSA
Lamp head height: 7-7/8 to 8-3/4 (20.0 to 22.2)
Arm length: 26 to 95-1/4 (66.0 to 23.5)

DSA ADJ
Lamp head height: 7-7/8 to 8-3/4 (20.0 to 22.2)
Arm length: 40 to 96-1/4 (101.6 to 244.5)

FSSA ADJ
Lamp head height: 7-7/8 to 8-3/4 (20.0 to 22.2)
Arm length: 47-3/4 to 96-1/4 (121.3 to 244.5)



Accessories (Order separately)

- HDWB** Heavy-duty wall bracket
- PLHWG8** Wireguard for polycarbonate lamp head
- MLHWG6** Wireguard for metal lamp head

NOTES:

- 1 Metal lamp head.
- 2 Vacuum metalized polycarbonate lamp head. 90" maximum length.
- 3 Not available for Incandescent.
- 4 Not available on ADJ models. 60" maximum length.
- 5 Standard in 50S models. Not available for Incandescent.

KiloWatch®

Intended Use

Ideal for warehouses, storage areas, parking garages, shipping docks and gymnasiums.

Features

KWTD – Solid-state, digital timing circuit that automatically provides full power to each lamp for 15 minutes, guaranteeing lamp stabilization. This component is used in 120V AC manually switched or 120V AC photocell (KWPC) applications.

KWTXTD – Provides 120V AC power for the control circuit and a solid-state, digital timing lamp stabilization circuit for 208/240/277/347/480V AC manually switched and 208/240/277/347/480V AC photocell systems. Each KWTX TD can power up to 30 fixtures.

KWIR – Passive infrared motion sensor that switches lighting fixture control re-

lays based on occupancy. Sensor detects moving temperature differentials against background radiation. When occupancy is detected, lighting system is switched to full output until no occupancy is detected (one to 15 minutes, field adjustable). Sensor is factory-preset at optimum performance angle (43°) and can be field-adjusted. Sensor is designed for use in indoor applications with 15-foot to 35-foot mounting heights where a long, narrow coverage pattern is desired. The wide angle sensor is designed for use in indoor applications with 7' to 8' mounting heights where a short, wide coverage pattern is desired.

Consult factory when using Reloc® with KiloWatch®.

Drawings are for dimensional detail only and may not represent actual mechanical configuration.



Manual Control

shipped separately

System for 120V AC (one component)

KWTD Time Delay Control, manually switched. Keeps fixtures in high mode for 15 minutes.¹

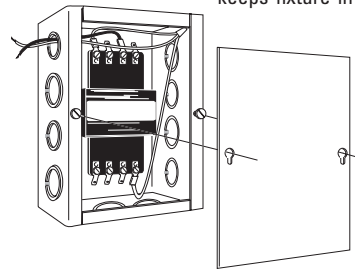
Add **KW1** or **KW150** to fixture description.



System for 208/240/277/347/480V AC (one component)

KWTXTD Control Voltage Transformer with Time Delay, manually-switched. Steps voltage down to 120V.¹ keeps fixture in high mode for 15 minutes.

Add **KW1** or **KW150** to fixture description.



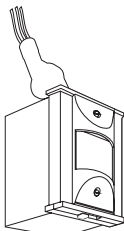
Motion Sensor Control

shipped separately

System for 120/277V AC (one component)

KWIR Motion Sensor¹
KWIR LT Motion Sensor, Low Temperature (-30°)¹
KWIR WA Motion Sensor, Wide Angle

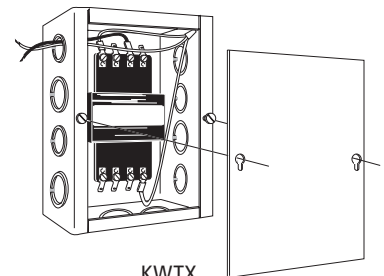
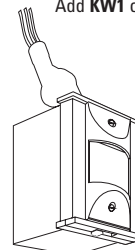
Add **KW1** or **KW150** to fixture description — 120V control.
 Add **KW4** or **KW450** to fixture description — 277V control.



System for 208/240/347/480V AC (two components)

KWIR Motion Sensor¹
KWIR LT Motion Sensor, Low Temperature (-30°)¹
KWIR WA Motion Sensor, Wide Angle
KWTX Control Voltage Transformer

Add **KW1** or **KW150** to fixture description.



NOTE:
¹ Switches and wall boxes by others.

KiloWatch®



Multi-Level Lighting

Features

KWTX – Control voltage transformer provides 120V AC power for the control circuit for 208/240/347/480V AC sensor applications. Each KWTX can power up to 30 fixtures.

KWPC – KWPC photo-diode sensors are specifically for use with the KiloWatch control system. Sensors designed to switch luminaires to low output based on predetermined ambient illumination levels.

KiloWatch only available in CWA/SCWA ballast configurations.

KiloWatch Option Designations:

KW1 – Indicates luminaire will be supplied with 120V AC control components. For use with all manually switched* and photocell systems (120/208/240/277/347/480V). AC

sensor controlled systems (120/208/240/347/480V). Reduces wattage by 50%.

KW150 – Indicates luminaire will be supplied with 120V AC control components. For use with all manually switched* and photocell systems (120/208/240/277/347/480V). AC sensor controlled systems (120/208/240/347/480V). Reduces light output by 50%.

KW4 – Indicates luminaire will be supplied with 277V AC control components. For use with 277V AC sensor-controlled systems. Reduces wattage by 50%.

KW450 – Indicates luminaire will be supplied with 277V AC control components. For use with 277V AC sensor-controlled systems. Reduces light output by 50%.

* Switches and wallboxes by others.

Fixture/Ordering Compatibility

Series	Wattage/lamp	Optical	Voltage	Options	Accessories
TE		E17 PA16	120	SF TR	DCY LPM
THC	150S	E22 PA22	208	DF TRC3P	DXH LPMG
THS	250S	A15 PA22C	240	QRS LCKPP	DSQ PPHKR
THP	400S	A16 PA22SP	277	QRSTD LC3KP	FWG TPHKR
THR	1000S	A17 PA25ALE	347	EC HC3KP	GFWG SCK
THV	175M	A22 PA25D	480	OB HOCU ¹	HC3KP SCK48
TPG	175MP	A14 PA22GLE		GL LOC ¹	HKF SCK108
TPGE	200M	A15 PA22N		TOB CF	HKM SMB18
TXS	200MP	A26 PG16		T73 KW1 ²	HKMG SMB24
TXP	250M	A30 PG16A		CR KW150 ³	LC3KP TMB30
TXC	250MP	A23 PG16GLE		CRT KW4 ⁴	LGG TMB48
TXL	300M	A20 PG16AGLE		TEF KW450 ⁵	LPF WG
TXR	300MP	A30F PG21			WGG
TXV	320M	A125 PG21A			
TXF	320MP	A165 PG21GLE			
TXS	350M	PG21AGLE			
TGL	350MP				
TGR	400M				
SH	400MP				
SX	450M				
SPG	450MP				
	1000M				
	100MP				

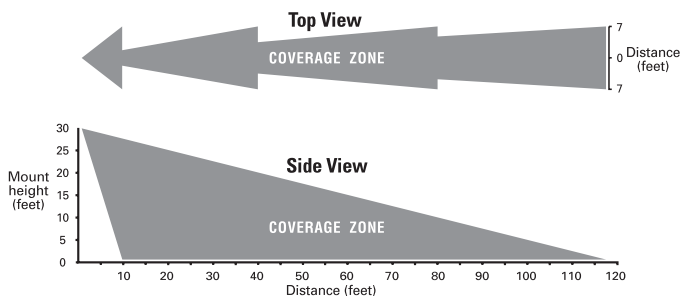
Drawings are for dimensional detail only and may not represent actual mechanical configuration.

NOTES:

- 1 Consult factory when using Reloc™ with KiloWatch™
- 2 120V control relay, 50% wattage.
- 3 120V control relay, 50% light output.
- 4 277V control relay for 277V sensor applications only, 50% wattage.
- 5 277V control relay for 277V sensor applications only, 50% light output.

KWIR Motion Detector Coverage
The sensor coverage shown is under ideal conditions. Consult specification sheets for specific information.

The KWIR- WA mounted at 8 feet has coverage zone of 120 degrees and distance at 40 feet.

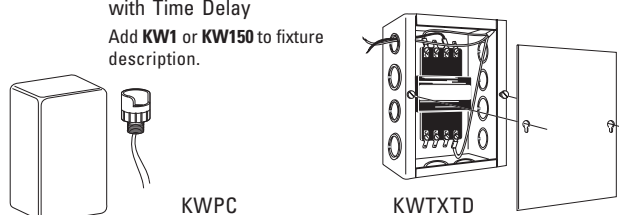


Photocell Control shipped separately

System for 120 AC (two components)
KWPC Photocell
KWTD Time Delay Control
Add **KW1** or **KW150** to fixture description.



System for 208/240/277/347/480V AC (two components)
KWPC Photocell
KWXTD Control Voltage Transformer with Time Delay
Add **KW1** or **KW150** to fixture description.



Bi-Level Lighting with Integral Sensor System

HID Control System

KiloWatch® II

Intended Use

The KiloWatch® II Integral Sensor System is designed for maximum control. Each unit contains an integral sensor that mounts directly to the reflector. Application opportunities include warehouses or select storage areas within manufacturing facilities.

Features

SYSTEM

- Solid state relay
- Dual level or 2 separate capacitors
- SCWA or CWA ballast only
- Passive infrared sensor with Fresnel Lens
- Adjustable time delay .5 to 20 minutes
- 15 minute start up timer.
- Green LED Activity Indicator

SENSOR

- Up to 45-foot mounting height
- Mounts to reflector via adjustable bracket

- 360° coverage within the luminaire's lighting distribution
- Size: circular, 3.9" dia., 1.34" deep
- Color: white
- Relative humidity: 20% to 90% non-condensing
- Operating temperature: 14°F to 131°F, (-10°C to 55°C)
- LT option operating temperature: -40°F to 131°F, (-40°C to 55°C)

Listings - UL Listed to U.S. and Canadian safety standards.

KiloWatch Option Designations:

KW1S – Luminaire supplied with 120V AC control components. AC sensor controlled systems (120/208/240/347/480V). Reduces wattage by 50%.

KW150S – Luminaire supplied with 120V AC control components. AC sensor controlled systems (120/208/240/347/480V). Reduces light output by 50%.

NEW



Fixture/Ordering Compatability

Series	Wattage/lamp		Optical		Voltage	Options		Accessories	
TE	150S	320MP	E17	A125	120	KW1S ¹	CRT	DCY	LPM
THC	250S	350M	E22	A165	208	KW150S ²	TEF	DHX	LPMG
THS	400S	350MP	A15	PA16	240	KW1S LT ¹	TR	DSQ	PPH
THP	1000S	400M	A16	PA22	277	KW150 LT ²	SCWA	FWG	TPH
THR	100MP	400MP	A17	PA22C	347	SF	RC3NP	GFWG	SCK
THV	175MP	450M	A22	PA22SP	480	DF	LCPP	HC3P	SCK48
TXS	175M	450MP	A14	PA25ALE		QRS	LC3P	HKF	SCK108
TXP	200M	1000M	A26	PA25D		QRSTD	HC3P	HKM	SMB18
TXC	200MP	1000MP	A30	PA22GLE		EC	HOCU	HKMG	SMB24
TXL	250M		A23	PA22N		GL	HOCU	LC3P	TMB30
TXR	250MP		A20			TOB	LOCS	LG	TMB48
TXV	300M					T73	LOCU	LPF	WG
TXS	300MP					CR	CF		WGG
SH	320M								
SX									
SPG									

NOTES:
1 50% power.
2 50% lumen.

For option compatibility, See pages 395 and 397.

Sensor Operation

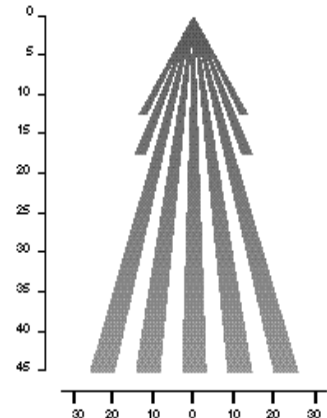
The control is accomplished through an integral passive infrared sensor mounted to the reflector. Upon initial power-up, a timer brings the lamp to full operating temperature for a preset 15-minute period. Once the unit is warmed up, the sensor switches the unit to the low mode, then relies on heat changes caused by body movement or moving equipment within the sensor coverage to switch the unit to full lumen output from a pre-selected level (50% power or 50% lumen).

The high level delay controls the time that the fixture remains in the high mode after motion is no longer sensed. This adjustment is factory set at approximately 75 seconds (minimum), but may be adjusted if required. The available range is 75 seconds to approximately 30 minutes.

Example: THC 400M A15 120 KW1S

Description	
KW1S	KiloWatch integral sensor unit (50% power)
KW150S	KiloWatch integral sensor unit (50% lumen)
KW1S LT	KiloWatch intergal sensor unit (50% power), Low temperature
KW150S LT	KiloWatch integral sensor unit (50% lumen), Low temperature

SENSOR COVERAGE CHART



Ballast Options – *Shipped installed*

CWI *Constant Wattage Isolated Ballast.* 120, 208, 240 & 480V. Not available in all fixtures. Consult factory.

MRB *Magnetic Regulator Ballast.* 70-400W HPS. For use in heavy industrial areas. Not available in all voltages and fixtures.

ENC *Encapsulated Ballast.* Use with all voltages up to 450W MH and 400W HPS. Not available in all fixtures.

GEB *Electronic Ballast.* Operates 320, 350 and 400W pulse start lamps between 200 & 277V. Not available in all fixtures.

LLRPSL *Pulse Start Metal Halide Linear Reactor Ballast.* Energy saving ballast. 277V only for 150-450W pulse start metal halide lamps. Use in areas where line dip tolerance is not critical. Not available in all fixtures.

SCWA *Pulse Start Metal Halide Super Constant Wattage Autotransformer Ballast.* Energy saving alternative to CWA. 120, 208, 240, 277 & 480V for 150-1000 watt pulse start lamps. Not available in all fixtures.

SCWI *Pulse Start Metal Halide Super Constant Wattage Isolated Ballast.* 120, 208, 240V, for 400W pulse start lamps. Consult factory.

RLB *Pulse Start Metal Halide Regulated Lag Ballast.* Energy saving ballast for heavy industrial areas. 120, 208, 240, 277 & 480V for 175-400 watt pulse start lamps. Not available in all fixtures.

LLSCWA *Pulse Start Metal Halide Low Loss Super Constant Wattage Autotransformer Ballast.* Consumes less power than SCWA. Not available in all fixtures.


Pulse Start H.I.D. Ballast/Lamp Systems
Indoor HID Options – *Shipped installed*

SF *Single Fuse.* Use with 120, 277, 347V. Not available with Multi-tap or Multi-volt Ballast. In-line fusing isolates luminaire from circuit. Externally accessible.

DF *Double Fuse.* Use with 208, 240, 480V. Not available with Multi-tap or Multi-volt Ballast. In-line fusing isolates luminaire from circuit. Externally accessible.

HA *High Ambient.* Allows the Industrial luminaires to be operated in high ambient temperatures. TXS, TXP, TXL, TXC, TXV: 55°C; THV, THC, THS, THP, TE, TPG, TPGE: 65°C.

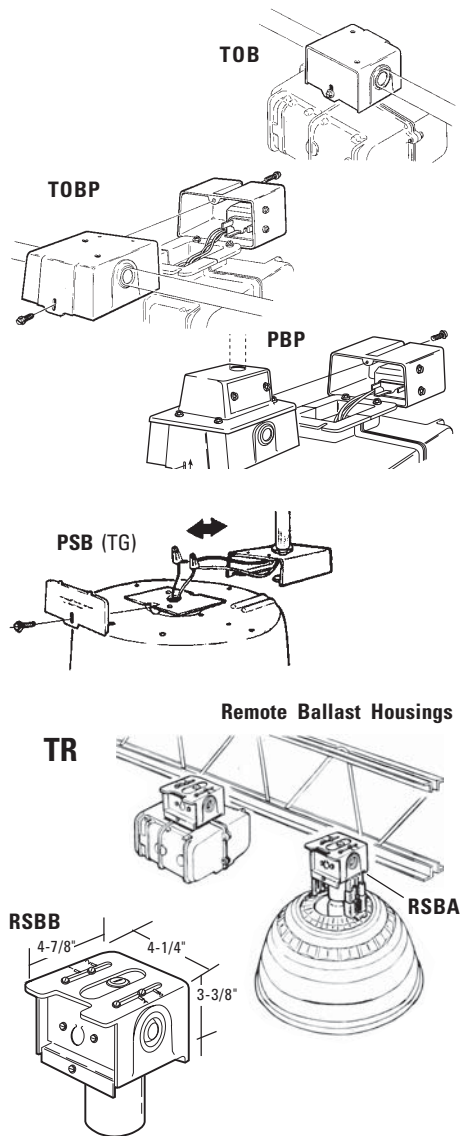
EC *Emergency Circuit.* Factory-installed, double-contact, bayonet-base quartz socket with socket leads for use with separate external emergency power system. (See chart at right). Lamp not included.

QRS *Quartz Restrike System.* Factory-installed, double-contact, bayonet-base quartz socket with socket leads. Automatically switches 120V quartz lamp *on* if there is a power interruption or brownout significant enough to cause the primary HID lamp to drop out. The 120V quartz lamp stays *on* until the HID fixture restrikes. QRS does not energize during cold start of HID luminaires. Wiring for the quartz lamp is internal to the ballast assembly; the 120 volts required to operate the quartz lamp is supplied by the ballast. Wattage of quartz lamp should not exceed that of HID source (See chart at right). Lamp not included.

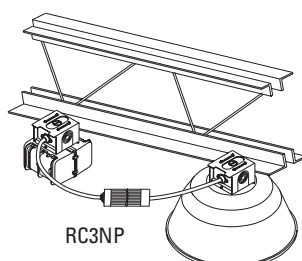
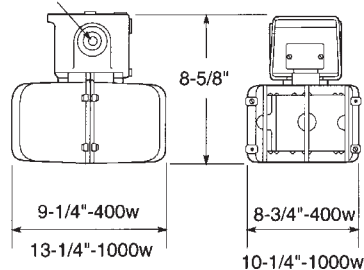
QRSTD *Quartz Restrike System Time Delay.* Factory-installed, double-contact, bayonet-base quartz socket with socket leads. Functions as does QRS, but 120V quartz lamp energizes under hot and cold starting conditions. Quartz lamp will come *on* when luminaire is energized and remain *on* for two minutes after start-up or restrike. Wiring for the quartz lamp is internal to the ballast assembly; the 120 volts required to operate the quartz lamp is supplied by the ballast (See chart at right). Lamp not included.

Product	MH Wattage	HPS Wattage	Quartz Wattage
TE, THC, THS, THP, THV, TPG SH A14, SH A15, SH A16	150 & below 175-200 250-400 1000		100 150 250 500
THS-A16GL SH A16GL	400 & below	100 & below 200 250 400	100 100 150 250 250
TXC, TXL, TXP, TXS, SX A23	100 & below 175 250 400		100 150 250 250
TXR, TXV SH PA22	100 & below 175-400		100 150
THR	100 & below 150-200 250-400 1000		100 150 250 150
TG, TGL, TGR	250 & below		100
TPGE	100 & below 1000 & below	100 & below 150-200 250-400 1000	100 150 100 150 250 500

Drawings are for dimensional detail only and may not represent actual mechanical configuration.



Knockouts for 3/4" or 1-1/4" thru-wire conduit



- WL** *Wet Location Label.* Signifies that the luminaire meets all UL requirements for proper, safe operation in environments subject to spray of noncorrosive and nonflammable liquids. Fixture requires rigid pendant mounting or wet location assembly.
- CF** *Charcoal Filter.* Used with enclosed and gasketed luminaires. Filter prevents particulate contaminants from entering the optical assembly during start-up and cool-down periods. Filter consists of activated charcoal granules freely suspended between multiple layers of polyester filtering material.
- OB** *Open-Bottom Refractor.* Use with TXV and TGR. Not UL listed for wet locations. Not available 70-250W metal halide; standard on all 400W.
- GL17/GL22** *Glass lens for THP.* Frequent cleaning maintains performance. (Does not meet UL lamp rupture containment specifications.)
- KW1** 50% power reduction, 120V AC control circuit for KiloWatch dual-level system. Requires additional KiloWatch system components. See KiloWatch data (pages 385-387) or consult factory.
- KW1S** KiloWatch integral sensor unit. 50% power reduction, 120V AC control circuit for KiloWatch dual-level system. Requires additional KiloWatch components. See KiloWatch data (pages 385-387) or consult factory.
- KW150** 50% lumen reduction, 120V AC control circuit for KiloWatch dual-level system. Requires additional KiloWatch system components. See KiloWatch data (pages 385-387) or consult factory.
- KW150S** KiloWatch integral sensor unit. 50% lumen reduction, 120V AC control circuit for KiloWatch dual-level system. Requires additional KiloWatch system components. See KiloWatch data (pages 385-387) or consult factory.
- KW4** 50% power reduction, 277V AC control circuit for KiloWatch dual-level system. Requires additional KiloWatch system components. See KiloWatch data (pages 385-387) or consult factory.
- KW450** 50% lumen reduction, 277V AC control circuit for KiloWatch dual-level system. Requires additional KiloWatch system components. See KiloWatch data (pages 385-387) or consult factory.

Indoor HID Mounting Options – Shipped installed

- TOB** *Thru-Wire Outlet Box.* Combination outlet box and splice compartment. Permits entry of 1-1/4" or 3/4" rigid or thin-wall conduit through easily-removable knock-outs. May be suspension or surface mounted. Height 2-7/8"; width 4-1/2".
- TOBP** *Thru-Wire Outlet Box Plug-In.* Provides plug-in flexibility of conventional power hook and reduces overall height. Female receptacle part of TOBP box. Male plug is factory-installed to ballast housing. Not rated as a load break device. Height 2-7/8"; width 4-1/2". Permits entry of rigid 3/4" or thin-wall conduit through easily removable knockout.
- PBP** *Pendant Box Plug-In.* Pendant-mount plug-in outlet box is identical to TOBP, except for pendant mounting. Height 4-1/2"; width and depth 4-1/2".
- PSB** *Pendant Splice Box.* Used with TG. For rigid pendant mounting. Used with SH/SX/SPG for optional mounting with threaded 3/4" hole.
- PM** *Pendant Splice Box.* Use with TGL, TGR. Permits rigid pendant mounting.
- TR** *Remote ballast.* Includes ballast housing and remote optical with RSBA or RSBB. Does not include interconnecting wiring. Add **TR** to end of fixture catalog number. RSBA – *Remote Splice Box. Adjustable legs* for THS, THP, THR, THV, THC high bay optical assemblies. Consult factory for dimensions. RSBB – *Remote Splice Box. Bolt-on* for TE, TXS, TXP, TXL, TXC, TXV, and TXR enclosed or low bay optical assemblies. 4-7/8" x 4-1/4" x 3-3/8".
- RC3NP** *Remote ballast with pre-wired cord.* Includes ballast housing and remote optical with RPMA and RPMB and 3 feet of pre-wired cable harness with male and female 20-amp twist lock plug (C3NP). Add RC3NP to end of fixture catalog number.
- ISP** *Individually sensed photocell* for steel ballast housing. For details, consult factory.
- ISM** *Individually sensed motion detector* for steel ballast housing. For details, consult factory.

- LCPP** *Loop, Cord & Plug.* Use with TPH and PPH only. Loop, 16-gauge, 105°C SEO cord and twist-lock 14-amp non-NEMA plug for power hooks. Plug receptacle is part of PPH accessory. Factory prewired. Cord length 14". For Canada, consult factory.
- LCKPP** *Loop, Cord & Plug for Kilowatch.* Use with TPHKR and PPHKR only. Loop, 16-gauge, 105°C SEO cord and twist-lock NEMA L23-20P plug for power hooks. Plug receptacle is part of TPHKR and PPHKR accessory. Factory prewired. Cord length 14".
- LC3P** *Loop, 3' Cord and NEMA twist-lock plug.* For use where receptacle and support means are provided by others. Includes die-cast aluminum loop, three feet of 16-gauge, 105°C SEO cord and NEMA configuration twist-lock plug. 15-amp plug standard for 120, 208, 240, 277V; 20-amp plug standard for 480V. Height 3-1/2".
- LC3KP** *Loop, 3' cord and NEMA twist-lock plug for Kilowatch.* For use where receptacle and support means are provided by others. Includes die cast aluminum loop, three feet of 16-gauge, 105°C SEO cord and NEMA L23-20P twist lock plug. Height 3-1/2".
- HC3P** *Hook, 3' Cord and NEMA twist-lock plug.* Identical in function to LC3P, except die-cast aluminum hook.
- SC3P** *Hook, 3' Cord and NEMA twist-lock plug.* Used on steel ballast housing only.
- SC3PD** *Hook and two 3' Cords, one with NEMA twist-lock plug.* (Other cord wired for dimming at 0-10V.)

NEMA Plug Table for ordering LC3P or HC3P:

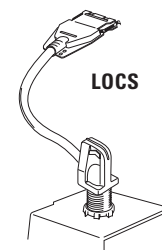
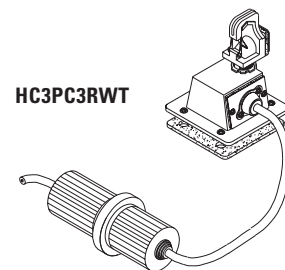
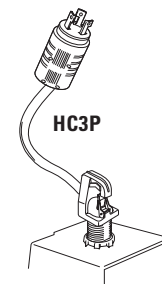
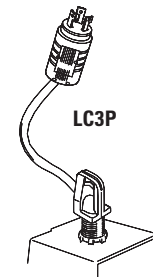
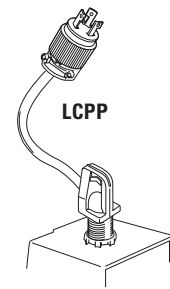
Voltage	Standard		Optional 20-amp Plug	
	Plug	Configuration	Order as	Plug will be
120	L5-15P		LC3P20	L5-20P
208	L6-15P		LC3P20	L6-20P
240	L6-15P		LC3P20	L6-20P
277	L7-15P		LC3P20	L7-20P
480	L8-20P		Standard	—
347	L37-20P		Standard	—

- HC3KP** *Hook, 3' cord and NEMA twist-lock plug for Kilowatch.* For use where receptacle and support means are provided by others. Includes die cast aluminum safety hook, three feet of 16-gauge, 105°C SEO cord and NEMA L23-20P twist-lock plug. Height 3-1/2".

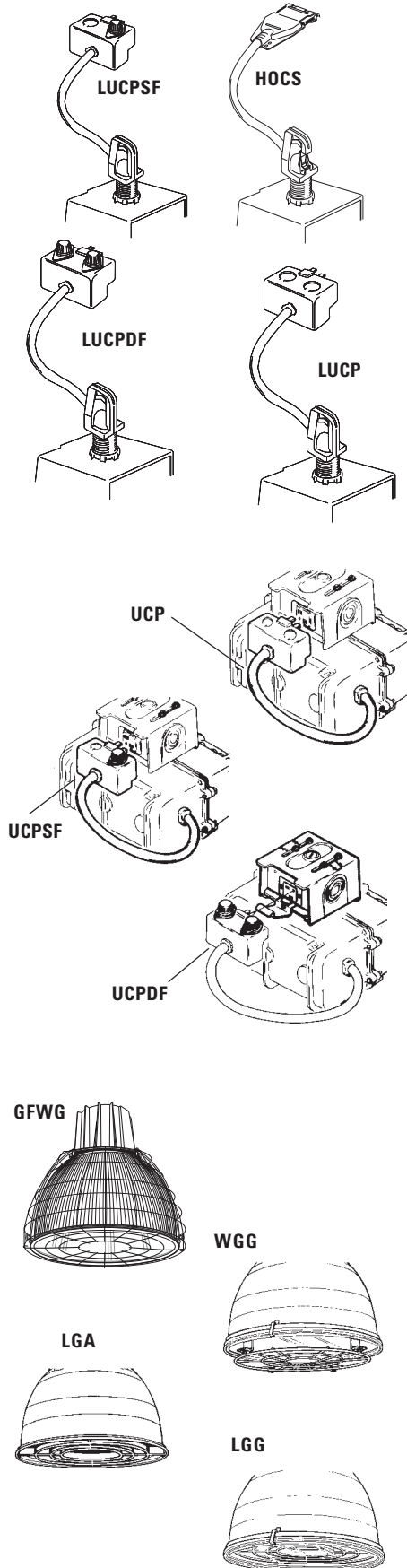
Mounting Options – shipped installed

- HC3PC3RWT** *Hook, 3' cord, NEMA twist-lock and receptacle for Wet Location.* Includes grommeted die-cast safety hook, three feet of 16-gauge, 105°C SEOW cord and NEMA twist-lock 20 amp plug and the compatible NEMA receptacle with three feet of 16-gauge 105°C SEOW cord. A black neoprene boot over the plug and receptacle protects the connection from moisture. This assembly is IP67 rated and suitable for hose-down.
- LOCS** *Loop, Cord and Reloc OCS Connector.* Die-cast aluminum loop, 3' of 16-gauge, 105°C cord and Lithonia Reloc module. Allows the desired hot conductors needed to energize the fixture to be selected in the field. Allows fixture to be removed from line without interruption of branch circuit. Factory prewired. Height 3-1/2". To order, specify voltage. Available in 120/347V only in Canada. For additional information, see Reloc OCS component.

Drawings are for dimensional detail only and may not represent actual mechanical configuration.



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- HOCS** *Hook, Cord and Reloc OCS Connector.* Same in function as LOCS, except die-cast hook. To order, specify voltage. Available in 120/347V only in Canada. For additional information, see Reloc OCS component.
- LUCP** *Loop, Universal Cord and Plug. Use with UPM1.* Provides conventional loop, three feet of 16-gauge, 105°C SEO cord and UCP plug. Factory prewired. Height is 3-1/2".
- LUCPSF** *Loop, Universal Cord, Plug with Single Fusing. Use with UPM1.* Provides conventional loop, three feet of 16-gauge, 105°C SEO cord and UCP plug. Factory prewired. Loop height is 3-1/2".
- LUCPDF** *Loop, Universal Cord, Plug with Double Fusing. Use with UPM1.* Provides conventional loop, three feet of 16-gauge, 105°C SEO cord and UCP plug. Factory prewired. Loop height is 3-1/2".
- UCP** *Universal Cord and Plug. Use with UPM (Universal Power Module.)* 16-gauge, 105°C SEO cord and plug to connect to UPM provides complete power module assembly. Factory prewired.
- UCPSF** *Universal Cord and Plug with Single Fuse. Use with UPM for Dead Front Fusing.* Single fuse (120, 277V). If UPM UCP option is used in conjunction with fusing, the fusing will be installed in UCP plug head. Shipped installed.
- UCPDF** *Universal Cord and Plug with Double Fuse. Use with UPM for Dead Front Fusing.* Double Fuse (208, 240, 480V). If UPM UCP option is used in conjunction with fusing, the fusing will be installed in UCP plug head. Shipped installed.
- OCS** *RELOC OCS Connector.* Comes attached to steel ballast housing (hook and cord standard). To order, specify voltage. For additional information, see RELOC OCS component, page 577.

Wire Guards – shipped installed

These wire guards ship attached to lens ring or require reflector modification. Must be ordered with fixture. Wire guards for open reflectors are on page 561.

- WGG17** *Wireguard.* Use with TE, E17 reflector. Must be ordered with fixture.
- WGG22** *Wireguard.* Use with TE, E22 reflector. Must be ordered with fixture.
- WG** *Wireguard for TXP-A26, TXS-A30, TXC-A23, TXL-A20, THS-A16GL or TPGE reflector.* Must be ordered with fixture.
- GFWG16** *Glass Full Wireguard.* Use with TPGE-PG16GLE and TPGE-PG16AGLE. Must be ordered with fixture.
- GFWG21** *Glass Full Wireguard.* Use with TPGE-PG21GLE and TPGE-PG21AGLE. Must be ordered with fixture.
- WGA14** *Wireguard.* Use with THV-A14 reflector. Must be ordered with fixture; requires factory-drilled reflector. Ships as: WGA14 U, WGA14 J4 and WGA14 J12.

Louver Guards – shipped installed

Louver guards for glass-lensed units attaches to lens ring. Must be ordered with fixture. Louver guards for open reflectors are on page 394.

- LGG17** *Louver Guard.* Use with TE-E17 reflector; requires factory-drilled reflector. Ships as LGG17U, LGG17 J4, LGG17 J12.
- LGG22** *Louver Guard.* Use with TE-E22 reflector; requires factory-drilled reflector. Ships as LGG22U, LGG22 J4, LGG22 J12.

Fixture Finishes

- CR** *Enhanced corrosion-resistant finish.* Clear polyester coating for additional protection against some corrosive atmospheres. Consult factory for corrosive compatibility.
- CRT** *Non-stick protective coating.* Coating of all external luminaire surfaces. Optical assemblies have a clear coat. Ballast housing/mounting accessories are black. TE, THP, THV, TXL and TXP only. TPG and TPGE ballast housings only.
- TEF** *Teflon.* Finished reflectors are coated with one-mil layer of Teflon to provide superior corrosion-resistance and ease of maintenance. TE, THP, THV, TXL and TXP.

Optional architectural colors. Add as suffix to catalog number.

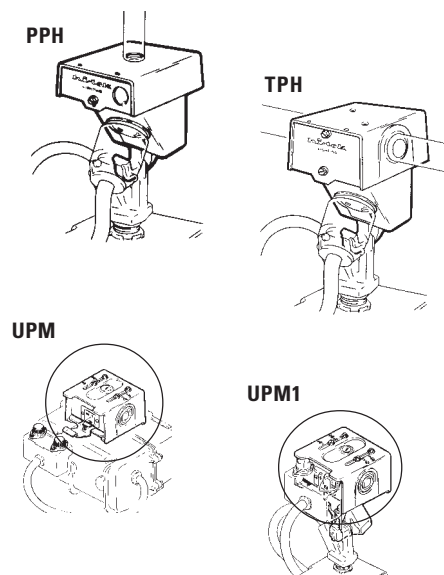
- DNA** Natural Aluminum
DBL Black
DGC Charcoal Gray
DSB Steel Blue
DWH White
DBR Bright Red
DMB Medium Bronze
DSS Sandstone
DDB Dark Bronze
DTG Tennis Green

Industrial Accessories – shipped separately

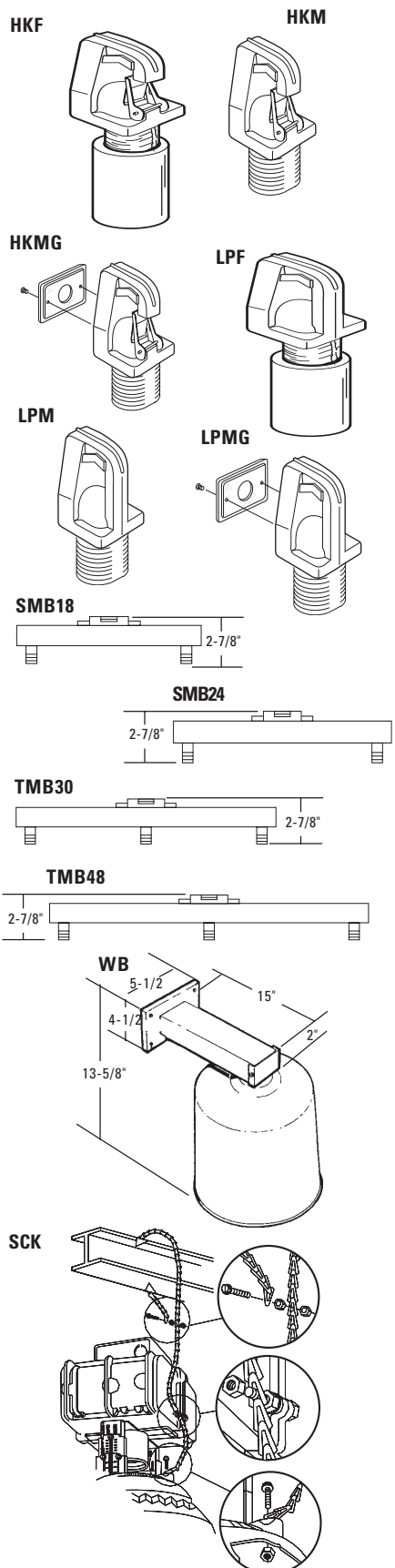
Mounting Modules/Power Hooks ship separately, but may require an option to complete the assembly. Necessary accessories are noted below and listed on page 555.

- PPH** *Pendant Power Hook.* Provides disconnect capability. Order loop, cord and plug on fixture (LCPH option). **UL listed as primary disconnect, load break device.** Specify voltage. Height 5-1/8"; width 4-1/2". Ships as: PPH voltage U, PPH voltage J4, and PPH voltage J12.
- PPHKR** *Pendant Power Hook for KiloWatch System.* Provides disconnect capability. Order loop, cord and plug on fixture (LCKPP option). **UL listed as primary disconnect, load break device.** Specify voltage. Height 5-1/8"; width 4-1/2". Ships as: PPHKR voltage.
- TPH** *Thru-Wire Power Hook.* Provides disconnect capability. Order loop, cord and plug on fixture (LCPH option). **UL listed as primary disconnect, load break device. Specify voltage.** Height 6-1/4"; width 4-1/2" square. Ships as: TPH voltage U, TPH voltage J4, and TPH voltage J12.
- TPHKR** *Thru-Wire Power Hook for KiloWatch System.* Provides disconnect capability. Order loop, cord and plug on fixture (LCKPP option). **UL listed as primary disconnect, load break device. Specify voltage.** Height 6-1/4"; width 4-1/2" square. Ships as: TPHKR voltage U.
- UPM** *Universal Power Module.* Provides disconnect capability. Order universal cord and plug (UCP option) on fixture. **UL listed as primary disconnect, load break device.** Attaches directly to ballast housing. Allows flat, horizontal surface, thru-wire or pendant mounting. Not available on TG, TGL and TGR. Ships as: UPM voltage U, UPM voltage J4, and UPM voltage J12. Height 3-1/2", width 4-1/2".
- UPM1** *Universal Power Module with Hook Adapter.* Assembly provides disconnect capability. Order universal cord, plug and loop (LUCP option) on fixture. **UL listed as primary disconnect, load break device.** Allows surface, thru-wire or pendant mounting. Ships as: UPM1 voltage U, UPM voltage J4, and UPM voltage J8.

Drawings are for dimensional detail only and may not represent actual mechanical configuration.



Drawings are for dimensional detail only and may not represent actual mechanical configuration.



- HKM** *Fixture Hook Male.* Die-cast aluminum construction with spring steel safety clasp standard. Overall height 3-3/4" including 1" thread. Thread diameter is 3/4". Ships as: HKM U, HKM J4, and HKM J12.
- HKF** *Fixture Hook Female.* Female version adds coupling. Ships as: HKF U, HKF J4, and HKF J12.
- HKMG** *Grommated Fixture Hook.* Gasketed cord exit. Designed to keep dirt from entering hook/cord opening. Ships as: HKMG U.
- LPM** *Fixture Loop Male.* Die-cast aluminum construction. Loop height 2-3/4" plus 3/4" threaded. Ships as: LPM U, LPM J4, and LPM J12.
- LPF** *Fixture Loop Female.* Female version adds coupling. Ships as: LPF U, LPF J4, and LPF J12.
- LPMG** *Grommated Fixture Loop.* Gasketed cord exit. Designed to keep dirt from entering loop/cord opening. Ships as: LPMG U.

Mounting Bars – shipped separately

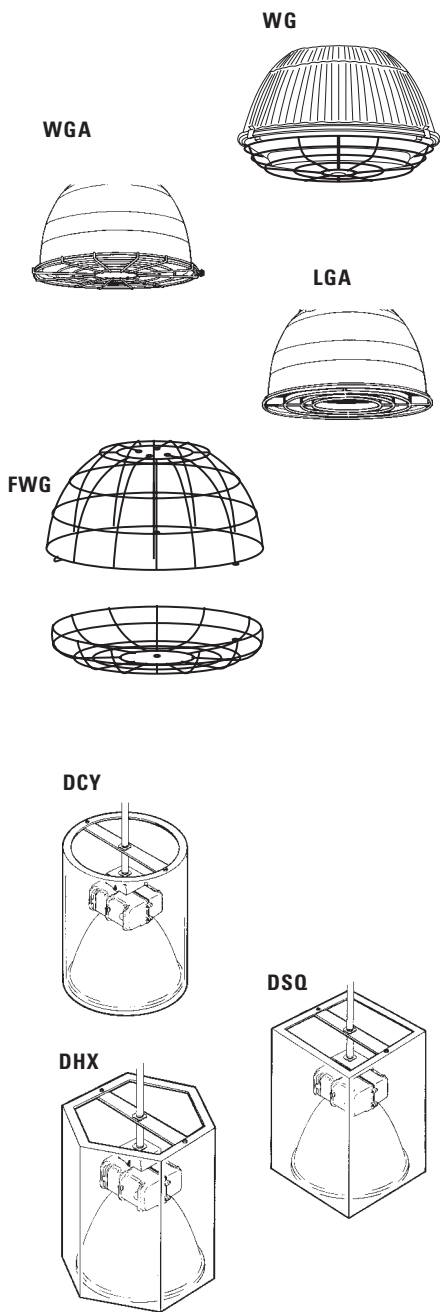
- SMB** *Single Mounting Bar.* White painted steel channel with 3/4" pipe couplings suspend remote ballast housing at one end with remote reflector assembly at the other. SMB includes end snap-in closure strips for wire access. Available in 18" (overall length) **SMB18** and 24" (overall length) **SMB24**. Center line of pipe couplings are 3" from each end. Ships as: SMB18 U, SMB18 J4, and SMB24 J4.
- TMB** *Twin Mounting Bar.* Painted steel channel suspends two complete fixtures, one on each end. Available in 30" (overall length) **TMB30** and 48" (overall length) **TMB48**. Center line of pipe couplings are 3" from each end. Not all wattages or voltages are available in twin-remote ballasts. Ships as: TMB 30 U, TMB 30 J4, TMB48 U and TMB48 J4.
- WB** *Wall-Mounting Bracket.* TG only. Extruded aluminum. Attaches directly to flat, vertical surface with four bolts (not included). TG slides directly onto WB. All wiring connections are made inside WB. Order pendant splice box on fixture. **Requires factory modification to standard product.** Ships as: TGWB U.

Safety Chain Accessories – shipped separately

Includes chain and attachment hardware for field installation. Adapts to all industrial fixtures.

- SCK** *Safety Chain Kit.* 60" (5') of chain. Ships as: SCK U, SCK J4, and SCK J12.
- SCK84** *Safety Chain Kit.* 84" (7') of chain. Ships as: SCK84 U, SCK84 J4, and SCK84 J12.
- SCK108** *Safety Chain Kit.* 108" (9') of chain. Ships as: SCK108 U, SCK108 J4, and SCK108 J12.

Drawings are for dimensional detail only and may not represent actual mechanical configuration.



Wireguards/Louver Guards – shipped separately

Wireguards and Louver Guards ship separately for attachment to open reflectors. Wireguards for lensed reflectors are on page 391.

- WGA15** Wireguard. Use with THS, THD or SH , A15 reflector. Ships as: WGA15 U, WGA15 J4 and WGA15 J12.
- WGA16** Wireguard. Use with THS or THD, A16 reflector. Ships as: WGA16 U, WGA16 J4 and WGA16 J12.
- WGPG16** Wireguard. Use with TPG, PG16 reflector. Ships as: WGPG16 U, WGPG16 J4 and WGPG16 J12.
- WGPG16A** Wireguard. Use with TPG, PG16A reflector. Ships as: WGPG16A U, WGPG16A J4 and WGPG16A J12.
- WGA17** Wireguard. Use with THP, A17 reflector. Ships as: WGA17 U, WGA17 J4 and WGA17 J12.
- WGPG21** Wireguard. Use with TPG, PG21 reflector. Ships as: WGPG21 U, WGPG21 J4 and WGPG21 J12.
- WGPG21A** Wireguard. Use with TPG, PG21A reflector. Ships as: WGPG21A U, WGPG21A J4 and WGPG21A J12.
- WGA22** Wireguard. Use with THP, A22 reflector. Ships as: WGA22 U and WGA22 J4.
- FWG** Full Wireguard. Use with the THR or TXR Acrylume™ fixtures. Attaches to adjustable leg mounting screws. Ships separately as: FWG U.
- LGA16** Louver Guard. Use with THS or THD, A16 reflector. Ships as: LGA16 U, LGA16 J4 and LGA16 J12.
- LGA17** Louver Guard. Use with THP, A17 reflector. Ships as: LGA17 U, LGA17 J4 and LGA17 J12.
- LGA22** Louver Guard. Use with THP, A22 reflector. Ships as: LGA22 U, LGA22 J4 and LGA22 J12.

Decorative Shades – shipped separately

- DCY** Cylinder Shade
- DSQ** Square Shade
- DHX** Hexagonal Shade

24-gauge steel construction with baked polyester enamel finish. Designed for pendant mounting on rigid conduit only. Not for use on swivel hangers or any self-leveling hanging device. Available in all architectural colors. Custom colors may involve substantial setup fees; consult factory. Mounting and fixture attachment hardware not included. See ordering guide for catalog suffix and dimensions.

Decorative Shade Ordering Guide

Fixture Series and Size	Cylinder	Square	Hexagonal	Dia.	Height
THS A16 and THP A17	DCY19 400 (color)	DSQ19 400 (color)	DHX19 400 (color)	19"	30"
THP A17 with WGA, WGG or LGA	DCY22 400 (color)	DSQ22 400 (color)	DHX22 400 (color)	22½"	30"
THP A22	DCY24 400 (color)	DSQ24 400 (color)	DHX24 400 (color)	24"	30"
THP A22 with WGA, WGG or LGA	DCY26 1000 (color)	DSQ26 1000 (color)	DHX26 1000 (color)	26"	30"
TE E17	DCY22 400 (color)	DSQ22 400 (color)	DHX22 400 (color)	22½"	30"
TE E22	DCY26 1000 (color)	DSQ26 1000 (color)	DHX26 1000 (color)	26"	30"

■ = OPTION AVAILABLE

Low Bay Options

Options and Accessories

	TXF PA25ALEF	TXF A30F	TXL	TXP	TXS PA22GLE	TXC	TXD	TXR	TXR PA25ALE	TXR PA22C	TXR PA25D	TXV A125/A165	TGL	TGR	TG	SXA23
SF	■ 17	■ 17	■ 17	■ 17	■ 17	■ 17		■ 17	■ 17	■ 17	■ 17	■ 17	■ 17	■ 17	■ 17	■ 17
DF	■ 17	■ 17	■ 17	■ 17	■ 17	■ 17		■ 17	■ 17	■ 17	■ 17	■ 17	■ 17	■ 17	■ 17	■ 17
EC	■	■	■	■	■	■		■ 16	■ 16	■ 16	■ 16	■ 16	■ 1	■ 1	■ 1	■
HA (55C)	■	■	■	■	■	■						■				■
QRS	■	■	■	■	■	■		■ 16	■ 16	■ 16	■ 16	■ 16	■ 1	■ 1	■ 1	
QRSTD	■ 2	■ 2	■ 2	■ 2	■ 2	■ 2		■ 2,16	■ 2,16	■ 2,16	■ 2,16	■ 2,16	■ 1,2	■ 1,2	■ 1,2	■ 2
TOB			■ 3	■ 3	■ 3	■ 3		■ 3	■ 3	■ 3	■ 3	■ 3				■ 3
TOBP			■ 3,17	■ 3,17	■ 3,17	■ 3,17		■ 3,17	■ 3,17	■ 3,17	■ 3,17	■ 3,17				
PBP			■ 3,17	■ 3,17	■ 3,17	■ 3,17		■ 3,17	■ 3,17	■ 3,17	■ 3,17	■ 3,17				
PM	STD	STD											■	■		
JBP																■
PJBP																■
PSB			STD	STD	STD	STD	STD	STD	STD	STD	STD	STD				■
KW1	■	■	■	■	■	■		■	■	■	■	■	■ 4	■ 4		
KW1S	■	■	■	■	■	■		■	■	■	■	■				
KW4	■	■	■	■	■	■		■	■	■	■	■	■ 4	■ 4		
KW150	■	■	■	■	■	■		■	■	■	■	■	■ 4	■ 4		
KW150S			■	■	■	■		■	■	■	■	■				
KW450	■	■	■	■	■	■		■	■	■	■	■	■ 4	■ 4		
CWI	■	■	■	■	■	■		■	■	■	■	■				
MRB	■ 4	■ 4	■ 4	■ 4	■ 4	■ 4		■ 4	■ 4	■ 4	■ 4	■ 4				
ENC	■ 4,5	■ 4,5	■ 4,5	■ 4,5	■ 4,5	■ 4,5		■ 4,5	■ 4,5	■ 4,5	■ 4,5	■ 4,5				
TR			■ 3	■ 3	■ 3	■ 3		■ 3	■ 3	■ 3	■ 3	■ 3				
RC3NP			■ 3	■ 3	■ 3	■ 3		■ 3	■ 3	■ 3	■ 3	■ 3				
LCPP			■ 3	■ 3	■ 3	■ 3		■ 3	■ 3	■ 3	■ 3	■ 3	■ 3,13	■ 3,13	■ 12	■ 3
LCKPP			■ 3	■ 3	■ 3	■ 3		■ 3	■ 3	■ 3	■ 3	■ 3	■ 3,13	■ 3,13	■ 12	■ 3
LC3P			■ 3,6	■ 3,6	■ 3,6	■ 3,6		■ 3,6	■ 3,6	■ 3,6	■ 3,6	■ 3,6	■ 3,6,13	■ 3,6,13	■ 6,12	■ 3,6
LC3KP			■ 3	■ 3	■ 3	■ 3		■ 3	■ 3	■ 3	■ 3	■ 3	■ 3,13	■ 3,13	■ 12	■ 3
HC3P			■ 3,6	■ 3,6	■ 3,6	■ 3,6		■ 3,6	■ 3,6	■ 3,6	■ 3,6	■ 3,6	■ 3,6,13	■ 3,6,13	■ 6,12	■ 3,6
HC3KP			■ 3	■ 3	■ 3	■ 3		■ 3	■ 3	■ 3	■ 3	■ 3	■ 3,13	■ 3,6,13	■ 12	■ 3
LOCS			■ 3,11,17	■ 3,11,17	■ 3,11,17	■ 3,11,17		■ 3,11,17	■ 3,11,17	■ 3,11,17	■ 3,11,17	■ 3,11,17	■ 3,11,13,17	■ 3,11,13,17	■ 11,12,17	■ 3,11,17
HOCS			■ 3,11,17	■ 3,11,17	■ 3,11,17	■ 3,11,17		■ 3,11,17	■ 3,11,17	■ 3,11,17	■ 3,11,17	■ 3,11,17	■ 3,11,13,17	■ 3,11,13,17	■ 11,12,17	■ 3,11,17
LUCP			■ 3,17	■ 3,17	■ 3,17	■ 3,17		■ 3,17	■ 3,17	■ 3,17	■ 3,17	■ 3,17	■ 3,13,17	■ 3,13,17	■ 12,17	
LUCPSF			■ 3,17	■ 3,17	■ 3,17	■ 3,17		■ 3,17	■ 3,17	■ 3,17	■ 3,17	■ 3,17	■ 3,13,17	■ 3,13,17	■ 12,17	
LUCPDF			■ 3,17	■ 3,17	■ 3,17	■ 3,17		■ 3,17	■ 3,17	■ 3,17	■ 3,17	■ 3,17	■ 3,13,17	■ 3,13,17	■ 12,17	
UCP			■ 3,11,17	■ 3,11,17	■ 3,11,17	■ 3,11,17		■ 3,11,17	■ 3,11,17	■ 3,11,17	■ 3,11,17	■ 3,11,17				
UCPSF			■ 3,11,17	■ 3,11,17	■ 3,11,17	■ 3,11,17		■ 3,11,17	■ 3,11,17	■ 3,11,17	■ 3,11,17	■ 3,11,17				
UCPDF			■ 3,11,17	■ 3,11,17	■ 3,11,17	■ 3,11,17		■ 3,11,17	■ 3,11,17	■ 3,11,17	■ 3,11,17	■ 3,11,17				
WL	STD	STD	■ 2	■ 2	■ 2	■ 2		■ 2	■ 2	■ 2	■ 2	■ 2,7,8	■ 2	■ 2		
HC3PC3RWT	■ 18	■ 18	■ 2	■ 2	■ 2	■ 2		■ 2	■ 2	■ 2	■ 2	■ 2,7,8	■ 2,13	■ 2,13		
CF			■	■	■	■						■ 8				■
OB												■ 3,9				
CR			■ 10	■ 10	■ 10	■ 10		■ 10	■ 10	■ 10	■ 10	■ 10	■ 10	■ 10	■ 10	
CRT			■ 10	■ 10												
TEF			■ 10	■ 10												
LPI							■									
RLB	■ 4	■ 4	■ 4	■ 4	■ 4	■ 4		■ 4	■ 4	■ 4	■ 4	■ 4				
SCWA	■ 4	■ 4	■ 4	■ 4	■ 4	■ 4		■ 4	■ 4	■ 4	■ 4	■ 4	■ 4	■ 4	■ 4	
LLRPSL	■ 4	■ 4	■ 4	■ 4	■ 4	■ 4		■ 4	■ 4	■ 4	■ 4	■ 4	■ 4	■ 4	■ 4	
LLSCWA	■ 4	■ 4	■ 4	■ 4	■ 4	■ 4		■ 4	■ 4	■ 4	■ 4	■ 4	■ 4	■ 4	■ 4	
GEB																■
GEB HA																■

SF	Single fuse. 120/277/347V only, N/A TB (multi-tap ballast)	LUCP	Loop, cord and plug for UPM1. N/A TB (multi-tap ballast)
DF	Double fuse. 208/240/480V only, N/A TB (multi-tap ballast)	LUCPSF	LUCP w/single fuse. Dead front fusing. 120/277V only. N/A TB (multi-tap ballast)
EC	Emergency circuit (lamp not included)	LUCPDF	LUCP w/double fuse. Dead front fusing. 208/240/480V only. N/A TB (multi-tap ballast)
HA	55°C ambient operation	UCP	Universal cord and plug for UPM. N/A TB (multi-tap ballast)
QRS	Quartz restrike system (lamp not included)	UCPSF	UCP with single fuse. Dead front fusing. N/A TB (multi-tap ballast)
QRSTD	QRS time delay (lamp not included)	UCPDF	UCP with double fuse. Dead front fusing. N/A TB (multi-tap ballast)
TOB	Thru-wire outlet box	WL	Wet location. UL listed.
TOBP	Thru-wire outlet box plug-in. N/A TB (multi-tap ballast)	HC3PC3RWT	Watertite™ hook, cord and receptacle ¹⁸
PBP	Pendant box plug-in. N/A TB (multi-tap ballast)	CF	Charcoal filter
PM	Pendant mount	OB	Open bottom refractor
JBP	Junction box plug-in	CR	Enhanced corrosion-resistant finish (polyester), housing and reflector
PJBP	Pendant junction box plug-in	CRT	Non-stick protective coating, housing and reflector
PSB	Pendant splice box	TEF	Teflon finished reflector
KW1	KiloWatch 120V control relay, 50% wattage reduction	LPI	Lamp shipped in carton with fixture (N/A with incandescent) ¹⁵
KW1S	KiloWatch integral sensor unit. KiloWatch 120V control relay, 50% wattage reduction	GEB	Generic electronic ballast
KW4	KiloWatch 277V control relay, 50% wattage reduction	GEB HA	Generic electronic ballast, 55°C ambient operation
KW150	KiloWatch 120V control relay, 50% lumen (light) reduction		
KW150S	KiloWatch integral sensor unit. KiloWatch 120V control relay, 50% lumen (light) reduction		
KW450	KiloWatch 277V control relay, 50% lumen (light) reduction		
CWI	Constant-wattage isolated ballast (208, 240, 480V/ 250-400M, 150-400S)		
MRB	Magnetic regulator ballast (70-400W HPS)		
ENC	Encapsulated ballast		
TR	Remote ballast		
RC3NP	TR with prewired cord and plug		
LCPP	Loop, cord & plug. Requires TPH or PPH.		
LCKPP	Loop, cord & KiloWatch plug requires TPHKR or PPHKR		
LC3P	Loop, 3' cord & 15A NEMA twist-lock plug		
LC3KP	Loop, 3' cord & NEMA L23-20P KiloWatch plug		
HC3P	Hook, 3' cord & 15A NEMA twist-lock plug (480V 20A)		
HC3KP	Hook, 3' cord & NEMA L23-20P KiloWatch plug		
LOCS	Loop, 3' cord, Reloc OCS. N/A TB (multi-tap ballast)		
HOCS	Hook, 3' cord, Reloc OCS. N/A TB (multi-tap ballast)		



RLB	Regulated lag pulse start ballast (175, 200, 250, 400 & 450M only)
SCWA	Super CWA pulse start ballast
LLRPSL	Linear reactor pulse start ballast
LLSCWA	Low loss SCWA pulse start ballast

NOTES:

- 1 100W quartz maximum.
- 2 N/A with all other options. Consult factory.
- 3 N/A with WL option.
- 4 N/A for all voltages/wattages. Consult factory.
- 5 Available up to 400W MH and 250W HPS.
- 6 20-amp standard on 480V.
- 7 16" refractor only.
- 8 N/A open bottom.
- 9 Not available 70-250W MH. Standard on all 400W.
- 10 Consult factory for environmental compatibility.
- 11 Available in Canada 120/347V only.
- 12 Must use PSB option.
- 13 Must use PM option.
- 14 Consult factory.
- 15 Only available with TXD.
- 16 150W quartz maximum.
- 17 N/A TB (multi-tap ballast) or MVOLT.
- 18 Watertite is a registered trademark of Daniel Woodhead Company. IP67 rated.

	TPG	TPGE	TE	THV	THP	THS	THC	THR	THD	SPG	SHA14	SHA16S	SHA15	SHPA22
SF Single fuse. 120/277/347V only. N/A TB (multi-tap ballast)	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹
DF Double fuse. 208/240/480V only. N/A TB (multi-tap ballast)	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹
EC Emergency circuit (lamp not included)	■	■ ¹⁰	■	■	■	■	■	■	■	■	■	■	■	■
HA 65°C ambient operation	■ ³	■ ³	■	■	■	■	■	■	■	■	■	■	■	■
HA 55°C ambient operation	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
QRS Quartz restrike system (lamp not included)	■	■ ¹⁰	■	■	■	■	■	■	■	■	■	■	■	■
QRSTD QRS time delay (lamp not included)	■ ¹	■ ^{1,10}	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹
TOB Thru-wire outlet box	■	■	■ ²	■	■	■	■	■	■	■	■	■	■	■
TOBP Thru-wire outlet box plug-in. N/A TB (multi-tap ballast)	■	■	■ ²	■	■	■	■	■	■	■	■	■	■	■
PBP Pendant box plug-in. N/A TB (multi-tap ballast)	■	■	■ ²	■	■	■	■	■	■	■	■	■	■	■
KW1 KiloWatch 120V control relay. 50% wattage reduction	■	■	■	■	■	■	■	■	■	■	■	■	■	■
KW1S KiloWatch integral sensor unit. 50% wattage reduction	■	■	■	■	■	■	■	■	■	■	■	■	■	■
KW4 KiloWatch 277V control relay. 50% wattage reduction	■	■	■	■	■	■	■	■	■	■	■	■	■	■
KW150 KiloWatch 120V control relay. 50% light (lumen) reduction	■	■	■	■	■	■	■	■	■	■	■	■	■	■
KW150S KiloWatch integral sensor unit. 50% light (lumen) reduction	■	■	■	■	■	■	■	■	■	■	■	■	■	■
KW450 KiloWatch 277V control relay. 50% light (lumen) reduction	■	■	■	■	■	■	■	■	■	■	■	■	■	■
CWI Constant-wattage isolated ballast (208, 240, 480V for 250-400M, 150-400S)	■	■	■	■	■	■	■	■	■	■	■	■	■	■
MRB Magnetic regulator ballast (70-400W HPS)	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³
ENC Encapsulated ballast (Consult factory for voltage, wattage, lamp)	■ ^{3,4}	■ ^{3,4}	■ ^{3,4}	■ ^{3,4}	■ ^{3,4}	■ ^{3,4}	■ ^{3,4}	■ ^{3,4}	■ ^{3,4}	■ ^{3,4}	■ ^{3,4}	■ ^{3,4}	■ ^{3,4}	■ ^{3,4}
TR Remote ballast	■	■	■ ²	■	■	■	■	■	■	■	■	■	■	■
RC3NP TR with prewired cord and plug	■	■	■ ²	■	■	■	■	■	■	■	■	■	■	■
LCPP Loop, cord & plug. Requires TPH or PPH.	■ ¹¹	■ ¹¹	■ ^{2,11}	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹
LCKPP Loop, cord & KiloWatch plug requires TPHKR or PPHKR	■ ¹¹	■ ¹¹	■ ^{2,11}	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹
LC3P Loop, 3' cord & 15A NEMA twist-lock plug	■ ^{5,11}	■ ^{5,11}	■ ^{2,5,11}	■ ^{5,11}	■ ^{5,11}	■ ^{5,11}	■ ^{5,11}	■ ^{5,11}	■ ^{5,11}	■ ^{5,11}	■ ^{5,11}	■ ^{5,11}	■ ^{5,11}	■ ^{5,11}
LC3KP Loop, 3' cord & NEMA L23-20P KiloWatch plug	■ ¹¹	■ ¹¹	■ ^{2,11}	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹
HC3P Hook, 3' cord & 15A NEMA twist-lock plug (480V 20A)	■ ^{5,11}	■ ^{5,11}	■ ^{2,5,11}	■ ^{5,11}	■ ^{5,11}	■ ^{5,11}	■ ^{5,11}	■ ^{5,11}	■ ^{5,11}	■ ^{5,11}	■ ^{5,11}	■ ^{5,11}	■ ^{5,11}	■ ^{5,11}
HC3KP Hook, 3' cord & NEMA L23-20P KiloWatch plug	■ ¹¹	■ ¹¹	■ ^{2,11}	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹
LOCS Loop, 3' cord, Reloc OCS. N/A TB (multi-tap ballast)	■ ^{8,11}	■ ^{8,11}	■ ^{2,8,11}	■ ^{8,11}	■ ^{8,11}	■ ^{8,11}	■ ^{8,11}	■ ^{8,11}	■ ^{8,11}	■ ^{8,11}	■ ^{8,11}	■ ^{8,11}	■ ^{8,11}	■ ^{8,11}
HOCS Hook, 3' cord, Reloc OCS N/A TB (multi-tap ballast)	■ ^{8,11}	■ ^{8,11}	■ ^{2,8,11}	■ ^{8,11}	■ ^{8,11}	■ ^{8,11}	■ ^{8,11}	■ ^{8,11}	■ ^{8,11}	■ ^{8,11}	■ ^{8,11}	■ ^{8,11}	■ ^{8,11}	■ ^{8,11}
LUCP Loop, cord and plug for UPM1 N/A TB(multi-tap ballast)	■ ¹¹	■ ¹¹	■ ^{2,11}	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹
LUCPSF LUCP, single fuse. Dead front fusing. 120/277V only N/A multi-tap ballast	■ ¹¹	■ ¹¹	■ ^{2,11}	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹
LUCPDF LUCP, double fuse. Dead front fusing. 208/240/480V only. N/A multi-tap ballast	■ ¹¹	■ ¹¹	■ ^{2,11}	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹
UCP Universal cord and plug for UPM. N/A multi-tap ballast	■ ¹¹	■ ¹¹	■ ^{2,11}	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹
UCPSF UCP with single fuse. Dead front fusing. N/A multi-tap ballast	■ ¹¹	■ ¹¹	■ ^{2,11}	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹
UCPDF UCP with double fuse. Dead front fusing. N/A multi-tap ballast	■ ¹¹	■ ¹¹	■ ^{2,11}	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹	■ ¹¹
WL Wet location. UL listed.	■	■	■	■	■	■	■	■	■	■	■	■	■	■
HC3PC3RWT Wet location hook, cord and receptacle	■	■	■ ¹¹	■	■	■	■	■	■	■	■	■	■	■
CF Charcoal filter	■	■	■	■	■	■	■	■	■	■	■	■	■	■
GL Glass lens (tempered)	■	STD	STD	■ ⁶	■ ⁶	■ ⁶	■ ⁶	■ ⁶	■ ⁶	■ ⁶	■ ⁶	■ ⁶	■ ⁶	■ ⁶
T73 Corning C73 glass lens	■	■	■	■	■	■	■	■	■	■	■	■	■	■
CR Enhanced corrosion-resistant finish (polyester), housing & reflector	■ ^{7,9}	■ ^{7,9}	■ ⁷	■ ⁷	■ ⁷	■ ⁷	■ ⁷	■ ⁷	■ ^{7,9}	■ ^{7,9}	■ ^{7,9}	■ ^{7,9}	■ ^{7,9}	■ ^{7,9}
CRT Non-stick protective coating, housing and reflector	■ ^{7,9}	■ ^{7,9}	■ ⁷	■ ⁷	■ ⁷	■ ⁷	■ ⁷	■ ⁷	■ ^{7,9}	■ ^{7,9}	■ ^{7,9}	■ ^{7,9}	■ ^{7,9}	■ ^{7,9}
UP Uplight option	■	■	■	■	■	■	■	■	■	■	■	■	■	■
TEF Teflon finished reflector	■	■	■ ⁷	■ ⁷	■ ⁷	■ ⁷	■ ⁷	■ ⁷	■ ^{7,9}	■ ^{7,9}	■ ^{7,9}	■ ^{7,9}	■ ^{7,9}	■ ^{7,9}
LPI Lamp shipped in carton with fixture (N/A with incandescent)	■	■	■	■	■	■	■	■	■	■	■	■	■	■
RLB Regulated lag pulse start ballast	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³
SCWA Super CWA pulse start ballast	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³
LLRPSL Linear Reactor pulse start ballast	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³
LLSCWA Low Loss SCWA pulse start ballast	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³	■ ³
GEB Electronic ballast, 40°C ambient operation	■	■	■	■	■	■	■	■	■	■	■	■	■	■
GEB HA Electronic ballast, 55°C ambient operation	■	■	■	■	■	■	■	■	■	■	■	■	■	■

NOTES:

- 1 N/A with all other options. Consult factory.
- 2 Not UL listed for wet location.
- 3 N/A for all voltages/wattages. Consult factory.
- 4 N/A for 100W fixtures.
- 5 20-amp standard on 480V.
- 6 Frequent cleaning maintains performance.
- 7 Consult factory for environmental compatibility.
- 8 Available in Canada 120/347V only.
- 9 Housing only.
- 10 150W Quartz maximum.
- 11 N/A TB (multi-tap ballast) or MVOLT.

Shipped Separately

■ = OPTION AVAILABLE

	TPG	TPGE	TE	THV	THP	THS	TPC	THR	THD	SPG	SHA14	SHA16	SHA15	SH PA22
PPH Pendant power hook (specify voltage)	■	■	■ ¹	■	■	■	■	■	■	■		■	■	■
PPHKR Pendant power hook for KiloWatch (specify voltage)	■	■	■ ¹	■	■	■	■	■	■	■		■	■	■
TPH Thru-wire power hook (specify voltage)	■	■	■ ¹	■	■	■	■	■	■	■		■	■	■
TPHKR Thru-wire power hook for KiloWatch (specify voltage)	■	■	■ ¹	■	■	■	■	■	■	■		■	■	■
UPM Universal power module (specify voltage)	■	■	■ ¹	■	■	■	■	■	■	■				
UPM1 Universal power module/hook adapter (specify voltage)	■	■	■ ¹	■	■	■	■	■	■	■				
HKF Fixture hook, female (3/4" threaded coupler)	■	■	■ ¹	■	■	■	■	■	■	■		■	■	■
HKM Fixture hook, male	■	■	■ ¹	■	■	■	■	■	■	■		■	■	■
HKMG Grommeted fixture hook, male	■	■	■ ¹	■	■	■	■	■	■	■		■	■	■
LPF Fixture loop, female (3/4" threaded coupler)	■	■	■ ¹	■	■	■	■	■	■	■		■	■	■
LPM Fixture loop, male	■	■	■ ¹	■	■	■	■	■	■	■		■	■	■
LPMG Grommeted fixture loop, male	■	■	■ ¹	■	■	■	■	■	■	■		■	■	■
WG Wire guard		■ ⁷	■ ⁷			■ ⁵				■		■	■	■
WGA Wire guard (specify reflector size)	■			■ ²	■	■	■		■	■	■	■	■	
FWG Full wire guard								■						■
GFWG Glass full wire guard		■ ⁶												
LGA Louver guard (specify reflector size)			■ ²		■	■			■ ⁴			■		
DCY Cylinder shade (specify reflector size and color)			■ ³		■ ³	■ ³	■ ³		■ ³					
DSQ Square shade (specify reflector size and color)			■ ³		■ ³	■ ³	■ ³		■ ³					
DHX Hexagonal shade (specify reflector size and color)			■ ³		■ ³	■ ³	■ ³		■ ³					
SMB18 18" single-mounting bar	■ ⁸	■ ⁸	■ ^{1,8}	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸
SMB24 24" single-mounting bar	■ ⁸	■ ⁸	■ ^{1,8}	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸
TMB30 30" twin-mounting bar	■ ⁸	■ ⁸	■ ^{1,8}	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸
TMB48 48" twin-mounting bar	■ ⁸	■ ⁸	■ ^{1,8}	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸	■ ⁸
SCK 60" safety-chain kit	■	■	■	■	■	■	■	■	■	■	■	■	■	■
SCK84 84" safety-chain kit	■	■	■	■	■	■	■	■	■	■	■	■	■	■
SCK108 108" safety-chain kit	■	■	■	■	■	■	■	■	■	■	■	■	■	■

Optional Architectural Colors available:

DNA Natural Aluminum	DBL Black
DSB Steel Blue	DWH White
DMB Medium Bronze	DGC Charcoal Gray
DTG Tennis Green	DBR Bright Red
DSS Sandstone	DDB Dark Bronze

NOTES:

- Not UL listed for wet location.
- Factory modification required to reflector.
- Pendant mount on rigid conduit. Not for use on any self-leveling hanger.
- 16" reflector only.
- A16GL only. Shipped on lens assembly.
- Bottom wire guard ships on glass lens assembly. Top wire guard ships separately.
- Shipped on lens assembly.
- Requires remote option.

Painted items will be white unless noted.

Shipped Separately

■ = OPTION AVAILABLE

	TXF	TXF A23F	TXL A3GF	TXP	TXS	TXC	TXD	TXR	TXR PA22GLE	TXR PA22ALE	TXR PA22C	TXR PA25D	TXV A125/A165	TGL	TGR	TG	SXC
PPH			■ ¹	■ ¹	■ ¹	■ ¹		■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ^{1,4}	■ ^{1,4}	■ ^{1,2}	■ ¹
PPHKR			■ ¹	■ ¹	■ ¹	■ ¹		■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ^{1,4}	■ ^{1,4}		■ ¹
TPH			■ ¹	■ ¹	■ ¹	■ ¹		■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ^{1,4}	■ ^{1,4}	■ ²	■ ¹
TPHKR			■ ¹	■ ¹	■ ¹	■ ¹		■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ^{1,4}	■ ^{1,4}		■ ¹
UPM			■ ¹	■ ¹	■ ¹	■ ¹		■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹				
UPM1			■ ¹	■ ¹	■ ¹	■ ¹		■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ^{1,4}	■ ^{1,4}	■ ²	
HKF			■ ¹	■ ¹	■ ¹	■ ¹	■	■ ¹	■ ¹	■ ¹	■	■ ¹	■ ¹	■ ^{1,4}	■ ^{1,4}	■ ²	■ ¹
HKM			■ ¹	■ ¹	■ ¹	■ ¹	■	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ^{1,4}	■ ^{1,4}	■ ²	■ ¹
HKMG			■ ¹	■ ¹	■ ¹	■ ¹	■	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ^{1,4}	■ ^{1,4}	■ ²	
LPF			■ ¹	■ ¹	■ ¹	■ ¹	■	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ^{1,4}	■ ^{1,4}	■ ²	■ ¹
LPM			■ ¹	■ ¹	■ ¹	■ ¹	■	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ^{1,4}	■ ^{1,4}	■ ²	■ ¹
LPMG			■ ¹	■ ¹	■ ¹	■ ¹	■	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ^{1,4}	■ ^{1,4}	■ ²	
WG			■ ³	■ ³	■ ³	■ ³								■ ³		■ ³	■ ³
FWG								■	■	■	■	■					
SMB18			■ ^{1,5}			■ ^{1,5}		■ ^{1,5}	■ ^{1,5}	■ ^{1,5}	■ ^{1,5}	■ ^{1,5}	■ ^{1,5}				■ ^{1,5}
SMB24			■ ^{1,5}	■ ^{1,5}	■ ^{1,5}	■ ^{1,5}		■ ^{1,5}	■ ^{1,5}	■ ^{1,5}	■ ^{1,5}	■ ^{1,5}	■ ^{1,5}				■ ^{1,5}
TMB30			■ ¹			■ ¹		■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹				■ ¹
TMB48			■ ¹	■ ¹	■ ¹	■ ¹		■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹				■ ¹
WB															■	■	
SCK			■	■	■	■	■	■	■	■	■	■	■	■	■		■
SCK84			■	■	■	■	■	■	■	■	■	■	■	■	■		■
SCK108			■	■	■	■	■	■	■	■	■	■	■	■	■		■

- PPH** Pendant power hook (specify voltage)
- PPHKR** Pendant power hook for KiloWatch (specify voltage)
- TPH** Thru-wire power hook (specify voltage)
- TPHKR** Thru-wire power hook for KiloWatch (specify voltage)
- UPM** Universal power module (specify voltage)
- UPM1** Universal power module/hook adapter (specify voltage)
- HKF** Fixture hook, female
- HKM** Fixture hook, male
- HKMG** Grommeted fixture hook, male
- LPF** Fixture loop, female
- LPM** Fixture loop, male
- LPMG** Grommeted fixture loop, male
- WG** Wireguard (specify reflector/refractor size)
- FWG** Full wireguard
- SMB18** 18" single-mounting bar
- SMB24** 24" single-mounting bar
- TMB30** 30" twin-mounting bar
- TMB48** 48" twin-mounting bar
- WB** Wall-mounting bracket
- SCK** 60" safety-chain kit
- SCK84** 84" safety-chain kit
- SCK108** 108" safety-chain kit

NOTES:

- 1 Not UL listed for wet location.
 - 2 Requires PSB option.
 - 3 Shipped on lens assembly.
 - 4 Requires PM option.
 - 5 Requires remote option.
- Painted items will be white unless noted.*

Optional Architectural Colors available

DNA Natural Aluminum	DBL Black
DSB Steel Blue	DWH White
DMB Medium Bronze	DGC Charcoal Gray
DTG Tennis Green	DBR Bright Red
DSS Sandstone	DDB Dark Bronze

■ = OPTION AVAILABLE

	TPG	TPGE	TPG shrouded	TPGE shrouded	SPG	THR	THR	SH PA22	TE	THV	SH A14	THP	THS	SH A16
Standard Packaging	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Component Packaging	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Unitized Packaging			■	■									■	

	THC	SH A15	TXR PA22GLE	TXR PA22ALE	TXR PA22C/PA25D	TXF	TXV A125/A165	TXL/TXP	TXS	TXC	SX A23	TGL	TGR	TG
Standard Packaging	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Component Packaging	■	■	■	■	■	■	■	■	■	■	■			
Unitized Packaging	■									■				

To accommodate the product's physical configuration as well as a range of customer handling and processing needs, alternative ordering/packaging methods are available.

Example: (21) THS 400M A16 TB

**1) Standard Packaging
(Optimized form)**

To order, use single master catalog number shown in example above. **Fixtures ship** as multiple components using optimized packaging. Example ships as:

- (Qty 21) **TH 400M TB HSG**
(21 housing cartons)
- (Qty 12) **A16 J12**
(1 carton of 12 reflectors)
- (Qty 8) **A16 J4**
(2 cartons of 4 reflectors)
- (Qty 1) **A16 U**
(1 carton of 1 reflector)

2) Component Packaging

To order, specify package multiples you prefer (using component designations from list at left). **Fixtures ship** as separate components in package multiples you choose. Example orders and ships as:

- (Qty 21) **TH 400M TB HSG**
(21 housing cartons)
- (Qty 20) **A16 J4**
(5 cartons of 4 reflectors)
- (Qty 1) **A16 U**
(1 carton of 1 reflector)

**Canadian shipments:
Add CSA as suffix to catalog number**

**3) Unitized Packaging
(single cartons)**

To order, change designation THC to THD. Example above is ordered as: (21) **THD 400M A16G TB**. **Fixtures ship** complete in single cartons. (Example ships as 21 cartons, each with 1 housing and 1 reflector). Some models available:

- THD 250S A16 TB** **THD 250S A16 480**
- THD 400S A16 TB** **THD 400S A16 480**
- THD 400M A16 TB** **THD 400M A16 480**

Consult factory for other options. Example: THD 400M A16 TB LPI. To include lamp in package, add suffix LPI.

Intended Use

Use in low mounting height areas that require optimum horizontal illumination with brightness control in hard ceiling and T-bar applications. Ideal for office, retail and commercial areas.

Features

Housing – 20-gauge steel housing with high-reflectance, white polyester powder paint.

Ballast – Copper wound and 100% factory tested. Rewired 7', 16-gauge leads and 90° connector, no flex. High Power Factor, constant-wattage autotransformer.

Optics – Anodized aluminum top reflector. Prismatic tempered glass lens. Horizontal units contain heat-treated glass refractor mounted below lamp to control brightness. G1: Painted floating aluminum door with black reveal. Door attaches to housing as-

sembly using T-hinges and two opposing cam latches for positive retention. G2: Full Door Assembly. G3: Rough Service Door Assembly. Coated lamps provide optimum performance.

Installation – 2' nominal aperture. Power door contains all electrical components (Thermally activated insulation detector included). G1 and G2 power door swings down for easy access or can be removed for servicing. G3 uses four Phillips flat-head retaining screws for positive retention. Overlapping flange available (GF).

Socket – Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. Position-oriented socket on metal halide horizontal units.

Listings – UL Listed. CSA Certified. UL listed for recessed mounting and damp locations.



Example: **G1 175M RW T73 120**

Ordering Information

Series	Wattage/lamp ²		Door frame		Shielding		Voltage	Options/ Accessories
<u>Horizontal lamp¹</u>	<u>Metal Halide</u>	<u>High Pressure Sodium</u>	RW	Regressed white aluminum	T73	Tempered prismatic glass lens	120	See page 405
G1	175M³		RM	Regressed matte black aluminum	84Y	Holophane #8224Y lens	208	
G2	200M⁴	150S	FW	Flush white aluminum	A12	Prismatic acrylic lens	240	
G3	250M⁵	250S	FM	Flush matte black aluminum	T8A	Triumph acrylic TR800A lens ⁷	277	
GF1	320M⁴		FS	Flush white steel ⁶	T8P	Triumph polycarbonate TR800P lens ⁷	347	
GF2	350M⁴						TB⁸	
GF3	400M⁵							
<u>Vertical lamp</u>								
G1V								
G2V								
G3V								
GF1V								
GF2V								
GF3V								

	Door Frames		
	G1	G2	G3
RW	Standard	Option	Option
RM	Option	Option	Option
FW	Option	Option	Standard
FM	Option	Option	Option
FS	N/A	Standard	N/A

NOTES:

- Position-oriented socket standard on metal halide luminaires.
- Mogul-base lamps required. Coated lamps recommended.
- If ordered with SCWA and LLRPSL option, available only with vertically lamped luminaires.
- Available only when ordered with SCWA and LLRPSL option.
- Order with SCWA and LLRPSL option if pulse start lamps are required.
- Available with G2 and G2V luminaires only.
- Available with G2 luminaire only.
- Multi-tap ballast. US: 120, 208, 240, 277V. Canada: 120, 277, 347V.

Lamp Data		
Wattage/ lamp type	Lithonia Lighting Lamp Nomenclature	
	Horizontal lamp	Vertical lamp
150S	LU150C	LU150C
250S	LU250C	LU250C
175M	MS175C/H	MS175C/BU
200M	MS200C/U PSL	MS200C/BU
250M	MS250C/H	MS250C/BU
250M	MS250C/BUH PSL	MS250C/BU PSL
320M	MS320R/C/U PSL	MS320R/C/U PSL
350M	MS350R/C/U PSL 3K	MH350C/BUD PSL
400M	MS400C/H	MS400C/BU
400M	MH400R/C HOR PSL VE	MS400C/BU PSL

STANDARD PACKAGING

Fixtures ship complete in unit cartons only. Example:
(Qty 13) **G1 175M RW T73 120** (13 cartons of 1 fixture)

Accessories ship separately.

2' x 2' Recessed Squares

GP

Parabolic Louvers



Intended Use

Use in areas that require optimum horizontal illumination with superior brightness control. Ideal for open office, retail and commercial areas.

Features

Housing—20-gauge steel housing with high-reflectance, white polyester powder paint.

Ballast—Copper wound and 100% factory tested. Prewired 7', 16-gauge leads and 90° connector, no flex. High power factor, constant-wattage autotransformer. UL 1029 listed.

Optics—Specular clear parabolic 16-cell or 9-cell, 4" deep aluminum louvers float in the middle of a black reveal with clear tempered glass overlay. Coated lamps provide optimum performance.

Installation—2' nominal aperture. Power door contains all electrical components. (Thermally activated insulation detector included.) Power door swings down for easy access or can be removed for servicing.

Socket—Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. Position-oriented socket on horizontal units.

Listings—UL Listed. CSA Certified. UL listed for recessed mounting and damp locations.

Ordering Information

Example: **GP 175M 9A 120**

Series	Wattage/lamp ²	Specular louver	Voltage	Options/ Accessories
GP Horizontal lamp ¹	<u>Metal Halide</u>	<u>16 cells</u>	120	See page 405
GPV Vertical lamp	175M ³	16A Specular clear	208	
	200M ⁴	16C Champagne gold	240	
	250M ⁵	16G Gold	277	
	320M ⁴	<u>9 cells</u>	347	
	350M ⁴	9A Specular clear	TB ⁶	
	400M ⁵	9C Champagne gold		
	<u>High Pressure Sodium</u>	9G Gold		
	150S			
	250S			

NOTES:

- 1 Position-oriented socket standard on metal halide luminaires.
- 2 Mogul-base lamps required. Coated lamps recommended.
- 3 If ordered with SCWA and LLRPSL option, available only with vertically-lamped luminaires.
- 4 Available only when ordered with SCWA and LLRPSL option.
- 5 Order with SCWA and LLRPSL option if pulse start lamps are required.
- 6 Multi-tap ballast. US: 120, 208, 240, 277V. Canada: 120, 277, 347V.

STANDARD PACKAGING

To order, use single master catalog number. Example: (21) **GP 175M 9A 120**

Housings and door assemblies ship separately in unit cartons. Example above ships as:

(Qty 21) **GP 175M 120 HSG** (21 cartons of 1 housing)
(Qty 21) **GP 9AGLU** (21 cartons of 1 door assembly)

Wattage/ lamp type	Lithonia Lighting Lamp Nomenclature	
	Horizontal lamp	Vertical lamp
150S	LU150C	LU150C
250S	LU250C	LU250C
175M	MS175C/H	MS175C/BU
200M	MS200C/U PSL	MS200C/BU
250M	MS250C/H	MS250C/BU
250M	MS250C/BUH PSL	MS250C/BU PSL
320M	MS320R/C/U PSL	MS320R/C/U PSL
350M	MS350R/C/U PSL 3K	MH350C/BUD PSL
400M	MS400C/H	MS400C/BU
400M	MH400R/C HOR PSL VE	MS400C/BU PSL

GS

Round Reflector

Intended Use

Use in areas that require illumination with brightness control. Ideal for retail and other commercial areas.

Features

Housing – GS (flat pan) is finished in textured polyester white powder paint.

Ballast – Electrical components factory-assembled to the pan and ready to lay in a 2' x 2' grid ceiling. (Thermally activated insulation detector included.) GS has a separate component compartment to reduce noise while dissipating heat. 100% factory tested. Prewired, 7', 16-gauge leads, no flex. High power factor, constant-wattage autotransformer. UL 1029 listed.

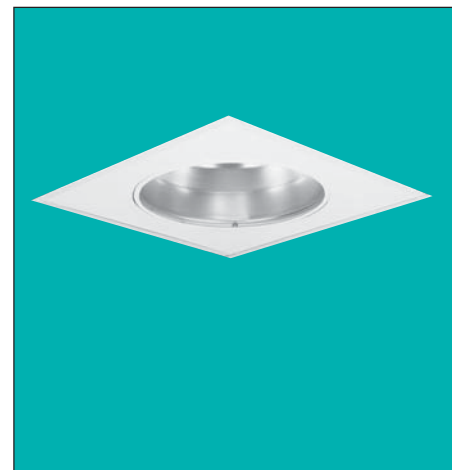
Optics – One-piece, semi-specular, spun aluminum reflector. Exclusive design with extended shielding provides wide distribu-

tion with minimal brightness. Spun steel door is painted white with clear tempered glass lens. Coated lamps provide optimum performance.

Installation – 2' nominal aperture.

Socket – Mogul-base or medium-base porcelain socket with copper alloy, nickel-plated screw shell and center contact.

Listings – UL Listed. CSA Certified. UL listed for recessed mounting and damp locations.



Ordering Information

Example: **GS 175M 120**

Series	Wattage/lamp ¹	Voltage	Options/Accessories														
GS Vertical lamp, flat pan, round reflector	<table border="1"> <thead> <tr> <th>Metal Halide</th> <th>High Pressure Sodium</th> </tr> </thead> <tbody> <tr> <td>175M²</td> <td>150S</td> </tr> <tr> <td>200M³</td> <td>250S</td> </tr> <tr> <td>250M²</td> <td></td> </tr> <tr> <td>320M³</td> <td></td> </tr> <tr> <td>350M³</td> <td></td> </tr> <tr> <td>400M²</td> <td></td> </tr> </tbody> </table>	Metal Halide	High Pressure Sodium	175M ²	150S	200M ³	250S	250M ²		320M ³		350M ³		400M ²		120 208 240 277 347 TB⁴	See page 405
Metal Halide	High Pressure Sodium																
175M ²	150S																
200M ³	250S																
250M ²																	
320M ³																	
350M ³																	
400M ²																	

Lamp Data		
Wattage/ lamp type	Lithonia Lighting Lamp Nomenclature	
	Horizontal lamp	Vertical lamp
150S	LU150C	LU150C
250S	LU250C	LU250C
175M	MS175C/H	MS175C/BU
200M	MS200C/U PSL	MS200C/BU
250M	MS250C/H	MS250C/BU
250M	MS250C/BUH PSL	MS250C/BU PSL
320M	MS320R/C/U PSL	MS320R/C/U PSL
350M	MS350R/C/U PSL 3K	MH350C/BUD PSL
400M	MS400C/H	MS400C/BU
400M	MH400R/C HOR PSL VE	MS400C/BU PSL

NOTES:

- 1 Mogul-base lamps required. Coated lamps recommended.
- 2 Order with SCWA and LLRPSL option if pulse start lamps are required.
- 3 Available only when ordered with SCWA and LLRPSL option.
- 4 Multi-tap ballast. US: 120, 208, 240, 277V. Canada: 120, 277, 347V.

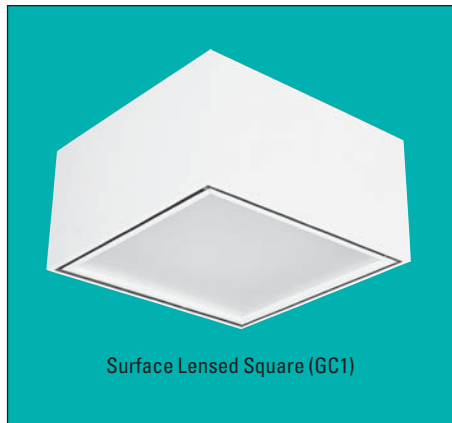
STANDARD PACKAGING

Fixtures ship complete in unit cartons only. Example:
(Qty 13) **GS 175M 120** (13 cartons of 1 fixture)

Accessories ship separately.

GC

Lensed Refractor



Surface Lensed Square (GC1)

Ordering Information

Series	Wattage/lamp
<u>Horizontal lamp</u>	<u>Metal Halide³</u>
GC1 ¹	50M
GC13 ²	70M
<u>Vertical lamp</u>	100M
GC15 ¹	175M
	250M
	400M
	<u>High Pressure Sodium</u>
	50S ⁴
	70S ⁶
	100S
	150S
	250S

- NOTES:
- 1 Mogul-base lamp required. Coated lamp recommended.
 - 2 Medium-base lamp required. Coated lamp recommended.
 - 3 Position-oriented socket provided for GC1 metal halide.
 - 4 Not available in 347V.
 - 5 GC1 only.

STANDARD PACKAGING
 Fixtures ship complete in unit cartons only. Example:
 (Qty 13) **GC1 175M RW T73 120** (13 cartons of 1 fixture)
 Accessories ship separately.

2' x 2' Surface Squares

Intended Use
 Use in areas that require illumination with brightness control. Ideal for retail and other commercial areas.

Features
 Housing – Aluminum housing utilized on GC13 and GC15. Steel housing utilized on GC1. All housings finished with white polyester powder paint. Black painted steel top pan separates fixture from ceiling providing floating fixture appearance.

Door/Lens – Regressed aluminum door finished to match housing with tempered prismatic glass lens. Torsion support springs utilized to retain door/lens assembly on GC13 and GC15. Pin-hinges and opposing cam latches utilized to retain door/lens assembly on GC1.

Electrical System – 100% factory tested. Prewired, high power factor, core and coil ballast. Mogul-base or medium-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. GC1 metal halide fixtures provided with position-oriented socket.

Optical System – Pyramidal shaped, semi-specular aluminum reflector. Coated lamps provide optimum performance.

Listings – UL Listed. CSA Certified. UL listed for damp locations.

Example: **GC1 175M RW T73 120**

Door frame ⁵	Shielding ⁵	Voltage	Options/ Accessories
RW Regressed white aluminum	T73 Tempered prismatic glass lens	120	See page 405
		208	
		240	
		277	
		347	
		TB	

Series	Wattage/lamp	Square	Height
GC13	50/70/100M, 50/70/100S	12-3/4 (32.4)	8 (20.3)
GC15	175/250M, 100/150S	15-1/8 (38.4)	11 (27.9)
GC1	175/250/400M, 150/250S	24-1/4 (61.6)	13-1/2 (34.3)

Lamp Data		
Wattage/lamp type	Lithonia Lighting Lamp Nomenclature	
	Horizontal lamp	Vertical lamp
150S	LU150C	LU150C
250S	LU250C	LU250C
175M	MS175C/H	MS175C/BU
200M	MS200C/U PSL	MS200C/BU
250M	MS250C/H	MS250C/BU
250M	MS250C/BUH PSL	MS250C/BU PSL
320M	MS320R/C/U PSL	MS320R/C/U PSL
350M	MS350R/C/U PSL 3K	MH350C/BUD PSL
400M	MS400C/H	MS400C/BU
400M	MH400R/C HOR PSL VE	MS400C/BU PSL

G Series Options

<i>Shaded area indicates availability – shipped installed</i>		G1	G1V	G2	G2V	G3	G3V	GP	GPV	GS	GC1	GC13	GC15
TRW	White flange trim. Baked-on satin enamel finish	Std	Std	Std	Std	Std	Std			Std	Std		
SSC	Standard selector cable (Lithonia Reloc)												
SF	Single fuse. 120/277/347V only. N/A multi-tap ballast												
DF	Double fuse. 280/240/480V only. N/A multi-tap ballast												
QRS	Quartz restrike system (D.C. base)												
QRSTD	Quartz restrike system w/time delay												
EC	Emergency circuit (D.C. base)												
WG	Wireguard												
TA	Top access												
PWS1636	Prewired with 16-gauge leads, 6' flex												
PWS1436	Prewired with 14-gauge THHN leads, 6' flex												
PWS1636X	Prewired with 16-gauge leads, no flex	Std	Std	Std	Std	Std	Std	Std	Std	Std			
PWS1436X	Prewired with 14-gauge THHN leads, no flex												
220/50HZ	220V/50 Hertz ballast (consult factory)												
DBL	Black housing finish									1	1	1	
DDB	Dark bronze housing finish										1	1	1
DMB	Medium bronze housing finish									1	1	1	
WL	Wet location												
SCWA	Super CWA Pulse Start ballast												
LLRPSL	Linear Reactor Pulse Start ballast												
KW1	KiloWatch 120V control relay. 50% wattage reduction												
KW4	KiloWatch 277V control relay. 50% wattage reduction												
KW150	KiloWatch 120V control relay. 50% light (lumen) reduction												
KW450	KiloWatch 277V control relay. 50% light (lumen) reduction												

NOTES:

1 Includes door frame.

G Series Accessories

<i>Shaded area indicates availability – shipped separately</i>		G1	G1V	G2	G2V	G3	G3V	GP	GPV	GS	GC1	GC13	GC15
TCPF	Plaster frame	1	1	1	1	1	1						
HTC	Earthquake clips	2	2	2	2	2	2	2	2	2			
RB	3" regressed smooth baffle, black polyester powder paint	3	3	3	3					3			
RMB	2" regressed grooved baffle, matte black paint	3	3	3	3					3			
EPS 13GC	13" steel extension pan											4	
EPS 15GC	15" steel extension pan												4
EPS 24GC	24" steel extension pan										4		
WG12	Wireguard (for grid ceiling)	5	5	5	5	5	5	5	5	5			
TPS	Tamperproof screws												

NOTES:

- Available flange trim units only.
- Available T-bar ceiling units only.
- Not available G2 Triumph lensed units.
- For use in surface conduit installations.
- Available T-bar ceiling units only (not available Triumph lensed units).

ROUGH SERVICE

Rough Service

Lithonia Lighting offers a full range of Rough Service fixtures designed to withstand both physical and environmental abuses, from the extreme intent-to-destroy to minor impacts.

These fixtures are ideal for high-risk applications such as schools, recreational areas, institutions, apartment complexes, train and bus stations, parking garages and government buildings.



CONTENTS



Architectural

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VGR Gateway™

Intended Use

Architectural luminaires for general illumination in rough service (vandal-resistant) applications. Ideal for interior or exterior applications where safety and security are a concern.

Features

Bezel – One-piece, die-cast aluminum, low copper alloy (<1% copper), .125" thick. Secured to housing with stainless steel Torx® T-10 set screws.

Finish – Standard finish is textured polyester powder coat.

Housing – One-piece, die-cast aluminum, low copper alloy (<1% copper), post-painted in polyester powder coat. For use directly over outlet box or conduit entry (1/2" and 3/4" threaded opening).

Lens – Translucent white, injection-molded, UV-stabilized polycarbonate, .125" thick. Smooth exterior for easy cleaning. Interior pattern diffuses light for uniform

surface illumination. Optional borosilicate glass lens available (.250" thick).

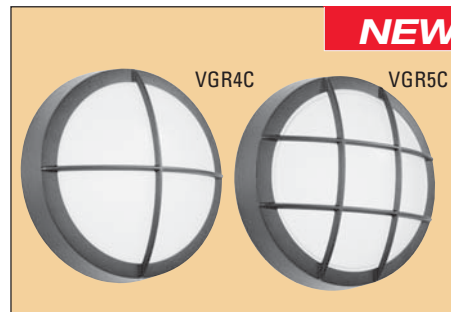
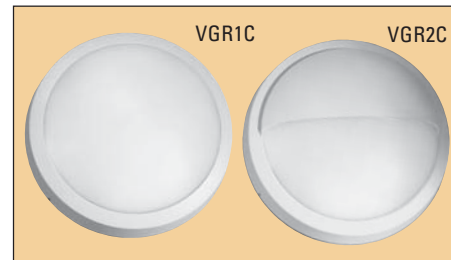
Reflectors – Lamps positioned for uniform brightness and illumination. HID reflectors are semi-specular aluminum. Fluorescent reflectors are high-gloss white powder coat finish for maximum light output.

Gasket – Polycarbonate: Perimeter lens gasket is one-piece silicone "O" ring. Glass: Perimeter lens gasket is closed-cell silicone. Pad mounting gasket (closed-cell neoprene) seals housing to mounting surface.

Ballast – HID: High Reactance, HPF, starting temp. -20°F (MH) or -40°F (HPS). CFL: Class P, Electronic, HPF multi-volt. Starting temp. 0°F.

Socket – HID: medium-base 4KV Rated porcelain. CFL: high-temperature thermoplastic with lamp retention clip.

Listings – UL Listed to US and Canadian safety standards (see Options). UL listed for 25°C ambient and wet locations. IP65 rated.



Ordering Information

Example: **VGR1C 50M 120 GL DSPH SF LPI**

Series	Lamp type	Voltage	Paint finishes ⁷	Options	Lamps ¹⁷
Deep Profile	Double	120	Std. Textured Colors	ADEZ Advance Mark X electronic dimming ballast ^{8,9}	LPI Lamp(s) included (standard)
VGR1C 6.7" deep	Twin-tube	208	DWHG White	DMHL Lutron Hi-Lume electronic dimming ballast ^{8,9}	L/LP Less lamp(s)
VGR2C 6.9" deep	13DTT ¹	240	DBLB Black	DF Double fuse (208V, 240V) ^{4,8}	
VGR4C 7" deep	2/13DTT	277	DBBT Dark Bronze	DS Dual switching	
VGR5C 6.9" deep	18DTT	347	DNAT Natural Alum.	EC Emergency circuit (Incandescent, 25W max.) ^{10,11}	
	2/18DTT	TB ^{3,4}	DSST Sandstone	ELDW Emer. lighting (750 max. lumens) ^{8,12,13}	
	26DTT	MVOLT ^{5,6}	Opt. Textured Colors	GLR Internal fast-blow fusing ^{6,8}	
	2/26DTT		DBNH Bronze	GMF Internal slow-blow fusing ^{6,8}	
			DSPD Dark Gray	NL Night-light (7W max.) ^{10,11,14}	
			DSPE Green	PE Photoelectric cell ⁸	
			DSPG Dark Red	QRS Quartz restrrike system ^{4,11}	
			DSPF Rust	SF Single fuse (120V, 277V) ^{4,8}	
			DSPH Red	TRS Tamper-resistant screws ¹⁵	
			DSPJ Light Grey	VGRDS Decorative shroud ¹⁶	
				CSA Listed/labeled to comply with Canadian stds	

NOTES:

- Not available with 347V.
- Low UV lamp is included and recommended for replacement.
- Multi-tap ballast-US: 120, 208, 240, 277V; Canada: 120/347.
- Available for HID units only.
- Multi-volt electronic ballast (for DTT and TRT lamps) capable of operating on any line voltage between 120V and 277V.
- Available for compact fluorescent only.
- For additional colors, see Architectural Paint brochure.
- Must specify voltage. Not available with MVOLT or TB.
- Available with 26DTT and all single TRT lamps; excludes 42TRT.
- Maximum wattage lamp included.
- Available for single-lamp units only.
- 42TRT max. wattage.
- Available as ceiling mount only for VGR1C, VGR4C and VGR5C
- 120V only.
- T-20 screws with center reject pin.
- Color will be the same as the bezel.
- Lamp included unless L/LP is specified.
- Must specify color (Example: VGRDS DWHG).

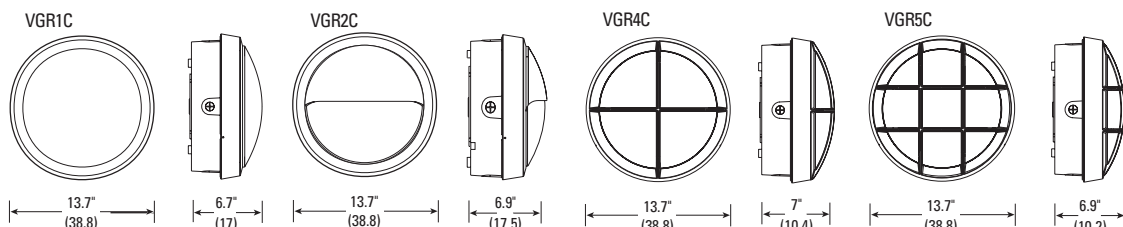
Dimensions are shown in inches (centimeters) unless otherwise noted.

Lens
(blank) Polycarbonate
GL Borosilicate glass

Lamp/Fixture Data				
Watts	Ballast	Weight Lbs	Lamp Base	
FLUORESCENT				
13W	Electromagnetic, NPF	8.50	GX23	
18W	Electronic, HPF	8.50	G24q-2	
26W	Electronic, HPF	8.50	G/GX24q-3	
32W	Electronic, HPF	8.50	GX24q-3	
42W	Electronic, HPF	8.55	GX24q-4	
HIGH PRESSURE SODIUM				
50W	HX-HPF	16.30	Med.	
70W	HX-HPF	12.80	Med.	
METAL HALIDE				
50W	HX-HPF	11.40	Med.	

Accessories (Order separately)

- RK1 T10DRV** Torx TX10 screwdriver for Gateway set screws.
- RK1 T20BIT** Torx TX20 hex-base driver bit for TRS option.
- RK1 T20DRV** Torx TX20 screwdriver for TRS option.
- VGRDS** Decorative shroud¹⁸



VGO

Gateway™

Intended Use

Architectural luminaires for general illumination in rough service (vandal-resistant) applications. Ideal for interior or exterior applications where safety and security are a concern.

Features

Bezel – One-piece, die-cast aluminum, low copper alloy (<1% copper), .125" thick. Secured to housing with stainless steel Torx® T-10 set screws (two included).

Finish – Standard finish is textured polyester powder coat.

Housing – One-piece, die-cast aluminum, low copper alloy (<1% copper), post-painted in polyester powder coat. For use directly over outlet box or conduit entry (1/2" and 3/4" threaded opening).

Lens – Translucent white, injection-molded, UV-stabilized polycarbonate, .125" thick. Smooth exterior for easy cleaning. Interior pattern diffuses light for uniform

surface illumination. Optional borosilicate glass lens available (.250 inch thick)

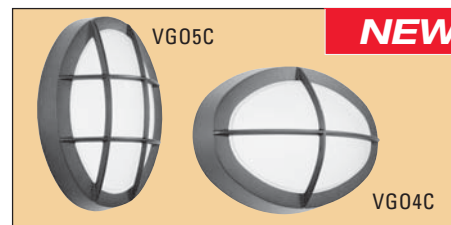
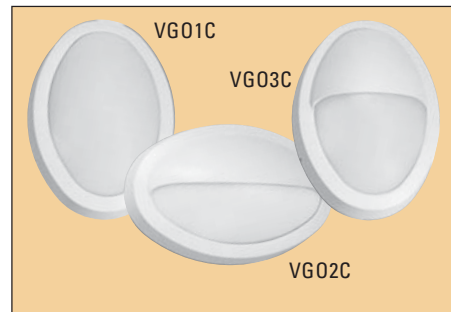
Gasket – Polycarbonate: Perimeter lens gasket is one-piece silicone "O" ring. Glass: Perimeter lens gasket is closed-cell silicone. Pad mounting gasket (closed-cell neoprene) seals housing to mounting surface.

Reflectors – Lamps positioned for uniform brightness and illumination. High-gloss white powder coat finish for maximum light output.

Ballast – HID: High Reactance, HPF, starting temp. -20°F (MH) or -40°F (HPS). CFL: Class P, Electronic, HPF multi-volt. Starting temp. 0°F.

Socket – HID: medium-base 4KV porcelain. CFL: high-temperature thermoplastic with lamp retention clip.

Listings – UL Listed to US and Canadian safety standards (see Options). UL listed for 25°C ambient and wet locations. IP65 rated.



Ordering Information

Example: **VG01C 50S 120 DSPD PE LPI**

Series	Lamp type	Voltage	Paint finishes ⁷	Options	Lamps ¹³
VG01C	6.7" Deep <u>Double twin-tube</u> 13DTT¹	120	<u>Std. Textured Colors</u>	ADEZ Advance Mark X electronic dimming ballast ^{8,9}	LPI Lamp(s) included
VG02C	6.9" Deep 18DTT	208	DWHG White	DMHL Lutron Hi-lume electronic dimming ballast ^{8,9}	(standard)
VG03C	6.9" Deep 26DTT	240	DBLB Black	DF Double fuse (208V, 240V) ^{4,8}	L/LP Less lamp(s)
VG04C	7" Deep <u>Triple-tube</u> 32TRT	277	DDBT Dark Bronze	DS Dual switching	
VG05C	6.9" Deep 26TRT	347	DNAT Natural Alum.	EC Emergency circuit (Incandescent, 25W max.) ¹⁰	
	32TRT	TB^{3,4}	DSST Sandstone	GLR Internal fast-blow fusing ^{6,8}	
	42TRT	MVOLT^{5,6}	<u>Opt. Textured Colors</u>	GMF Internal slow-blow fusing ^{6,8}	
	<u>High Pressure Sodium</u> 50S	Lens	DBNH Bronze	NL Night-light (Incandescent, 7W max.) ^{10,11}	
	<u>Metal Halide²</u> 50M	(blank) Polycarbonate	DSPD Dark Gray	PE Photoelectric cell ⁸	
		GL Borosilicate glass ³	DSPE Green	QRS Quartz restrrike system ^{4,10}	
			DSPG Dark Red	SF Single fuse (120V, 277V) ^{4,8}	
			DSPF Rust	TRS Tamper-resistant screws ¹²	
			DSPH Red	CSA CSA certified	
			DSPJ Light Grey		

NOTES:

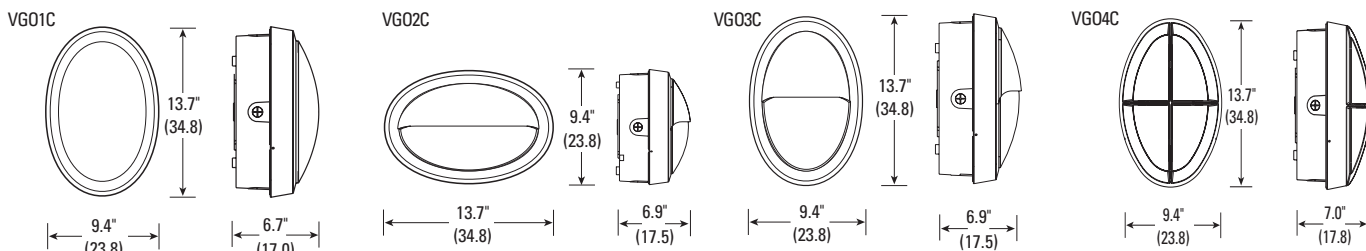
- Not available with 347V.
- Low-UV lamp included (recommended for replacement).
- Multi-tap ballast-US: 120, 208, 240, 277V; CA:120/347V
- Available for HID units only.
- Multi-volt electronic ballast (for DTT and TRT lamps) capable of operating on any line voltage 120- 277V.
- Available for compact fluorescent units only.
- For additional colors, see Architectural Paint Brochure.
- Must specify voltage. Not available with MVOLT or TB.
- Available with 26DTT and all TRT lamps; excludes 42TRT.
- Maximum wattage lamp included.
- 120V only.
- T-20 screws with center reject pin.
- Lamp(s) included unless L/LP is specified.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

Lamp/Fixture Data			
Watts	Ballast	Weight Lbs	Lamp Base
FLUORESCENT			
13W	Electronic, HPF	9.80	G24q-2
18W	Electronic, HPF	9.80	G/GX24q-3
26W	Electronic, HPF	9.80	GX24q-3
32W	Electronic, HPF	9.80	GX24q-4
HIGH PRESSURE SODIUM			
50W	HX-HPF	16.30	Med.
METAL HALIDE			
50W	HX-HPF	11.40	Med.

Accessories (Order separately)

- RK1 T10DRV** Torx TX10 screwdriver for Gateway set screws.
- RK1 T20BIT** Torx TX20 hex-base driver bit for TRS option.
- RK1 T20DRV** Torx TX20 screwdriver for TRS option.



VR1 VR2



Steel Backplate, Rectangular

Intended Use

General illumination for rough service (vandal-resistant) applications. Ideal for applications that require adequate light capabilities for safety and security.

Features

Lens – VR1: White opal UV-stabilized polycarbonate, nominal thickness .125", softens light across entire surface. **VR2:** Clear prismatic UV-stabilized polycarbonate, nominal thickness .125". Smooth exterior for easy cleaning. Stainless steel tamper-resistant Torx® T20 screws or standard stainless steel slotted hex-head screws (two of each included).

Backplate – Heavy-duty, 16-gauge cold-rolled steel. White polyester powder coat for high reflectance, durability and corrosion resistance. Backplate insulated with 1" thick fiberglass. Closed-cell neo-

prene gasket seals out moisture and contaminants.

Ballast – Electromagnetic ballast is NPF with starting temperature of 0°F.

Socket – Fluorescent: thermoplastic socket. Incandescent: unglazed porcelain snap-in socket with aluminum screw shell. Spring-loaded steel clips hold socket tightly in place.

Lamps – 35K Fluorescent lamp included unless L/LP is specified.

Installation – Can be wall or ceiling mounted. Backplate suitable for outlet box mounting. For maximum vandal resistance, mount unit to structure through four knockouts provided.

Listings – UL Listed (standard). CSA Certified (see Options). UL listed for 25°C ambient and wet locations for wall mount or in covered ceiling applications.

Ordering Information

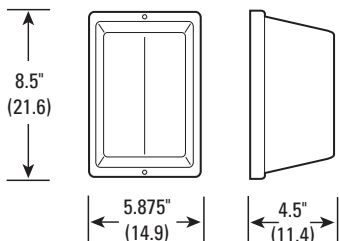
Example: **VR1 120 AL**

Series	Lamp type	Voltage ²	Lens type	Options	Lamps ⁵
VR1 Opal lens	(blank) Incandescent ¹	120	(blank) VR1: White Opal	AL Aluminum backplate	LPI Lamp included (standard)
VR2 Clear prismatic lens	7TT 7W Fluorescent twin-tube		VR2: Clear Prismatic	EC Emergency circuit (Incandescent, 25W max.) ³	L/LP Less lamp
			HBE Horizontal black eyelid	GLR Internal fast-blow fusing ²	
			PBT Perimeter black trim	GMF Internal slow-blow fusing ²	
			VBE Vertical black eyelid	IHR Internal horizontal reflector	
				IR Internal reflector	
				NL Night-light (Incandescent, 7W max.) ³	
				XT Low energy diode extended lamp life ⁴	
				4S Four screws per unit	
				CSA CSA Certified	

NOTES:

- 1 Maximum wattage: vertical wall mount = 100W, horizontal wall mount = 60W, ceiling mount = 75W.
- 2 Specify for compact fluorescent only.
- 3 Maximum wattage lamp provided.
- 4 Available for incandescent units only.
- 5 Fluorescent lamp included unless L/LP is specified.

Dimensions are shown in inches (centimeters) unless otherwise noted.



Lamp/Fixture Data			
Watts	Ballast	Weight Lbs	Lamp Base
INCANDESCENT			
100W	-	2.40	A19IF
FLUORESCENT			
7W	Electromagnetic, NPF	5.00	G23

Accessories (Order separately)

- RK1 T20BIT** Torx TX20 hex-base driver bit for tamper-resistant screws with center reject pin.
- RK1 T20DRV** Torx TX20 screwdriver for tamper-resistant screws with center reject pin.

VR3 VR4

Intended Use

General illumination for rough service (vandal-resistant) applications. Ideal for interior or exterior applications where safety and security are a concern.

Features

Lens – Clear prismatic, UV-stabilized polycarbonate, nominal thickness .125". Prism optics provide uniformity with maximum spacing-to-mounting height ratios. Torx® T-20 and standard stainless steel slotted hex-head screw (one each included).

Backplate – Heavy-duty, 16-gauge cold-rolled steel. White polyester powder coat for high reflectance, durability, and corrosion resistance. Closed-cell neoprene gasket seals out moisture and contaminants.

Ballast – VR3: electromagnetic, NPF, with

starting temperature of 0°F for 7W and 25°F for 9W.

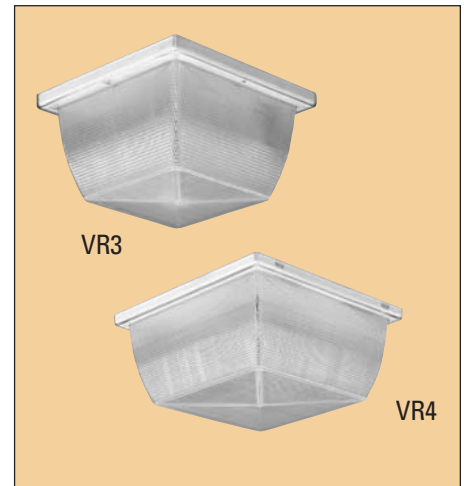
VR4: Class P, Electronic, HPF multi-volt, THD<10%, starting temperature 0°F. Exceptions are 7TT, 9TT, 13TT, 22DTT, 28DTT. Electromagnetic, NPF, 120V only.

Socket – Fluorescent: thermoplastic socket. Incandescent: unglazed porcelain snap-in socket with aluminum screw shell. Spring-loaded steel clips hold socket tightly in place.

Lamps – 35K Fluorescent lamp(s) included unless L/LP is specified.

Installation: Keyhole slots simplify wall or ceiling installation. For maximum vandal resistance, use four-hole mounting pattern.

Listings – UL Listed (standard). CSA Certified (see Options). UL listed for 25°C ambient and wet locations for wall mount or in covered ceiling applications.



Ordering Information

Example: **VR4 26DTT MVOLT AL LPI**

Series	Lamp type	Lens type	Voltage	Options	Lamps ¹³
VR3 8 1/2" x 8 1/2"	<i>VR3:</i> Incandescent ¹	(blank) WP	120	AL Aluminum backplate	LPI Lamp(s) included (standard)
VR4 12" x 12"	<i>VR4:</i> Incandescent ¹	Clear prismatic	277	EC Emergency circuit (Incandescent, 25W max.) ⁹	L/LP Less lamp(s)
	— 2/60W	White polycarbonate	347	DS Dual switching	
	75W ² 2/75W ³		MVOLT ⁹	4S Four screws per unit	
	100W ^{3,4} 100W ⁵			GLR Internal fast-blow fusing ^{10,11}	
	150W ^{3,4} 150W ^{3,5}			GMF Internal slow-blow fusing ^{10,11}	
	Twin-tube ⁶			IR Internal reflector	
	7TT 7TT			NL Night-light (Incandescent, 7W max.) ^{6,9}	
	2/7TT 2/7TT			SM1 Single medium-base socket ⁵	
	9TT 9TT			XT Low-energy diode extended lamp life ¹²	
	2/9TT 2/9TT			CSA CSA Certified	
	— 13TT				
	— 2/13TT				
	Double twin-tube				
	— 13DTT				
	— 2/13DTT				
	— 18DTT				
	— 2/18DTT				
	— 22DTT ^{6,7}				
	— 2/22DTT ^{6,7}				
	— 26DTT				
	— 2/26DTT				
	— 28DTT ^{6,7}				
	— 2/28DTT ^{6,7}				
	Triple-tube				
	— 26TRT				
	— 2/26TRT				
	— 32TRT				
	— 42TRT				

NOTES:

- 1 Leave lamp type information blank.
- 2 Maximum ceiling-mount wattage.
- 3 Wall-mount only.
- 4 Available for base-up wall mounting using an A21 lamp.
- 5 Single socket Incandescent on wall: order **SM1** option.
- 6 120V only.
- 7 2-pin 15mm lamp.
- 8 Multi-volt electronic ballast (for DTT and TRT lamps) capable of operating on any line voltage between 120V and 277V.
- 9 Maximum wattage lamp provided.
- 10 Available for compact fluorescent units only.
- 11 Must specify voltage. Not available with MVOLT.
- 12 Available for Incandescent units only.
- 13 Fluorescent lamp(s) included unless L/LP is specified.

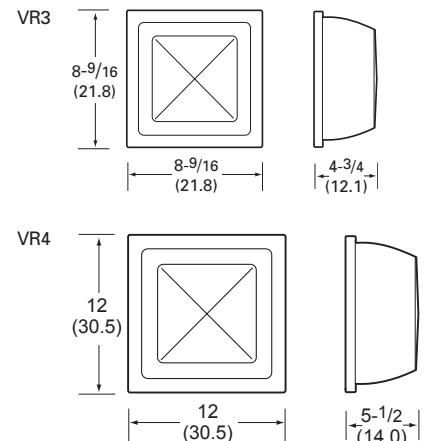
Lamp/Fixture Data			
Watts	Ballast	Weight Lbs	Lamp Base
INCANDESCENT			
60W	—	5.80	A19IF
75W	—	5.50	A19IF
100W	—	5.50	A21IF
150W	—	5.50	A21IF
FLUORESCENT			
7W	Electromagnetic, NPF	5.00	G23
9W	Electromagnetic	5.80	G23
13W	Electromagnetic, NPF	5.45	GX23
13W	Electronic, HPF	5.45	G24q-1
18W	Electronic, HPF	5.60	G24q-2
22W	Electromagnetic, HPF	5.60	GX32d-2
26W	Electronic, HPF	4.65	G/GX24q-3
28W	Electromagnetic, HPF	5.75	GX32d-3
32W	Electronic, HPF	6.00	GX24q-3
42W	Electronic, HPF	6.25	GX24q-4

Accessories

(Order separately)

- RK1 T20BIT** Torx TX20 hex-base driver bit for tamper-resistant screws with center reject pin.
- RK1 T20DRV** Torx TX20 screwdriver for tamper-resistant screws with center reject pin.

Dimensions are shown in inches (centimeters) unless otherwise noted.



VR1B VR2B



Cast Backbox, Rectangular

Intended Use

Decorative luminaire for general illumination of rough service (vandal-resistant) applications. Ideal for applications that require maximum light capabilities for safety and security.

Features

Lens – VR1B/BV/BH: White opal UV-stabilized, injection molded polycarbonate lens, nominal thickness .125". VR2B/BV/BH: Clear prismatic UV-stabilized, injection molded polycarbonate lens, nominal thickness .125".

Smooth exterior for easy maintenance and accented with high-strength Polane® polyurethane coating for hardness, adhesion and abrasion resistance. Lens is secured by two #8-32 stainless steel screws, either tamper-resistant Torx® T-20 or slotted hex-head (two of each included).

Housing – One-piece cast aluminum, finished in black polyester powder coat. One 1/2" opening allows rear conduit entry or covers the outlet box. Two mounting holes for wall mounting.

Lamps – 35K compact fluorescent lamp(s) included unless L/LP is specified.

Ballast – Electronic HPF multi-volt, starting temperature 0°F. Exception: 7TT is Electromagnetic, NPF.

Sockets – Thermoplastic.

Gaskets – Perimeter housing gasket is one-piece, die-cut, closed-cell neoprene to seal out contaminants. Pad mounting gasket of closed-cell neoprene helps keep out moisture, insects and dust from housing.

Listings – UL Listed to US and Canadian safety standards (see Options). UL listed for 25°C ambient and wet locations.

Ordering Information

Example: **VR1B 2/7TT 120 SCB LPI**

Series	Lamp type	Voltage	Options	Lamp ⁸
<u>Opal polycarbonate lens</u>	<u>Twin-tube¹</u>	120	EC Emergency circuit (Incandescent, 25W max.) ^{4,5}	LPI Lamp included (standard)
VR1B Painted lens perimeter	2/7TT	277	GLR Internal fast-blow fusing ⁶	
VR1BV Vertical eyelid	<u>Double twin-tube²</u>	347	GMF Internal slow-blow fusing ⁶	L/LP Less lamp
VR1BH Horizontal eyelid	13DTT	MVOLT³	NL Nightlight (Incandescent, 7W max.) ^{1,4,5}	
<u>Clear prismatic lens</u>	<u>Triple-tube</u>		PE Photoelectric cell ⁶	
VR2B Painted lens perimeter	26TRT		SCB Surface conduit backbox ⁷	
VR2BV Vertical eyelid	32TRT		CSA Listed and labeled to comply with Canadian standards.	
VR2BH Horizontal eyelid				

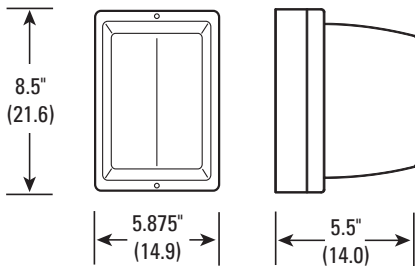
Dimensions are shown in inches (centimeters) unless otherwise noted.

Lamp/Fixture Data			
Watts	Ballast	Weight Lbs	Lamp Base
FLUORESCENT			
7W	Electromagnetic, NPF	5.00	G23
13W	Electronic, HPF	9.80	G24q-1
26W	Electronic, HPF	9.80	G/GX24q-3
32W	Electronic, HPF	9.80	GX24q-3

NOTES:

- 120V only.
- Not available in 347V.
- Multi-volt electronic ballast (for DTT and TRT lamps) capable of operating on any line voltage between 120 and 277 volt.
- Maximum wattage lamp provided.
- Available for single lamp units only.
- Must specify voltage. Not available with MVOLT.
- Replaces standard backbox. UL listed for damp locations.
- Lamp included unless L/LP is specified.

VR1B



Accessories (Order separately)

- RK1 T20BIT** Torx TX20 hex-base driver bit for tamper-resistant screws with center reject pin.
- RK1 T20DRV** Torx TX20 screwdriver for tamper-resistant screws with center reject pin.
- SCB** Surface conduit backbox

VR1C VR2C

Intended Use

General illumination for rough service (vandal-resistant) applications. Ideal for applications that require maximum light capabilities for safety and security.

Features

Lens – VR1C: White opal polycarbonate, UV-stabilized, nominal thickness .125", softens light across entire surface. **VR2C:** Clear prismatic polycarbonate, UV-stabilized, nominal thickness .125". Smooth exterior for easy cleaning. Lens secured by either stainless steel tamper-resistant Torx® T-20 or standard stainless steel slotted hex-head screws (two of each included).

Housing – One-piece, die-cast aluminum, low copper alloy, finished in dark bronze polyester powder coat.

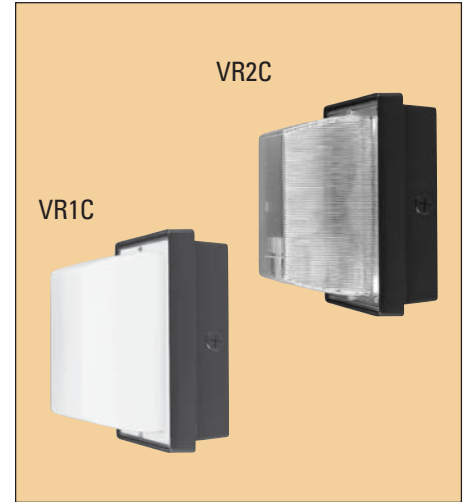
Ballast – Fluorescent: Electronic, HPF multi-volt, starting temperature 0°F. Exception: 22DTT and 28DTT are Electromagnetic, 120V only. HID: NPF for high pressure sodium and HPF for metal halide.

Socket – CFL: Thermoplastic. HID: medium-base porcelain with copper alloy, nickel-plated screw shell and center contact. UL listed 660W, 600V, 4KV pulse rated.

Lamps – 35K lamp(s) included unless L/LP is specified. MH: reduced-UV lamp is standard.

Installation – Wall-mount only for HID. For maximum vandal resistance, use four hole mounting pattern.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options). UL listed for 25°C ambient and wet locations for wall mount or in covered ceiling applications.



Ordering Information

Example: **VR2C 50M 120 IR LPI**

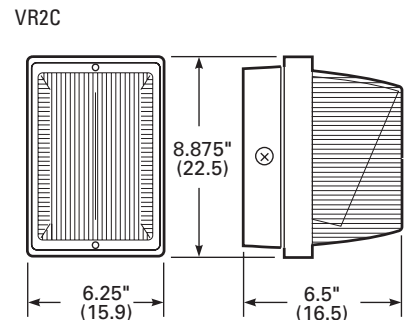
Series	Lamp type		Lens type		Voltage	Options	Lamp ⁹
VR1C Opal lens	<u>Double</u>	<u>High Pressure Sodium</u> ^{1,3}	(blank)	VR1C: White opal	120	EC Emergency circuit (Incandescent, 25W max.) ⁵	LPI Lamp included (standard)
VR2C Clear prismatic lens	<u>twin-tube</u>	<u>Sodium</u> ^{1,3}		VR2C: Clear prismatic	277	GLR Internal fast-blow fusing ^{6,7}	
	13DTT	35S	HBE Horizontal black eyelid		347	GMF Internal slow-blow fusing ^{6,7}	L/LP Less lamp
	18DTT	50S	PBT Perimeter black trim		MVOLT ⁴	IHR Internal horizontal reflector ³	
	22DTT	70S	VBE Vertical black eyelid			IR Internal reflector ³	
	26DTT ^{1,2}	<u>Metal Halide</u> ³				NL Night-light (Incandescent, 7W max.) ^{1,5}	
	28DTT ^{1,2}	50M				PE Photocell ⁷	
	<u>Triple-tube</u>					SF Single fuse (120, 277, 347) ⁸	
	26TRT					CSA CSA Certified	
	32TRT					NOM NOM Certified ⁸	
	42TRT						

NOTES:

- 120V only.
- 2-Pin 15mm lamp.
- Must specify IR or IHR on wall-mount HID units.
- Multi-volt electronic ballast (for DTT and TRT lamps) capable of operating on any line voltage 120-277V.
- Maximum wattage lamp provided.
- Available for compact fluorescent units only.
- Must specify voltage. Not available with MVOLT.
- Available for HID units only.
- Lamp(s) included unless L/LP is specified.

Lamp/Fixture Data			
Watts	Ballast	Weight Lbs	Lamp Base
FLUORESCENT			
13W	Electronic, HPF	5.45	G24q-1
18W	Electronic, HPF	5.45	G24q-2
22W	Electromagnetic, HPF	5.60	GX32d-2
26W	Electronic, HPF	5.75	G/GX24q-3
28W	Electromagnetic, HPF	5.75	GX32d-3
32W	Electronic, HPF	5.75	GX24q-3
42W	Electronic, HPF	5.75	GX24q-4
HIGH PRESSURE SODIUM			
35W	R-NPF	5.75	Med.
50W	R-NPF	5.90	Med.
70W	R-NPF	6.20	Med.
METAL HALIDE			
50W	HX-HPF (120)	6.60	Med.
50W	R-NPF (277)	6.60	Med.

Dimensions are shown in inches (centimeters) unless otherwise noted.



Accessories (Order separately)

- RK1 T20BIT** Torx TX20 hex-base driver bit for tamper-resistant screws with center reject pin.
- RK1 T20DRV** Torx TX20 screwdriver for tamper-resistant screws with center reject pin.

VR3C VR4C VR4CV



Cast Housing, Square

Intended Use

General illumination for rough service (vandal-resistant) applications. Ideal for areas that require higher levels of protection from physical assault, while providing proper illumination for safety or security.

Features

Lens – Clear prismatic polycarbonate, UV-stabilized, nominal thickness .125". Lens secured by stainless steel tamper-resistant Torx® T-20 or standard stainless steel slotted hex-head screws (four each included). One-piece silicone perimeter gasket seals out moisture and contaminants.

Reflector – VR3C, VR4C: horizontal reflector, ceiling-mount or wall-mount (with IR option). VR4CV: vertical reflector, ceiling-mount only.

Housing – One-piece, die-cast aluminum,

low copper alloy, finished in dark bronze polyester powder coat.

Ballast – Fluorescent: Electronic, HPF multi-volt, starting temperature 0°F. (7TT, 22DTT and 28DTT are Electromagnetic, 120V only). HID: High Reactance, HPF (35S is NPF. 175M is Constant-Wattage Autotransformer).

Socket – Fluorescent: horizontally-mounted thermoplastic. HID: medium-base porcelain with copper alloy, nickel-plated screw shell and center contact. UL listed 660W, 600V, 4KV pulse rated.

Installation – Three 1/2" threaded plugs for conduit entry or mount over outlet box. Four mounting holes for maximum vandal resistance.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options). UL listed for 25°C ambient and wet locations for wall mount or in covered ceiling applications.

Ordering Information

Example: **VR3C 32TRT 120 NL LPI**

Series	Lamp type					Voltage	Options	Lamps ¹³
VR3C 8½" x 8½"	VR3C	VR4C	VR3C	VR4C	VR4CV	120	ADEZ Advance Mark X electronic dimming ballast ^{8,9}	LPI Lamp(s) included (standard)
VR4C 12" x 12"	Twin-tube ¹		Triple-tube			208⁴	DMHL Lutron Hi-lume electronic dimming ballast ^{8,9,10}	L/LP Less lamp(s)
VR4CV 12" x 12"	2/7TT	2/7TT	26TRT	26TRT	—	240⁴	SF Single fuse (120, 277, 347V) ^{4,8}	
	2/9TT	2/9TT	2/26TRT	2/26TRT	—	277	DF Double fuse (208, 240, 480V) ^{4,8}	
	—	13TT	32TRT	32TRT	—	347	DS Dual switching	
	—	2/13TT	—	2/32TRT	—	480⁴	QRS Quartz restrike system ^{3,4,11}	
	Double twin-tube		42TRT	42TRT	—	TB^{4,5}	EC Emergency circuit (Incandescent, 25W max) ¹¹	
	13DTT	13DTT	—	2/42TRT	—	MVOLT^{6,7}	NL Night-light (Incandescent, 7W max.) ^{1,11}	
	2/13DTT	2/13DTT	High Pressure Sodium				PE Photocell ⁸	
	18DTT	18DTT	35S¹	35S¹	35S¹		IR Internal reflector ¹²	
	2/18DTT	2/18DTT	50S	50S	50S		GLR Internal fast-blow fusing ^{6,8}	
	22DTT^{1,2}	22DTT^{1,2}	70S	70S	70S		GMF Internal slow-blow fusing ^{6,8}	
	2/22DTT^{1,2}	2/22DTT^{1,2}	100S	100S	100S		CSA CSA Certified	
	26DTT	26DTT	—	—	150S		NOM NOM Certified ⁴	
	2/26DTT	2/26DTT	Metal Halide					
	28DTT^{1,2}	28DTT^{1,2}	50M³	50M³	50M³			
	—	2/28DTT^{1,2}	70M³	70M³	70M³			
			100M	100M	100M			
			—	—	150M³			
			—	—	175M			

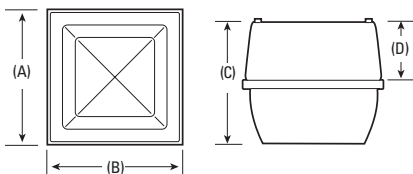
Accessories (Order separately)

RK1 T20BIT Torx TX20 hex-base driver bit for tamper-resistant screws with center reject pin.

RK1 T20DRV Torx TX20 screwdriver for tamper-resistant screws with center reject pin.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	VR3C	VR4C/VR4CV
A. Height:	8½ (21.6)	12 (30.5)
B. Width:	8½ (21.6)	12 (30.5)
C. Overall depth:	7½ (19.1)	9½ (24.1)
D. Housing depth:	3¾ (9.5)	4 (10.2)



NOTES:

- 120V only.
- 2-pin 15mm lamp.
- Not available in 480V.
- Available for HID units only.
- Multi-tap ballast. US: 120, 208, 240, 277V. Canada: 120/347V.
- Available for compact fluorescent units only.
- Multi-volt electronic ballast (for DTT and TRT lamps) capable of operating on any line voltage between 120 and 277V.
- Must specify voltage. Not available with MVOLT or TB.
- Available with 26DTT and all single TRT lamps; excludes 42TRT.
- Available with 2/26TRT - VR4C only.
- Maximum wattage lamp provided.
- HID wall-mounted units require IR option.
- Lamp(s) included unless L/LP is specified.

Lamp/Fixture Data			
Watts	Ballast	Weight Lbs	Lamp Base
FLUORESCENT			
13W	Electromagnetic, NPF	8.50	GX23
18W	Electronic, HPF	8.50	G24q-2
22W	Electromagnetic, HPF	9.00	GX32d-2
26W	Electronic, HPF	8.50	G/GX24q-3
28W	Electromagnetic, HPF	9.30	GX32d-3
32W	Electronic, HPF	8.50	GX24q-3
42W	Electronic, HPF	8.55	GX24q-4
HIGH PRESSURE SODIUM			
35W	R-HPF	13.65	Med.
50W	HX-HPF	16.30	Med.
70W	HX-HPF	12.80	Med.
100W	HX-HPF	14.60	Med.
150W	HX-HPF	11.45	Med.
METAL HALIDE			
50W	HX-HPF	11.40	Med.
70W	HX-HPF	12.80	Med.
100W	HX-HPF	14.95	Med.
150W	HX-HPF	15.85	Med.
175W	CWA	15.40	Mog.

VR4C VR4CV

Induction Lighting System



Intended Use

For areas that require higher levels of illumination and where maintenance is an issue (tunnels, airports, public facilities, freezers). Provides extreme long life for rough service and special environment applications.

Features

Lens – Clear prismatic polycarbonate, UV-stabilized, nominal thickness .125". Lens secured by standard stainless steel slotted hex-head screws (four each included). One-piece silicone perimeter gasket seals out moisture and contaminants.

Housing – One-piece, die-cast aluminum, low copper alloy, finished in white polyester powder coat. Closed-cell neoprene gasket seals against mounting surface for L/JB option. Provided with mounting

brackets for four-point mounting. Weatherproof junction box and cover provided as standard for surface conduit wiring.

Installation – Ceiling-mount only. Mounting brackets and junction box allow fixture to be installed without ever opening. For outlet box installation, see L/JB option. Wire leads will be routed out the rear conduit opening.

Listings – UL Listed to US and Canadian safety standards (see Options). UL listed for 25°C ambient and wet locations.

Ordering Information

VR4CV 85IL 120 LPI

Series	Lamp type	Voltage	Options	Lamps ²
VR4C 12" x 12"	70IL 70W ICETRON® Induction Lighting System ¹ 100IL 100W ICETRON® Induction Lighting System ¹	MVOLT MVOLT	EC Emergency circuit (Incandescent, 25W max.) ² L/JB Less junction box CSA Listed and labeled to comply with Canadian Standards. TRS Tamper-resistant screws	LPI Lamp included
VR4CV 12" x 12"	55IL 55W QL Induction Lighting System 85IL 85W QL Induction Lighting System	120 240		

Induction Lighting:

High Frequency Generator/Ballast – Supplies high-frequency current to the lamp to initiate and maintain a gas discharge for a rated 100,000 hours of life. The current travels through coils on the lamp (in the ICETRON® system) or through coils on the Power Coupler (in the QL system) to create the magnetic (inductive) field. Suitable for ambient temperatures ranging from -40°C to 25°C.

Discharge Vessel/Lamp – Glass bulb that contains a mixture of low-pressure mercury vapor and inert buffer gas. The wall of the lamp is coated with a fluorescent powder that produces light at 3000°K (QL system) or 3500°K (ICETRON® system) and an 80+ CRI.

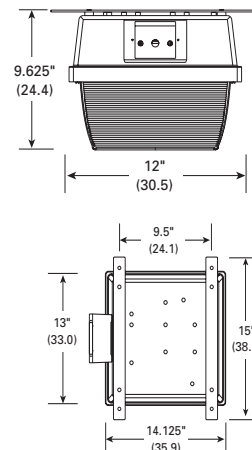
NOTES:

- 1 ICETRON is a registered trademark of OSRAM SYLVANIA.
- 2 Lamp included and installed.

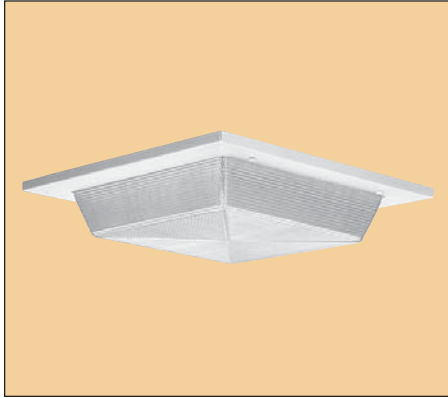
Accessories (Order separately)

- RK1 T20BIT** Torx TX20 hex-base driver bit for TRS option.
- RK1 T20DRV** Torx TX20 screwdriver for TRS option.

Dimensions are shown in inches (centimeters) unless otherwise noted.



VRR



Recessed Housing, Square

Intended Use

General illumination for rough service (vandal-resistant) applications. Ideal for interior or exterior applications where safety and security are a concern.

Features

Lens – UV-stabilized drop dish is clear, prismatic polycarbonate, nominal thickness .125 inch.

Housing – 16-gauge cold-rolled steel finished in white polyester powder coat.

Door – 16-gauge cold-rolled steel door secured by stainless steel tamper-resistant Torx® T-20 or standard stainless steel slotted hex-head screws (four of each included). Finish is white polyester powder coat.

Ballast – Fluorescent: Class P, Electronic, HPF multi-volt. THD <10%. Start temperature 0°F. (22DTT, 28DTT are Electromagnetic, 120V only). HID: High Reactance, HPF (175M is Constant Wattage Autotransformer. 35S is NPF).

Lamps – 35K lamp(s) included for compact fluorescent and HID unless L/LP is specified. Metal halide standard with reduced-UV lamp (except 175M).

Socket – Fluorescent: horizontally mounted thermoplastic. HID: medium-base porcelain with copper alloy, nickel-plated screw shell and center contact. UL listed 660W, 600V, 4KV pulse rated. 175W MH is mogul-base.

Listings – UL Listed (standard). CSA Certified (see Options). UL listed for 25°C ambient and damp locations (wet locations in covered ceiling applications only).

Ordering Information

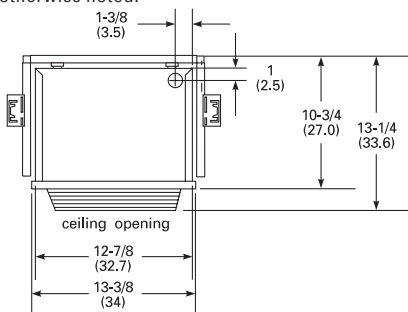
Example: **VRR 70S 120 SF LPI**

Series	Lamp type
VRR	<u>Incandescent</u> ¹ (Leave blank)
	<u>Twin-tube</u>
	2/13TT
	2/18TT
	<u>Double twin-tube</u>
	2/22DTT
	2/26DTT ^{1,2}
	2/28DTT
	<u>Triple-tube</u> ^{1,2}
	26TRT
	2/26TRT
	32TRT
	2/32TRT
	42TRT
	2/42TRT

Lens type	Voltage
(blank) Clear prismatic	120
WP White polycarbonate	208 ⁴
DHL Drop Holophane glass	240 ⁴
	277
	347
	480 ⁴
	MVOLT ^{5,6}

Options	Lamps ¹²
ADEZ Advance Mark X electronic dimming ballast ^{7,8}	LPI Lamp(s) included (standard)
DMHL Lutron Hi-lume electronic dimming ballast ^{7,8,9}	L/LP Less lamp(s)
DS Dual switching	
SF Single fuse (120, 277, 347V) ^{4,7}	
DF Double fuse (208, 240, 480V) ^{4,7}	
QRS Quartz restrike system ^{3,4,11}	
EC Emergency circuit (Incandescent, 25W max.) ¹⁰	
NL Night-light (Incandescent, 7W max.) ^{1,10}	
GLR Internal fast-blow fusing ^{6,7}	
GMF Internal slow-blow fusing ^{6,7}	
WL Wet location	
XT Low-energy diode, extended lamp life ¹¹	
CSA CSA Certified	

Dimensions are shown in inches (centimeters) unless otherwise noted.



Lamp/Fixture Data			
Watts	Ballast	Weight Lbs	Lamp Base
INCANDESCENT			
150W	-	23.70	A211F
FLUORESCENT			
9W	Electromagnetic, NPF	23.30	G23
13W	Electromagnetic, NPF	27.10	GX23
13W	Electronic, HPF	27.10	G24q-1
18W	Electronic, HPF	27.10	G24q-2
22W	Electromagnetic, HPF	25.35	GX32d-2
26W	Electronic, HPF	25.35	G24q-3
28W	Electromagnetic, HPF	25.35	GX32d-3
32W	Electronic, HPF	25.35	GX24q-3
42W	Electronic, HPF	25.35	GX24q-4
HIGH PRESSURE SODIUM			
35W	R-HPF	26.00	Med.
50W	HX-HPF	28.95	Med.
70W	HX-HPF	27.88	Med.
100W	HX-HPF	26.88	Med.
150W	HX-HPF	32.50	Med.
METAL HALIDE			
50W	HX-HPF	28.35	Med.
70W	HX-HPF	30.75	Med.
100W	HX-HPF	30.75	Med.
150W	HX-HPF	30.75	Med.
175W	CWA	31.38	Mog.

Accessories (Order separately)

- RK1 T20BIT** Torx TX20 hex-base driver bit for tamper-resistant screws with center reject pin.
- RK1 T20DRV** Torx TX20 screwdriver for tamper-resistant screws with center reject pin.

NOTES:

- 120V only.
- Two-pin 15mm lamp.
- Not available with 480V.
- Available for HID units only.
- Multi-volt electronic ballast (for DTT and TRT lamps) capable of operating any line voltage 120V to 277V.
- Available for compact fluorescent units only.
- Must specify voltage. Not available with MVOLT or TB.
- Available with 26DTT and all single TRT lamps; excludes 42TRT.
- Available with 2/26DTT and 2/26TRT.
- Maximum wattage lamp provided.
- Available for Incandescent units only.
- Lamp(s) included unless L/LP is specified.

VDC VDS

Intended Use

General illumination for rough service (vandal resistant) applications. Designed for indoor and outdoor applications like corridors, walkways, pedestrian tunnels, canopies, and drive-through areas.

Features

Housing – Heavy-duty, 16 gauge cold-rolled steel, one-piece housing for corner-mounted (VDC) or surface-mounted (VDS) applications. Housing and reinforcing members welded together for strength. Optional stainless steel or aluminum housings available.

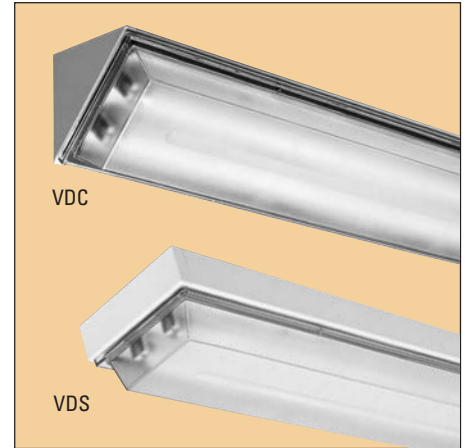
Finish – All metal parts are post-painted in white polyester powder coat for smooth, finished edges and corrosion resistance.

Lens – Clear, internally frosted, UV-stabilized, injection-molded polycarbonate lens standard. Smooth exterior for easy maintenance. Lens gasketed against moisture and contaminants and secured to housing with six stainless steel Torx® T-20 tamper-resistant screws (included).

Ballast Cover – Ballast and lampholders are secured to channel cover to provide easy installation and maintenance. Channel-cover safety chains included.

Ballast – Class P, High Power Factor ballast is UL listed. Ballast for 32W is standard GEB with a 0°F starting temperature.

Listings – UL Listed (standard). CSA Certified (see Options). UL listed for 25°C ambient and damp locations (wet locations in covered ceiling applications only).



Ordering Information

Example: **VDC 2 32 PCLW MVOLT GEB**

Series	Lamp type	Lens type	Voltage	Options
VDC Corner-mount	32 32W T8 (48") ¹	(blank) Clear polycarbonate	120	AL Aluminum housing, white
VDS Surface-mount	40 40W T12 (48")	PCLW White polycarbonate	277	CW Cold-weather ballast ^{3,4}
	48 48W Slimline(48")		347	CW20 Cold-weather ballast, -20°F starting ^{5,6}
	48HO 60W 800mA(48")		MVOLT²	ELDW Emergency lighting (300 lumens) ^{7,8,9}
				EL5DW Emergency lighting (500 lumens) ^{8,9,10}
				EL6DW Emergency lighting (600 lumens) ^{8,9,10}
				EL14DW Emergency lighting (1400 lumen) ^{9,10}
				GEB Electronic ballasts, ≤ 20% THD
				GEB10IS Electronic ballast, ≤ 10% THD, Instant Start
				GEB10RS Electronic ballast, ≤ 10% THD, Rapid Start ¹¹
				GLR Internal fast-blow fusing ¹¹
				GMF Internal slow-blow fusing ¹¹
				NLCF Compact fluorescent night-light (9W max.)
				RIF1 Radio interference filter, one per fixture
				SS Stainless steel housing, natural
				SSW Stainless steel housing, white
				WL Wet location (covered ceiling only) ⁹
				CSA CSA Certified

Number of lamps

1

2

Not included.

NOTES:

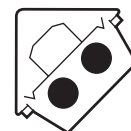
- Requires GEB, GEB10IS, or GEB10RS option.
- Electronic ballast 120-277V only. Must specify GEB10IS.
- Not available with EL or CEL option.
- Not recommended for use in ambient temperatures exceeding 40°F.
- Not available with 48HO 347V.
- Must be specified with 48HO for cold weather.
- Will default to 300 or 600 lumens depending on lamp type (32 and 40-300, 48 and 48HO-600).
- Luminaires ordered with DW option (Example: EL5DW) will bear UL Emergency Lighting Equipment label for damp or wet locations, depending on fixture.
- Canada: order as CEL, CEL5, CEL6 and CEL11. Dry location listing only.
- Not available with 48HO.
- Not available with MVOLT.

Accessories (Order separately)

- RK1 T20BIT** Torx TX20 hex-base driver bit for tamper-resistant screws with center reject pin.
- RK1 T20DRV** Torx TX20 screwdriver for tamper-resistant screws with center reject pin.

Availability and Dimensions

Series	Lamps per fixture	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
VDC	1, 2	32, 40, 48, 48HO	7½" (19.1)	6⅞" (15.5)	50 ⅞" (127.2)
VDS	1, 2	32, 40, 48, 48HO	7⅞" (19.2)	4½" (11.5)	50 ⅞" (128.5)



VDC



VDS

VSL VSLC



Surface Enclosed

Intended Use

For areas that require higher levels of protection from physical assault or environmental elements, while providing proper illumination for safety and security.

Features

Housing – Heavy-duty 16-gauge cold-rolled steel, one-piece housing for durability and security.

Ballast Cover – Ballast and lampholders are installed to wireway cover to provide easy installation and service. Wireway cover safety chains included.

Socket – Medium bi-pin, highly heat resistant, with internal locking collar for positive lamp retention and resistance to impact and vibration.

Finish – Five-stage iron-phosphate pretreatment ensures superior paint adhesion and rust resistance. Painted parts finished with high-gloss, baked white enamel.

Lens – Clear prismatic, injection-molded and UV-stabilized polycarbonate lens (.130" thick) that completely encloses face and all sides of housing. No exposed metal surfaces. Optional lens (SCE) features easily removable molded-in lens membrane centered over end plate knockouts for surface conduit and wiring access. Includes gaskets (one pair, not installed). Lens is secured to housing with tamper-resistant Torx® T-20 screws with center reject pin (included).

Gasket – One-piece, closed cell neoprene pad mounting gasket is factory installed to help seal against moisture, dust and insects.

Ballast – Ballast for T8 lamps is electronic with 0°F starting temperature. Class P, HPF ballast is standard for T12 lamps.

Listings – UL Listed to US and Canadian safety standards. CSA Certified (see Options). UL listed for 25°C ambient and wet locations.

Ordering Information

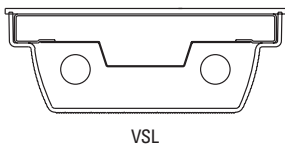
Series	No. of lamps	Lamp type	Lens type	Voltage
VSL 9¼" wide	2, 3 ^{1,2} Not included.	17 17W T8 (24") ³	(blank) Solid-end lens	120
		20 20W TS T12 (24")	SCE Surface conduit entry lens ⁴	277
		32 32W T8 (48") ³		347
		40 40W T12 (48")		MVOLT ⁵
VSLC 5⅝" wide	1	17 17W T8 (24") ³		
		20 20W TS T12 (24")		
		32 32W T8 (48") ³		
		40 40W T12 (48")		

Example: VSL 2 32 120 NLCF

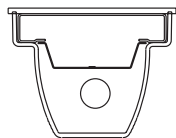
Options
DL Damp location
ELDW Emergency battery pack (300 lumens) ^{2,6,7}
EL5DW Emergency battery pack (500 lumens) ^{2,6,7}
EL6DW Emergency battery pack (600 lumens) ^{2,6,7}
EL14DW Emergency battery pack (1400 lumens) ^{2,6,7}
GEB Electronic ballasts, ≤ 20% THD
GEB10IS Instant start electronic ballast ≤ 10% THD
GEB10RS Rapid start electronic ballast ≤ 10% THD ⁸
GLR Internal fast-blow fusing ⁸
GMF Internal slow-blow fusing ⁸
NLCF Compact fluorescent night-light (9W max.) ^{8,9,10,11}
RIF1 Radio interference filter, one per fixture ¹²
CSA Listed and labeled to comply with Canadian Standards

Availability and Dimensions

Series	Lamps per fixture	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
VSL	2	17, 20	9¼" (23.5)	3⅝" (8.6)	25¾" (64.5)
		32, 40	9¼" (23.5)	3⅝" (8.6)	49⅝" (125.4)
		32	9¼" (23.5)	3⅝" (8.6)	49⅝" (125.4)
VSLC	1	17, 20	5⅝" (13.7)	4½" (11.4)	25¾" (64.5)
		32, 40	5⅝" (13.7)	4½" (11.4)	49¾" (126.4)



VSL



VSLC

Accessories (Order separately)

- RK1 T20BIT** Torx TX20 hex-base driver bit for tamper-resistant screws with center reject pin.
- RK1 T20DRV** Torx TX20 screwdriver for tamper-resistant screws with center reject pin.
- SCG** Surface conduit gasket (one pair, not installed)

NOTES:

- 1 3-lamp model available in 32W T8 only.
- 2 Available in 4-foot fixtures only.
- 3 Requires GEB, GEB10IS, or GEB10RS option.
- 4 Provided with one pair of surface conduit gaskets.
- 5 Electronic ballast 120-277V only. Must specify GEB10IS.
- 6 Luminaires ordered with **ELDW** option (Example: **EL5DW**) will bear UL Emergency Lighting Equipment label for damp or wet location, depending on fixture.
- 7 Canada: order as CEL, CEL6 and CEL11. Dry location listing only.
- 8 Not available with MVOLT.
- 9 Not available in 3-lamp model.
- 10 Lamp by others.
- 11 Available with VSL only.
- 12 For one filter per ballast, specify RIF2.

VW VWC

Intended Use

General illumination for rough service (vandal resistant) applications. Designed for use in corridors, entryways, meeting rooms, classrooms, locker rooms and more.

Features

Housing – One-piece, 16-gauge cold-rolled steel housing is die-formed and welded together with reinforcing members for strength. Aluminum and white stainless steel housings available (see Options).

Finish – All metal parts are post-painted in white polyester powder coat for smooth, finished edges and corrosion resistance.

Lens – UV-stabilized polycarbonate lens is extruded A12 prismatic pattern with internal linear side prisms, .130" thick polycarbonate (standard). Secured to housing with stainless steel Torx® T-20

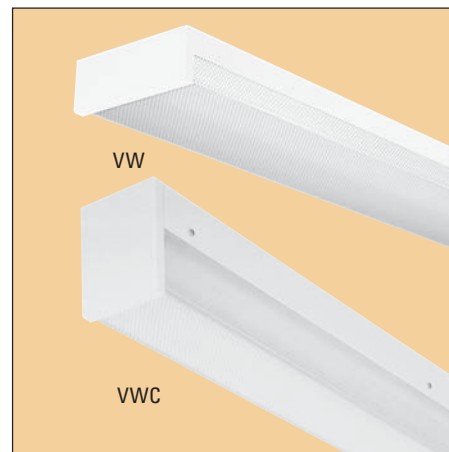
tamper-resistant screws (included).

Ballast Cover – Ballast and lampholders are secured to channel cover or to channel to provide easy installation and service.

Socket – Medium bi-pin, highly heat resistant, with internal locking collar for positive lamp retention and resistance to impact and vibration.

Ballast – Ballast for T8 lamps is electronic with 0°F starting temperature. Class P, HPF ballast is standard for T12 lamps.

Listings – UL Listed (standard). CSA Certified (see Options). UL listed for 25°C ambient and damp locations.



Example: **VW 2 32 ACR 347 GEB**

Ordering Information

Series	No. of lamps	Lamp type	Lens Type	Voltage
VW 2 or 3 lamps in 8 3/8" housing or 4 lamps in 13 3/4" housing	1	17 17W T8 (24") ¹	(blank) Polycarbonate, .130" thick	120
	2	20 20W T12 (24")	ACR High-impact acrylic, 50% DR	277
	3	32 32W T8 (48") ¹		347
	4	40 40W T12 (48")	PCL156 Polycarbonate, .156" thick	MVOLT²
2VW 2 lamps in 13 3/4" housing	Not included.			
VWC 4 1/2" housing				

Options	
AL	Aluminum housing
CW	Cold weather ballast ^{3,4}
ELDW	Emergency lighting (300 lumens) ⁵
EL5DW	Emergency lighting (500 lumens) ⁵
EL6DW	Emergency lighting (600 lumens) ⁵
EL14DW	Emergency lighting (1400 lumens) ^{5,6,7}
GEB	Electronic ballasts, ≤ 20% THD
GEB10IS	Electronic ballast, ≤ 10% THD, instant start
GEB10RS	Electronic ballast, ≤ 10% THD, rapid start ⁸
GLR	Internal fast-blow fusing ⁸
GMF	Internal slow-blow fusing ⁸
NLCF	Compact fluorescent night-light (9W max.) ^{8,9,10,11}
RIF1	Radio interference filter, one per fixture ¹²
SSW	Stainless steel housing, white
CSA	CSA Certified

Accessories (Order separately)

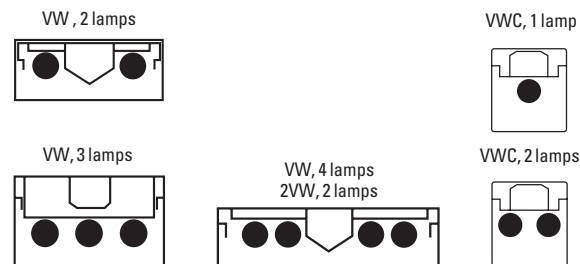
- RK1 T20BIT** Torx TX20 hex-base driver bit for tamper-resistant screws with center reject pin.
- RK1 T20DRV** Torx TX20 screwdriver for tamper-resistant screws with center reject pin.

NOTES:

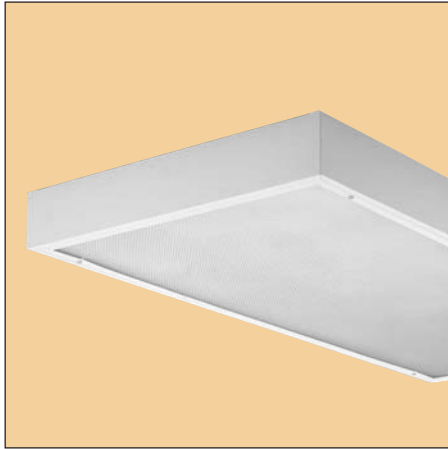
- Requires GEB, GEB10IS, or GEB10RS option.
- Electronic ballast 120-277V only. Must specify GEB10IS.
- Not available with EL option.
- Not recommended for use in ambient temperatures exceeding 40°F.
- Luminaires ordered with ELDW option (Example EL5DW) will bear the UL Emergency Lighting Equipment label for damp or wet locations, depending on the fixture.
- Canada: Order as CEL, CEL6 and CEL11. Dry location listing only.
- Not available with 17W or 20W 2' fixture.
- Not available with MVOLT.
- Not available with 3 lamp unit.
- Available with VW only.
- Lamp not included.
- For one filter per ballast, specify RIF2

Availability and Dimensions

Series	Lamps per fixture	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
VW	2	32, 40	8 3/8 (21.3)	3 1/4 (8.3)	49 (124.5)
	3	32, 40	8 3/8 (21.3)	5 (12.7)	49 (124.5)
	4	32, 40	13 3/4 (33.7)	3 3/8 (8.6)	49 (124.5)
2VW	2	32, 40	13 3/4 (33.7)	3 3/8 (8.6)	49 (124.5)
VWC	1,2	17, 20	4 1/2 (10.8)	5 1/4 (13.3)	25 3/8 (64.5)
		32, 40	4 1/2 (10.8)	5 1/4 (13.3)	49 3/8 (125.4)



VRS



Modular Commercials

Intended Use

General illumination for rough service (vandal resistant) applications. Ideal for areas where safety and security are a concern.

Features

Housing – Clean design includes overlap mitered housing and door frame corners. Formed from cold-rolled steel. Housing corners spot welded for strength.

Door – Flush steel door frame secured by four stainless steel tamper-resistant Torx® T-20 with center pin screws, two per side. Three tamper-resistant screws per side available. (Specify TP6 option).

Finish – Painted parts finished with high

gloss, baked white enamel. Five-stage iron-phosphate pretreatment ensures superior paint adhesion and rust resistance.

Lens – Variety of shielding available including VL, durable .250" polycarbonate sheet laminated to .125" A12 pattern acrylic overlay. Impact-resistant acrylic or prismatic polycarbonate also available.

Ballast – Thermally-protected, resetting, Class P, HPF, non-PCB, UL listed, CSA-certified ballast is standard.

Listings – UL Listed (standard). CSA Certified (see Options). UL listed for 25°C ambient and damp locations.

Ordering Information

Example: **VRS 2 32 AR12 120 GEB**

Series	Number of lamps	Lamp type	Lens type	Voltage	Options
VRS 1' wide	1	17 17W T8 (24")	AR12 #12 pattern, high-impact acrylic, .140" thick	120	CSA CSA Certified For other options and accessories, see below and page 97.
2VRS 2' wide	2	20 20W T12, 24")		277	
	3	U31 31W T8-U (1½" leg)	VL Polycarbonate lens laminated to #12 pattern acrylic overlay, .375" thick	347,	
	4	U316 31W T8-U (6" leg) ¹		347,	
	6	32 32W T8 (48")		MVOLT*	
	Not included.	40 40W T12 (48")			
		U40 40W T12-U (6" leg) ¹			
		U403 40W T12-U (3¾" leg)			
		CF40 40W CF lamp (24")			

* Electronic ballast, 120-277V only. Must specify GEB10IS.

NOTES:

1 Not available on 3-lamp fixtures. Use U31 or U403.

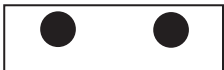
Accessories (Order separately)

RK1 T20BIT Torx TX20 hex-base driver bit for tamper-resistant screws with center reject pin.

RK1 T20DRV Torx TX20 screwdriver for tamper-resistant screws with center reject pin.

Availability and Dimensions

Nominal Size	Series	Number of lamps	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
1x4	VRS	1, 2, 3	32, 40	12(30.5)	3¾ (9.5)	48(121.9)
	2VRS	2, 3	17, 20, U31, U403, CF40	24(61.0)	3¾ (9.5)	24(61.0)
2x2	2VRS	1, 2	U40, U316	24(61.0)	3¾ (9.5)	24(61.0)
2x4	2VRS	2, 3, 4, 6	32, 40	24(61.0)	3¾ (9.5)	48(121.9)



VRT

Intended Use

General illumination for rough service (vandal resistant) applications. Ideal for areas that require higher levels of protection from physical assault, while providing proper illumination for safety or security.

Features

Housing – Steel door frame features overlap mitered corners. Formed from cold-rolled steel and secured by stainless steel tamper-resistant Torx® T-20 screws, two per side standard (four included). Three per side available; specify TP6 option. No asbestos is used in this product. Ceiling trims available to fit most recessed applications.

Finish – Painted parts finished with high-gloss, baked white enamel. Five-stage iron-phosphate pretreatment ensures superior paint adhesion and rust resistance.

Lens – Variety of shielding available including VL, durable .250" polycarbonate sheet laminated to .125" A12 pattern acrylic overlay. Impact-resistant acrylic or prismatic polycarbonate also available.

Ballast – Thermally-protected, resetting, Class P, HPF, non-PCB, UL listed, CSA-certified ballast is standard.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options). UL listed for 25°C ambient and damp locations. Wet location (WL) option available.



Ordering Information

Example: **2VRT G 4 32 AR12 347 GEB**

Series	Trim type ¹	Number of lamps	Lamp type	Diffuser type	Voltage
VRT 1' wide	G Lay-in grid	1 2 3 4 6 Not included.	17 17W T8 (24")	AR12 #12 pattern, high impact acrylic, .140" thick	120
2VRT 2' wide	F Overlapping flange		20 20W T12 (24")	ARF12 #12 pattern, high impact acrylic with RF grid, .140"	277
	MT Modular fit-in		U31 31W T8-U (24")	PCL12187 #12 pattern polycarbonate, .187"	347,
			U316 31W T8-U (6" leg) ²	VL .250" clear polycarbonate lens laminated to A12 pattern acrylic overlay, .125" acrylic	MVOLT*
			32 32W T8 (48")		
			40 40W T12 (48")		
		U40 40W T12-U (6" leg) ²			
		U403 40W T12-U (3¾" leg)			
		CF40 40W T5 lamp (24")			

* Electronic ballast, 120-277V only. Must specify GEB10IS.

Options	
CSA	CSA Certified
NOM	NOM Certified

For other options and accessories, see below and pages 90-91.

NOTES:

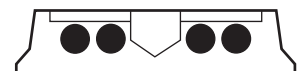
- 1 Consult factory for screw slot and ST trim.
- 2 Not available on 3-lamp fixtures. Use U31 or U403.

Accessories (Order separately)

- RK1 T20BIT** Torx TX20 hex-base driver bit for tamper-resistant screws with center reject pin.
- RK1 T20DRV** Torx TX20 screwdriver for tamper-resistant screws with center reject pin.

Availability and Dimensions

Nominal size	Series	Number of lamps	Lamp type	Depth in. (cm)
1x4	VRT	1, 2, 3	32, 40	4¾ (12.4)
	2VRT	2	17,20,U31,U40,U316,CF40	4¼ (10.8)
	2VRT	3	17, 20	4¼ (10.8)
2x2	2VRT	3	U31, U403, CF40	7 (17.8)
	2VRT	4	17, 20	4¼ (10.8)
	2VRT	4	CF40	4 ¹⁵ / ₁₆ (12.5)
	2VRT	4	CF40	4 ¹⁵ / ₁₆ (12.5)
2x4	2VRT	2, 3, 4, 6	32, 40	4½ (11.4)



VRI



Industrials

Intended Use

General illumination for rough service (vandal resistant) applications. Ideal for tunnels, canopies, shipping docks, refrigerated areas, food processing, or any non-hazardous environment that requires a wet location listing.

Features

Housing – Impact-resistant, UV-resistant, fiberglass-reinforced polyester housing with cold rolled steel enclosed wireway.

Lens – High-impact acrylic diffuser standard. Secured to fully-gasketed housing by captive, tamper-resistant cam-action latches.

Latches – Six tamper-resistant latches per 4' unit, ten per 8' unit.

Finish – Painted parts finished with high-gloss, baked white enamel. Five-stage iron-phosphate pretreatment ensures superior paint adhesion and rust resistance.

Installation – Suitable for surface, chain or stem mounting.

Ballast – Thermally-protected, Class P, High Power Factor Electronic ballast standard.

Listings – UL Listed (standard). CSA Certified (see Options). UL listed for 25°C ambient and wet locations.

Ordering Information

Example: **VRI 2 40 DP 120 CW**

Series	Number of lamps	Lamp type	Lens type ²	Voltage	Options
VRI <small>For tandem double length unit, add prefix T. Example: TVRI</small>	1 2 3 ¹ Not included.	32 32W T8 (48") 40 40W T12 (48") 48 38W Slimline (48") 48HO 60W 800 mA (48") 96 75W Slimline (96") 96HO 110W 800mA (96") 96T8 59W T8 Slimline (96") 96T8HO 86W T8 380mA (96")	(blank) High-impact acrylic, 50% DR DP High-impact deep acrylic, 50% DR ² PCL Polycarbonate ³	120 277 347, MVOLT* <small>* Electronic ballast, 120-277V only. Must specify GEB10IS.</small>	CSA CSA Certified <small>For other options and accessories, see below and page 99.</small>

Accessories (Order separately)

RK1 T20BIT Torx TX20 hex-base driver bit for tamper-resistant screws with center reject pin.

RK1 T20DRV Torx TX20 screwdriver for tamper-resistant screws with center reject pin.

NOTES:

- 1 32W T8 only.
- 2 Deep lens is standard on 4' slimline, HO (800mA) and 8' fixtures. To match appearance on 4' rapid start, order DP option.
- 3 Standard depth lens provided.



Availability and Dimensions

Series	Lamps per cross section	Lamps per fixture	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
VRI	1, 2, 3 ¹	1, 2, 3	32, 40	7% (19.4)	4¾ (12.1)	50 (127.0)
VRI (ARDP option)	1, 2, 3 ¹	1, 2, 3	32, 40	7% (19.4)	5% (14.3)	50 (127.0)
TVRI	1, 2	2, 4	32, 40, 48, 48HO	7% (19.4)	5% (14.3)	98 (248.9)
VRI	1, 2	1, 2	96, 96HO 96T8, 96T8HO	7% (19.4)	5% (14.3)	98 (248.9)

Accessories Shipped Separately

Extension Boxes

For surface conduit application. Not UL listed for wet locations.

- EB1 U OS** Steel. Use with VR1 or VR2.
- EB3** Steel. Use with VR3.
- EB4** Steel. Use with VR4.
- EB1 AL** Aluminum. Use with VR1 or VR2.
- EB3 AL** Aluminum. Use with VR3.
- EB4 AL** Aluminum. Use with VR4.
- EBC** Cast Aluminum. Use with VR1 or VR2.
- EBC PEB1** Cast Aluminum with Photoelectric Cell. Use with VR1 or VR2 (120V).

Extension Boxes with Convenience Outlet

For surface conduit application. Outlet is 15A, 125V for easy access to electrical supply. Not for outdoor use. Not UL listed for wet locations.

- EB1 CO** Steel. Use with VR1 or VR2.
- EB3 CO** Steel. Use with VR3.
- EB4 CO** Steel. Use with VR4.
- EB1 CO AL** Aluminum. Use with VR1 or VR2.
- EB3 CO AL** Aluminum. Use with VR3.
- EB4 CO AL** Aluminum. Use with VR4.

Extension Boxes with Toggle Switch

For surface conduit application. Toggle switch is 15A, 125V for easy access to electrical supply. Not for outdoor use.

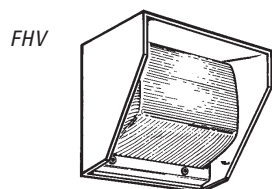
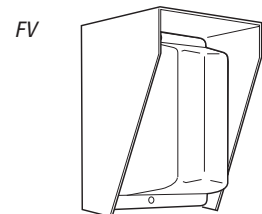
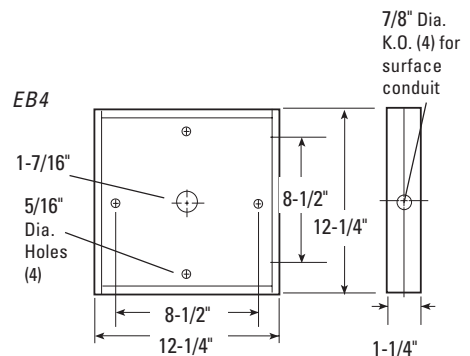
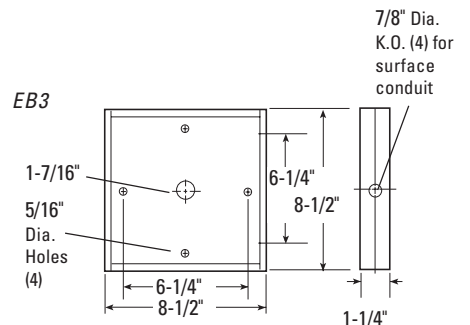
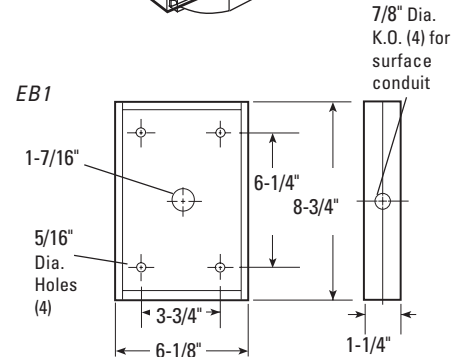
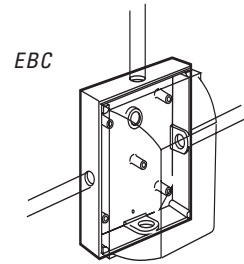
- EB1 TS1** Steel. Use with VR1 or VR2.
- EB3 TS1** Steel. Use with VR3.
- EB4 TS1** Steel. Use with VR4.
- EB1 TS1 AL** Aluminum. Use with VR1 or VR2.
- EB3 TS1 AL** Aluminum. Use with VR3.
- EB4 TS1 AL** Aluminum. Use with VR4.

External Visors

- FHV** Steel Horizontal External Visor. Use with VR1 or VR2 series 2 screw units only. Shields up and side illumination.
- FHV AL** Aluminum Horizontal External Visor. Use with VR1 or VR2 series 2 screw units only. Shields up and side illumination.
- FHVC** Steel Horizontal External Visor. Use with VR2C series 2 screw units only. Shields up and side illumination.
- FHVC AL** Aluminum Horizontal External Visor. Use with VR2C series 2 screw units only. Shields up and side illumination.
- FV1** Steel Vertical External Visor. Use with VR1 or VR2 series 4 screw units only. Shields up and side illumination.
- FV1 AL** Aluminum Vertical External Visor. Use with VR1 or VR2 series 4 screw units only. Shields up and side illumination.
- FV2C** Steel Vertical External Visor. Use with VR1C and VR2C.
- FV2C AL** Aluminum Vertical External Visor. Use with VR1C and VR2C.
- FV3** Steel Vertical External Visor. Use with VR3. Shields up and side illumination.
- FV3 AL** Aluminum Vertical External Visor. Use with VR3. Shields up and side illumination.
- FV3C** Steel Vertical External Visor. Use with VR3C.
- FV3C AL** Aluminum Vertical External Visor. Use with VR3C.
- FV4** Steel Vertical External Visor. Use with VR4. Shields up and side illumination.
- FV4 AL** Aluminum Vertical External Visor. Use with VR4. Shields up and side illumination.
- FV4C** Steel Vertical External Visor. Use with VR4C.
- FV4C AL** Aluminum Vertical External Visor. Use with VR4C.
- PF** Plaster Frame. Provides a clean edge for ceiling openings. Use with VRR.

Screwdrivers

- RK1 T10DRV** Torx® TX10 screwdriver, for use with Gateway set screws.
- RK1 T20DRV** Torx® TX20 screwdriver, for use with tamper-resistant screws with center reject pin. Use with Gateway TRS option.
- RK1 T20BIT** Torx® TX20 hex-base driver bit, for use with tamper-resistant screws with center reject pin.



OUTDOOR

Outdoor

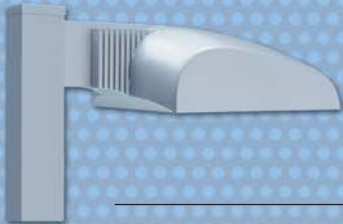
Lithonia Lighting outdoor products are unmatched in the industry for distinctive designs, signature accents and high-performance optical systems.

These high-quality products are characterized by superior-grade materials for reliability, highly-engineered designs for performance, and skilled craftsmanship for aesthetic styling.

With a wide selection of luminaires, poles, mounting options and finishes, Lithonia Lighting is your best choice for every architectural and general purpose lighting application.



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Poles 494

Aeris™



Architectural Arm-Mounted Cutoff

Intended Use

For streets, walkways, parking lots and surrounding areas.

Features

Housing – Die-cast single-piece aluminum with nominal 1/8" wall thickness. Integral arm provides easy installation to pole or wall. Housing completely sealed against moisture or environmental contaminants.

Door Assembly – Die-cast door frame, impact-resistant, tempered, glass lens, 3/16" thick, fully sealed with one-piece tubular silicone gasket. Tool-less entry and closure via spring-loaded die-cast latches.

Optics – Anodized segmented reflectors for superior uniformity and control. Reflectors attach with tool-less fasteners and are rotatable and interchangeable.

Installation – Heavy-duty easy-mount block attaches to pole or wall to provide ease of installation as well as ensured

alignment and leveling.

Electrical – 150W and below utilize a high reactance, high power factor. 175W and above use a constant-wattage autotransformer ballast. Compact fluorescent uses an electronic high frequency ballast. Ballasts mounted on removable power tray with tool-less latch and have positive locking disconnect plugs. Ballasts are copper wound and 100% factory tested.

Finish – Standard finish is dark bronze (DDB) corrosion-resistant polyester powder finish. Other architectural colors available.

Socket – Porcelain, medium-base socket for AS1, mogul-base socket for AS2, with copper alloy nickel-plated screw shell and center contact. UL listed.

Listings – UL Listed (standard). CSA Certified or NOM certified (see Options). UL listed for wet locations in lens-down orientation (damp location listed in lens-up orientation). Meets IESNA full cutoff criteria. U.S. patent no. D447, 590. Canadian patent no. 94324.

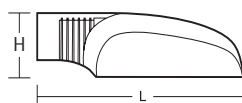
Ordering Information

Example: **AS1 150S SR2 120 SPA SF LPI**

Designation	Distribution	Voltage	Mounting ¹¹	Options/Accessories
<u>High Pressure Sodium</u>	SR2 Segmented Type II roadway	120, 208⁷, 240⁷, 277, 347, 480⁷, TB⁸, MVOLT^{9,10}	Included	Installed
AS1 35S¹	SR3 Segmented Type III asymmetric		SPA Square pole mounting block	SF Single fuse, 120V, 277V, 347V (n/a TB & MVOLT) ¹²
AS1 50S²			RPA Round pole mounting block	DF Double fuse, 208V, 240V, 480V (n/a TB & MVOLT) ¹²
AS1 70S	SR4SC Segmented Type IV forward throw, sharp cutoff		WBA wall bracket (up or down)	PER NEMA twist-lock receptacle only (no photocontrol)
AS1 100S			Shipped separately	QRS Quartz restrike system (100W max. AS1, 250W max. AS2, lamp not included) ¹²
AS1 150S	SR4W Segmented Type IV wide, forward throw (size 2 only)		ASKMA1 Mast arm adapter (size 1)	CR Enhanced corrosion resistance
AS2 200S			ASKMA2 Mast arm adapter (size 2)	HS House-side shield (n/a with SR4SC)
AS2 250S			DSAS1 Decorative straight arm, square pole only (size 1)	EC Emergency circuit ¹³
AS2 400S	SR5S Segmented Type V square		DSAS2 Decorative straight arm, square pole only (size 2)	TP Tamperproof
<u>Metal Halide</u>			DCAS1 Decorative curved arm, square pole only (size 1)	SCWA Super CWA pulse start ballast (not available with HPS, TRT, 50, 70, 100M or 480V)
AS1 50M³			DCAS2 Decorative curved arm, square pole only (size 2)	LPI Lamp included (standard)
AS1 70M³				L/LP Less lamp
AS1 100M				CSA CSA Certified
AS1 150M⁴				NOM NOM Certified ¹³
AS1 175M				For optional architectural colors, see page 485.
AS2 200M⁵				Shipped separately
AS2 250M⁴				PE1 NEMA twist-lock PE (120V, 208V, 240V)
AS2 320M⁵				PE3 NEMA twist-lock PE (347V)
AS2 350M⁵				PE4 NEMA twist-lock PE (480V)
AS2 400M⁴				PE7 NEMA twist-lock PE (277V)
<u>Compact Fluorescent</u>				SC Shorting cap
AS1 2/32TRT⁶				AS1VG Vandal guard
AS1 42TRT				AS2VG Vandal guard
AS1 2/42TRT⁶				For tenon slipfitters, see page 486.
AS1 57TRT				
AS1 70TRT				

NOTES:

- 120V only.
- 120V & 277V only.
- Not available with 480V.
- May be ordered with SCWA option.
- Must be ordered with SCWA option.
- Available in SR3 only.
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Compact Fluorescent only, 120V-277V.
- Multi-volt electronic ballast (for TRT lamps) capable of operating on any line voltage between 120V & 277V.
- Mounting block standard.
- SF, DF or QRS options cannot be ordered together.
- Consult factory for availability.



Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	AS1	AS2
EPA	.7 ft ²	1.2 ft ²
Length	21.38 (54.5 cm)	28 (71.0 cm)
Width	12.5 (31.7 cm)	16.25 (41.9 cm)
Height	6.28 (15.9 cm)	8.25 (21.0 cm)
Weight	22 lbs (10 kg)	45 lbs (20.4 kg)

Drilling Pattern
(see pole ordering, pg. 494)

DM19AS	1 at 90°
DM28AS	2 at 180°
DM29AS	2 at 90°
DM39AS	3 at 90°
DM49AS	4 at 90°
DM32AS	3 at 120° (Round poles only)



Architectural Arm-Mounted Cutoff

Intended Use

For car lots, street lighting or parking areas.

Features

Housing – Rugged, heavy-gauge, extruded aluminum housing. Square shape, seam-welded and internally sealed for weather-tight integrity. Standard finish is dark bronze corrosion-resistant polyester powder (DDB). Architectural Class 1 anodize finish and other architectural colors available.

Optics – Anodized, segmented reflectors for uniformity and control. Reflectors are tool-less, rotatable and interchangeable. Five cutoff distributions available: R2 (Roadway), R3 (Asymmetric), R4SC (Forward Throw, Sharp Cutoff), R4W (Wide, Forward Throw) and R5S (Symmetric).

Door Frame – Naturally anodized, extruded aluminum door frame sealed to housing by silicone closed-cell gasket and secured

with (3) quarter-turn closing screws. Can be hinged from any of the four sides.

Lens – .125" thick, impact-resistant tempered glass.

Mounting – Extruded 4" aluminum arm for square pole mounting, shipped in fixture carton as standard. Optional mountings available.

Electrical – High reactance, high power factor for 150W and below. Constant wattage autotransformer for 175W and above. Copper wound and 100% factory tested. Removable power tray and positive-locking disconnect plug.

Socket – Medium-base socket for 100W MH and below. Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W-600V. 4KV pulse rated.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options). UL listed for wet locations.



Example: **KSE1 150S R2 120 SP09 PER**

Ordering Information

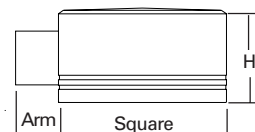
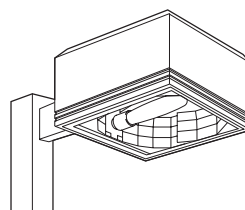
Designation	Distribution	Voltage	Mounting	Options/Accessories
<u>High Pressure Sodium</u>	R2 Type II roadway	120	<u>Included</u>	<u>Installed</u>
KSE1 70S	R3 Type III asymmetric	208³	SP04 4" square pole arm ⁵ (std.)	SF Single fuse, 120V, 277V, 347V (n/a TB)
KSE1 100S	R4SC Type IV forward throw, sharp cutoff	240³	SP09 9" square pole arm	DF Double fuse, 208V, 240V, 480V (n/a TB)
KSE1 150S	R4W Type IV wide, forward throw (size 2 only)	277	RP04 4" round pole arm ⁵	PER NEMA twist-lock receptacle only (no photocontrol)
KSE2 250S		347	RP09 9" round pole arm	QRS Quartz restrike system (100W max. in KSE1, 150 W max in KSE2, 120V lamp not included).
KSE2 400S	R5S Type V square (size 2 only)	480³	WW04 4" wood pole or wall ⁵	CR Enhanced corrosion resistance
<u>Metal Halide</u>		TB⁴	WW09 9" wood pole or wall	EC Emergency circuit
KSE1 100M			WB04 4" wall bracket	GSL Glass sag lens ⁶
KSE1 150M			WB09 9" wall bracket	SCWA Super CWA pulse start ballast (n/a with HPS or 100, 175M)
KSE1 175M			<u>Shipped separately</u>	CSA CSA Certified
KSE1 200M¹			KMA Mast arm adapter	NOM NOM Certified (consult factory)
KSE2 250M			KTMB Twin mounting bar	For optional architectural colors, see page 485.
KSE2 320M^{1,2}			DA12P Degree arm (pole)	<u>Shipped separately</u>
KSE2 350M^{1,2}			DA12WB Degree arm (wall)	PE1 NEMA twist-lock PE (120V-240V) ⁷
KSE2 400M²				PE3 NEMA twist-lock PE (347V) ⁷
				PE4 NEMA twist-lock PE (480V) ⁷
				PE7 NEMA twist-lock PE (277V) ⁷
				SC Shorting cap for PER option
				KSE1HS House-side shield (R2, R3 only)
				KSE2HS House-side shield (R2, R3 only)
				KSE1VG Vandal guard
				KSE2VG Vandal guard

NOTES:

- 1 Must be ordered with SCWA.
- 2 Must use ED28 lamp.
- 3 Consult factory for availability in Canada.
- 4 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 5 Use 9" arm when mounting two luminaires at 90°.
- 6 Available on KSE2 only.
- 7 PER must be ordered with fixture.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	KSE1	KSE2
EPA ⁷	1.3 ft ² (.12 m ²)	1.9 ft ² (.18 m ²)
Square	15 ¹¹ / ₁₆ (39.8)	19 (48.3)
Height	8 ³ / ₄ (22.2)	10 ¹⁵ / ₁₆ (27.8)
Max. weight	26.6 lbs (12.1 kg)	39.9 lbs (18.1 kg)



For tenon slipfitters, see page 486.

KSF

Spec-Form®



Architectural Arm-Mounted Cutoff

Intended Use

For car lots, street lighting or parking areas.

Features

Housing – Rugged, heavy-gauge, aluminum rectilinear housing. All seams continuously welded for weathertight integrity. Dark bronze corrosion-resistant polyester powder finish (DDB) standard. Other architectural colors available

Door Frame – Natural, anodized, extruded aluminum frame with mitered corners, retained with two hinge pins and secured with one quarter-turn, quick-release fastener. Integrally designed, extruded silicone gasket provides weatherproof seal between housing and frame.

Lens – .125" thick, impact-resistant tempered glass with thermally applied, silk-screened power door shield.

Mounting – Extruded 4" (KSF1, KSF2) or 12" (KSF3) aluminum arm for square pole mounting shipped in fixture carton as standard. Optional Mountings available.

Optics – Anodized segmented reflectors provide superior uniformity and control. KSF1/KSF2 reflectors are rotatable and interchangeable. KSF3 Type IV are only rotatable but not interchangeable. Five cutoff distributions available: R2 (Roadway), R3 (Asymmetric), R4SC (Forward Throw, Sharp Cutoff), R4W (Wide, Forward Throw), R5S (Square).

Electrical – High reactance, high power factor for 150W and below. Constant wattage autotransformer for 175W and above. Copper wound and 100% factory tested. Removable power door and positive-locking disconnect plugs.

Socket – Porcelain, horizontally oriented, mogul-base socket (100M & 150M are medium-base) with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V.

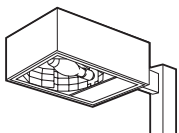
Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options). UL listed for wet locations.

Ordering Information

Designation	Distribution
<u>High Pressure Sodium</u>	
KSF1 70S	R2 Type II roadway (sizes 1 & 2 only)
KSF1 100S	R3 Type III asymmetric
KSF1 150S	R4 Type IV forward throw (size 3 only)
KSF2 250S	R4SC Type IV forward throw, sharp cutoff (sizes 1 & 2 only)
KSF2 400S	
KSF3 1000S	
<u>Metal Halide</u>	
KSF1 100M	R4W Type IV wide, forward throw (size 2 only)
KSF1 150M	
KSF1 175M	
KSF1 200M¹	R5S Type V square (sizes 2 & 3 only)
KSF1 250M	
KSF2 320M^{1,2}	
KSF2 350M^{1,2}	
KSF2 400M²	
KSF3 1000M³	

Dimensions are shown in inches (centimeters) unless otherwise noted.

	KSF1	KSF2	KSF3
EPA ¹¹	1.5 ft ² (.14 m ²)	2.0 ft ² (.19 m ²)	3.0 ft ² (.28 m ²)
Length	22 (55.9)	25 ^{5/16} (64.3)	30 ^{5/16} (77.0)
Width	16 ^{3/16} (41.1)	18 ^{1/2} (47.0)	24 ^{5/16} (61.8)
Height	7 ^{1/4} (18.4)	8 ^{5/16} (21.1)	10 ^{1/2} (26.7)
Max. weight	39 lbs (17.7 kg)	55 lbs (24.9 kg)	85 lbs (38.6 kg)



Example: KSF1 150S R2 120 SP09 PER

Voltage	Mounting	Options/Accessories
120	<u>Included, KSF1/KSF2</u>	<u>Installed</u>
208⁴	SP04 4" square pole arm ⁶ (std.)	SF Single fuse, 120V, 277V, 347V (n/a TB)
240⁴	SP09 9" square pole arm	DF Double fuse, 208V, 240V, 480V (n/a TB)
277	RP04 4" round pole arm ⁶	PER NEMA twist-lock receptacle only (no photocontrol)
347	RP09 9" round pole arm	QRS Quartz restrike system (75W max in KSF1, not to exceed HID wattages on size 2; 250W max. on KSF3, 120V lamp not included) ⁹
480⁴	RP09 9" round pole arm	CR Enhanced corrosion resistance
TB⁵	WW04 4" wood pole or wall ⁶	EC Emergency circuit
	WW09 9" wood pole or wall	SCWA Super CWA pulse start ballast (n/a with HPS, 100M, 175M)
	WB04 4" wall bracket	CSA CSA Certified
	WB09 9" wall bracket	NOM NOM Certified (consult factory)
	MB Mounting bracket	<small>For optional architectural colors, see page 485.</small>
	L/ARM When ordering KMA or DA12	<u>Shipped Separately</u>
	<u>Included, KSF3⁷</u>	PE1 NEMA twist-lock PE (120V-240V) ¹⁰
	SP12 12" square pole arm (std.)	PE3 NEMA twist-lock PE (347V) ¹⁰
	RP12 12" round pole arm	PE4 NEMA twist-lock PE (480V) ¹⁰
	WW12 12" wood pole or wall	PE7 NEMA twist-lock PE (277V) ¹⁰
	WB12 12" wall bracket	SC Shorting cap for PER option
	<u>Shipped separately⁸</u>	KSF_HS House-side shield (KSF1/KSF2: R2 and R3 only. KSF3 - R3 and R4 only)
	KMA Mast arm adapter	KSF_VG Vandal guard (KSF1/KSF2 only)
	KTMB Twin mounting bar	<small>For tenon slipfitters, see page 486.</small>
	DA12P Degree arm (pole)	
	DA12WB Degree arm (wall)	

NOTES:

- Must be ordered with SCWA.
- Must use ED28 lamp.
- Must use BT37 lamp.
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Use 9" arm when mounting two luminaires at 90°.
- Use 12" arm when mounting two luminaires at 90°.
- May be ordered as accessory.
- QRSTD available in select wattages. Consult factory.
- PER option must be ordered with fixture.
- Includes mounting arm.

Arm-Mounted Drop or Flat Lens Cutoff

KAD

Contour®

Intended Use

For parking areas, street lighting, walkways and car lots.

Features

Housing – Rugged, die-cast, soft-corner aluminum housing with 0.12" nominal wall thickness. Extruded 4" soft corner arm for pole or wall mounting is standard.

Door Frame – KAD die-cast door frame has impact-resistant, tempered glass lens which is fully gasketed with one-piece bonded tubular silicone. KAC die-cast aluminum door frame has prismatic, impact-resistant, tempered glass, drop dish acrylic lens or drop dish polycarbonate lens. Door frame is fully gasketed with one-piece tubular silicone.

Optics – KAD reflectors are anodized hydroformed and segmented aluminum. Four cutoff distributions available: R2 (Roadway), R3 (Asymmetric), R4 (Forward Throw) and R5 (Symmetric). Segmented reflectors are rotatable and field-interchangeable.

KAC reflector is optical-quality aluminum that works in tandem with a light-diffusing prismatic lens.

Electrical – Ballast is high-reactance, high power factor (70-150W HPS, 100M & 150M) or high power factor constant-wattage autotransformer (175-400W MH & HPS). Ballast is copper wound and 100% factory tested.

Finish – Dark bronze (DDB) corrosion-resistant polyester powder finish (DDB), with other architectural colors available.

Socket – Porcelain, horizontally (position) oriented mogul-base socket (100M & 150M are medium-base) with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W-600V. 4KV pulse rated.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options). UL listed for wet locations. IP65 certified.



Example: KAD 400M R3 120 SPD09

Ordering Information

Designation	Distribution	Voltage	Mounting
<u>High Pressure Sodium</u>	<u>KAD-Hydroformed Reflectors</u>	120	<u>Included</u>
KAD 70S	R2 Type II roadway	208²	SPD04 4" square pole arm ⁴ (std.)
KAD 100S	R3 Type III asymmetric	240²	SPD09 9" square pole arm
KAD 150S	R4 Type IV forward	277	RPD04 4" round pole arm ⁴
KAD 250S	throw, sharp cutoff	347	RPD09 9" round pole arm
KAD 400S	R5S Type V square	480²	WWD04 4" wood pole or wall ⁴
<u>Metal Halide</u>	<u>Segmented Reflectors</u>	TB³	WWD09 9" wood pole or wall
KAD 100M	SR2 Type II asymmetric		WBD04 4" wall bracket
KAD 150M	SR3 Type III asymmetric		WBD09 9" wall bracket
KAD 175M	SR4SC Type IV forward		<u>Shipped separately</u>
KAD 200M¹	throw, sharp cutoff		KMA Mast arm adapter
KAD 250M			KTMB Twin mounting bar
KAD 320M¹			DAD12P Degree arm (pole)
KAD 350M¹			DAD12WB Degree arm (wall)
KAD 400M			

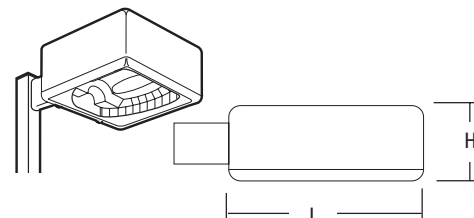
Options/Accessories	
<u>Installed</u>	
LPI	Lamp included
SF	Single fuse, 120V, 277V, 347V (n/a TB)
DF	Double fuse, 208V, 240V, 480V (n/a TB)
PER	NEMA twist-lock receptacle only (no photocontrol)
QRS	Quartz restrrike system (250W max., 120V lamp not included) ⁵
PD	Power tray ⁶
WTB	Terminal block ⁶
EC	Emergency circuit
SCWA	Super CWA pulse start ballast (n/a with any HPS, 100M or 175M)
CSA	CSA Certified
NOM	NOM Certified (consult factory)
For optional architectural colors, see page 485.	
<u>Shipped separately⁷</u>	
PE1	NEMA twist-lock PE (120V-240V)
PE3	NEMA twist-lock PE (347V)
PE4	NEMA twist-lock PE (480V)
PE7	NEMA twist-lock PE (277V)
SC	Shorting cap for PER option
HS	House-side shield (R2, R3, R4) (SR2, SR3)
KADVG	Vandal guard
KADWG	Wireguard

NOTES:

- Must be ordered with SCWA.
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- SPD09, RPD09 or WWD09 must be used when luminaires are oriented on DM29, DM39 or DM49 drilling pattern.
- QRSTD available in select wattages. Consult factory.
- Only available with SR2, SR3, SR4CS optics.
- May be ordered as an accessory.
- Includes mounting arm.

Dimensions are shown in inches (centimeters) unless otherwise noted.

	KAD
EPA ⁸	1.2 ft ² (.11 m ²)
Square	17 1/2 (44.5)
Height	7 1/8 (18.1)
Max. weight	42 lbs (19.1 kg)



KAC

Contour®

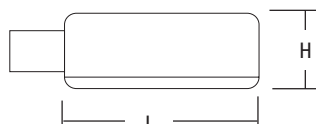
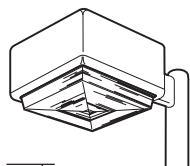


Ordering Information

Designation	Distribution
High Pressure Sodium	KAC (prismatic lens)
KAC 150S	FP Flat C73T
KAC 250S	DPA Drop acrylic
KAC 400S	DPP Drop polycarbonate
Metal Halide	
KAC 100M	
KAC 150M	
KAC 175M	
KAC 200M¹	
KAC 250M	
KAC 320M^{1,2}	
KAC 350M^{1,2}	
KAC 400M²	

Dimensions are shown in inches (centimeters) unless otherwise noted.

	KAC DP	KAC FP
EPA ⁹	1.4 ft ² (.13 m ²)	1.2 ft ² (.11 m ²)
Square	17 1/2 (44.5)	17 1/2 (44.5)
Height	11 1/8 (28.3)	7 1/8 (18.1)
Max. weight	40 lbs (18.1 kg)	42 lbs (19.1 kg)



Arm-Mounted Drop or Flat Lens Cutoff

Intended Use

For parking areas, street lighting, walkways and car lots.

Features

Housing – Rugged, die-cast, soft-corner aluminum housing with 0.12" nominal wall thickness. Extruded 4" soft corner arm for pole or wall mounting is standard.

Door Frame – KAD die-cast door frame has impact-resistant, tempered glass lens which is fully gasketed with one-piece bonded tubular silicone. KAC die-cast aluminum door frame has prismatic, impact-resistant, tempered glass, drop dish acrylic lens or drop dish polycarbonate lens. Door frame is fully gasketed with one-piece tubular silicone.

Optics – KAD reflectors are anodized hydroformed & segmented aluminum. Four cutoff distributions available: R2 (Roadway), R3 (Asymmetric), R4 (Forward Throw) and R5 (Symmetric). Segmented reflectors

are rotatable and field-interchangeable. KAC reflector is optical-quality aluminum that works in tandem with a light-diffusing prismatic lens.

Electrical – Ballast is high-reactance, high power factor (70-150W HPS, 100M & 150M) or high power factor constant-wattage autotransformer (175-400W MH & HPS). Ballast is copper wound and 100% factory tested.

Finish – Dark bronze (DDB) corrosion-resistant polyester powder finish (DDB), with other architectural colors available.

Socket – Porcelain, horizontally (position) oriented mogul-base socket (100M & 150M are medium-base) with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W-600V. 4KV pulse rated.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options). UL listed for wet locations. IP65 certified.

Example: KAC 250M DPA 120 SPD09

Voltage	Mounting	Options/Accessories
120	Included	Installed
208³	SPD04 4" square pole arm ⁵ (std.)	LPI Lamp included
240³	SPD09 9" square pole arm	SF Single fuse, 120V, 277V, 347V (n/a TB)
277	RPD04 4" round pole arm ⁵	DF Double fuse, 208V, 240V, 480V (n/a TB)
347	RPD09 9" round pole arm	PER NEMA twist-lock receptacle only (no photocontrol)
480³	WWD04 4" wood pole or wall ⁵	QRS Quartz restrrike system (250W max., 120V lamp not included) ⁶
TB⁴	WWD09 9" wood pole or wall	PD Power tray ⁷
	WBD04 4" wall bracket	WTB Terminal block ⁷
	WBD09 9" wall bracket	EC Emergency circuit
	Shipped separately	SCWA Super CWA pulse start ballast (n/a with any HPS, 100M or 175M)
	KMA Mast arm adapter	CSA CSA Certified
	KTMB Twin mounting bar	NOM NOM Certified (consult factory)
	DAD12P Degree arm (pole)	
	DAD12WB Degree arm (wall)	

NOTES:

- 1 Must be ordered with SCWA.
- 2 Requires ED28 lamp when ordered with SR2, SR3 or SR4C distributions.
- 3 Consult factory for availability in Canada.
- 4 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 5 SPD09, RPD09 or WWD09 must be used when luminaires are oriented on DM29, DM39 or DM49 drilling pattern.
- 6 QRSTD available in select wattages. Consult factory.
- 7 Only available with SR2, SR3, SR4CS optics.
- 8 May be ordered as an accessory.
- 9 Includes mounting arm.

For optional architectural colors, see page 485.

Shipped separately⁸

- PE1** NEMA twist-lock PE (120V-240V)
- PE3** NEMA twist-lock PE (347V)
- PE4** NEMA twist-lock PE (480V)
- PE7** NEMA twist-lock PE (277V)
- SC** Shorting cap for PER option
- HS** House-side shield (R2, R3, R4) (SR2, SR3)
- KADVG** Vandal guard
- KADWG** Wireguard

Die-Cast Cutoff with Pole

Intended Use

For parking areas, street lighting, walkways and car lots.

Features

Configuration – Choice of single-mount (KC1) or double-mount (KC2).

Housing – Rugged, die-cast, soft-corner aluminum housing with 0.12" nominal wall thickness. Extruded 4" soft corner arm for square pole mounting. Dark bronze (DDB) corrosion-resistant polyester powder finish.

Door Frame – Die-cast door frame has impact-resistant, tempered glass lens which is fully gasketed with one-piece bonded tubular silicone.

Lamp – Lamp included in fixture carton.

Electrical – Ballast is high-power factor, constant wattage, autotransformer, copper wound and 100% factory tested.

Socket – Porcelain, horizontally (position) oriented mogul-base socket with copper

alloy, nickel-plated screw shell and center contact. UL listed 1500W-600V. 4KV pulse rated.

Poles – Straight square steel, pre-drilled for single or double mount. Plugs included to close off unused mounting holes.

Finish – Fixture and pole are finished with dark bronze (DDB) corrosion-resistant polyester powder.

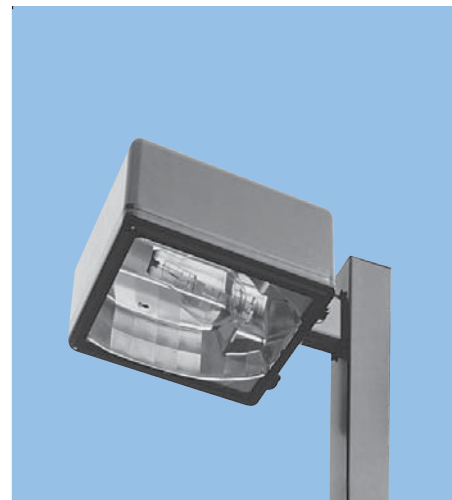
Optics – Reflectors are anodized hydro-formed/segmented aluminum. Two cutoff distributors available: R3 (Asymmetric) (std.) and R4 (Forward Throw).

Listings – UL Listed (standard). CSA Certified (see Options). UL listed for wet locations.

KC

KAD Combo

Contour®



Example: **KC1 250M 20C R3 4C**

Ordering Information

Designation ¹	Lamp	Pole length	Distribution	Pole diameter
KC1 Single mount	<u>Metal Halide</u>	16C 16-foot "C" pole	R3 Type III asymmetric (standard)	4C 4-inch "C" pole
KC2 Double mount	250M 400M	20C 20-foot "C" pole 25C 25-foot "C" pole 25G 25-foot "G" pole	R4 Type IV forward throw, sharp cutoff	4G 4-inch "G" pole

Maximum Wind Load ²		
Pole	KC1 Single	KC2 Double
16' 4C	100 MPH	100 MPH
20' 4C	100 MPH	100 MPH
25' 4C	90 MPH	90 MPH
25' 4G	100 MPH	100MPH

Wind Shown with 1.3 gusts

Typical Layouts using KC2 "twin" combos

Wattage	Pole*	Designing for 0.5 fc minimums		Designing for 1.0 fc minimums	
		Spacing	Avg. fc	Spacing	Avg. fc
(2) 400M R3	25'	120'x120'	2.5	120'x80'	3.9
(2) 250M R3	20'	120'x100'	1.7	60'x110'	3.0

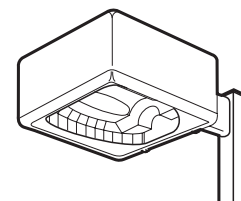
* Light levels assume 3' concrete base

NOTES:

- Ships with multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
 - Wind load shown with 1.3 gusts.
 - Includes arm.
- * Consult KAD or SSS specification sheets for additional information if needed.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	KC
EPA ³	1.2 ft ² (.11 m ²)
Square	17 1/2 (44.5)
Height	7 1/8 (18.1)
Arm length	4 (10.2)
Max. weight	42 lbs (19.1 kg)



KVF



Architectural Vertical Cutoff

Intended Use

For car lots, street lighting or parking areas.

Features

Construction – Heavy-gauge, die-formed aluminum housing, fabricated using robotic continuous seam-weld process for weathertight integrity. Integral structural support plate for mounting arm and electrical components. Hinged aluminium door frame with stainless steel hardware. Continuous silicone gasketing surrounds lens.

Finish – Standard finish is dark bronze corrosion-resistant electrostatically applied powder paint. Optional linear embossed accent reveals are available.

Optics – Vertical-lamp reflectors are one-piece spun and formed anodized aluminum. Horizontal-lamp reflectors also available. Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and

center contact. Horizontal position-oriented for types R2, R3 and R4. Reflectors are rotatable and interchangeable. UL listed 1500W-600V, 4KV pulse rated. Lamp included with fixture.

Electrical – Electrical components mounted to heavy-gauge plate to maximize heat dissipation and structural integrity. Constant-wattage autotransformer ballasts are copper wound and 100% factory tested. SuperCWA PulseStart ballasts required for 320M, 350M, 450M and 750M (must order SCWA option).

Installation – Extruded aluminium arm with integral splice compartment. Standard arm is 9" in length. (12" arm is required for fixtures mounted at 90°.)

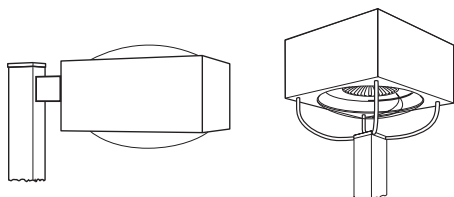
Listings – UL Listed (standard). CSA Certified (see Options). UL listed for wet locations. Optical chamber rated certified for ingress protection per IEC529 international standards.

Ordering Information

Example: **KVF 1000M SYMDL 480 SP09 LPI**

Designation	Distribution	Voltage	Mounting ⁴	Options/Accessories
<u>High Pressure Sodium</u>	<u>Vertical lamp distributions</u>	120	<u>Arm mounting</u>	<u>Installed</u>
KVF 250S	SYMDL Symmetric square, drop lens, semi-cutoff	208²	SP04 4" square pole arm ⁵	SF Single fuse, 120V, 277V, 347V (n/a TB)
KVF 400S	ASYDL Asymmetric, drop lens, semi-cutoff	240²	RP04 4" round pole arm ⁵	DF Double fuse, 208V, 240V, 480V (n/a TB)
KVF 1000S¹		277	SP06 6" square pole arm ⁵	PER NEMA twist-lock receptacle only (no photocontrol)
<u>Metal Halide</u>	SYMFL Symmetric square, flat lens, full-cutoff	347	RP06 6" round pole arm ⁵	QRS Quartz restrike system (250W max., 120V lamp not included)
KVF 175M		480²	SP09 9" square pole arm ⁵	LPI Lamp included (standard)
KVF 250M	ASYFL Asymmetric, flat lens, full-cutoff	TB³	SP12 12" square pole arm	L/LP Less lamp
KVF 320M			RP09 9" round pole arm ⁵	TLS Tool-less access
KVF 350M	VFADL Vertical forward throw automotive, drop lens, semi-cutoff		RP12 12" round pole arm	EC Emergency circuit
KVF 400M			WW12 12" wood pole or wall	CR Enhanced corrosion resistance
KVF 450M	VFAFL Vertical forward throw automotive, flat lens, full-cutoff		WB12 12" wall bracket	EHSB External house-side shield black ⁶
KVF 750M			KMA Mast arm (external fitter)	SCWA Super CWA pulse start ballast (n/a with any HPS)
KVF 1000M¹			<u>Post-top mounting</u>	EHS External house-side shield ⁶ (matches fixture finish)
	<u>Horizontal lamp distributions*</u>		PT4 Posttop, 4" OD open-top pole	EA Embossed accents
	R2DL Type II roadway, drop lens		PT45 Posttop, 4 1/2" OD open-top pole	CSA CSA Certified
	R3DL Type III asymmetric, drop lens		PT5 Posttop, 5" OD open-top pole	
	R2FL Type II roadway flat lens		PT6 Posttop, 6" OD open-top pole	
	R3FL Type III asymmetric flat lens		RPF20 Round pole fitter (2 3/8" OD tenon)	
	R4FL Type IV forward throw flat lens		RPF25 Round pole fitter (2 7/8" OD tenon)	
	<u>Segmented reflectors*</u>		SPF20 Square pole fitter (2 3/8" OD tenon)	
	SR2 Type II asymmetric		SPF25 Square pole fitter (2 7/8" OD tenon)	
	SR3 Type III asymmetric			
	SR4C Type IV forward throw, sharp cutoff			

*Not available with 450M



Dimensions are shown in inches (centimeters) unless otherwise noted.

	Arm-mount	Post-top
EPA	2.8 ft ² (.25 m ²)	2.8 ft ² (.25 m ²)
Square	21 1/2 (54.6)	21 1/2 (54.6)
Height	17 (43.2)	17 (43.2)
Overall depth	-	22.7 (57.7)
Max. weight	53 lbs (24 kg)	60 lbs (27.2 kg)

For optional architectural colors, see page 485.

Shipped separately⁶

PE1	NEMA twist-lock PE (120V-240V)
PE3	NEMA twist-lock PE (347V)
PE4	NEMA twist-lock PE (480V)
PE7	NEMA twist-lock PE (277V)
SC	Shorting cap for PER option
VG	Vandal guard
KVFEHS	External house-side shield (specify color)

For tenon slipfitters, see page 486.

NOTES:

- 1 Must use BT37 lamp.
- 2 Consult factory for availability in Canada.
- 3 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 4 For arm mounting, see technical data section in Outdoor binder for drilling template.
- 5 Must order SP12 or RP12 when two or more luminaires are oriented on a 90° drilling pattern.
- 6 May be ordered as accessories.

KVS

Arm-Mounted Square Cutoff

Intended Use

For lighting shopping center or stadium parking lots.

Features

Housing – Rugged, heavy-gauge, aluminum housing. Square shape, continuously welded seams for weather-tight integrity. EPDM closed-cell housing gasket. Dark bronze corrosion-resistant polyester powder finish (DDB) standard; other arch colors available.

Lens – Impact-resistant flat glass is standard for KVS1, R2, R3 & R4. Convex glass lens is standard with all KVS3, KVS1 & R5.

Door Frame – Extruded aluminum hinged door frame. All exposed hardware is stainless steel.

Mounting – Extruded 9" (KVS1) and 12" (KVS3) arms with integral splice compartment for wall or pole mounting. Optional mounting available.

Optics—One-piece, anodized, hydroformed aluminum reflector. Four cutoff distributions available: R2 (Roadway), R3 (Asymmetric), R4 (Forward Throw) and R5 (Symmetric). Reflectors hinge out for easy removal during installation/maintenance. R5 is vertically lamped; R2, R3, and R4 are horizontally lamped.

Electrical – 150W and below high reactance high power factor ballast. Constant-wattage autotransformer ballasts are copper wound and 100% factory tested. Removable, unitized power module and positive-locking disconnect plugs.

Socket – Mogul-base porcelain socket (100M & 150M are medium-base) with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W-600V. 4KV pulse rated.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options). UL listed for wet locations.



Example: **KVS1 150S R2 120 SP09 PER**

Ordering Information

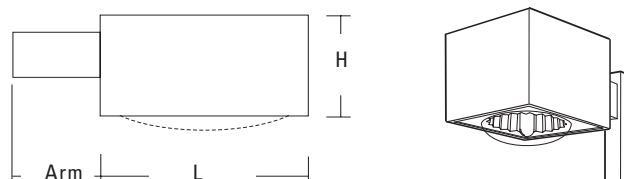
Designation	Distribution	Voltage	Mounting	Options/Accessories
High Pressure Sodium				
KVS1 70S	R2 R3 R4 R5	120	KVS1 (Shipped separately)	Installed
KVS1 100S	R2 R3 R4 R5	208³	SP09 Square pole arm	SF Single fuse, 120V, 277V, 347V
KVS1 150S	R2 R3 R4 R5	240³	RP09 Round pole arm	DF Double fuse, 208V, 240V, 480V
KVS1 250S	R2 R3 R4 R5	277	WW09 Wood pole or wall	PER NEMA twist-lock receptacle only (no photocontrol)
KVS1 400S	R2 R3 — R5	347	WB09 Wall bracket	QRS Quartz restrike system (100W max on KVS1, 250W max on KVS2; lamp not included) ⁴
KVS3 1000S	— — — R5	480³	KTMB Twin mounting bar (Directly mounts to 2 7/8" OD tenon)	CR Enhanced corrosion resistance
Metal Halide				
KVS1 100M	R2 R3 R4 R5	TB⁴	KVS3 (Shipped separately)	EC Emergency circuit
KVS1 150M	R2 R3 R4 R5		SP12 Square pole arm	MED Medium base socket (size 1 only)
KVS1 175M	R2 R3 R4 R5		RP12 Round pole arm	HS House-side shield (R3, R4, R5 only)
KVS1 200M¹	R2 R3 R4 R5		WW12 Wood pole	SCWA Super CWA pulse start ballast (n/a with HPS or 100M) (1000M & 175M with R5 only).
KVS1 250M	R2 R3 R4 R5		WB12 Wall bracket	CSA CSA Certified
KVS3 320M¹	R2 R3 — R5		MA Mast arm internal fitter ⁵	NOM NOM Certified (consult factory)
KVS3 350M¹	R2 R3 — R5		OPTIONAL MOUNTING	For optional architectural colors, see page 485.
KVS3 400M	R2 R3 — R5		KVS1 AND KVS3 (Shipped separately)	Shipped separately
KVS3 1000M²	R2 R3 — R5		KMA Mast arm adapter (KVS1 only) ⁶	PE1 NEMA twist-lock PE (120-240V) ⁷
			DA12P Degree arm (pole) ⁵	PE3 NEMA twist-lock PE (347V) ⁷
			DA12WB Degree arm (wall) ⁵	PE4 NEMA twist-lock PE (480V) ⁷
				PE7 NEMA twist-lock PE (277V) ⁷
				SC Shorting cap for PER option
				VG Vandal guard (n/a KVS3)

NOTES:

- Must be ordered with SCWA.
- Must use BT37 reduced jacket lamp for 1000M, R2 & R3. R5 takes BT56 standard lamp.
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Single/twin, 180° configuration.
- For use with 6" minimum 2-3/8" OD pipe.
- PER must be ordered with fixture.
- Includes mounting arm.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	KVS1	KVS3
EPA ⁸	1.8 ft ² (.17 m ²)	3.9 ft ² (.36 m ²)
Square	16 3/4 (42.0)	24 (61.0)
Height	10 1/2 (26.0)	16 1/2 (42.0)
Max. weight	33 lbs (15.0 kg)	74 lbs (34.0 kg)



KVE



Architectural Square Vertical

Intended Use

For streets, parking lots and surrounding areas.

Features

Housing – Square-shaped, rugged, heavy-gauge, extruded aluminum housing. Fully gasketed for weather-tight integrity. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder. Other architectural colors available.

Lens – Impact-resistant, clear, 3/16" thick, tempered drop lens.

Mounting – Extruded aluminum arm with integral splice compartment for wall or pole mounting is shipped in fixture carton. Optional mountings available.

Optics – Segmented, anodized aluminum optics are interchangeable and rotatable. Vertically lamped sealed optics include

symmetric, symmetric cutoff, asymmetric and asymmetric cutoff. Design redirects light around arc-tube for optimum lamp life and maximum efficiency. Five horizontal lamp cutoff distributions available: R2 (Roadway), R3 (Asymmetric), R4SC (Forward Throw, Sharp Cutoff), R4W (Wide, Forward Throw) and R5S (Symmetric).

Electrical – Constant-wattage autotransformer, high-power factor ballast. Ballast is copper wound and 100% factory tested. Removable power tray and positive locking disconnect plug.

Socket – Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options). UL listed for wet locations. US patent no. D417,026.

Ordering Information

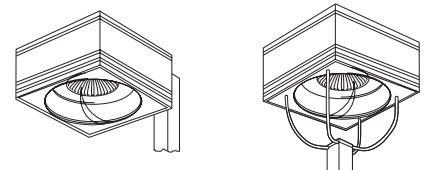
Example: **KVE2 250S SYM 120 RPV06 SF**

Designation	Distribution	Mounting ⁶	Options/Accessories
High Pressure Sodium	Vertical lamp distributions:	Included	Installed
KVE2 250S	SYM Symmetric, semi-cutoff ²	SPV04 4" square pole arm ^{7,8} (standard)	SF Single fuse, 120V, 277V, 347V (n/a TB)
KVE2 400S	SYMC Symmetric, full-cutoff (n/a 1000S)	SPV06 6" square pole arm ^{7,8}	DF Double fuse, 208V, 240V, 480V (n/a TB)
KVE3 1000S	ASY Asymmetric, semi-cutoff	SPV09 9" square pole arm ^{7,8}	PER NEMA twist-lock receptacle only (no photocontrol)
	ASVC Asymmetric, full-cutoff	SPV12 12" square pole arm ⁸	QRS Quartz restrike system (250W max., 120V only, lamp not included)
Metal Halide	Horizontal lamp distributions:	SPV14 14" square pole arm	CR Enhanced corrosion resistance
KVE2 175M	R2 Type II roadway (n/a 1000S) ³	RPV04 4" round pole arm ^{7,8}	EC Emergency circuit
KVE2 200M¹	R3 Type III asymmetric (n/a 1000S) ³	RPV06 6" square pole arm ^{7,8}	HS House-side shield (ASY, ASVC only. R2, R3 shipped separately)
KVE2 250M	R4SC Type IV forward throw, sharp cutoff (n/a 1000S) ³	RPV09 9" round pole arm ^{7,8}	SCWA Super CWA pulse start ballast (n/a with any HPS or 175M or 1000M horizontal)
KVE2 320M^{1,3}	R4W Type IV forward throw (1000M only) ³	RPV12 12" square pole arm ⁸	LS Lamp support (size 3 horizontal optics only)
KVE2 350M^{1,3}		RPV14 14" square pole arm	CSA CSA Certified
KVE2 400M³		WWV09 9" wood pole or wall	NOM NOM Certified (consult factory)
KVE3 1000M	R5S Type V symmetric square (1000M)	WBV09 9" wall bracket	For optional architectural colors, see page 485.
		Shipped separately	Shipped separately
		PT4 Posttop, 4" OD open-top pole	PE1 NEMA twist-lock PE (120-240V)
		PT45 Posttop, 4 1/2" OD open-top pole	PE3 NEMA twist-lock PE (347V)
		PT5 Posttop, 5" OD open-top pole	PE4 NEMA twist-lock PE (480V)
		PT6 Posttop, 6" OD open-top pole	PE7 NEMA twist-lock PE (277V)
		RPF20 Round pole fitter (2 3/8 OD tenon)	SC Shorting cap for PER option
		RPF25 Round pole fitter (2 7/8 OD tenon)	
		SPF20 Square pole fitter (2 3/8 OD tenon)	
		SPF25 Square pole fitter (2 7/8 OD tenon)	

- NOTES:
- Must be ordered with SCWA.
 - Meets IES cutoff criteria for 1000W high pressure sodium luminaire.
 - 320W, 350W, 400W MH requires ED28 lamp; 1000W MH requires BT37 lamp. Not available with KVE3 1000S.
 - Consult factory for availability in Canada.
 - Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
 - For arm mounting, see technical data section in Outdoor binder for drilling template.
 - For KVE2 luminaires, SPV12, RPV12, SPV14 or RPV14 must be used when two or more luminaires oriented on a 90° drilling pattern.
 - For KVE3 luminaires, SPV14 or RPV14 must be used when two or more luminaires oriented on a 90° drilling pattern.

Dimensions are shown in inches (centimeters) unless otherwise noted.

	KVE2 (arm)	KVE2 (post)	KVE3 (arm)	KVE3 (post)
EPA	3.3 ft ² (.31 m ²)	3.4 ft ² (.32 m ²)	4.2 ft ² (.39 m ²)	4.5 ft ² (.42 m ²)
Square	25 (63.5)	25 (63.5)	29 (73.7)	29 (73.7)
Height	16 3/4 (42.5)	23 7/8 (60.6)	18 1/2 (47.0)	18 1/2 (47.0)
Max. weight	77 lbs (34.9 kg)	87 lbs (39.5 kg)	87 lbs (39.5 kg)	97 lbs (44.0 kg)



KVR

Architectural Round Vertical

Intended Use

For streets, parking lots and surrounding areas.

Features

Housing – Cylindrically shaped, rugged, heavy-gauge, spun aluminum housing. Fully gasketed for weathertight integrity. Standard finish is dark bronze (DDB) polyester powder. Other architectural colors available.

Lens – Impact-resistant, clear, 3/16" thick, tempered drop lens.

Mounting – Extruded-aluminum arm with integral splice compartment for wall or pole mounting is shipped in fixture carton. Optional mountings available.

Optics – Segmented, anodized aluminum optics are interchangeable and rotatable. Vertically lamped sealed optics include

symmetric, symmetric cutoff, asymmetric and asymmetric cutoff. Design redirects light around arc-tube for optimum lamp life and maximum efficiency. Five horizontal lamp cutoff distributions available: R2 (Roadway), R3 (Asymmetric), R4SC (Forward Throw, Sharp Cutoff), R4W (Wide, Forward Throw) and R5S (Symmetric).

Electrical – Constant-wattage autotransformer, high-power factor ballast. Ballast is copper wound and 100% factory tested. Removable power tray and positive locking disconnect plug.

Socket – Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V.

Listings – UL Listed (standard). CSA Certified (see Options). UL listed for wet locations.



Example: **KVR2 250S SYM 120 RPVD06 SF**

Ordering Information

Designation	Distribution	Mounting ⁶	Options/Accessories
<u>High Pres. Sodium</u>	<u>Vertical lamp distributions</u>	<u>Included</u>	<u>Installed</u>
KVR2 250S	SYM Symmetric, semi-cutoff ²	SPVD04 4" square pole arm ^{7,8} (std.)	SF Single fuse, 120V, 277V, 347V (n/a TB)
KVR2 400S	SYMC Symmetric, full-cutoff (n/a 1000S)	SPVD06 6" square pole arm ⁸	DF Double fuse, 208V, 240V, 480V (n/a TB)
KVR3 1000S	ASY Asymmetric, semi-cutoff	SPVD09 9" square pole arm	PER NEMA twist-lock receptacle only (no photocontrol)
	ASYC Asymmetric, full-cutoff	SPVD12 12" square pole arm	QRS Quartz restrike system (250W max., 120V only, lamp not included)
<u>Metal Halide</u>	<u>Horizontal lamp distributions</u>	SPVD14 14" square pole arm	GFL Glass flat lens (n/a HPS)
KVR2 175M	R2 Type II roadway (n/a 1000S) ³	RPVD04 4" round pole arm ^{7,8}	CR Corrosion-resistant finish
KVR2 200M¹	R3 Type III asymmetric (n/a 1000S) ³	RPVD06 6" square pole arm ⁸	EC Emergency circuit
KVR2 250M	R4SC Type IV forward throw, sharp cutoff (n/a 1000S)	RPVD09 9" round pole arm	LS Lamp support (size 3 horizontal optics only)
KVR2 320M¹	R4W Type IV forward throw (1000M only) ³	RPVD12 12" square pole arm	HS House-side shield (ASY, ASYC only. R2, R3 shipped separately)
KVR2 350M¹	R5S Type V symmetric square (1000M only) ³	RPVD14 14" square pole arm	SCWA Super CWA pulse start ballast (n/a with HPS or 175M or 1000M horizontal)
KVR2 400M		WWVD09 9" wood pole or wall	CSA CSA Certified
KVR3 1000M		WBVD09 9" wall bracket	
	Voltage	<u>Shipped separately</u>	
	120, 208⁴, 240⁴, 277, 347, 480⁴, TB⁵	PT4 Posttop, 4" OD open-top pole ⁹	
		PT45 Posttop, 4 1/2" OD open-top pole ⁹	
		PT5 Posttop, 5" OD open-top pole ⁹	
		PT6 Posttop, 6" OD open-top pole ⁹	
		RPF20 Round pole fitter (2 3/8 OD tenon)	
		RPF25 Round pole fitter (2 7/8 OD tenon)	

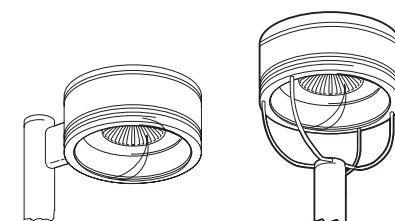


NOTES:

- Must be ordered with SCWA.
- Meets IES cutoff criteria for 1000W high pressure sodium luminaire.
- 400W and 1000W metal halide require reduced jacket lamp. Not available with KVR3 1000S.
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).
- For arm mounting, refer to technical data section in Outdoor binder for drilling template.
- For KVR2 luminaires, SPVD06, RPVD06, SPVD09, RPVD09, SPVD12 or RPVD12 must be used when two or more luminaires oriented on 90° drilling pattern.
- For 1000W luminaires, SPVD09, RPVD09, SPVD12 or RPVD12 must be used when two or more luminaires oriented on 90° drilling pattern.
- For use with round poles only.

Dimensions are shown in inches (centimeters) unless otherwise noted.

	KVR2 (arm)	KVR2 (post)	KVR3 (arm)	KVR3 (post)
EPA	1.5 ft ² (.14 m ²)	1.6 ft ² (.15 m ²)	2.0 ft ² (.19 m ²)	2.2 ft ² (.20 m ²)
Diameter	25 (63.5)	25 (63.5)	29 (73.7)	29 (73.7)
Height	16 3/4 (42.5)	23 7/8 (60.6)	18 1/2 (47.0)	18 1/2 (47.0)
Max. weight	65 lbs. (29.5 kg)	75 lbs (34.0 kg)	70 lbs (31.8 kg)	80 lbs. (36.3 kg)



KAR



Arm-Mounted Centriform Cutoff

Intended Use

For parking lots, plazas or entrances.

Features

Housing – Rugged, heavy-gauge, spun-aluminum housing in centriform shape. Dark bronze polyester corrosion-resistant powder finish (DDB) standard; other architectural colors available.

Door Frame – Aluminum door frame with 1/8" impact-resistant, tempered-glass lens. Stainless steel external hardware. One-piece EPT closed-cell gasket.

Mounting – Contoured, extruded-aluminum 9" (KAR1/ KAR2) and 12" (KAR3) arms with integral splice compartment for pole or wall mounting. Optional mountings available.

Optics – Anodized, hydroformed aluminum reflectors. Four cutoff distributions available: R2 (Roadway), R3 (Asymmet-

ric), R4 (Forward Throw) and R5S (Symmetric). R4 reflector is field-rotatable. Reflectors hinge out for easy installation and maintenance.

Electrical – 150S, 100-150M high reactance, high-power factor ballast. Constant-wattage autotransformer ballast, copper wound and 100% factory tested. Removable power door and positive-locking disconnect plugs.

Socket – Horizontally oriented mogul-base porcelain socket (100M & 150M are medium-base) with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W-600V. 4KV pulse rated.

Listings – UL Listed (standard). CSA Certified (see Options). UL listed for wet locations.

Ordering Information

Example: **KAR3 1000S R4 120 RPD12 QRS**

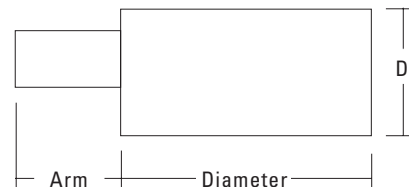
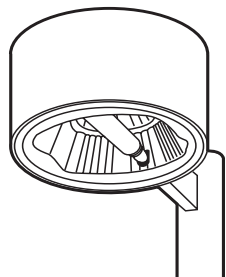
Designation	Distribution
<u>High Pressure Sodium</u>	R2 Type II roadway (n/a 1000S)
KAR1 150S	
KAR2 250S	R3 Type III asymmetric
KAR2 400S	R4 Type IV forward throw, (n/a size 1)
KAR3 1000S	R5S Type V symmetric square (n/a size 1)
<u>Metal Halide</u>	
KAR1 100M	
KAR1 150M	
KAR1 175M	
KAR1 200M¹	
KAR1 250M	
KAR2 320M¹	
KAR2 350M¹	
KAR2 400M	
KAR3 1000M	

Voltage	Mounting
120	<u>KAR1/KAR2, shipped separately</u>
208²	SPD09 9" square pole arm
240²	RPD09 9" round pole arm
277	WWD09 9" wood pole or wall
347	WBD09 9" wall bracket
480²	<u>KAR3, shipped separately</u>
TB³	SPD12 12" square pole arm
	RPD12 12" round pole arm
	WWD12 12" wood pole or wall
	WBD12 12" wall bracket
	<u>Shipped separately</u>
	KMA Mast arm adapter
	KTMB Twin mounting bar
	DAD12P Degree arm (pole)
	DAD12WB Degree arm (wall)

Options/Accessories
<u>Installed</u>
SF Single fuse, 120V, 277V, 347V (n/a TB)
DF Double fuse, 208V, 240V, 480V (n/a TB)
PER NEMA twist-lock receptacle only (no photocontrol)
QRS Quartz restrike system (250W max, 120V lamp not included)
CR Enhanced corrosion resistance
EC Emergency circuit
HS House-side shield (R3, R4 only)
SCWA Super CWA pulse start ballast (n/a with HPS, 100M, 175M or 1000M)
CSA CSA Certified
For optional architectural colors, see page 485.
<u>Shipped separately</u>
PE1 NEMA twist-lock PE (120V-240V) ⁴
PE3 NEMA twist-lock PE (347V) ⁴
PE4 NEMA twist-lock PE (480V) ⁴
PE7 NEMA twist-lock PE (277V) ⁴
SC Shorting cap for PER option
VG Vandal guard (KAR1/2 below 400W)
For tenon slipfitters, see page 486.

Dimensions are shown in inches (centimeters) unless otherwise noted.

	KAR1	KAR2	KAR3
EPA ⁵	1.2 ft ² (.11 m ²)	1.5 ft ² (.14 m ²)	2.2 ft ² (.20 m ²)
Diameter	19 1/2 (49.5)	21 1/2 (54.6)	30 (75.6)
Width	16 3/16 (41.1)	18 1/2 (47.0)	24 5/16 (61.8)
Height	7 1/4 (18.4)	8 5/16 (21.1)	10 1/2 (26.7)
Arm length	9 (22.9)	9 (22.9)	12 (30.5)
Max. weight	36 lbs (15.0 kg)	45 lbs (20.0 kg)	53 lbs (24.0 kg)



NOTES:

- 1 Must be ordered with SCWA.
- 2 Consult factory for availability in Canada.
- 3 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 4 PER must be ordered with fixture.
- 5 Includes mounting arm.

KKR

Intended Use

For walkways, plazas or pedestrian areas.

Features

Housing – Rugged, heavy-gauge, spun-aluminum housing. EPDM one-piece, closed-cell gasket. Dark bronze corrosion-resistant polyester powder finish (DDB) standard; other architectural colors available.

Enclosure – Thermoformed, clear acrylic, 0.125" minimum wall thickness. Lens gaskets are EPDM one-piece closed-cell.

Mounting – Internal expansion sleeve pole-fitter with integral splice compartment. Clean transition to pole via 1/4" transition plate. No external hardware. **Mounts to 4 1/2" round, open-top pole.** Other sizes require tenon and tenon slipfitter.

Optics – One-piece, hydroformed, anod-

ized-aluminum reflectors. Four cutoff distributions available: R3 (Asymmetric), R4 (Forward Throw), R5 (Symmetric, vertical) and R5S (Square). Field-interchangeable reflectors hinge out for easy maintenance.

Electrical – 70-150S high reactance, high-power factor ballast. Constant-wattage autotransformer ballasts (-40°F starting), copper wound and 100% factory tested. Removable, unitized power module. Positive-locking disconnect plugs (primary and secondary).

Socket – Horizontally oriented, mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W-600V. 4KV pulse rated.

Listings – UL Listed (standard). CSA Certified (see Options). UL listed for wet locations.



Example: **KKR 175M R5S 120 QRS**

Ordering Information

Designation	Distribution	Voltage	Optional mounting ⁵
<u>High Pressure Sodium</u>	R3	120	<u>Shipped separately</u>
KKR 70S	R4²	208³	SM Side-mounting assembly (one per luminaire)
KKR 100S	R5²	240³	WM Wall-mounting assembly
KKR 150S	R5S	277	T20 Tenon slipfitter (for 2" pipe tenon, 2 ³ / ₈ " OD)
KKR 250S		347	T25 Tenon slipfitter (for 2 1/2" pipe tenon, 2 7/8" OD)
KKR 400S		480³	Mounts to any 4 1/2" round open-top pole. Other pole sizes require tenon and tenon slipfitter.
		TB⁴	
<u>Metal Halide</u>			
KKR 150M			
KKR 175M			
KKR 200M¹			
KKR 250M			
KKR 320M¹			
KKR 350M¹			
KKR 400M			

Options/Accessories	
<u>Installed</u>	
SF	Single fuse, 120V, 277V, 347V
DF	Double fuse, 208V, 240V, 480V
PER	NEMA twist-lock receptacle only (no photocontrol)
QRS	Quartz restrrike system (250W max, 120V lamp not included).
CR	Enhanced corrosion resistance
EC	Emergency circuit
PC	Polycarbonate lens
LS	Lamp support
HS	House-side shield (R3 and R4 only)
SCWA	Super CWA pulse start ballast (n/a with HPS or 175M).
CSA	CSA Certified
For optional architectural colors, see page 485.	
<u>Shipped separately</u>	
PE1	NEMA twist-lock PE (120V-240V) ⁶
PE3	NEMA twist-lock PE (347V) ⁶
PE4	NEMA twist-lock PE (480V) ⁶
PE7	NEMA twist-lock PE (277V) ⁶
SC	Shorting cap for PER option

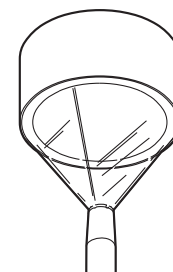
For tenon slipfitters, see page 486.

NOTES:

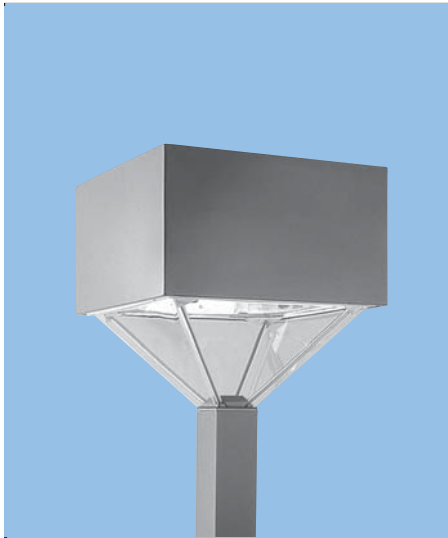
- Must be ordered with SCWA.
- KKR 400M R4 and R5 require ED28 reduced jacket lamp.
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- When ordering separately, order as KKR SM, KKR WM, KKR T20, or KKR T25.
- PER option must be ordered with fixture.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	<i>KKR</i>
EPA	1.6 ft ² (.15 m ²)
Diameter	22 1/4 (56.5)
Housing height	11 (27.9)
Overall height	20 1/2 (52.1)
Max. weight	45 lbs (20.0 kg)



KKS



Square Post-Top Cutoff

Intended Use

For walkways, plazas or pedestrian areas.

Features

Housing – Rugged, heavy-gauge, formed-aluminum housing. EPDM one-piece, closed-cell gasket. Dark bronze corrosion-resistant polyester powder finish (DDB) standard; other architectural colors available.

Door Frame – Permanent-mold, cast-aluminum door frame with positive hold-open device. Stainless steel external hardware.

Enclosure – Thermoformed clear acrylic, 0.125" minimum wall thickness. Lens gaskets are EPDM one-piece closed-cell.

Mounting – Internal expansion sleeve pole-fitter with integral splice compartment. Clean transition to pole via 1/4" transition plate. No external hardware. **Mounts to 4" square, open-top pole.** Other pole sizes require tenon and tenon slipfitter.

Optics – One-piece, hydroformed, anodized-aluminum reflectors. Four cutoff distributions available: R3 (Asymmetric), R4 (Forward Throw), R5 (Symmetric, vertical) and R5S (Square). Field-interchangeable reflectors hinge out for easy maintenance.

Electrical – 70-150S high reactance, high-power factor ballast. Constant-wattage autotransformer ballasts are copper wound and 100% factory tested. Removable, unitized power door and positive-locking disconnect plugs (primary and secondary).

Socket – Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W-600V. 4KV pulse rated.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options). UL listed for wet locations.

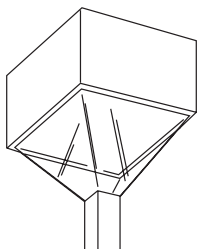
Ordering Information

Example: **KKS 70S R3 120 QRS**

Designation	Distribution	Voltage	Optional mounting ⁵	Options/Accessories
High Pressure Sodium				
KKS 70S	R3	120	<u>Shipped separately</u>	<u>Installed</u>
KKS 100S	R4 ²	208 ³	SM Side-mounting assembly (one per luminaire)	SF Single fuse, 120V, 277V, 347V
KKS 150S	R5 ²	240 ³	WM Wall-mounting assembly	DF Double fuse, 208V, 240V, 480V
KKS 250S	R5S	277		T20 Tenon slipfitter (for 2" pipe tenon, 2 ³ / ₈ " OD)
KKS 400S		347		QRS Quartz restrrike system (250W max, 120V lamp not included).
		480 ³		CR Enhanced corrosion resistance
		TB ⁴	Mounts to any 4" square open-top pole. Other pole sizes require tenon and tenon slipfitter.	EC Emergency circuit
Metal Halide				
KKS 150M				PC Polycarbonate lens
KKS 175M				HS House-side shield (R3 and R4 only)
KKS 200M ¹				SCWA Super CWA pulse start ballast (n/a with HPS or 175M).
KKS 250M				CSA CSA Certified
KKS 320M ¹				NOM NOM Certified (consult factory)
KKS 350M ¹				
KKS 400M				

Dimensions are shown in inches (centimeters) unless otherwise noted.

	KKS
EPA	2.5 ft ² (.23 m ²)
Square	20 ¹ / ₄ (51.4)
Housing height	11 ³ / ₄ (29.9)
Overall height	20 ³ / ₄ (52.7)
Max. weight	54lbs (24.4kg)



NOTES:

- 1 Must be ordered with SCWA.
- 2 KKS 400M R4 or R5 requires ED28 reduced jacket lamp.
- 3 Consult factory for availability in Canada.
- 4 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 5 When ordering separately, order as KKS SM, KKS WM or KKS T20.
- 6 PER option must be ordered with fixture.

For optional architectural colors, see page 485.

Shipped separately

- PE1 NEMA twist-lock PE (120V-240V)⁶
- PE3 NEMA twist-lock PE (347V)⁶
- PE4 NEMA twist-lock PE (480V)⁶
- PE7 NEMA twist-lock PE (277V)⁶
- SC Shorting cap for PER option

For tenon slipfitters, see page 486.

Intended Use

For parking areas, new construction or retrofit.

Features

Housing – Rugged, heavy-gauge, aluminum housing in symmetric square shape. Continuously welded seams for weather-tight integrity. Recessed, combination-head 1³/₄" turn fastener. Positive-locking device retains housing open during servicing. Dark bronze corrosion-resistant polyester powder finish (DDB) standard; other architectural colors available.

Lensframe – Die-cast aluminum lens frame. Butyl rubber gasket and EPT closed-cell foam gasket prevent entry of outside contaminants. Brushed-aluminum legs factory-installed into lens frame.

Lens – Impact-resistant tempered flat glass. Drop lens standard on 1000M.

Mounting – Slipfitter pole-top mounting for

2³/₈" OD x 5" high tenon. Mounting hardware packaged separately.

Optics – One-piece, hydroformed aluminum, multifaceted, anodized aluminum reflectors. Two cutoff distributions available: R3 (Asymmetric) and R5S (Square). Field-interchangeable reflectors hinge out for servicing.

Electrical – 150S high-reactance, high power factor ballast. Constant-wattage autotransformer, copper wound and 100% factory-tested. All electrical components are unitized on power module for ease of installation and maintenance. Positive-locking disconnect plugs (primary and secondary).

Socket – Horizontally oriented, mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W-600V, 4KV pulse rated.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options). UL listed for wet locations.



Ordering Information

Example: **KQS 250S R3 120 SPF QRS**

Designation	Distribution	Voltage	Mounting	Options/Accessories
<u>High Pressure Sodium</u>	R3	120	<u>Shipped separately</u>	<u>Installed</u>
KQS 150S	R5S	208⁴	SPF Square pole fitter (standard) for 2 ³ / ₈ " OD x 5" tenon	SF Single fuse, 120V, 277V, 347V
KQS 250S		240⁴	RPF Round pole fitter 2 ³ / ₈ " OD x 5" tenon	DF Double fuse, 208V, 240V, 480V
KQS 400S		277		PER NEMA twist-lock receptacle only (no photocontrol)
KQS 1000S¹		347		QRS Quartz restrike system (500W max, 120V lamp not included)
<u>Metal Halide</u>		480⁴		CR Enhanced corrosion resistance
KQS 175M		TB⁵		EC Emergency circuit
KQS 200M²				LS Lamp support (1000W only)
KQS 250M				HS House-side shield (R3 only)
KQS 320M²				SCWA Super CWA pulse start ballast (n/a with HPS, 175M or 1000M)
KQS 350M²				CSA CSA Certified
KQS 400M				NOM NOM Certified (consult factory)
KQS 1000M³				For optional architectural colors, see page 485.

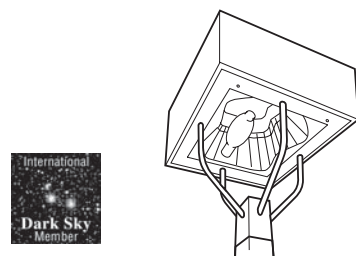
Shipped separately

PE1 NEMA twist-lock PE (120V-240V)⁶
PE3 NEMA twist-lock PE (347V)⁶
PE4 NEMA twist-lock PE (480V)⁶
PE7 NEMA twist-lock PE (277V)⁶
SC Shorting cap for PER option
VG Vandal guard (400W max.)

NOTES:
 1 Not available with R3 distribution.
 2 Must be ordered with SCWA.
 3 KQS 1000M requires BT37 reduced jacket lamp.
 4 Consult factory for availability in Canada.
 5 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
 6 PER option must be ordered with fixture.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	KQS
EPA	2.2 ft ² (.21 m ²)
Square	24 (70.0)
Housing height	9 ¹ / ₂ (24.1)
Overall height	27 ¹ / ₂ (69.9)
Max. weight	67 lbs (30.0 kg)



TDD



Ordering Information

Designation	Voltage
High Pressure Sodium TDD 100S TDD 150S	120
Mercury Vapor TDD 175MV	

Dusk-to-Dawn Area Lighters

Intended Use

For lighting yards and parking lots, service roads and building perimeters.

Features

Housing – Rugged, die-cast, aluminum head with standard NEMA photocell receptacle.

Optics – Formed aluminum reflectors and open bottom refractor for ease of maintenance and lamp replacement. Prismatic refractor provides uniform symmetrical Type V distribution, mogul based socket.

Installation – Mounting arm and all mounting hardware is included in carton. Photocell and lamp are included in carton. (24" mounting arm)

Listings – UL Listed to US and Canadian safety standards. UL/C-UL listed for wet locations (25°C ambient temperature).

Example: **TDD 175MV 120 PER LPI**

Photocell	Lamp
PER Photocell receptacle and NEMA twist-lock photocell included as standard	LPI Lamp included as standard

Accessories (Order separately)

- PE1** Replacement photocell
- RK1 TDDLENS** Replacement lens

Dimensions are shown in inches (centimeters) unless otherwise noted.

	TDD
EPA	0.8 ft ² (0.07m ²)
Height	17 (43.18)
Width	12(30.48)
Depth	12(30.48)
Max weight	12 lbs (5.44 kg)

TDB

NEW



Ordering Information

Designation	Voltage
High Pressure Sodium TDB 50S 70S 100S 150S	120
Mercury Vapor TDB 100MV 175MV 250MV	

Intended Use

For lighting yards and parking lots, service roads and building perimeters.

Features

Housing – Rugged, die-cast, aluminum head with standard NEMA photocell receptacle.

Optics – Formed aluminum reflectors and open-bottom refractor for easy maintenance and lamp replacement. Optical assembly attaches via two tool-less toggle latches. Prismatic acrylic refractor provides

uniform symmetrical Type V distribution. (glass for 250MV).

Installation – Squared 1¼" (OD) Mounting arm and all mounting hardware is included in carton. Photocell and lamp are included in carton. (24" mounting arm)

Listings – Standard Product is NOT listed by UL, CSA, or NOM.

Example: **TDB 175MV 120 PKG**

Options/Accessories
Shipped installed in fixture
PKG Fixture, mounting arm, hardware, lamp and photoeye included in one box (standard)
L/PKG Fixture, optical and receptacle only in box

Accessories (Order separately)

- RK1 TDDLENS A1250B** Replacement lens

Dimensions are shown in inches (centimeters) unless otherwise noted.

	TDB
EPA	0.8 ft ² (0.07m ²)
Height	15 ½ (39.4)
Width	12(30.48)
Depth	12(30.48)
Max weight	15 lbs (6.8 kg)

Dusk-to-Dawn Area Lighters

Intended Use

For lighting yards and parking lots, service roads and building perimeters.

Features

Housing – Rugged, die-cast, aluminum head with standard NEMA photocell receptacle.

Optics – Fluted aluminum reflectors and open bottom refractor for ease of maintenance and lamp replacement. Prismatic acrylic refractor provides uniform symmet-

rical Type V distribution. (Glass for 250MV).

Installation – 1¼" (OD) Mounting arm and all mounting hardware is included in carton. Photocell and lamp are included in carton. (18"-24" mounting arm depending on wattage).

Listings – 150S and below and 175 and below are UL listed for wet locations. For CSA or NOM requirements, consult factory.

Ordering Information

Designation	Voltage
<u>High Pressure Sodium</u>	120
TDL 70S	
100S	
150S	
<u>Mercury Vapor</u>	
TDL 175MV	
250MV	

Example: TDL 175MV 120 PKG

Options
<u>Shipped installed in fixture</u>
PKG Fixture, mounting arm, hardware, lamp and photoeye included in one box (standard)
L/PKG Fixture, optical and receptacle only in box

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

TDL	
EPA	0.8ft ² (0.07m ²)
Height	15½ (39.4)
Width	12(30.48)
Depth	12(30.48)
Max weight	18 lbs (8.16 kg)

TDL

NEW



Intended Use

For lighting yards and parking lots, service roads and building perimeters.

Features

Housing – Rugged, die-cast, aluminum head with standard NEMA photocell receptacle.

Optics – Spun anodized aluminum reflector delivers IES type V full-cutoff distributions. Open bottom housing provides easy maintenance and lamp replacement.

Installation – 1¼" (OD) Mounting arm and all mounting hardware is included in carton. Photocell and lamp are included in carton. (18" mounting arm)

Listings – Standard product is NOT listed by UL, CSA, or NOM.

Ordering Information

Designation	Voltage
<u>High Pressure Sodium</u>	120
TDC 70S	
100S	
150S	
<u>Mercury Vapor</u>	
TDC 175MV	
250MV	

Example: TDC 175MV 120 PKG

Options
<u>Shipped installed in fixture</u>
PKG Fixture, mounting arm, hardware, lamp and photoeye included in one box (standard)
L/PKG Fixture, optical and receptacle only in box

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

TDC	
EPA	1.2ft ² (0.11m ²)
Height	17 (43.18)
Width	12(30.48)
Depth	12(30.48)
Max weight	12 lbs (5.44 kg)

TDC

NEW



CHE



Small Roadway Lighting

Intended Use

Ideal for roadways, residential streets, storage areas, parking lots, campuses and parks.

Features

Construction – Stainless steel latch permits easy opening with one hand for relamping and servicing. Large surface area "breathing-seal" polyester gasketing protects reflector and lens from contaminants; maintains maximum optical efficiency. Available with or without twist-lock photocontrol receptacle. Integral wildlife shield.

Finish – Gray polyester powder paint finish is electrostatically applied for superior corrosion resistance.

Optical System – Ovate refractors in a variety of materials or flat tempered glass full cutoff lens provides a choice of effi-

cient light distributions for every application. Optics are computer designed for maximum performance.

Electrical System – Reactor, normal power factor ballast standard. High power factor available (see Options). Two or three-position (L1, L2, N) tunnel type compression terminal block standard.

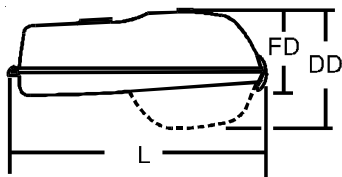
Installation – Two-bolt mast arm mount. Arm is compatible with 1.25" - 2.0" (3.2cm - 5.1cm) mast arm.

Listings – IP32 rated housing and IP54 rated optical assembly is standard. IP65 rating is available for optical assembly, see options. Standard product is NOT listed by UL, CSA or NOM. For specific listing requirements, consult factory.

Ordering Information

Example: **CHE 100S R2 DLG 120 PER LPI**

Series	Wattage	NEMA distribution	Lens	Voltage	Ballast options	Options
CHE	<u>High Pressure Sodium</u> 35S¹ 50S 70S 100S 150S	R2 R3	DLG Drop lens glass (standard) DLA Drop lens acrylic DLP Drop lens polycarbonate FL Flat tempered glass lens, full cutoff	(blank) 120 L/E L/E ²	(blank) Reactor normal power factor ballast (standard) RHP Reactor high power factor ballast	<u>Installed</u> LPI Lamp included PER NEMA twist-lock receptacle only (photocontrol not included) PE1 NEMA twist-lock PE (120V) IP65 IP65 rating for optics <u>Shipped separately³</u> SC Shorting cap for PER option



- NOTES:
 1 Not available with RHP.
 2 Shipped without ballast/electrical components.
 3 May be ordered as an accessory.

Dimensions are shown in **inches (centimeters)** and **pounds (kilograms)** unless otherwise noted.

	CHE
Flat lens EPA	.61 ft ² (.057 m ²)
Drop lens EPA	.77 ft ² (.072 m ²)
Length	21 (53.3)
Width	12 ¹ / ₈ (32.7)
Flat lens depth	6 ⁷ / ₈ (12.5)
Drop lens depth	10 ¹ / ₂ (26.7)
Weight	12 (5.4)

CHL CHLD

Intended Use

Ideal for roadways, residential streets, storage areas, parking lots, shopping centers, apartments and condominium complexes, campuses and parks.

Features

Construction – Die-cast trigger latch on lower housing permits easy one-hand opening for relamping and servicing. Large surface area "breathing-seal" polyester gasketing protects reflector and lens from contaminants; maintains maximum optical efficiency. Die-cast low copper aluminum alloy for light weight, strength and reliable service. Available with or without twist-lock, photocontrol receptacle. **CHLD units:** all major electrical components mounted on removable power door for easy field servicing and maintenance.

Finish – Gray polyester powder paint finish

is electrostatically applied for superior corrosion resistance.

Optical System – Ovate refractors or full cutoff flat lens styles provide a choice of efficient light distributions for every application. Optics are computer designed for maximum performance. One-piece screw shell socket provides positive retention of lamp under vibration.

Electrical System – Lag, high power factor (HPS) or constant wattage autotransformer (MH and MV) standard. Two- or three-position (L1, L2, N) tunnel type compression terminal block standard.

Installation – Two-bolt mast arm mount with integral stepped leveling system provides secure mounting and easy leveling.

Listings – IP64 rated optical assembly. IP65 rating available; see Options. Standard product is NOT listed by UL, CSA or NOM. For specific listing requirements, consult factory.

NEW



Ordering Information

Example: **CHL 150S R2 DLG 120 LP1 PER**

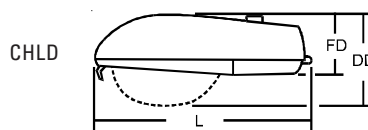
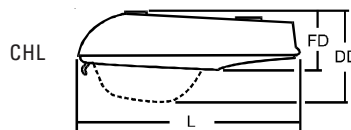
Series	Wattage	NEMA distribution	Lens	Voltage	Ballast options	Options
CHL	<u>Metal Halide</u>	R2	DLG Drop lens glass (standard)	120	(blank) Standard ballast (see Features)	<u>Installed</u>
CHLD	175M 250M	R3	DLA Drop lens acrylic	208 240 277 480	RNP Reactor normal power factor ballast ⁶	LPI Lamp included
	<u>Mercury Vapor</u>		DLP Drop lens polycarbonate	TB² TB¹²	RHP Reactor high power factor ballast	PER NEMA twist-lock receptacle only (photocontrol not included)
	175MV 250MV		FL Flat tempered glass lens, full cutoff ¹	TB² TB³ 120/240³	50HZ 50 Hertz (consult factory)	PE1 NEMA twist-lock PE (120V, 208V, 240V)
	<u>High Pressure Sodium</u>		FLX Flat tempered glass lens, high-performance full cutoff ¹	TB³ 240/480⁴ L/E⁵		PE4 NEMA twist-lock PE (480V)
	50S 70S 100S 150S 250S					PE7 NEMA twist-lock PE (277V)

NOTES:

- HPS only, 150W max. with R3.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). TB prepwired to 277V. Others are: TB1 = 120V, TB2 = 208V, TB3 = 240V.
- MV only, prepwired to 120V.
- MV only, prepwired to 240V.
- Shipped without ballast/electrical components.
- HPS only, 150W max.
- Available in 120V and 240V only.
- 120V, 277V only. Not available with TB.
- 208V, 240V and 480V only. Not available with TB.
- May be ordered as an accessory.

Dimensions do not include mounting arm. Dimensions are shown in **inches (centimeters)** and **pounds (kilograms)** unless otherwise noted.

	CHL	CHLD
Flat Lens EPA	.74 ft ² (.07 m ²)	.74 ft ² (.07 m ²)
Drop Lens EPA	.90 ft ² (.08 m ²)	.90 ft ² (.08 m ²)
Flat Lens Depth	6 1/2 (16.5)	6 1/2 (16.5)
Drop Lens Depth	10 1/8 (25.7)	10 1/8 (25.7)
Length	27 (66.6)	27 (66.6)
Width	13 (33.0)	13 (33.0)
Weight	29 (13.2)	33 (15.0)



Shipped separately¹⁰

SC Shorting cap for PER option.

CHM CHMD

NEW



Medium-Wattage Roadway Lighting

Intended Use

Ideal for roadways, residential streets, storage areas, parking lots, shopping centers, apartments and condominium complexes, campuses and parks.

Features

Construction – Die-cast trigger latch on lower housing for easy one-hand opening for relamping and servicing. Large surface area "breathing-seal" polyester gasketing protects reflector and lens from contaminants; maintains maximum optical efficiency. Die-cast low copper aluminum alloy for light weight, strength and reliable service. **CHMD units:** all major electrical components mounted on removable power door for easy field servicing and maintenance.

Finish – Gray polyester powder paint finish is electrostatically applied for superior corrosion resistance.

Optical System – Ovate refractors or full cutoff flat lens styles provide a choice of efficient light distributions for every applications. Optics are computer designed for maximum performance. One-piece screw shell socket for positive retention of lamp under vibration.

Electrical System – Lag, high power factor or constant wattage autotransformer standard. Two- or three-position (L1, L2, N) tunnel type compression terminal block standard.

Installation – Four-bolt mast arm mount – the most secure mounting in the industry.

Listings – IP64 rated optical assembly. IP65 rating available; see Options. Standard product is NOT listed by UL, CSA or NOM. For specific listing requirements, consult factory.

Ordering Information

Example: **CHM 400S R2 DLG 120 LPI PER**

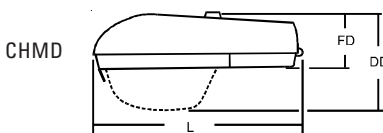
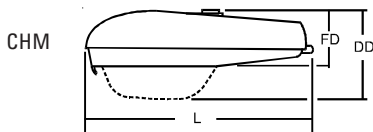
Series	Wattage	NEMA distribution	Lens	Voltage	Ballast options	Options
CHM CHMD	<u>Metal Halide</u>	R2 R3	DLG Drop lens glass (standard)	120	(blank) Standard ballast (see Features)	<u>Installed</u>
	175M 250M¹ 320M² 350M² 400M¹		DLP Drop lens polycarbonate	208 240 277	SCWA Super CWA pulse start	LPI Lamp included LPIC Coated lamp included (MV) PER NEMA twist-lock receptacle only (photocontrol not included)
	<u>Mercury Vapor</u>		FL Flat tempered glass lens, full cutoff ³	480 TB⁴ TB1⁴ TB2⁴ TB3⁴	50HZ 50 Hertz (consult factory)	PE1 NEMA twist-lock PE (120V, 208V, 240V) PE4 NEMA twist-lock PE (480V) PE7 NEMA twist-lock PE (277V)
	175MV 250MV 400MV		FLX Flat tempered glass lens, high-performance full cutoff ³	120/240⁵ 240/480⁶ L/E⁷	RNP Reactor normal power factor ballast ⁴ RHP Reactor high power factor ballast ⁴	CF Charcoal filter, silicone lens gasket IP65 IP65 rating for optics LSA1 Single lighting surge arrestor ⁸ LSA2 Dual lighting surge arrestor ⁸
	<u>High Pressure Sodium</u>		DLX Drop clear lens, high-performance cutoff			SF Single 5 amp fuse ⁹ SF10 Single 10 amp fuse ⁹ SF15 Single 15 amp fuse ⁹ SF20 Single 20 amp fuse ⁹ DF Double 5 amp fuse ¹⁰ DF10 Double 10 amp fuse ¹⁰ DF15 Double 15 amp fuse ¹⁰ DF20 Double 20 amp fuse ¹⁰ DDB Dark bronze finish DBL Black finish
	200S 250S 310S 400S					SC Shorting cap for PER option.

NOTES:

- 1 May be ordered with SCWA.
- 2 Must be ordered with SCWA.
- 3 HPS only.
- 4 Optional multi-tap ballast (120V, 208V, 240V, 277V). TB prewired to 277V. Others are: TB1 = 120V, TB2 = 208V, TB3 = 240V.
- 5 MV only, prewired to 120V.
- 6 MV only, prewired to 240V.
- 7 Shipped without ballast/electrical components.
- 8 Available in 120V and 240V only.
- 9 120V and 277V only.
- 10 208V, 240V and 480V only.
- 11 May be ordered as an accessory.

Dimensions do not include mounting arm. Dimensions are shown in **inches (centimeters)** and **pounds (kilograms)** unless otherwise noted.

	CHM	CHMD
Flat Lens EPA	1.14 ft ² (.11 m ²)	1.14 ft ² (.11 m ²)
Drop Lens EPA	1.3 ft ² (.12 m ²)	1.3 ft ² (.12 m ²)
Flat Lens Depth	7 1/2 (19.1)	7 1/2 (19.1)
Drop Lens Depth	14 (35.6)	14 (35.6)
Length	31 1/2 (80.0)	31 1/2 (80.0)
Width	14 3/4 (37.5)	14 3/4 (37.5)
Weight	41 (18.6)	45 (20.4)



Intended Use

Ideal for roadways, residential streets, storage areas, parking lots, shopping centers, apartments and condominium complexes, campuses and parks.

Features

Construction – Die-cast trigger latch on lower housing for easy one-hand opening for relamping and servicing. Large surface area "breathing-seal" polyester gasketing protects reflector and lens from contaminants; maintains maximum optical efficiency. Die-cast low copper aluminum alloy for light weight, strength and reliable service. Available with or without twist-lock photocontrol receptacle.

Finish – Gray polyester powder paint finish is electrostatically applied for superior corrosion resistance.

Optical System – Precision ovate refractor/reflector optics provide a uniform distribution pattern with superior luminaire-to-pole spacing. One-piece screw shell socket provides positive retention of lamp under vibration.

Electrical System – Constant wattage autotransformer standard. Two- or three-position (L1, L2, N) tunnel type compression terminal block standard.

Installation – Four-bolt mast arm mount – the most secure mounting in the industry.

Listings – Standard product is NOT listed by UL, CSA or NOM. For specific listing requirements, consult factory.



Ordering Information

Example: **CHX 400S R2 DLG 120 LPI PER**

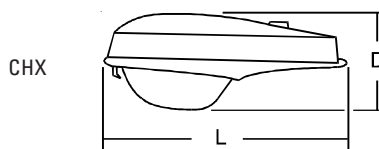
Series	Wattage	NEMA distribution	Lens	Voltage	Ballast options	Options
CHX	<u>Metal Halide</u>	R2 R3	DLG Drop lens glass (standard)	120	(blank) Standard ballast (see Features)	<u>Installed</u>
	1000M			208		
	<u>Mercury Vapor</u>	240				
	700MV	277				
	1000MV	TB¹				
	<u>High Pressure Sodium</u>	TB¹				
	310S	TB²				
	400S	TB³				
	1000S	120/240²				
		240/480³				
	L/E⁴					

NOTES:

- Optional multi-tap ballast (120V, 208V, 240V, 277V). TB prewired to 277V. Others are: TB1 = 120V, TB2 = 208V, TB3 = 240V.
- MV only, prewired to 120V.
- MV only, prewired to 240V.
- Shipped without ballast/electrical components.
- Available in 120V and 240V only.
- 120V and 277V only.
- 208V, 240V and 480V only.
- May be ordered as an accessory.

Dimensions do not include mounting arm. Dimensions are shown in **inches (centimeters)** and **pounds (kilograms)** unless otherwise noted.

	CHX
EPA	1.96 ft ² (.18 m ²)
Depth	16 ¹ / ₄ (41.3)
Length	38 ³ / ₈ (97.5)
Width	17 ¹ / ₂ (44.5)
Weight	76 (34.5)



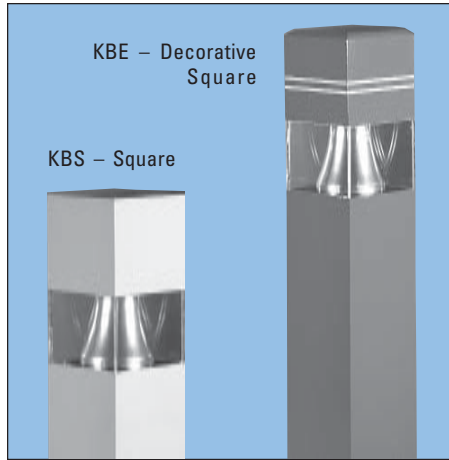
- LPI** Lamp included
- PER** NEMA twist-lock receptacle only (photocontrol not included)
- PE1** NEMA twist-lock PE (120V, 208V, 240V)
- PE4** NEMA twist-lock PE (480V)
- PE7** NEMA twist-lock PE (277V)
- IP65** IP65 rating for optics
- LSA1** Single lighting surge arrestor⁵
- LSA2** Dual lighting surge arrestor⁵
- SF** Single 5 amp fuse⁶
- SF10** Single 10 amp fuse⁶
- SF15** Single 15 amp fuse⁶
- SF20** Single 20 amp fuse⁶
- DF** Double 5 amp fuse⁷
- DF10** Double 10 amp fuse⁷
- DF15** Double 15 amp fuse⁷
- DF20** Double 20 amp fuse⁷
- DDB** Dark bronze finish
- DBL** Black finish

Shipped Separately⁸

- SC** Shorting cap for PER option.

KBS

KBE



Square Bollards

Intended Use

For walkways, plazas or pedestrian areas.

Features

Housing – Bottom housing is 0.188" extruded aluminum. Top cover is a weldment of 0.188" aluminum extrusion and 0.250" aluminum plate. 42" overall height standard. Flush-fitting lens is ¼", clear, 100% virgin acrylic. Exposed hardware is tamper-resistant stainless steel. Four ½" x 11" anchor bolts with double nuts/washers and 4½"-diameter bolt circle template provided for mounting (shipped separately). Dark bronze (DDB) corrosion-resistant polyester powder finish standard; other architectural colors available. Architectural Class I dark bronze anodized finish also available on KBS8.

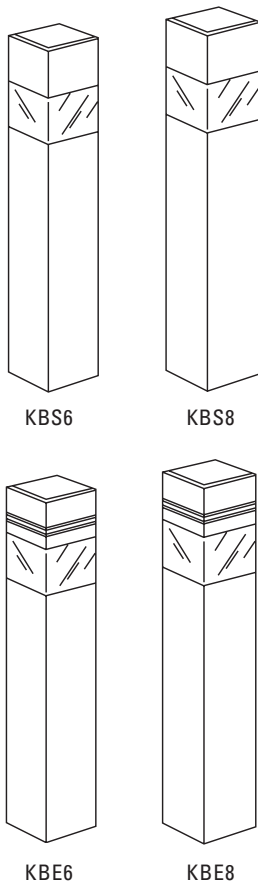
Optics – Reflector system incorporates an anodized, spun aluminum flared cone and an anodized, hydroformed, fluted upper reflector providing a Type V (Symmetric) cutoff distribution. Optional cylindrical lower reflector available.


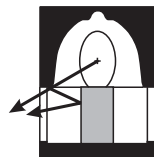
Electrical – Ballasts are copper wound and 100% factory tested. Electrical components are unitized on removable power module and accessible through bottom of bollard. Positive-locking, quick-disconnect on secondary circuit. Medium-base porcelain socket, 4KV pulse rated.

Listings – UL Listed (standard). CSA Certified (see Options). UL listed for wet locations.

Ordering Information

Example: **KBS6 35S R5 120 CR**



Designation	Reflector	Voltage	Options/Accessories	
6" Bollards:				
<u>High Pressure Sodium</u>				
KB_6 35S¹	Standard Flared Cone: R5 Type V distribution 	120	<u>Options (installed)</u>	
KB_6 50S		208	SF Single fuse (120V, 277V, 347V)	
KB_6 70S		240	DF Double fuse (208V, 240V)	
<u>Metal Halide</u>		277	CR Enhanced corrosion resistance	
KB_6 50M²		347	H24 24" overall height	
KB_6 70M²	Optional Cylindrical Reflector: CYA Specular Alzak CYB Black Alzak CYG Gold Alzak CYF Flat black 	TB⁵	H30 30" overall height	
<u>Incandescent</u>			H36 36" overall height	
KB_6 I^{1,3}			FD Festoon outlet	
8" Bollards:			FG Festoon outlet with duplex ground fault receptacle	
<u>High Pressure Sodium</u>				
KB_8 50S			PC Polycarbonate lens	
KB_8 70S			CSA CSA Certified	
KB_8 100S			<u>Accessories (shipped separately)</u>	
KB_8 150S			S6S Half-shield (6" square)	
<u>Metal Halide</u>			S8S Half-shield (8" square)	
KB_8 70M²				
KB_8 100M²				
<u>Incandescent</u>				
KB_8 I^{1,4}				

For optional Architectural Colors, see page 485.

Dimensions are shown in inches (centimeters) unless otherwise noted.

NOTES:

- 120V only.
- Requires coated lamp.
- 116W/TS, lamp not included.
- 150W max, lamp not included.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.

	KBE6/KBS6	KBE8/KBS8
Square	6 (15.2)	8 (20.3)
Height*	42 (106.7)	42 (106.7)
Max weight	43.2 lbs (19.6 kg)	43.2 lbs (19.6 kg)

*Also available in 24" (H24), 30" (H30) and 36" (H36).

KBA KBD

Intended Use

For walkways, plazas or pedestrian areas.

Features

Housing – KB_6: Bottom housing is 0.125" extruded aluminum. Top cover is 0.156" cast aluminum. KB_8: Bottom housing is 0.156" extruded aluminum. 42" overall height standard on KBR and KBA6. 43" overall height standard on KBA8. Flush-fitting lens is 1/4", clear, 100% virgin acrylic. All exposed hardware is tamper-resistant stainless steel. Four 1/2" x 11" anchor bolts with double nuts/washers and 4 1/2"-diameter bolt circle template provide for mounting (shipped separately). Dark bronze (DDB) corrosion-resistant polyester powder finish standard; other architectural colors available.

Optics – Reflector system incorporates an anodized, spun aluminum, flared cone and

an anodized, hydroformed, fluted upper reflector providing a Type V (Symmetric) cutoff distribution. Optional cylindrical lower reflector or cast aluminum louvers available.

Electrical – All ballasts are copper wound and 100% factory tested. Electrical components are unitized on removable power module and accessible through bottom of bollard. Positive-locking quick disconnect on secondary circuit. Medium-base porcelain socket, 4KV pulse rated.



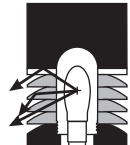

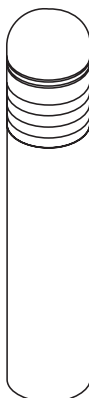


Listings – UL Listed (standard). CSA Certified (see Options). UL listed for wet locations.



Shown with optional louvers.

Ordering Information

Example: **KBA6 35S R5 120 CR**

<p>Designation</p> <p><i>6" Bollards:</i> High Pressure Sodium KB_6 35S¹ KB_6 50S KB_6 70S</p> <p>Metal Halide KB_6 50M² KB_6 70M²</p> <p>Incandescent KB_6 I^{1,3}</p> <p><i>8" Bollards:</i> High Pressure Sodium KB_8 50S KB_8 70S KB_8 100S KB_8 150S</p> <p>Metal Halide KB_8 70M² KB_8 100M²</p> <p>Incandescent KB_8 I^{1,4}</p> <p>Compact Fluorescent⁵ KB_8 22DTT KB_8 28DTT KB_8 26TRT KB_8 32TRT</p>	<p>Reflector</p> <p><u>Standard Flared Cone</u> R5 Type V distribution</p>  <p><u>Optional Cylindrical Reflector</u> CYA Specular Alzak CYB Black Alzak CYG Gold Alzak CYF Flat black</p>  <p><u>Louver (8" ONLY)</u> LV Louvers</p> 	<p>Voltage</p> <p>120, 208, 240, 277, 347, TB⁶</p> <p>Options/Accessories</p> <p><u>Options (shipped installed)</u> SF Single fuse (120V, 277V, 347V) DF Double fuse (208V, 240V) CR Enhanced corrosion resistance H24 24" overall height H30 30" overall height H36 36" overall height FD Festoon outlet FG Festoon outlet with duplex ground fault receptacle PC Polycarbonate lens (6" only)⁷ SCL Scribed lens⁷ CSA CSA Certified</p> <p>For optional Architectural Colors, see page 485.</p> <p><u>Accessories (shipped separately)</u> R6S Half-shield (6" round) R8S Half-shield (8" round)⁷</p>	 <p>KBA6</p>  <p>KBA8-LV</p>  <p>KBD6</p>  <p>KBD8-LV</p>
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NOTES:

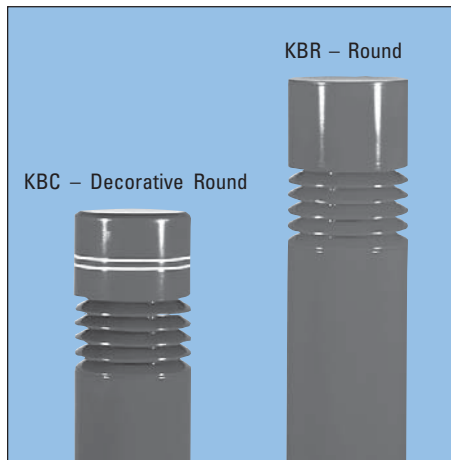
- 1 120V only.
- 2 Requires coated lamp.
- 3 116W/TS, lamp not included.
- 4 150W max, lamp not included.
- 5 Louver must be used.
- 6 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 7 Not available with LV option, available in 6" units only.

Dimensions are shown in inches (centimeters) unless otherwise noted.

	<i>KBD6/KBA6</i>	<i>KBD8/KBA8</i>
Diameter	6 (15.2)	8 (20.3)
Height*	42 (106.7)	42 (106.7)
Max weight	34.9 lbs (15.9 kg)	34.9 lbs (15.9 kg)

*Also available in 24" (H24), 30" (H30) and 36" (H36)

KBC KBR



Shown with optional louvers.

Round Bollards

Intended Use

For walkways, plazas or pedestrian areas.

Features

Housing – KB_6: Bottom housing is 0.125" extruded aluminum. Top cover is 0.156" cast aluminum. KB_8: Bottom housing is 0.156" extruded aluminum overall height standard. Flush-fitting lens is 1/2", clear, 100% virgin acrylic. All exposed hardware is tamper-resistant stainless steel. Four 1/2" x 11" anchor bolts with double nuts/washers and 4 1/2"-diameter bolt circle template provided for mounting (shipped separately). Dark bronze (DDB) corrosion-resistant polyester powder finish standard; other architectural colors available.

Optics – Reflector system incorporates an anodized, spun aluminum, flared cone and an anodized, hydroformed, fluted upper

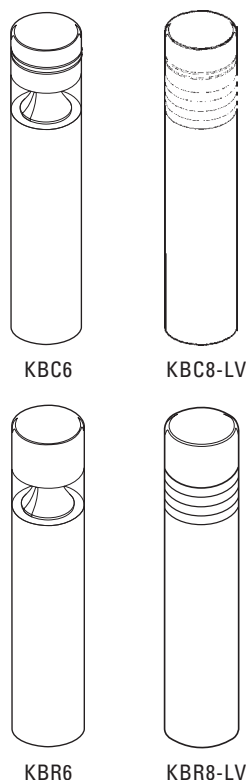
reflector providing a Type V (Symmetric) cutoff distribution. Optional cylindrical lower reflector or cast-aluminum louvers are available.




Electrical – All ballasts copper wound and 100% factory tested. Electrical components unitized on removable power module and accessible through bottom of bollard. Positive-locking, quick-disconnect on secondary circuit. Medium-base porcelain socket, 4KV pulse rated.

Listings – UL Listed (standard). CSA Certified (see Options). UL listed for wet locations.

Ordering Information

Example: **KBR8 100M R5 120 CR**



Designation	Reflector	Voltage	Options/Accessories
6" Bollards:			
<u>High Pressure Sodium</u>			
KB_6 35S ¹	Standard Flared Cone R5 Type V distribution 	120, 208, 240, 277, 347, TB ⁶	Options (shipped installed)
KB_6 50S			
KB_6 70S			
<u>Metal Halide</u>			
KB_6 50M ²	Optional Cylindrical Reflector 		SF Single fuse (120V, 277V, 347V)
KB_6 70M ²			
<u>Incandescent</u>			
KB_6 I ^{1,3}	CYA Specular Alzak CYB Black Alzak CYG Gold Alzak CYF Flat black 		DF Double fuse (208V, 240V)
			CR Enhanced corrosion resistance
8" Bollards:			
<u>High Pressure Sodium</u>			
KB_8 50S	Louver (8" only) LV Louvers		H24 24" overall height
KB_8 70S			H30 30" overall height
KB_8 100S			H36 36" overall height
KB_8 150S	For optional Architectural Colors, see page 485.		FD Festoon outlet
			FG Festoon outlet with duplex ground fault receptacle
<u>Metal Halide</u>			
KB_8 70M ²			PC Polycarbonate lens (6" only) ⁷
KB_8 100M ²			SCL Scribed lens ⁷
KBR8 175M ^{2,4}			CSA CSA certified
<u>Incandescent</u>			
KB_8 I ^{1,5}			Accessories (shipped separately)
<u>Compact Fluorescent⁴</u>			
KB_8 22DTT			R6S Half-shield (6" round)
KB_8 28DTT			R8S Half-shield (8" round) ⁷
KB_8 26TRT			
KB_8 32TRT			

Dimensions are shown in inches (centimeters) unless otherwise noted.

	KBC6/KBR6	KBC8/KBR8
Diameter	6 (15.2)	8 (20.3)
Height*	42 (106.7)	42 (106.7)
Max weight	34.9 lbs (15.9 kg)	34.9 lbs (15.9 kg)

*Also available in 24" (H24), 30" (H30) and 36" (H36).

NOTES:

- 120V only.
- Use coated lamp
- 116W/TS, lamp not included
- Louver must be used.
- 150W max, lamp not included
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Not available with LV option, available in 6" units only.

Decorative Post-Tops

Intended Use

Residential streets, office and retail complexes, campuses, parks, condominiums and hotels.

Features

Construction – Die-cast aluminum housing provides long life, strength and dependable service. Durable polyester powder paint provides long-lasting standard black finish. Integral die-cast hinged top for easy lamping and maintenance, with captive screw latch promoting case maintenance. NEMA twistlock photocell is unobtrusively integrated into top cap detail.

Optical System – Reflector/refractor systems deliver IES roadway types II, III or V. Refractor panels are available in either acrylic or polycarbonate.

Electrical – Reactor, normal power factor ballast is standard for HPS units (high power factor available). Constant wattage autotransformer (high power factor) is standard for MH and MV units.

Installation – Unit mounts quickly and easily to 2³/₈" OD to 3" OD poles or tenons. Set screws anchor the fixture firmly.

Listings – Standard product is NOT listed by UL, CSA or NOM. Complies to ANSI: C136.2, C136.10, C136.15, C136.16.



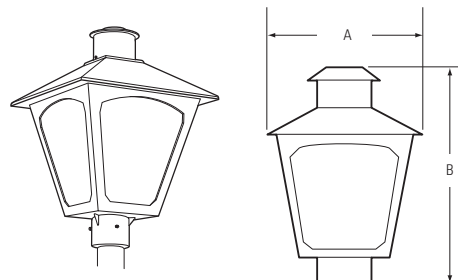
Ordering Information

Example: **TCL 100S R2A 120 LPI**

Series	Wattage/Lamp Source	Distribution	Voltage	Ballast Options	Options
TCL	35S¹ 50S¹ 70S 100S 150S 175M 175MV	R2A Type II roadway, acrylic lens R3A Type III asymmetric, acrylic lens R5A Type V symmetric, acrylic lens R2P Type II roadway, polycarbonate lens R3P Type III asymmetric, polycarbonate lens R5P Type V symmetric, polycarbonate lens	120, 208, 240, 277, 480, TB², TB1², TB2², TB3², 120/240³, 240/480⁴	(blank) Standard ballast (see above) RHP Reactor high power factor ⁵ 50HZ 50 hertz. Consult factory. XHP High reactance, high power factor ⁵	<u>Shipped installed in fixture</u> LPI Lamp included SF Single fuse (120V, 277V, n/a TB) DF Double fuse (208V, 240V, 480V, n/a TB) PER NEMA twist-lock receptacle only (photocontrol not included). PE1 NEMA twist-lock PE (120V, 208V, 240V) PE4 NEMA twist-lock PE (480V) PE7 NEMA twist-lock PE (277V)

Dimensions are shown in **inches (centimeters)** unless otherwise noted. Dimensions do not include mounting arm.

EPA	1.6 ft ² (0.15m ²)
Height	25 ⁵ / ₈ " (57.5)
Square	16 ¹ / ₄ " (41.3)
Weight	28 lbs. (12.7 kg)



NOTES:

- 1 Only available with 120V.
- 2 Optional multi-tap ballast (120V, 208V, 240V, 277V). TB prewired to 277 volt. Others are; 1 = 120V; 2 = 208V; and 3 = 240V.
- 3 MV only. Prewired to 120V.
- 4 MV only. Prewired to 240V.
- 5 HPS only.

TPA

NEW



Decorative Post-Tops

Intended Use

Residential streets, office complexes, campuses, parks, shopping areas, condominiums and hotels.

Features

Construction – Die-cast aluminum housing and spun aluminum hood coated with polyester powder paint for long-lasting, dependable service. Multi-gasketing system provides weather-proof protection of the optical assembly with hinged hood and captive screw latch promoting ease of maintenance. Standard finish is grey.

Optical System – Prismatic refractors deliver IES roadway distribution types II, III or V. Refractors are available in acrylic, polycarbonate and tempered glass.

Electrical – Reactor, normal power factor ballast (150-watt HPS and below), lag high power factor ballast (250-watt HPS and

above), or constant wattage autotransformer (MH and MV) is standard. Other ballasts are available.

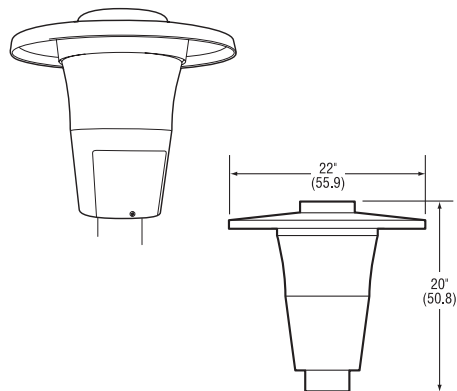
Installation – Cone mounting filter with three unobtrusive set screws fastens fixture securely to round poles or tenons sized from 2³/₈" to 3" OD.

Listing – Standard product is NOT listed by UL, CSA or NOM. Complies to ANSI: C136.2, C136.10, C136.15, C136.16.

Ordering Information

Example: **TPA 100S R2A 120 LPI**

Series	Wattage/Lamp source	Distribution	Voltage	Ballast options	Options
TPA	35S ¹ 50S ¹ 70S 100S 150S 250S 400S ² 175M 250M 400M ² 175MV 250MV 400MV ²	R2A Type II roadway, acrylic lens R3A Type III asymmetric, acrylic lens R5A Type V symmetric, acrylic lens R2P Type II roadway, polycarbonate lens R3P Type III asymmetric, polycarbonate lens R5P Type V symmetric, polycarbonate lens R2G Type II roadway, glass lens R3G Type III asymmetric, glass lens R5G Type V symmetric, glass lens	120 208 240 277 480 TB³ TB1³ TB2³ TB3³ 120/240⁴ 240/480⁵	(blank) Standard ballast (see above) RHP⁶ Reactor high power factor 50HZ 50 hertz. Consult factory. XHP High reactance, high power factor. ⁶	<u>Shipped installed in fixture</u> LPI Lamp included SF Single fuse (120V, 277V, n/a TB) DF Double fuse (208V, 240V, 480V, n/a TB) PER NEMA twist-lock receptacle only (photocontrol not included). PE1 NEMA twist-lock PE (120V, 208V, 240V) PE4 NEMA twist-lock PE (480V) PE7 NEMA twist-lock PE (277V)



All dimensions are inches (centimeters) unless otherwise noted. Dimensions do not include mounting arm.

EPA: 1.3 ft² (0.12m²)
Height: 20" (50.8)
Outside Diameter: 22" (55.9)
Weight: 41 lbs. (18.6 kg)

NOTES:

- 1 Only available with 120V.
- 2 Not available with acrylic or polycarbonate lens; must order with either R2G, R3G or R5G.
- 3 Optional multi-tap ballast (120V, 208V, 240V, 277V). TB prepwired to 277 volt. Others are; 1=120V; 2=208V; and 3=240V.
- 4 MV only. Prewired to 120 volt.
- 5 MV only. Prewired to 240 volt.
- 6 HPS only.

Recessed Low-Mount Floods

Intended Use

For use in site walls or as stair lighting.

Features

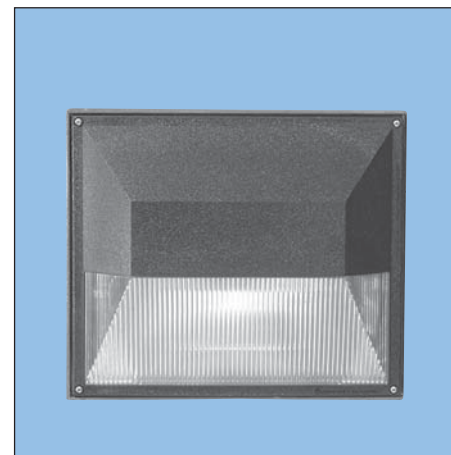
Housing – One-piece, cast-aluminum housing (alloy contains less than 0.2% copper) with integral splice compartment (46 cu. in.); four 3/4" NPT conduit entries. Lens is one-piece, injection-molded, UV-stabilized polycarbonate, .125" minimum thickness. Tooled-in, stippled texture on non-optical portions. Die-cut, closed-cell EPDM gasket. Housing is shipped separately from lens/reflector/power module. Stainless steel, captive, Philips-type fasteners (tamper-resistant fasteners also provided). Standard lens finish is dark bronze enamel (painted on both inside and outside of non-optical portion). Black, white and natural aluminum finishes also available. Housing finish is clear polyester powder for corrosion protec-

tion. Recessed concrete cast in place is standard; optional mountings available.

Optics – Reflectors are anodized, hydro-formed aluminum. Two distributions available: *A* (for uniform symmetrical area lighting) and *D* (for left or right directional-throw area lighting, featuring a unique bi-adjustable socket assembly that can be field-adjusted up or down to provide maximum light distribution on stairway plane).

Electrical – All ballasts are copper wound and 100% factory-tested. Electrical components are unitized on removable power module. Positive-locking disconnect on primary and secondary circuits. Medium-base porcelain socket, 4KV pulse rated.

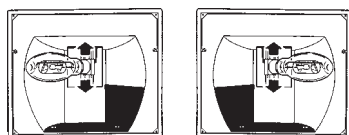
Listings – UL Listed (standard). CSA Certified (see Options). UL listed for wet locations.



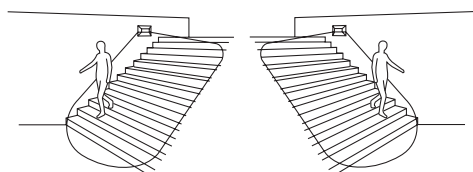
Example: KL 50S A 120 QRS

Ordering Information

Designation	Distribution	Voltage	Options/Accessories	
<u>High Pressure Sodium</u>		120	<u>Options (shipped installed)</u>	
KL 50S	A Area	208²	SF Single fuse (120V, 277V)	<u>Architectural colors (optional)</u>
KL 70S	D Directional	240⁵	QRS Quartz restrike system	DBB Dark bronze (standard)
KL 100S¹		277	PE Photoelectric cell (only available with BBW, BBF)	DBL Black
<u>Metal Halide</u>		347	EC Emergency circuit	DNA Natural aluminum
KL 70M		TB⁶	EBB Backbox (stud wall mount)	DWH White
KL 100M¹			BBW Backbox (surface wall mount)	
<u>Incandescent</u>			BBF Backbox (flat horizontal surface mount)	
KL I^{1,2,3,4}			BBR Recessed (ceiling, soffit mount)	
			CSA CSA Certified	



Bi-adjustable socket assembly KL "D" distribution

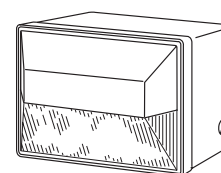


Left or right directional light distribution may be selected in the field.

- NOTES:
- For inverted mounting application, maximum wattage is 70W.
 - 150W A21 max in A distribution.
 - 100W A21 max in D distribution
 - 120V only.
 - Consult factory for availability in Canada.
 - Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada (120V, 277V, 347V; ships a 120V/347V).

Dimensions are shown in inches (centimeters) unless otherwise noted.

	KL
Height	12 1/4 (31.1)
Width	14 1/4 (36.2)
Depth	8 3/16 (20.8)
Back box	6 (15.2)
Lens	2 3/16 (5.6)
Max weight	15 lbs (7 kg)



KFL



Shown with standard swivel mount

Architectural Floodlights

Intended Use

For landscape and facade lighting.

Features

Housing – Welded, extruded body with cast end caps. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder. Other architectural colors available.

Lens Frame – Cast aluminum door frame is hinged and secured by stainless steel fasteners. Closed-cell silicone gasket prevents entrance of contaminants.

Lens – Clear, impact-resistant, tempered glass lens.

Mounting – Standard mount is two-piece, heavy-duty, cast-aluminum swivel with integral wiring compartment (pictured). Swivel fits over standard 1½" (1.9" OD) to 2" (2.38" OD) tenon. Painted steel yoke with 3-foot, 16/3 SEO cable or threaded knuckle mount are optional.

Optics – Anodized aluminum reflectors; segmented, specular or hammertone finish.

Electrical – 150W and below utilizes a high-reactance, high power factor ballast. 175W and above utilizes a constant-wattage autotransformer ballast. Both ballast are copper wound and 100% factory tested. Optional pulse start ballast available.

Socket – Medium-base (KFL2) or mogul-base (KFL3) porcelain socket with copper alloy, nickel-plated screw shell and center contact. 4KV pulse rated. UL listed 660W, 600V.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options). UL listed for wet locations. IP65 rated in accordance with standard IEC 529.

Ordering Information

Designation	Distribution	Voltage	Optional mounting	Options/Accessories
High Pressure Sodium				
KFL2 70S	SP Spot	120	Installed	Installed
KFL2 100S	BP Horiz. flood ³	208⁴	YK Yoke mount	SF Single fuse, 120V, 277V, 347V (n/a TB)
KFL2 150S	RN Horiz. spot, narrow	240⁴	THK Threaded knuckle mount	DF Double fuse, 208V, 240V, 480V (n/a TB)
KFL3 250S	RM Horiz. spot, medium	347	Shipped separately	PE Photoelectric cell, button type (n/a TB)
KFL3 400S	RW Horiz. spot, wide	480	KFLSTM Stanchion mount	QRS Quartz restrike system (KFL3 only, 100W max.) (lamp not included)
Metal Halide				
KFL2 70M	HPN Vertical flood, narrow	TB⁵	KFLSTMTHK Stanchion mount for THK option ⁶	EC Emergency circuit
KFL2 100M	HPM Vertical flood, medium		TM Tenon base mount	CR Enhanced corrosion resistance
KFL2 150M	HPW Vertical flood, wide		KFLWMA Wall mount arm	CFRO Color lens/rose
KFL3 200M¹	FT Forward throw		KFLWMATHK Wall-mount arm for THK option ⁶	CFBL Color lens/blue
KFL3 250M¹			MP Mounting plate ⁷	SCWA Super CWA pulse start ballast (n/a with HPS, 70M, 100M or 175M)
KFL3 320M¹			FCRA Crossarm adapter ⁷	LPI Lamp included as standard
KFL3 350M¹			TS Tenon slipfitter ⁷	L/LP Less lamp
KFL3 400M²			KFLTMB Twin mounting bar	CSA CSA Certified
			KFLTMBTHK Twin mounting bar for THK option ⁶	NOM NOM Certified (consult factory)
			AJB Architectural J-box for THK option ⁶	
			KFLTBS Triangular base	

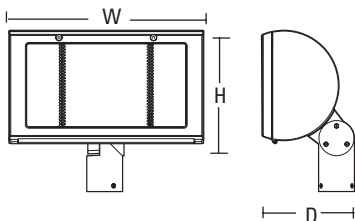
Example: **KFL2 70S HPN 120 SF LPI**

For optional architectural colors, see page 485.

Shipped separately⁸

- UV** Upper visor
- EV** Eggcrate visor (black)
- FV** Full visor
- BV** Bottom visor
- WG** Wireguard
- BD** Barn door
- HLV** Horizontal louver (black)
- VLV** Vertical louver (black)
- BVG** Bubble vandal guard

Wattage	Ballast	Lamp Type	Beam Spread H°xV°	NEMA Dist.
High Pressure Sodium				
150	SP	HX-HPF	E17 142x127	3x1
150	HPW	HX-HPF	E17 39x12	7x6
400	SP	CWA	ET18 60x13	4x1
400	HPW	CWA	ET18 144x140	7x7
Metal Halide				
175	SP	CWA	ED17 27x15	2x1
175	HPW	CWA	ED17 147x127	7x6
400	SP	CWA	BT28 42x17	3x1
400	HPW	CWA	BT28 146x140	7x7



Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	KFL2	KFL3
EPA	1.3 ft ² (.12 m ²)	2.0 ft ² (.19 m ²)
Width	17 (43.2)	20 (50.8)
Depth	8 1/16 (19.7)	9 1/16 (23.8)
Height	9 7/8 (24.8)	13 1/16 (33.2)
Overall height	14 1/16 (35.6)	16 5/16 (42.9)
Max. weight	29 lbs (13.1 kg)	44 lbs (19.9 kg)

NOTES:

- 1 Must be ordered with SCWA.
- 2 ED-28 reduced jacket lamp required.
- 3 KFL2 only.
- 4 Consult factory for availability in Canada.
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 6 For use with THK mounting only. Must include THK mount option on fixture.
- 7 For use with yoke mounting only. Must include yoke mount option on fixture.
- 8 Field modification required unless ordered with fixture.

Contour Specification Large Floodlights

TFA

Contour®

Intended Use

For industrial yards, parking lots, construction sites, streets and recreational areas.

Features

Housing – Heavy-duty construction. Contoured die-cast aluminum housing and front bezel. Bezel hinged and latched for fast, easy tool-less internal access to optical and electrical compartments. Lens is heavy-duty, thermal shock-resistant, clear tempered glass with no metal-to-glass contact. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics – Computer-designed, precision die-formed, specular anodized aluminum reflector provides high efficiencies. Premium, one-piece silicone gasket seals optical chamber to inhibit entrance of outside contaminants.

Electrical – High-power factor, constant-wattage autotransformer. Ballast is copper wound and 100% factory tested. UL listed. Electrical components mounted to rear housing for maximum heat dissipation. (For 50 hertz availability, consult factory.)

Installation – Tool-less latches on front bezel can be opened while wearing gloves. Corrosion-resistant, painted steel mounting yoke.

Socket – Porcelain, horizontally or vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact.

Listings – UL Listed (standard) (ambient temperature 25°C for 750W and above, 40°C for 400W and below). CSA Certified or NOM Certified (see Options). UL listed for wet locations. IP65 rated in accordance with standard IEC 529.



Example: TFA 1000M TA TB LPI

Ordering Information

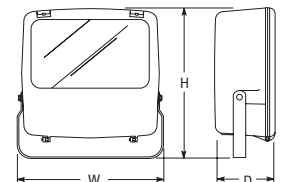
Designation		Distribution				Voltage	Options/Accessories		
High Pressure Sodium		Horizontal		Vertical		120	Installed		
TFA 250S	RN TA	RB	RC	RE	TA2 RM	208²	SF Single fuse (120V, 277V, 347V) ⁵	Accessories / shipped separately	
TFA 400S	RN TA	RB	RC	RE	TA2 RM	240²	DF Double fuse (208, 240, 480V) ⁵	TFAWG Wireguard	
TFA 750S	RN TA	RB	–	–	TA2 RM	277	EC Emergency circuit ^{6,7}	TFAVG Vandal guard	
TFA 1000S	RN TA	RB	–	–	TA2 RM	347	QRS Quartz restrike system ^{6,7}	TFAUV Upper visor ¹²	
Metal Halide						480²	QRSTD Quartz time delay ^{6,7}	TFAFV Full visor ¹²	
TFA 250M	RN TA	RB	RC	RE	TA2 RM	TB³	CR Enhanced corrosion resistance	T FABV Bottom visor	
TFA 320M¹	RN TA	RB	RC	RE	TA2 RM	TBV⁴	CRT Non-stick protective coating ⁸	FTS Tenon slipfitter (2 ³ / ₈ " to 2 ⁷ / ₈ " OD tenon) (yoke only)	
TFA 350M¹	RN TA	RB	RC	RE	TA2 RM		PER NEMA twist-lock receptacle ⁹	FCRA Crossarm adapter (horizontal)	
TFA 400M	RN TA	RB	RC	RE	TA2 RM		LS Lamp support (standard w/ 1000W, TA and RN)	FCRA45 Crossarm adapter (45° from horizontal)	
TFA 750M¹	RN TA	–	–	–	–		LPI Lamp shipped as standard	FPMB Wood pole/pipe/wall-mounting bracket (includes FCRA)	
TFA 1000M	RN TA	RB	–	RE	TA2 RM		L/LP Less lamp	FRWB Radius wall bracket ¹³	
Lamp/Fixture/Distribution Data									
Wattage	Ballast	Lamp Type	Beam Spread H° x V°	NEMA Dist.			IS Integral slipfitter (2 ³ / ₈ " to 2 ⁷ / ₈ " OD tenon)	FSAB Steel angle bracket	
High Pressure Sodium (mog/clear)								CF Charcoal filter	FSPB Steel square pole bracket (for use with existing poles)
400	TA	CWA	ET18	140x134	7x7		C62 2' 16-3 SEO cord prewired ¹⁰	PE1 NEMA twist-lock photocontrol (120V, 208V, 240V)	
400	RN	CWA	ET18	127x30	6x3		C42 2' 14-3 SEO cord prewired ¹⁰	PE3 NEMA twist-lock photocontrol (347V)	
400	TA2	CWA	ET18	138x112	7x6		C22 2' 12-3 SEO cord prewired ¹⁰	PE4 NEMA twist-lock photocontrol (480V)	
400	RB	CWA	ET18	126x106	6x6		TP Tamperproof latches	PE7 NEMA twist-lock photocontrol (277V)	
1000	TA	CWA	E25	139x133	7x7		SCWA Super CWA pulse start ballast (n/a HPS or 1000M)	SC Shorting Cap	
1000	RN	CWA	E25	127x21	6x2		CSA CSA Certified ¹¹	TM Tenon Mount ¹³	
1000	TA2	CWA	E25	144x119	7x6		NOM NOM Certified (consult factory)		
1000	RB	CWA	E25	128x114	6x6				
Metal Halide (mog/clear)									
400	TA	CWA	BT37	143x133	7x7				
400	RN	CWA	BT37	129x35	6x3				
400	TA2	CWA	BT37	135x111	7x6				
400	RB	CWA	BT37	124x100	6x6				
1000	TA	CWA	BT56	146x135	7x7				
1000	RN	CWA	BT56	130x45	6x3				
1000	TA2	CWA	BT56	144x119	7x6				
1000	RB	CWA	BT56	126x109	6x6				

NOTES:

- Must be ordered with SCWA.
- Not available in Canada in 1000W metal halide.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Optional 5-tap ballast (120V, 208V, 240V, 277V, 480V).
- Not available in multi-tap ballast.
- Lamp not included.
- Quartz lamp wattage not to exceed ballast wattage rating.
- Black finish only.
- Photocell not included.
- Yoke-mount only.
- Not available with TBV.
- Field modification required unless ordered with fixture.
- Requires IS or FTS slipfitter.

Dimensions are shown in inches (centimeters) unless otherwise noted.

	TFA
EPA	2.6 ft ² (.24 m ²)
Width	22 (59.9)
Depth	9 ³ / ₄ (24.7)
Height	18 ³ / ₄ (47.6)
Overall height	22 ¹ / ₂ (57.1)
Weight	65 lbs (29.5 kg)



TFL

Contour®



Contour Specification Medium Floodlights

Intended Use

For recreation areas, parking lots, building facades and car lots.

Features

Housing – Compact, soft-corner, die-cast aluminum housing and front cover. Front bezel is fully sealed with one-piece, bonded silicone gasket. Lens is thermal- and shock-resistant, clear, tempered glass. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics – TA2: vertical lamp with one-piece, hydroformed, anodized aluminum reflector. Two-position adjustable socket. RA2: horizontal lamp with anodized specular aluminum reflector. Both have sealed optic chamber to inhibit entrance of outside contaminants.

Electrical – Components mounted to cast-aluminum housing for maximum heat-dissipation.

Ballast is high-reactance, high-power factor (70-150W HPS) or constant-wattage autotransformer (175 and above HPS, MH), copper wound and 100% factory tested. UL listed.

Installation – Corrosion-resistant, heavy-duty painted steel mounting yoke. External screws treated for corrosion resistance. Above-horizontal aiming capability standard.

Socket – Glazed porcelain, vertically or horizontally oriented mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings – UL Listed (standard) (ambient temperature 25°C for 320W & above and 200S, 40°C for 250W and below). CSA Certified or NOM Certified (see Options). UL listed for wet locations. IP65 rated in accordance with standard IEC 529.

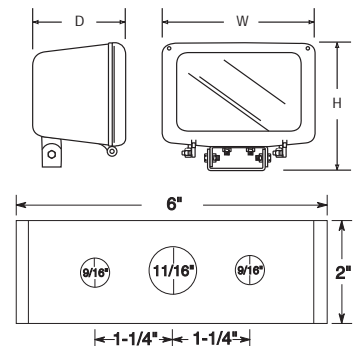
Ordering Information

Example: **TFL 400S RA2 TB LPI**

Designation	Distribution	Voltage	Options/Accessories	
VERTICAL LAMP			Installed	Shipped separately
<u>High Pressure Sodium</u>			SF Single fuse (120V, 277V, 347V) ⁷	WG Wireguard ¹⁴
TFL 70S	TA2 (7x6)	208 ³	DF Double fuse (208V, 240V, 480V) ⁷	VG Vandal guard ¹⁴
TFL 100S	TA2	240 ³	EC Emergency circuit ^{8,9}	UV Upper visor ¹⁴
TFL 150S	TA2	277	QRS Quartz restrike system ^{8,9}	FV Full visor ¹⁴
TFL 200S	TA2	347	CR Enhanced corrosion resistance	FTS Tenon slipfitter (2 ³ / ₈ " to 2 ⁷ / ₈ " OD tenon)
<u>Metal Halide</u>			CRT Non-stick protective coating ¹⁰	FRWB Radius wall bracket ¹⁵
TFL 150M	TA2	480 ⁴	PER NEMA twist-lock receptacle ¹¹	FSAB Steel angle bracket
TFL 175M	TA2	TB ⁵	LS Lamp support (mogul socket only)	FCRA Crossarm adapter(horizontal)
TFL 200M ¹	TA2	TBV ⁶	IS Integral slipfitter(2 ³ / ₈ " OD max. tenon)	FCRA45 Crossarm adapter (45° from horizontal)
TFL 250M	TA2		CF Charcoal filter	FPMB Wood pole/pipe/wall-mounting bracket (includes FCRA)
HORIZONTAL LAMP			C62 2' 16-3 SEO cord prewired ¹²	SC Shorting cap
<u>High Pressure Sodium</u>			C42 2' 14-3 SEO cord prewired ¹²	TM Tenon mount ¹⁵
TFL 250S	RA2 (7x6)		C22 2' 12-3 SEO cord prewired ¹²	
TFL 400S	RA2		CSA CSA Certified ¹³	
<u>Metal Halide</u>			NOM NOM Certified (consult factory)	
TFL 200M ¹	RA2		SCWA Super CWA pulse start ballast (n/a HPS, or 175M)	
TFL 250M	RA2		LPI Lamp included as standard.	
TFL 320M ¹	RA2		L/LP Less lamp	
TFL 350M ¹	RA2			
TFL 400M ²	RA2			

Dimensions are shown in inches (centimeters) unless otherwise noted.

TFL	
EPA	1.3ft ² (.12 m ²)
Width	15 ³ / ₄ (40.0)
Depth	6 ¹ / ₈ (15.6)
Height	16 ¹ / ₈ (40.9)
Weight	27 lbs (11.8 kg)



NOTES:

- 1 Must be ordered with SCWA.
- 2 Requires T-15, ED or BT28 reduced jacket lamp.
- 3 Consult factory for availability in Canada.
- 4 Not available in Canada.
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V). (In Canada 120V, 277V, 347V; ships as 120V/347V).
- 6 Optional 5-tap ballast (120,208,240,277,480V)
- 7 Not available with multi-tap ballast.
- 8 Lamp not included.
- 9 Quartz lamp wattage not to exceed ballast wattage rating.
- 10 Black finish only.
- 11 Photocell not included.
- 12 Yoke mount only.
- 13 Not available with TBV.
- 14 Field modification required unless ordered with fixture.
- 15 Requires IS or FTS slipfitter.

Lamp/Fixture/Distribution Data (Vertical Lamp)

Wattage	Ballast	Lamp Type	Beam Spread H° x V°	NEMA Dist.
<u>High Pressure Sodium</u> (mog/clear)				
100	TA2 HX-HPF	E17	148 x 123	7 x 6
150	TA2 HX-HPF	E17	155 x 119	7 x 6
250	RA2 CWA	BT28	143 x 111	7 x 6
400	RA2 CWA	BT28	143 x 111	7 x 6
<u>Metal Halide</u> (mog/clear)				
175	TA2 CWA	BT28	147 x 122	7 x 6
250	RA2 CWA	BT28	140 x 104	7 x 6
400	RA2 CWA	BT28	145 x 100	7 x 6

Contour Specification Medium Floodlights

TFR

Contour®

Intended Use

For recreation areas, parking lots, building facades and car lots.

Features

Housing – Compact, soft corner, die-cast aluminum housing and front cover. Front bezel is removable via position-oriented hinge-cam design and is fully sealed with one-piece, bonded silicone gasket. Lens is thermal- and shock-resistant clear tempered glass. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics – Die-formed, anodized aluminum reflectors provide rectangular, uniform distributions. Three available beam distributions for maximum flexibility in area lighting applications. **Does not require use of reduced-size lamp.**

Electrical – Components mounted to cast-

aluminum housing, promoting maximum heat dissipation. Ballast is high-reactance HPF (70-150W HPS). 150M ballast is high reactance HPF constant-wattage autotransformer (175W and above HPS, MH), copper wound and 100% factory tested.

Installation – Corrosion-resistant, heavy-duty painted steel mounting yoke. External screws treated for corrosion resistance. Above-horizontal aiming standard.

Socket – 150M is medium base. Glazed porcelain, horizontally oriented, mogul-base with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

Listings – UL Listed (standard) (ambient temperature 25°C for 320W and above, 40°C for 250W and below). CSA Certified or NOM Certified (see Options). UL listed for wet locations. IP65 rated in accordance with standard IEC 529.



Example: **TFR 400M TA TB LPI**

Ordering Information

Designation	Distribution	Voltage
High Pressure		
TFR 150S	TA (7x6) (n/a 150S)	120
TFR 250S	RB (6x6)	208 ²
TFR 400S	RC (5x5)	240 ²
Metal Halide		
TFR 150M		277
TFR 175M		347
TFR 200M ¹		480 ³
TFR 250M		TB ⁴
TFR 320M ¹		TBV ⁵
TFR 350M ¹		
TFR 400M		

Options/Accessories	
Installed	Shipped separately
SF Single fuse (120V, 277V, 347V) ⁶	TFRWG Wireguard ¹³
DF Double fuse (208V, 240V, 480V) ⁶	TFRVG Vandal guard ¹³
EC Emergency circuit ^{7,8}	TFRUV Upper visor ¹³
QRS Quartz restrike system ^{7,8}	TFRFV Full visor ¹³
CR Enhanced corrosion resistance	FRWB Radius wall bracket ¹⁴
CRT Non-stick protective coating ⁹	FSAB Steel angle bracket
PER NEMA twist-lock photoelectric receptacle ¹⁰	SC Shorting cap for PER option
IS Integral slipfitter (2 ³ / ₈ " O D tenon)	FTS Tenon slipfitter (2 ³ / ₈ " to 2 ⁷ / ₈ " OD tenon) ¹¹
LS Lamp support	FCRA Crossarm adapter (horizontal)
LPI Lamp included as standard	FCRA45 Crossarm adapter 45° from horizontal
L/LP Less lamp	FPMB Wood pole/pipe/wall mounting bracket (includes FCRA)
C22 2' 12-3 SEO cord pre-wired ¹¹	TM Tenon mount ¹⁴
C42 2' 14-3 SEO cord pre-wired ¹¹	EY Extended yoke
C62 2' 16-3 SEO cord pre-wired ¹¹	
CF Charcoal filter	
CSA CSA Certified ¹²	
NOM NOM Certified (consult factory)	
SCWA Super CWA pulse start ballast (n/a HPS or 175M)	

Lamp/Fixture Data

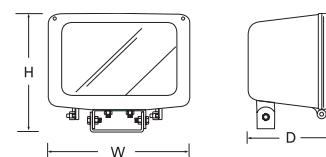
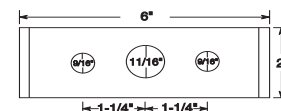
Wattage	Ballast	Lamp Type.	Beam Spread H° x V°	NEMA Dist.
High Pressure Sodium (mog/clear)				
150 RB	XHP	E17	114 X 107	6 x 6
150 RC	XHP	E17	100 X 92	5 x 5
250 TA	CWA	ET18	132 X 118	7 x 6
250 RB	CWA	ET18	110 X 104	6 x 6
250 RC	CWA	CWA	99 x 97	5 x 5
400 TA	CWA	ET18	132 X 118	7 x 6
400 RB	CWA	ET18	110 X 104	6 x 6
400 RC	CWA	ET18	99 X 97	5 x 5
Metal Halide (mog/clear)				
175 TA	CWA	BT28	132 x 111	7 x 6
175 RB	CWA	BT28	121 x 91	6 x 5
175 RC	CWA	BT28	100 x 90	5 x 5
250 TA	CWA	BT28	132 x 111	7 x 6
250 RB	CWA	BT28	121 x 91	6 x 5
250 RC	CWA	BT28	100 x 90	5 x 5
400 TA	CWA	BT37	138 x 119	7 x 6
400 RB	CWA	BT37	124 x 107	6 x 6
400 RC	CWA	BT37	96 x 100	5 x 5

NOTES:

- Must be ordered with SCWA.
- Consult factory for availability in Canada.
- Not available in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Optional 5-tap ballast (120V, 208V, 240V, 277V, 480V).
- Not available in multi-tap ballast.
- Lamp not included.
- Quartz lamp wattage not to exceed ballast wattage rating.
- Black finish only.
- Photo-cell not included.
- Yoke mounting only.
- Not available with TBV.
- Field modification required unless ordered with fixture.
- Requires IS or FTS slipfitter.

Dimensions are shown in inches (centimeters) unless otherwise noted.

	TFR
EPA	1.3ft ² (.12m ²)
Height	12 ³ / ₄ (32.4)
Width	17 ⁵ / ₈ (44.8)
Depth	10 ³ / ₄ (27.3)



TFM

Contour®



Contour Specification Mini Floodlights

Intended Use

For signs, flags, building facades and landscaping.

Features

Housing – Compact, heavy-duty construction. Die-cast aluminum housing and removable front bezel. Lens is thermal and shock-resistant, clear tempered glass. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics – Hydroformed, anodized aluminum, faceted parabolic (RB, RG) or die-formed (TA) construction provides high efficiencies. Medium-base lamp is included.

Electrical – Ballast is high-reactance, high-power factor for 50-150W metal halide or constant wattage autotransformer for 175W metal halide. Ballast is reactor normal-power factor for high pressure sodium (XHP available). Ballast is

copper wound and 100% factory tested. UL 1029 listed. Electrical components mounted to the cast-aluminum housing for maximum heat-dissipation.

Installation – Die-cast aluminum 1/2" NSPM threaded mounting knuckle is standard. Steel painted mounting yoke optional. Above-horizontal aiming capability standard. External screws treated for corrosion resistance.

Socket – Porcelain, medium-base, horizontally-oriented (RB, RG) or vertically-oriented (TA) socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V. 4-pin socket for compact fluorescent.

Listings – UL Listed ((standard) ambient temperature 25°C for 150M and above, 40°C for 100M and below; 150S and below). CSA Certified or NOM Certified (see Options). UL listed for wet locations. IP65 rated in accordance with standard IEC 529.

Ordering Information

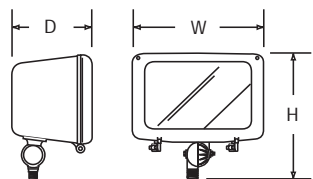
Example: **TFM 175M RB 120 LPI**

Designation	Distribution	Voltage
High Pressure Sodium		
TFM 35S ¹	TA (7x6) ³	120
TFM 50S ²	RB (6x6)	208 ⁴
TFM 70S	RG (3x3)	240 ⁴
TFM 100S		277
TFM 150S		480 ⁵
Metal Halide		
TFM 50M		TB ⁶
TFM 70M		TBV ⁷
TFM 100M		MVOLT ⁸
TFM 150M		
TFM 175M		
Compact Fluorescent		
TFM 13DTT		
TFM 18DTT		
TFM 26DTT		
TFM 32TRT		
TFM 42TRT		

Installed		Options/Accessories			
SF	Single fuse (120V, 277V, 347V) ^{9,10}	LPI	Lamp included as standard	SCWA	Super CWA pulse start ballast (only available in 150M with TA distribution only)
DF	Double fuse (208V, 240V, 480V) ^{9,10}	L/LP	Less lamp		
GMF	Internal slow-blow fuse (CF only)	YK	Yoke mounting		
CR	Enhanced corrosion resistance	C62	2' 16-3 SEO cord pre-wired	Shipped separately	
CRT	Non-stick protective coating ¹¹	C42	2' 14-3 SEO cord pre-wired	TFMWG	Wireguard
PE	Photocell ⁹	C22	2' 12-3 SEO cord pre-wired	TFMUV	Vandal guard
		CSA	CSA Certified ¹²	TFMFV	Upper visor
		NOM	NOM Certified (consult factory)	TFMFS	Full visor
				TM	Tenon slipfitter (2 ³ / ₈ " OD tenon) (fits on 1/2" knuckle)
					Tenon mount ¹⁴

Dimensions are shown in inches (centimeters) unless otherwise noted.

TFM	
EPA	.5ft ² (.05m ²)
Width	10.6 (26.9)
Depth	6.9 (17.5)
Height	10 1/2 (26.7)
Weight	15 lbs (6.8 kg)



Lamp/Fixture/Ballast Data¹³

Wattage	Lamp Ballast	Beam Spread Type	NEMA H°xV°	Dist.
High Pressure Sodium (med/clear)				
70	RB	RNP or XHP	E17 94 x 104	5 x 6
70	RG	RNP or XHP	E17 42 x 35	3 x 3
70	TA	RNP or XHP	E17 131 x 103	7 x 6
150	RB	RNP or XHP	E17 88 x 95	5 x 5
150	RG	RNP or XHP	E17 57 x 65	4 x 4
150	TA	RNP or XHP	E17 131 x 103	7 x 6
Metal Halide (med/clear)				
100	RB	XHP	E17 83 x 108	5 x 6
100	RG	XHP	E17 58 x 60	4 x 4
100	TA	XHP	E17 128 x 107	6 x 6
175	RB	CWA	ED17 97 x 105	5 x 6
175	RG	CWA	ED17 42 x 35	4 x 4
Fluorescent				
26DTT	RB	HPF-Electronic	T4 125 x 132	6 x 6
42TRT	RB	HPF-Electronic	T4 120 x 122	6 x 6

NOTES:

- 120V only.
- 120V, 277V only
- TA distribution not available with 175M, compact fluorescent lamps, TBV, or fusing.
- Consult factory for availability in Canada.
- Not available in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Optional 5-tap ballast (120V, 208V, 240V, 277V, 480V).
- Optional multi-volt electronic ballast capable of operating from 120V-277V
- Not available in multi-tap ballast.
- Not available with TA reflector.
- Black finish only.
- Not available with TBV.
- Other ballasts available. Consult factory.
- Requires TFMFS.

Intended Use

For signs, landscaping and commercial or residential building facades.

Listings – UL Listed to U.S. and Canadian safety standards. UL/C-UL listed for wet locations.

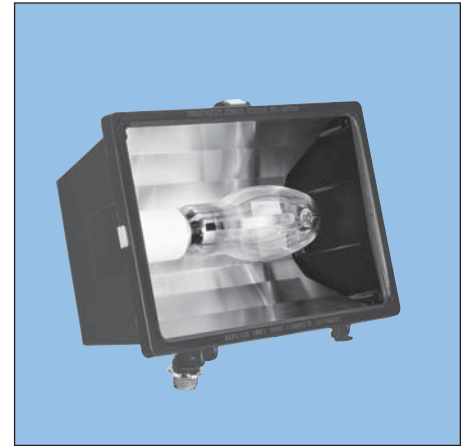
Features

Housing – Compact, rugged die-cast aluminum housing is ribbed for maximum heat dissipation. Hinged die-cast aluminum door frame inhibits the entrance of external contaminant. Standard finish is bronze polyester powder.

Installation – Adjustable mounting knuckle with ½" NPS threaded stem mounts to standard outlet boxes.

Optics – Anodized aluminum reflector with high efficiency and wide beamspread. Tempered glass lens. Medium-base, E17 lamp included in carton as standard.

Electrical – Reactor HPS or high-reactance (MH) normal power factor.



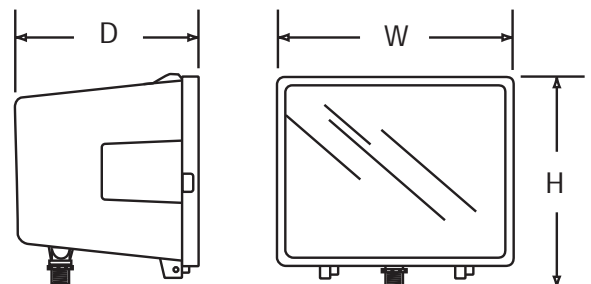
Ordering Information

Example: **TFS 50S 120 LPI**

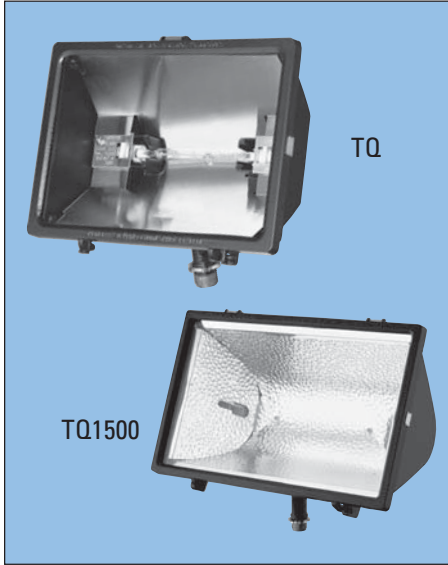
Designation	Voltage	Options
<u>High Pressure Sodium</u>	120	LPI Lamp included as standard
TFS 50S		
TFS 70S		
TFS 100S		
TFS 150S		
<u>Metal Halide</u>		
TFS 70M		

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

TFS	
Width	8 ⁷ / ₈ (22.5)
Depth	6 ¹ / ₈ (15.6)
Height	6.5 ft (16.5 m)
Max. weight	6.48 lbs (2.94 kg)



TQ/TQE



General Purpose Quartz Floodlights

Intended Use

For signs, landscaping, and commercial or residential building facades.

Features

Housing – Compact, rugged, die-cast aluminum housing is ribbed for maximum heat dissipation. TQ has a die-cast aluminum door frame, TQE lens attaches via tool-less clips. TQ1500 door frame is die-cast aluminum with tool-less latch closure. Standard finish bronze polyester powder.

Installation – Adjustable mounting knuckle with 1/2" NPS threaded stem. Mounts to standard outlet boxes.

Optics – Anodized aluminum reflector with high efficiency and wide beamspread. Tempered glass lens with high temperature gasketing. 500W models include double-

ended quartz 500W lamp. 1500W models do not include double-ended quartz 1500W lamp.

Listings – UL Listed to U.S. and Canadian safety standards. UL/C-UL listed for wet locations.

Ordering Information

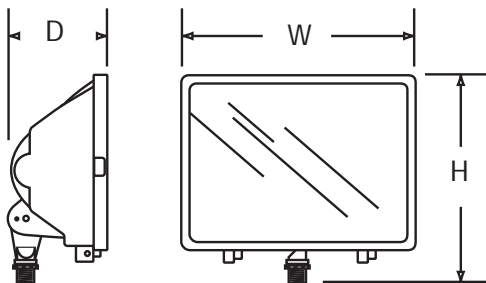
Example: **TQ 1500 L/LP**

Designation Quartz TQ 1500	Voltage Determined by lamp (277V maximum)	Options L/LP Lamp NOT included (must be supplied by others.)
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Ordering Information

Example: **TQE 500 120 LPI**

Designation Quartz TQE 500 TQ 500	Voltage 120	Options (blank) Bronze (500W only) DWH White (500W only) LPI Lamp included (500W models)
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Dimensions are shown in inches (centimeters) unless otherwise noted.

	TQ 1500	TQ/TQE 500
Width	13 (33.0)	8 7/8 (22.5)
Depth	6 (15.2)	3 1/2 (8.9)
Height	8 1/4 (21.0)	6 1/2 (16.5)
Max. weight	6 lbs (2.72 kg)	2.07 lbs (.93 kg)

NEW

General Purpose Floodlights

Intended Use

For signs, landscaping and commercial or residential building facades.

Features

Housing – Compact, rugged, die-cast aluminum housing is ribbed for maximum heat dissipation. Hinged die-cast aluminum door frame with tool-less latch closure. Standard finish bronze polyester powder.

Installation – Adjustable mounting knuckle with ½" NPS threaded stem. Mounts to standard outlet boxes.

Optics – Anodized aluminum reflector with high efficiency and wide beamspread. Tempered glass lens with high temperature gasketing. 13W twin-tube compact fluorescent lamps.

Listings – UL Listed to U.S. and Canadian safety standards. UL/C-UL listed for wet locations.



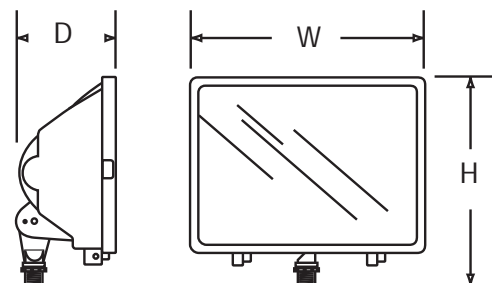
Ordering Information

Example: **TCF 2/13DTT 120 LPI**

Designation	Voltage	Options
TCF 13DTT	120	LPI Lamp included
TCF 2/13DTT		

Dimensions are shown in inches (centimeters) unless otherwise noted.

	TCF
Width	8 ⁷ / ₈ (22.5)
Depth	3 ¹ / ₂ (8.9)
Height	6 ¹ / ₂ (16.5)
Max. weight	2.07 lbs (.93 kg)



HFA



Hazardous Location Large Floodlights

Intended Use

For general to heavy industrial applications, including Class 1, Division 2 classified hazardous locations, marine and corrosive environments or wherever excessive vibration and dirt may exist.

Features

Construction – NEMA heavy-duty constructed housing. Die-cast copper-free (<.4%) aluminum housing with round corners and front bezel. Front bezel is removable via position-oriented hinge-cam design. Lens is thermal- and shock-resistant, clear tempered glass with no metal-to-glass contact. Hardware is corrosion-resistant.

Finish – Standard finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics – Porcelain, horizontally oriented mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated. TA and RN distributions are available.

Computer-designed, precision formed reflectors for high performance and efficiency. Premium one-piece silicone gasket seals optical chamber to inhibit entrance of contaminants.

Electrical – Ballast is HPF constant-wattage autotransformer, copper wound and 100% factory tested. Electrical components are mounted to cast aluminum housing, promoting maximum heat dissipation. Accessible through front bezel.

Installation – Front bezel is latched for easy tool-less internal access to optical and electrical compartments. Corrosion-resistant, heavy-duty, painted steel mounting yoke. Three-quarter-inch female threaded conduit hub provided.

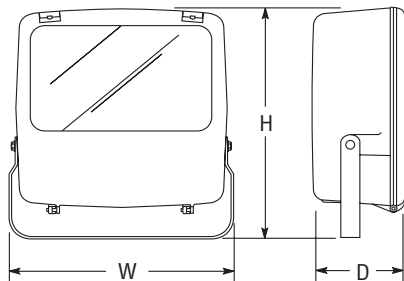
Listings – UL Listed (standard). CSA Certified (see Options). UL listed Class 1, Division 2, Groups A, B, C, and D for hazardous locations. UL listed for marine outside locations. IP65 rated in accordance with standard IEC 529.

Ordering Information

Example: **HFA 400M TA 120 LPI**

Designation	Distribution	Voltage	Options
<u>High Pressure Sodium</u>	TA (7x7)	120	DBL Architectural color, black
HFA 250S	RN (6x3)	208¹	DMB Architectural color, medium bronze
HFA 400S		240¹	DGC Architectural color, charcoal gray
<u>Metal Halide</u>		277	DTG Architectural color, tennis green
HFA 250M		347	DSS Architectural color, sandstone
HFA 400M		480¹	DWH Architectural color, white
		TB²	Architectural textured colors available. Consult your Lithonia Lighting representative.
			Installed
			CR Enhanced corrosion resistance
			CRT Non-stick protective coating ³
			LS Lamp support
			LPI Lamp included as standard
			L/LP Less lamp
			TP Tamperproof latches
			CSA CSA Certified
			DNA Architectural color – natural aluminum

- NOTES:
 1 Consult factory for availability in Canada.
 2 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
 3 Black finish only.



Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	HFA
EPA	2.6 ft ² (.24 m ²)
Width	23 ³ / ₄ (60.3)
Depth	9 ³ / ₄ (24.8)
Overall height	24 (61) (includes yoke)
Weight	65 lbs (29.5 kg)

Temperature Codes

Description	Wattage	T-Code or Temp.	Max. Internal Temp.
HFA	250M	T1	336°C
HFA	400M	T1	343°C
HFA	250S	T1	301°C
HFA	400S	T1	352°C

HFL

Intended Use

For general to heavy industrial applications, including Class 1, Division 2 classified hazardous locations, marine and corrosive environments or wherever excessive vibration and dirt may exist.

Features

Construction – Compact NEMA heavy-duty constructed housing. Die-cast copper-free (<.4%) aluminum housing with rounded corners and front bezel. Front bezel is removable via position-oriented hinge-cam design. Lens is thermal- and shock-resistant, clear tempered glass with no metal-to-glass contact. Hardware is corrosion resistant.

Finish – Standard finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics – Porcelain, horizontally oriented mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rat-

ed. RA2 distribution is available. Computer-designed, precision-formed reflector for high performance and efficiency. Premium one-piece silicone gasket seals optical chamber to inhibit entrance of outside contaminants. 400W metal halide requires an ED28 reduced jacketed lamp.

Electrical – Ballast is HPF constant-wattage autotransformer, copper wound and 100% factory tested. Electrical components are mounted to the cast aluminum housing, promoting maximum heat dissipation. Accessible through front bezel.

Installation – Corrosion-resistant, heavy-duty, painted steel mounting yoke. Three-quarter-inch female threaded conduit hub provided.

Listings – UL Listed (standard). CSA Certified (see Options). UL listed, Class 1, Division 2, Groups A, B, C, and D for hazardous locations. UL listed for marine outside locations. IP65 rated in accordance with standard IEC 529.



Example: **HFL 400S RA2 TB LPI**

Ordering Information

Designation	Distribution	Voltage	Options
<u>Metal Halide</u>	RA2 (7x6)	120	Installed CR Enhanced corrosion resistance CRT Non-stick protective coating ⁴ LS Lamp support LPI Lamp included as standard L/LP Less lamp CSA CSA Certified
HFL 400M¹		208²	
<u>High Pressure Sodium</u>		240²	DGC Architectural color, charcoal gray DTG Architectural color, tennis green DNA Architectural color, natural aluminum DBL Architectural color, black DMB Architectural color, medium bronze DSS Architectural color, sandstone DWH Architectural color, white
HFL 400S	277		
	347		
	480² TB³		

Architectural textured colors available. Consult your Lithonia Lighting representative.

Temperature Codes

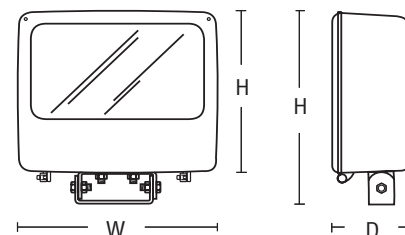
Description	Wattage	T-Code or Temp.	Max. Internal Temp.
HFL	400M	T1	433°C
HFL	400S	T1	426°C

Dimensions are shown in inches (centimeters) unless otherwise noted.

	HFL
EPA	1.3 ft ² (.12 m ²)
Width	15 ³ / ₄ (40.0)
Depth	6 ¹ / ₈ (15.5)
Height	16 ¹ / ₈ (40.9) (includes yoke)
Weight	27 lbs (12.3 kg)

NOTES:

- 1 Must use reduced jacket ED-28 lamp.
- 2 Consult factory for availability in Canada.
- 3 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 4 Black finish only.



HFR

Hazardous Location Medium Floodlights



Intended Use

For general to heavy industrial applications, including Class 1, Division 2 classified hazardous locations, marine and corrosive environments, or where excessive vibration and dirt may exist.

Features

Construction – Compact NEMA heavy-duty constructed housing. Die-cast copper-free (<.4%) aluminum housing with rounded corners and front bezel. Front bezel is removable via position-oriented hinge-cam design. Lens is thermal- and shock-resistant, clear tempered glass with no metal-to-glass contact. Hardware is corrosion resistant.

Finish – Standard finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics – Porcelain, horizontally oriented mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rat-

ed. TA, RB and RC distributions are available. Computer-designed, precision-formed reflector for high performance and efficiency. Premium one-piece silicone gasket seals optical chamber to inhibit entrance of outside contaminants. **Does not require use of reduced-size lamp.**

Electrical – Ballast is HPF constant-wattage autotransformer, copper wound and 100% factory tested. Electrical components mounted to cast aluminum housing, promoting maximum heat dissipation. Accessible through front bezel.

Installation – Corrosion-resistant, heavy-duty, painted steel mounting yoke. Three-quarter-inch female threaded conduit hub provided.

Listings – UL Listed (standard). CSA Certified (see Options). UL listed, Class 1, Division 2, Groups A, B, C, and D for hazardous locations. UL listed for marine outside locations. IP65 rated in accordance with standard IEC 529.

Ordering Information

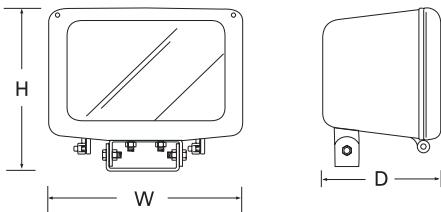
Example: **HFR 400M TA 120 LPI**

Designation	Distribution	Voltage	Options
<u>Metal Halide</u>	TA (7x6)	120	<u>Installed</u>
HFR 250M	RB (6x6)	208¹	CR Enhanced corrosion resistance
HFR 400M	RC (5x5)	240¹	CRT Non-stick protective coating ³
<u>High Pressure Sodium</u>		277	LS Lamp support
HFR 150S		347	LPI Lamp included as standard
HFR 250S		480¹	L/LP Less lamp
HFR 400S		TB²	CSA CSA Certified
			DNA Architectural color, natural aluminum
			DBL Architectural color, black
			DMB Architectural color, medium bronze
			DGC Architectural color, charcoal gray
			DTG Architectural color, tennis green
			DSS Architectural color, sandstone
			DWH Architectural color, white

Architectural textured colors available. Consult your Lithonia Lighting representative.

NOTES:

- 1 Consult factory for availability in Canada.
- 2 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 3 Black finish only.



Dimensions are shown in inches (centimeters) unless otherwise noted.

EPA	HFR 1.3 ft ² (.12 m ²)
Width	17 ⁵ / ₈ (44.8)
Depth	10 ³ / ₄ (32.4)
Height	13 (33.0) (includes yoke)
Weight	29 lbs (13.2 kg)

Temperature Codes

Description	Wattage	T-Code or Temp.	Max. Internal Temp.
HFR	250M	T1	347°C
HFR	400M	T1	359°C
HFR	150S	T2B	238°C
HFR	250S	T1	332°C
HFR	400S	T1	376°C

HFM

Intended Use

For general to heavy industrial applications, including Class 1, Division 2 classified hazardous locations, marine and corrosive environments or where excessive vibration and dirt may exist.

Features

Construction – NEMA heavy-duty constructed housing. Die-cast copper-free (<.4%) aluminum housing with round corners and front bezel. Front bezel is removable via position-oriented hinge-cam design. Lens is thermal- and shock-resistant, clear tempered glass with no metal to glass contact. Hardware is corrosion resistant.

Finish– Standard finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics – Porcelain, horizontally oriented medium-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 660W, 600V, 4KV pulse rated.

RB and RG distributions are available. Computer-designed, precision-formed reflectors for high performance and efficiency. Premium one-piece silicone gasket seals optical chamber to inhibit entrance of contaminants.

Electrical – Ballast is HPF constant-wattage autotransformer, copper wound and 100% factory tested. Electrical components mounted to cast aluminum housing, promoting maximum heat dissipation. Accessible through front bezel.

Installation – Corrosion-resistant, heavy-duty, painted steel mounting yoke. Three-quarter-inch female threaded conduit hub provided.

Listings – UL Listed (standard). CSA Certified (see Options). UL listed, Class 1, Division 2, Groups A, B, C, and D for hazardous locations. UL listed for marine outside locations. IP65 rated in accordance with standard IEC 529.



Ordering Information

Designation	Distribution	Voltage	Options
<u>Metal Halide</u>	(Select one)	<u>High Pressure Sodium</u>	<u>Installed</u>
HFM 175M	RB (6x6)	120	CR Enhanced corrosion resistance
<u>High Pressure Sodium</u>	RG (3x3)	208 ^{1,2}	CRT Non-stick protective coating ⁵
HFM 100S		240 ^{1,2}	LPI Lamp included as standard
HFM 150S		277 ¹	L/LP Less lamp
		347 ¹	CSA CSA Certified
		480 ^{1,3}	DNA Architectural color, natural aluminum
		120/277 ^{1,3}	DBL Architectural color, black
		120/347 ¹	DMB Architectural color, medium bronze
		TB ⁴	DGC Architectural color, charcoal gray
		<u>Metal Halide</u>	DTG Architectural color, tennis green
		120	DSS Architectural color, sandstone
		208 ³	DWH Architectural color, white
		240 ³	
		277	
		347	
		480 ³	
		120/277 ³	
		120/347	
		TB ⁴	

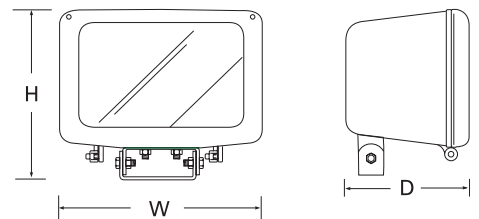
NOTES:

- HPS wattages require a high reactance, high power factor ballast (XHP).
- 208 & 240V HPS in Canada, a constant wattage isolated ballast CWI is standard.
- Not available in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Black finish only.

Temperature Codes			
Description	Wattage	T-Code or Temp.	Max. Internal Temp.
HFM 175M	175M	T1	402°C
HFM 100S	100S	280	280°C
HFM 150S	150S	350	341°C

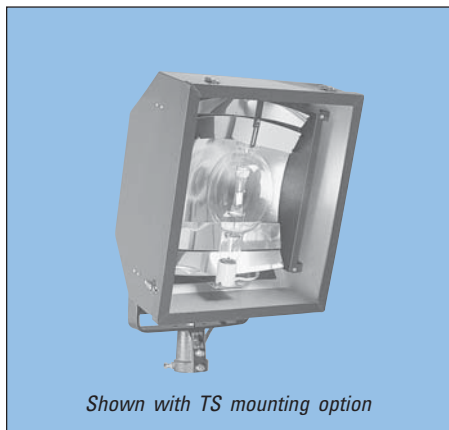
Dimensions are shown in inches (centimeters) unless otherwise noted.

	HFM
EPA	.5 ft ² (.05 m ²)
Width	10 1/2 (26.9)
Depth	6 3/4 (17.5)
Height	10 1/2 (26.9) (includes yoke)
Weight	15 lbs (6.8 kg)



95

High-Performance Floodlights



Shown with TS mounting option

Intended Use

For large area facade or monument floodlighting.

Features

Housing – Rugged, heavy-gauge, aluminum housing, horizontal (95) or vertical (95V) lamp orientation. Continuous welded seams, fully gasketed for weathertight integrity. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder; other architectural colors available. Architectural Class 1 anodize finish also available.

Door Frame – Aluminum door frame secured with four stainless steel latches.

Lens – Thermal-resistant and shock-re-

sistant tempered flat lens.

Mounting – Painted steel yoke complete with vertical angle selector stop, reaiming, and 3-foot, 14/3 SEO cable is standard.

Optics – Segmented anodized aluminum, precisely formed to provide varying rectangular beam patterns (non-rotatable).

Electrical – Constant-wattage autotransformer ballasts, copper wound and 100% factory tested.

Socket – Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W-600V. 4KV pulse rated. Uses BT 56 lamp.

Listings – UL Listed (standard). CSA Certified (see Options). UL listed for wet locations.

Ordering Information

Designation	Distribution	Voltage	Optional mounting
HORIZONTAL HOUSING	Horiz. Vert.	120	<u>Shipped separately</u>
<u>High Pressure Sodium</u>	<u>Lamp</u> <u>Lamp</u>	208⁴	TS Tenon slipfitter ⁶
95 1000S	RMH RMV	240⁴	(2 ³ / ₈ "OD max.)
<u>Metal Halide</u>	RNH¹ RNV³	277	FCRA Crossarm adapter ⁶
95 1000M	RWH RWV	347	FCRA45 Crossarm adapter
VERTICAL HOUSING	BPH² BPV²	480⁴	(45° from horizontal) ⁶
<u>High Pressure Sodium</u>	SPH² SPV²	TB⁵	EWB Extended wall
95V 1000S			bracket ⁶
<u>Metal Halide</u>			MP Mounting plate ⁶
95V 1000M			TM Tenon mount (base
			mount) ⁷

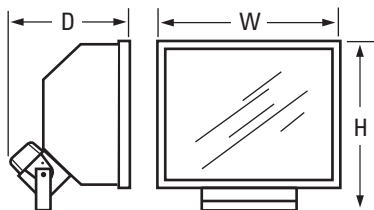
Example: 95 1000S RMH 120 SF

Options/Accessories
<u>Installed</u>
SF Single fuse (120V, 277V, 347V, n/a TB)
DF Double fuse (208V, 240V, 480V, n/a TB)
PER NEMA twist-lock receptacle only
CSA CSA certified
LPI Lamp included as standard
L/LP Less lamp

For optional Architectural Colors, see page 485.

Options/Accessories
<u>Shipped separately</u>
UV Upper visor
BV Bottom visor
FV Full visor (4-sided)
GV Glare visor (3-sided)
CV Concentric visor
VG Vandal guard
SC Shorting cap for PER option
PE1 NEMA twist-lock photocontrol (120V, 208V, 240V) ⁸
PE3 NEMA twist-lock photocontrol (347V) ⁸
PE4 NEMA twist-lock photocontrol (480V) ⁸
PE7 NEMA twist-lock photocontrol (277V) ⁸
<u>Outdoor remote</u>
MR1 Non-encapsulated

Distribution	Lamp/Fixture Data			
	95		95V	
	<i>1000M</i>	<i>1000S</i>	<i>1000M</i>	<i>1000S</i>
RMH	4x1	5x2	3x5	6x6
RNH	3x1	–	3x3	5x6
RWH	5x1	5x1	3x5	6x6
BPH	–	–	4x5	6x6
SPH	2x1	4x1	–	–
RMV	5x3	6x6	1x4	2x5
RNV	3x3	6x5	1x3	–
RWV	5x4	6x6	1x4	1x5
BPV	5x4	6x6	–	–
SPV	–	–	1x2	1x4



Dimensions are shown in inches (centimeters) unless otherwise noted.

	95	95V
EPA	4.7 ft ² (.44 m ²)	4.3 ft ² (.40 m ²)
Width	24 ¹ / ₂ (62.5)	21 (53.5)
Height	30 (77)	30 (77)
Depth	12 ¹ / ₂ (31.8)	18 ¹ / ₈ (46)
Max. weight	90 lbs (40.7 kg)	90 lbs (40.7 kg)

NOTES:

- Not available with 95 1000S.
- BPH and SPV for use with 95V only. SPH and BPV for use with 95 only.
- Not available with 95V 1000S.
- Consult factory for availability in Canada.
- Multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- For use with YK mounting (standard) only.
- For use with TS option only.
- PER must be ordered with fixture.

High-Performance Floodlights

Intended Use

For large area facade or monument floodlighting.

Features

Housing – Rugged, heavy-gauge, aluminum housing, horizontal (55) or vertical lamp (55V) orientation. Continuous welded seams, fully gasketed for weathertight integrity. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder. Architectural class 1 anodize finish also available.

Door Frame – Aluminum door frame secured with four stainless steel latches.

Lens – Thermal-resistant, tempered flat lens.

Mounting – Painted, steel yoke complete with angle selector, aiming stop, and 3-foot, 14/3 SEO cable is standard.

Optics – Anodized aluminum reflector. Seven distributions available to provide varying rectangular beam patterns (non-rotatable).

Electrical – Constant-wattage autotransformer ballasts, copper wound and 100% factory tested.

Socket – Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W-600V. 4KV pulse rated.

Listings – UL Listed (standard). CSA Certified (see Options). UL listed for wet locations.



Shown with TS mounting option.

Ordering Information

Example: **55 750S RPN 120 SF**

Designation	Distribution	Optional mounting	Options/Accessories
HORIZONTAL HOUSING & LAMP		Shipped separately	Installed
<u>High Pressure Sodium</u>	RME²	TS Tenon slipfitter ⁶	SF Single fuse (120V, 277V, 347V, n/a TB)
55 750S	RNE²	(2 ³ / ₈ "OD max.)	DF Double fuse (208V, 240V, 480V, n/a TB)
55 1000S	RPN²	FCRA Crossarm adapter ⁶	PER NEMA twist-lock receptacle only
<u>Metal Halide</u>	RWE²	FCRA45 Crossarm adapter (45° from horizontal) ⁶	CSA CSA Certified (120V, 277V, 347V only)
55 320M¹	RNA³	EWB Extended wall bracket ⁶	LPI Lamp included as standard
55 350M¹	RMA³	MP Mounting plate ⁶	L/LP Less lamp
55 400M	RWA³	TM Tenon mount (base mount) ⁷	QRS Quartz restrike ^{8,9}
55 1000M			SCWA Super CWA pulse start ballast (n/a HPS or 1000M)
VERTICAL HOUSING & LAMP	Voltage		Shipped separately
<u>High Pressure Sodium</u>	120		UV Upper visor
55V 750S	208⁴		BV Bottom visor
55V 1000S	240⁴		FV Full visor (4-sided)
<u>Metal Halide</u>	277		GV Glare visor (3-sided)
55V 320M¹	347		VG Vandal guard
55V 350M¹	480⁴		SC Shorting cap for PER option
55V 400M	TB⁵		PE1 NEMA twist-lock photocontrol (120V, 208V, 240V) ¹⁰
55V 1000M			PE3 NEMA twist-lock photocontrol (347V) ¹⁰
			PE4 NEMA twist-lock photocontrol (480V) ¹⁰
			PE7 NEMA twist-lock photocontrol (277V) ¹⁰

For optional Architectural Colors, see page 485.

Outdoor remote

MR1 Non-encapsulated

Lamp/Fixture Data

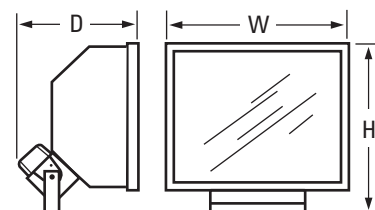
Distribution	55			55V		
	1000M	400M	1000S	1000M	400M	1000S
RME	6x5	6x5	6x5	4x6	5x6	5x6
RNE	6x4	6x4	6x4	4x6	4x6	4x6
RPN	6x2	6x2	5x1	1x6	1x6	1x5
RWE	6x5	6x5	6x5	5x6	5x6	5x6
RNA	5x1	–	–	1x5	–	–
RMA	6x6	–	–	6x6	–	–
RWA	6x5	–	–	6x7	–	–

NOTES:

- Must be ordered with SCWA.
- RME, RNE, RPN, RWE require reduced jacket BT-37 lamp with 1000M.
- RMA, RNA, RWA are for use with 1000M only and require standard BT-56 lamp.
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- For use with YK mounting (standard) only.
- For use with TS option only. TS included.
- Lamp not included.
- Quartz lamp wattage not to exceed ballast wattage rating.
- PER must be ordered with fixture.

Dimensions are shown in inches (centimeters) unless otherwise noted.

	55	55V
EPA	3.5 ft ² (.33 m ²)	3.8 ft ² (.35 m ²)
Width	23 ¹ / ₄ (59.1)	17 ³ / ₈ (44.1)
Height	23 (58.4)	33 (83.8)
Depth	14 ¹ / ₂ (36.8)	12 ⁵ / ₈ (32.1)
Max. weight	91 lbs (41.2 kg)	98 lbs (44.3 kg)



170S

High-Performance Floodlights

Intended Use

For airport aprons or parking areas.

Features

Housing – Rugged, heavy-gauge, aluminum housing. Continuous welded seams for weathertight integrity. Dark bronze (DDB) corrosion-resistant polyester powder finish; other architectural colors available. Architectural Class 1 anodize finish also available.

Door Frame – Aluminum door frame secured with four stainless steel latches.

Lens – Thermal-resistant and shock-resistant tempered flat lens.

Mounting – Painted steel yoke, complete with vertical angle selector, retaining stop and 3-foot, 14/3 SEO cable is standard.

Optics – Anodized aluminum reflector with internal glare control louver, painted matte black to provide an asymmetrical beam pattern with sharp vertical cutoff.

Electrical – Constant wattage autotransformer ballast, copper wound and 100% factory tested.

Socket – Horizontal, mogul-base porcelain socket(s) with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W-600V. 4KV pulse rated.

Listings – UL Listed (standard). CSA Certified (see Options). UL listed for wet locations.



Shown with TS mounting option

Ordering Information

Designation	Distribution	Voltage
<u>High Pressure Sodium</u>	HPN	120
170S 250S		208³
170S 400S		240³
170S 750S		277
170S 1000S		347
<u>Metal Halide</u>		480³
170S 320M¹		TB⁴
170S 350M¹		
170S 400M		
170S 1000M²		

Lamp/Fixture Data

Wattage	Ballast	Lamp Type	Beam Spread H°xV°	NEMA Dist.
<u>High Pressure Sodium</u>				
250	HPN	CWA	ET18 128x55	6x4
400	HPN	CWA	ET18 129x52	6x4
750	HPN	CWA	BT37 133x57	7x4
1000	HPN	CWA	E25 132x56	7x4
<u>Metal Halide</u>				
400	HPN	CWA	BT37 139x68	7x4
1000	HPN	CWA	BT37 138x63	7x4

Optional mounting

Shipped separately

- TS** Tenon slipfitter⁵ (2³/₈"OD max.)
- FCRA** Crossarm adapter⁵
- FCRA45** Crossarm adapter (45° from horizontal)⁵
- EWB** Extended wall bracket⁵
- MPB29** Mounting pole bracket for 2 fixtures at 90°⁶
- MPB39** Mounting pole bracket for 3 fixtures at 90°⁶
- MPB49** Mounting pole bracket for 4 fixtures at 90°⁶

Example: 170S 400S HPN 120 SF

Options/Accessories

Installed

- SF** Single fuse (120V, 277V, 347V, n/a TB)
- DF** Double fuse (208V, 240V, 480V, n/a TB)
- PER** NEMA twist-lock receptacle only
- CSA** CSA Certified
- QRS** Quartz restrike^{7,8}
- SCWA** Super CWA pulse start ballast (n/a HPS and 1000M)

For optional Architectural Colors, see page 485.

Shipped separately

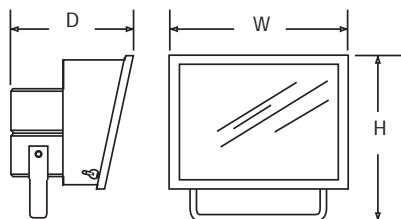
- UV** Upper visor
- SC** Shorting cap for PER option
- PE1** NEMA Twist-lock photocontrol (120V, 208V, 240V)⁹
- PE3** NEMA twist-lock photocontrol (347V)⁹
- PE4** NEMA twist-lock photocontrol (480V)⁹
- PE7** NEMA twist-lock photocontrol (277V)⁹

Outdoor remote

- MR1** Non-encapsulated

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

EPA	170S
Width	2.7 ft ² (.25 m ²)
Height	21 (53.3)
Depth	20 ¹ / ₂ (52.1)
Max weight	19 ¹ / ₄ (48.9)
	83 lbs (37.6 kg)



NOTES:

- 1 Must be ordered with SCWA.
- 2 Requires a BT-37 reduced jacket lamp.
- 3 Consult factory for availability in Canada.
- 4 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 5 For use with YK mounting (standard) only.
- 6 MPB bracket ships separately with junction box and hinge mechanisms. Bracket weight: 12 lbs.
- 7 Lamp not included.
- 8 Quartz lamp wattage not to exceed ballast wattage rating.
- 9 PER must be ordered with fixture.

TSP

Tru-Sport®

Intended Use

For stadiums, fields, arenas, tracks or courts.

Features

Housing – Two-piece, die-cast aluminum ballast housing mounted to steel trunnion. Removable ballast is hinged with captive fastener. Steel trunnion features both vertical and horizontal aiming scale with vertical repositioning stop. Standard finish is white (DWH) corrosion-resistant polyester powder.

Optics – Heavy-gauge anodized reflector with five distributions available. Transverse mounting of lamp. Lamp support included. Optical chamber is sealed to inhibit entrance of contaminants. Heavy-duty hinged lens is thermal-resistant, shock-resistant and impact-resistant tempered glass. Lens frame is secured by spring clips for servicing of lamp. "Fluxmanager" (NFX, WFX, MFX) available for optimal glare and spill light

control. Choice of General Purpose or heavy-duty (shrouded) reflectors.

Electrical System – All electrical components are thermally isolated from optical assembly, promoting longer life. Ballast is high-power factor, constant-wattage autotransformer, copper wound and 100% factory tested. Below horizontal aiming only.

Installation – Fixture is mounted by securing trunnion directly to crossarm. Mounting hardware is provided.

Socket – Die-cast socket housing. Porcelain, mogul-base socket with copper alloy, nickel-plated screw shell and spring-loaded center contact. UL listed 1500W-600V, 4KV pulse rated.

Hardware – All external hardware is stainless steel.

Listings – UL Listed (standard). CSA Certified (see Options). UL listed for wet locations. US Patent no. 6,190,023. Canadian patent no. 2,212,014. Other patent pending.



Example: **TSP 1500M GP24N 120 SF**

Ordering Information

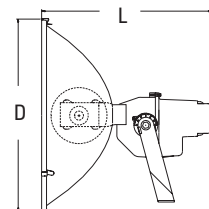
Designation		Distribution		Voltage	Options/Accessories
Metal Halide		General purpose	Heavy duty²	120	Options (shipped installed)
TSP	400M¹	GP24N	HD24N	208³	SF Single fuse (120V, 277V, 347V) n/a TB
TSP	1000M	GP24NFX	HD24NFX	240³	DF Double fuse (208V, 240V, 480V) n/a TB
TSP	1500M	GP24M	HD24M	277	QRS Quartz restrike system (lamp not included)
		GP24MFX	HD24MFX	347	C62 2 ft. of 16/3 SEO cable pre-wired
		GP24W	HD24W	480³	C42 2 ft. of 14/3 SEO cable pre-wired
		GP24WFX	HD24WFX	TB⁴	C22 2 ft. of 12/3 SEO cable pre-wired
					CV3P 3 ft. of 16/3 EO cord pre-wired with 3-prong plug (use with prewired cages and crossarms) ^{5,6}
					CR Enhanced corrosion resistance
					CF Charcoal filter (heavy-duty only) ⁷
					SLR Stainless steel lens ring
					WC Wood crossarm mounting bolt (5/8"-11 UNC x 7")
					SCWA Super CWA pulse start ballast (400M only)
					CSA CSA Certified
					For optional Architectural Colors, see page 485.
					Shipped separately⁸
					FTS Tenon slipfitter

NOTES:

- 1 May be ordered with SCWA.
- 2 Heavy-duty anodized aluminum shroud.
- 3 Consult factory for availability in Canada.
- 4 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 5 Must use mating receptacle, provided by others.
- 6 N/A 1500M, 120V.
- 7 HD option must be ordered.
- 8 See flood accessories sheet for additional ordering information.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	TSP
EPA	3.3 ft ² (0.91m ²)
Diameter	24 1/2 (62.2)
Length	20 (50.8)
Max weight	55 lbs (24.9 kg)



Controlled-Beam Sportlighters

Intended Use

Ideal for recreational or competitive sports fields, parking areas and industrial yards.

Features

Housing – Heavy-gauge, hydroformed aluminum ballast housing mounted to integral die-cast monoframe with horizontal degree aiming scale and repositioning locator. Die-cast aluminum socket housing provides vertical aiming adjustment with degree aiming scale and repositioning stop.

Optics – Heavy-gauge anodized aluminum reflectors provide a range of NEMA beam spreads. Optical chamber sealed to inhibit entrance of contaminants. Hinged lens is heavy-duty, thermal-, shock- and impact-resistant tempered glass.

Electrical – All electrical components contained in ballast housing, which is isolated thermally from socket housing and op-

tical assembly, promoting longer ballast life. Ballast is high-power factor, constant-wattage autotransformer, copper wound and 100% factory tested.

Installation – Mounted by securing integral crossarm mounting bracket directly to cross arm. 5/8" x 11UNC mounting bolt provided. Exposed bolt length: 1 1/2".

Socket – Glazed porcelain, mogul-base with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options). UL listed for wet locations.

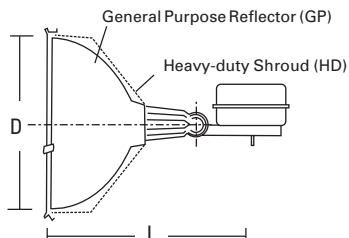


Ordering Information

Example: **TV 1500M GP4 TB**

Designation	Distribution ¹	Voltage	Options/Accessories	
<u>High Pressure Sodium</u>	GP2²	120	<u>Installed</u>	<u>Shipped separately⁷</u>
TV 400S	GP3²	208⁴	SF Single fuse (120V, 277V) n/a TB or 347V	<u>NEMA twist-lock PE photocontrol</u>
TV 1000S	GP4³	240⁴	DF Double fuse (208V, 240V, 480V) n/a TB	PE1 120V-240V
<u>Metal Halide</u>	GP5³	277	PER NEMA PE recept. only, no photocell	PE3 347V
TV 400M	GP6	347	QRS Quartz restrike system (lamp not included)	PE4 480V
TV 1000M		480⁴	LS Lamp support	PE7 277V
TV 1500M		TB⁵	C62 2 ft. of 16-3 SEO cord pre-wired	SC Shorting cap (metal halide only)
			C42 2 ft. of 14-3 SEO cord pre-wired	UV Upper visor
			C22 2 ft. of 12-3 SEO cord pre-wired	FTS Tenon slipfitter
			CV3P 3 ft. of 16-3 SEO cord pre-wired w/ 3 prong plug for use with pre-wired cages and crossarms ⁶	
			AH Above horizontal aiming	
			CR Enhanced corrosion resistance	
			CF Charcoal filter (for use with heavy-duty shroud only)	
			SLR Stainless steel lens ring	
			WC Wood crossarm mounting bolt	
			SCWA Super CWA Pulse Start Ballast (400M only)	
			IBL Internal bottom louver	
			CSA CSA Certified	
			NOM NOM Certified (consult factory)	

- NOTES:
- To order heavy-duty aluminum shroud, change GP to HD in catalog number. Example: TV 400S HD2.
 - Not available for 1000S or 1000H.
 - Not available for 1000H.
 - Consult factory for availability in Canada.
 - Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
 - Must use mating receptacle, provided by others (n/a 1500M 120V).
 - May be ordered as accessory.



- For optional Architectural Colors, see page 485.
- | | | | |
|----------|----|---------------|-------------------|
| EPA | TV | NEMA 2, 3: | 2.9 ft.² (.27 m²) |
| | | NEMA 4, 5, 6: | 2.5 ft.² (.23 m²) |
| Diameter | | NEMA 2, 3: | 23 1/8" (58.7) |
| | | NEMA 4, 5, 6: | 21 1/2" (54.6) |
| Length | | NEMA 2, 3: | 30" (76.2) |
| | | NEMA 4, 5, 6: | 31 1/2" (80) |

Dimensions are shown in inches (centimeters) unless otherwise noted.

ORDERING/PACKAGING OPTIONS

To accommodate the product's physical configuration as well as a range of customer handling and processing needs, alternative ordering/packaging methods are available.

Example:

(21) **TV 1500M GP4 TB** sportlighters

can be ordered/packaged as:

1 **Standard Packaging (Optimized form)**
To order, use single catalog number shown in example above. Fixtures ship as multiple components using *optimized* packaging. Example ships as:

- (Qty 21) **TV 1500M N4 TB HSG** (21 cartons of 1 housing)
- (Qty 20) **GP20A J4** (5 cartons of 4 reflectors)
- Qty 1) **GP20A U** (1 carton of 1 reflector)

2 **Component Packaging**
Housings ship in unit cartons. Example:

- (Qty 21) **TV 1500M N4 TB HSG** (21 cartons of 1 housing)

Reflectors ship in multiples of:
GP20A J4 (5 cartons of 4 reflectors)
GP20A U (1 carton of 1 reflector)

WSR/WST

Intended Use

For building- and wall-mounted applications.

Features

Housing – Rugged, die-cast, single-piece housing. Die-cast door frame has 1/8" thick tempered glass lens. Door frame is fully gasketed with one-piece solid silicone. Standard finish is textured dark bronze (DDBT) corrosion-resistant polyester powder with other architectural colors available.

Installation – Universal mounting mechanism with integral mounting support allows fixture to hinge down. Bubble level provides correct alignment with each installation.

Optics – Interchangeable, segmented reflectors for superior uniformity and control. Three full cutoff distributions available: FT (forward throw), MD (medium throw), and WT (wide throw). Four uplight distributions available: FTU (Forward throw 10% up), MDU (medium throw, 10%

up), WTU (wide throw, 10% up) and MDU5 (up/down, medium throw, 50% up, 50% down). Compact fluorescent MD (medium throw) only.

Electrical – H.I.D.: 50W-150W utilizes a high reactance, high power factor ballast. 35S utilizes a reactance high power factor ballast. 175W utilizes a constant-wattage auto transformer ballast. Quick-disconnect plug easily disconnects reflector from ballast. Ballasts are copper wound and 100% factory tested. Porcelain, medium-base copper alloy, nickel-plated screw shell and center contact. UL listed 660W, 600V 4KV pulse rated. CFL: compact fluorescent ballast is Class P, electronic, high power factor, <10% THD with starting temp. of 0° F (-18° C). Fluorescent socket is high-temperature thermoplastic with integral lamp retention clip.

Listings – UL Listed suitable for wet locations (damp location listed in lens-up orientation). CSA Certified (see Options). IP rated.

NEW



Example: **WST 175M FT 120 SF LPI**

Ordering Information

Series			Distribution	Voltage	Options	
WST	Trapezoid		<u>Downlight Distributions</u>	120	<u>Shipped installed in fixture</u>	
WSR	Half round		FT Forward throw	208⁴	SF Single fuse (120V, 277V, 347V, n/a TB) ⁸	<u>Architectural Colors¹⁶</u>
<u>Wattage/Source</u>			MD Medium throw (coated lamp standard)	240⁴	DF Double fuse (208V, 240V, n/a TB or TBV) ⁸	<u>Standard Textured Colors</u>
<u>Metal Halide</u>	<u>High Pressure Sodium</u>	<u>Compact Fluorescent²</u>	WT Wide throw	277	GMF Internal slow-blow fusing ^{9,10}	DDBT Dark bronze (standard)
50M		26DTT	<u>Uplight Distributions³</u>	347	EC Emergency circuit (25W max, lamp included)	DSST Sandstone
70M	35S¹	2/26DTT	FTU Forward throw with 10% uplight	TB⁵	DC12 Emergency circuit 12 volt ¹¹ (35W lamp included standard)	DNAT Natural aluminum
100M	50S	32TRT	MDU Medium throw with 10% uplight (coated lamp standard)	TBV⁶	ELDW Emergency battery pack (120V or 277V only) ^{9,12}	DWHG White
150M	70S	2/32TRT	WTU Wide throw with 10% uplight	MVOLT⁷	QRS Quartz restrike system (100W max, lamp not included) ⁸	DBLB Black
175M	100S	42TRT	MDU5 Up/down medium throw with 50% uplight & 50% downlight (coated lamp standard)		CR Enhanced corrosion resistance	<u>Shipped separately</u>
	150S	2/42TRT			CRT Non-stick protective coating ¹³	WSBBW Surface-mounted back box ¹⁷
					PE Photoelectric cell-button type (n/a TB) ¹⁴	UT5 Uplight 5 degrees ¹⁷
					WLU Wet location door for up orientation	WSTWG Wire guard (WST) ¹⁴
					IBS Internal backlight shield ¹⁵	WSTVG Vandal guard (WST) ¹⁴
					DFL Diffusing lens	WSRWG Wire guard (WSR) ¹⁴
					TP Tamperproof	WSRVG Vandal guard (WSR) ¹⁴
					LPI Lamp included as standard	
					L/LP Less lamp	

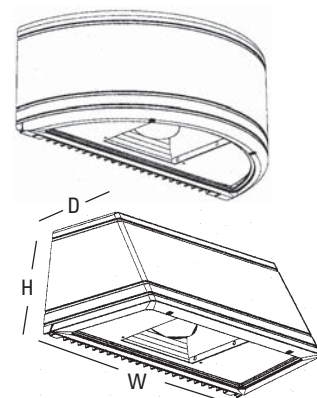
NOTES:

- 120V only.
- Only available with MD, MDU, and MDU5 distributions.
- Available on WSR fixture only.
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Optional penta-tap ballast (120V, 208V, 240V, 277V, 480V; not available in Canada). 175M only.
- Optional multi-volt electronic ballast (for compact fluorescent lamps only) capable of operating on any line voltage from 120V-277V.
- Not available with compact fluorescent.
- Available for compact fluorescent units only.
- Must specify voltage. Not available with MVOLT or TB.
- Not available with SF, DF, or QRS.
- Not available with 2/32TRT or 2/42TRT.
- Black finish only.
- Must be ordered with fixture; no field installations.
- IBS not available with MD, MDU and MDU5 distributions.
- Additional architectural colors available; see www.lithonia.com for more information.
- Must specify finish.



Dimensions are shown in inches (centimeters) unless otherwise noted.

	WSR	WST
Width	18 (45.7)	16 1/4 (41.2)
Depth	9 (22.8)	9 1/8 (23.2)
Height	7 1/4 (18.4)	7 1/4 (18.4)
Max weight	30 lbs (13.6 kg)	30 lbs (13.6 kg)



WFL

Architectural Building Mounted

Intended Use

For building and wall-mounted applications.

Features

Housing – Extruded aluminum body with cast end caps is mounted with 1/4" bolts, to formed steel wall bracket. Housing body can be rotated and locked in any position along horizontal axis. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder. Other architectural colors available.

Lens Frame – Cast aluminum frame is hinged and secured by stainless steel fasteners. Closed cell silicone gasket prevents the penetration of dust and moisture.

Lens – Clear, impact-resistant, tempered glass lens with silkscreen.

Mounting – Steel mounting plate attaches directly to industry standard junction box. Mounting plate includes provision for attachment independent of junction box.

(Required for WFL3) Optional Backbox wall mounting available for surface conduit applications.

Optics – Anodized aluminum reflectors: segmented, specular or hammertone finish.

Electrical – 150W and below utilizes a high reactance, high power ballast. 175W and above utilizes a constant-wattage autotransformer ballast. Both ballasts are copper wound and 100% factory tested.

Socket – Horizontal porcelain socket (WFL2 medium-base, WFL3 mogul-base) with copper alloy, nickel-plated screw shell and center contact. 4KV pulse rated. UL listed 660W, 600W.

Listings – UL Listed (standard). CSA Certified (see Options). UL listed for wet locations. IP65 rated in accordance with standard IEC 529.

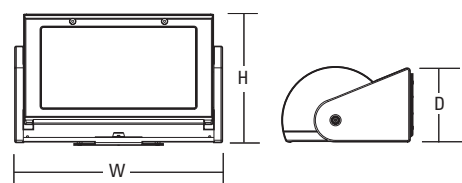


Ordering Information

Example: **WFL2 175M GZ 120 LPI**

Designation	Distribution	Voltage	Options/Accessories			
<u>High Pressure Sodium</u>			<u>Installed</u>	<u>Architectural colors</u>		
WFL2 70S	SP Spot	120	SF Single fuse (120V, 277V, 347V, n/a TB)	(powder finish) ⁶		
WFL2 100S	BP Horizontal flood ³	208⁴	DF Double fuse (208V, 240V, 480V, n/a TB)	Standard colors:		
WFL2 150S	RN Horizontal spot, narrow	240⁴	QRS Quartz restrrike system (WFL3 only, 100W max, lamp not included)	DDB Dark bronze (standard)		
WFL2 250S	RM Horizontal spot, medium	277	CR Enhanced corrosion resistance	DWH White		
WFL3 400S	RW Horizontal spot, wide	347	CSA CSA Certified	DBL Black		
<u>Metal Halide</u>			PE Photoelectric cell, button type (n/a TB 480V)	Classic colors:		
WFL2 70M	HPN Vertical flood, narrow	480⁴	CFRO Color lens/rose	DMB Medium bronze		
WFL2 100M	HPM Vertical flood, medium	TB⁵	CFBL Color lens/blue	DNA Natural aluminum		
WFL2 150M	HPW Vertical flood, wide		EC Emergency circuit (WFL3 only)	DSS Sandstone		
WFL2 175M	FT Forward throw		SCWA Super CWA pulse start ballast (n/a HPS, 70M, 100M or 175M)	DGC Charcoal gray		
WFL3 200M¹	GZ Wall grazing		LPI Lamp included as standard	DTG Tennis green		
WFL3 250M			L/LP Less lamp	DBR Bright red		
WFL3 320M¹				DSB Steel blue		
WFL3 350M¹				<u>Shipped separately⁷</u>		
WFL3 400M²				UV Upper visor		
				EV Eggcrate visor (black)		
				BV Bottom visor		
				FV Full visor		
				WG Wire guard		
				BD Barn door		
				HLV Horizontal louver (black)		
				VLV Vertical louver (black)		
				BVG Bubble vandal guard		
				WFLBBW Back box		

	Ballast	Lamp Type	Base Type	Beam Spread	NEMA Dist.	H ² xV ⁰
<u>High Pressure Sodium</u>						
150	SP	HX-HPF	E17	Medium	142x127	7x6
150	HPW	HX-HPF	E17	Medium	39x12	3x1
400	SP	CWA	ET18	Mogul	60x13	4x1
400	HPW	CWA	ET18	Mogul	144x140	7x7
<u>Metal Halide</u>						
175	SP	CWA	ED17	Medium	27x15	2x1
175	HPW	CWA	ED17	Medium	147x127	7x6
400	SP	CWA	BT28	Mogul	42x17	3x1
400	HPW	CWA	BT28	Mogul	146x140	7x7



Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	WFL2	WFL3
EPA	1.3 ft ² (.12 m ²)	2.0 ft ² (.19 m ²)
Width	18 1/2 (47)	21 1/2 (54.6)
Depth	6 3/4 (29.8)	8 3/4 (22.3)
Height	11 3/4 (29.8)	14 3/4 (37.5)
Max. weight	29 lbs (13.1 kg)	44 lbs (19.9 kg)

NOTES:

- 1 Must be ordered with SCWA.
- 2 Requires ED-28 reduced jacket lamp.
- 3 WFL2 only.
- 4 Consult factory for availability in Canada.
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 6 Additional architectural colors available; see Architectural Colors brochure on www.lithonia.com.
- 7 May be ordered as an accessory. Door frame must be factory drilled.



Intended Use

For outdoor storage areas, warehouse and factory perimeters and loading docks.

Features

Housing – Rugged, die-cast aluminum housing. Corrosion-resistant captive external hardware includes slotted hex-head fasteners. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder. Other architectural colors available.

Optics – Reflector is specular anodized aluminum. Refractor is prismatic borosilicate glass. Lens is sealed and gasketed to inhibit entrance of outside contaminants.

Electrical – 70-150W HPS and 100-150M: High-reactance, high-power factor. All others: Constant-wattage autotransformer. Ballast is copper wound and 100% factory tested. UL listed. Electrical components mounted in hinged front cover that

includes primary and secondary electrical disconnect.

Installation – Back housing is separated from front housing, eliminating ballast weight and promoting easy handling. Top 3/4" threaded wiring access. Back access through removable 3/4" knockout. Mount on any flat, non-combustible vertical surface. **Not recommended in applications where a sprayed stream of water can come in direct contact with glass lens.**

Socket – Glazed porcelain (mogul-base; 175M and above), horizontally oriented with copper alloy, nickel-plated screw shell and center contact. 4KV pulse rated. Medium-base (150M, 100S and below) UL listed 660W, 600V. Mogul-base: UL listed 1500W, 600V.

Listings – UL Listed (standard). CSA or NOM Certified (see Options). UL listed for wet locations. IP65 rated (250W and below) or IP54 rated (400W) in accordance with IEC standard 529.



Example: TWL 250S TB LPI

Ordering Information

Designation	Voltage	Installed	Options/Accessories
High Pressure Sodium		120	PER NEMA twist-lock receptacle ¹⁴
TWH 70S	208 ⁷	SF Single fuse (120V, 277V, 347V) ⁵	LS Lamp support (mogul socket only)
TWH 100S	240 ⁷	DF Double fuse (208V, 240V, 480V) ⁵	FS Full shield
TWH 150S ¹	277	EC Emergency circuit ^{11,12}	WG Wireguard ¹⁵
TWH 200S	347	QRS Quartz restrike system ^{11,12}	VG Vandal guard ¹⁵
TWH 250S	480 ⁸	CR Enhanced corrosion resistance	SCWA Super SCWA pulse start ballast (150M-400M only--n/a 175M)
TWH 400S	TB ⁹	CRT Non-stick protective coating ¹³	RHP Reactor high power factor ballast (HPS 150W & below only)
TWH 250/400S ²	TBV ¹⁰	PE Photoelectric cell – button type ⁵	RNP Reactor normal power factor ballast (HPS 150W & below only)
Metal Halide		NOM NOM Certified (consult factory)	
TWH 100M		LPI Lamp included as standard	
TWH 150M		L/LP Less lamp	
TWH 175M		TP Tamperproof fasteners	
TWH 200M ³		For optional Architectural Colors, see page 485.	
TWH 250M			
TWH 320M ³			
TWH 350M ³			
TWH 400M ⁴			
Mercury Vapor			
TWH 100H			
TWH 175H			
TWH 250H			
Low Pressure Sodium			
TWH 35L ⁵			
Incandescent			
TWH 300I ⁶			

Lamp/Fixture/Ballast Data¹⁷

Wattage	Ballast	Lamp Type	Base Type
High Pressure Sodium (med/clear)			
70	HX-HPF	E17	medium
100	HX-HPF	E17	medium
150	HX-HPF	E17	medium
250	CWA	BT28	medium
400	CWA	BT28	medium
Metal Halide (med/100)/mog/clear			
150	HX-HPF	E17	medium
175	CWA	BT28	mogul
250	CWA	BT28	mogul
400	CWA	BT28	mogul

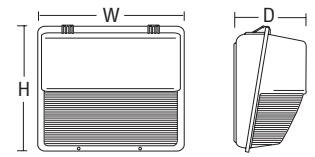
Accessories (Order separately)

RK1 PEB1	Photoelectric control kit, 120V
RK1 PEB2	Photoelectric control kit, 208V,240V,277V
RK1 PEB1 CSA	Photoelectric control kit, 120V
RK1 PEB3 CSA	Photoelectric control kit, 347V
RK1 TWHGL FS	Field installable full shield, for cutoff
PE1	NEMA twist-lock photocontrol, 120V,208V,240V
PE3	NEMA twist-lock photocontrol, 347V
PE4	NEMA twist-lock photocontrol, 480V
PE7	NEMA twist-lock photocontrol, 277V

- NOTES:
- Operates 55V lamp.
 - Shipped as 250S.
 - Must be ordered with SCWA.
 - Requires T-15, ED or BT 28 reduced jacket lamp.
 - Not available TB.
 - 120V only, A21 lamp.
 - Consult factory for availability in Canada.
 - Not available in Canada.
 - Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
 - Optional 5-tap ballast (120V, 208V, 240V, 277V, 480V).
 - Lamp not included.
 - Quartz lamp wattage not to exceed ballast wattage rating.
 - Black finish only.
 - Photocell not included.
 - Requires factory modification.
 - Not available with TBV.
 - Other ballast types available.

Dimensions are shown in inches (centimeters) unless otherwise noted.

Height	15 1/4 (40)
Width	16 1/4 (41.3)
Depth	8 (20.3)
Weight	26-42 lbs (12-19kg)



TWR

NEW



TWR1C

Die-Cast Wall-Paks, Glass Refractor

Intended Use

For mounting above entryways and loading docks.

Features

Housing—Rugged, die-cast aluminum back housing and hinged door frame. Castings

are sealed with a one-piece gasket to inhibit the entrance of external contaminants. Finish is bronze polyester powder paint standard.

Installation—Housing configured for mounting directly over a standard 4" outlet box or for surface wiring via any of three convenient 1/2" threaded conduit entry hubs.

Optics – (TWR1, TWR2) Refractor is prismatic borosilicate glass. Reflector is die-formed anodized stippled aluminum. TWR1 medium-base and TWR2 mogul-base lamp included in carton as standard. (TWRIC) tempered glass lens. One-piece anodized aluminum reflector.

Electrical – Quad-tap, constant wattage autotransformer (175M-400M; 250S-400S). High reactance, high power factor (70S-150S; 70M-150M). Ballast is copper wound and 100% factory tested.

Listings—UL listed to US and Canadian safety standards. UL/C-UL listed for wet locations. (UL tested at 25°C ambient temperature).



TWR1

TWR2

Ordering Information

Example: **TWR1 70S TB LPI**

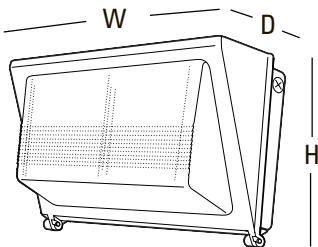
Designation	
<i>TWR1/TWR2</i>	<i>TWRIC</i>
<u>High Pressure Sodium</u>	<u>High Pressure Sodium</u>
TWR1 70S	TWRIC 70S
TWR1 100S	TWRIC 100S
TWR1 150S	TWRIC 150S
TWR2 250S	TWRIC 150S
TWR2 400S	
<u>Metal Halide</u>	<u>Metal Halide</u>
TWR1 70M	TWRIC 70M
TWR1 100M	TWRIC 100M
TWR1 175M	TWRIC 175M
TWR2 250M	
TWR2 400M	

Voltage	Options
TB¹ 120/347²	LPI Lamp included as standard CSA CSA Certified
Accessories (Order separately)	

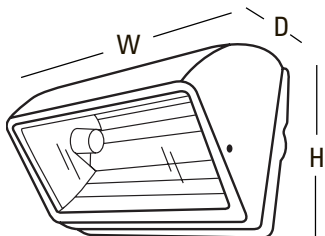
TWR1WG	Wireguard
TWR2WG	Wireguard
TWR1CWG	Wireguard
RK1 TWR1 FA	Lens repair kit
RK1 TWR2 FA	Lens repair kit
RK1 TWR1 CFA	Lens repair kit
TWRIC FCV	Full cutoff visor

NOTES:

- 1 TB is 120V, 208V, 240V, 277V. In Canada 120V, 277V, 347V; ships as 120V/347V.
- 2 Only available with CSA.



TWR1



TWR1C

Dimensions are shown in inches (centimeters) unless otherwise noted.

	<i>TWR1</i>	<i>TWR2250W</i>	<i>TWR2400W</i>	<i>TWRIC</i>
Height	9(22.86)	9 1/4(23.50)	9 1/4(23.50)	8 15/32(21.5)
Width	13(33.02)	17 7/8(45.40)	17 7/8(45.40)	13(33)
Depth	7 3/8(18.75)	9 3/8(23.81)	12 1/2(31.75)	10 1/4(26)
Max weight	18 lbs (11.8 kg)	26 lbs (11.8 kg)	31 lbs (14.07 kg)	



Cast Wall-Paks, Polycarbonate Refractor

Building Mounted

TWP

Intended Use

For entrances, loading docks, walkways and vehicle ramps.

Features

Housing – Rear housing is rugged, die-cast aluminum. Corrosion-resistant, captive external hardware includes slotted hex-head and tamperproof fasteners. Finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics – Reflector is aluminum, finished in white enamel. Front housing and refractor are one-piece, injection-molded, UV-stabilized polycarbonate. Standard finish an opaque portion of front cover and back housing is dark bronze polyester. Refractor is sealed and gasketed to inhibit the entrance of outside contaminants.

Electrical – HPS, 70-150M: High-reactance, high-power factor (XHP). 175MH and MV: Constant-wattage autotrans-

former. Ballast is copper wound and 100% factory tested. UL listed. Electrical components mounted on back housing.

Installation – Top 3/4" threaded wiring access. Back access through 3/4" opening. For feed-thru wiring, use conduit tee (not included). Mount on any flat, non-combustible vertical surface.

Socket – Glazed porcelain (mogul base), horizontally oriented socket with copper alloy, nickel-plated screw shell and center contact. Medium-base for 150W and below: UL listed 660W, 600V, 4KV pulse rated. Mogul-base for 175W: UL listed 1500W, 600V, 4KV pulse rated.

Listings – UL Listed (standard). CSA or NOM Certified (see Options). UL listed for wet locations. IP65 rated in accordance with IEC standard 529.



Ordering Information

Example: **TWP 175M TB LPI**

Designation	Voltage		Options/Accessories
High Pressure Sodium		Installed	WG Wireguard
TWP 35S^{1,2}	120	SF Single fuse (120V, 277V, 347V) ¹	CSA CSA Certified
TWP 50S¹	208⁴	DF Double fuse (208V, 240V, 480V) ¹	NOM NOM Certified (consult factory)
TWP 70S	277	EC Emergency circuit ^{6,7}	Architectural Colors (optional)
TWP 100S	347	QRS Quartz restrike system ^{6,7}	DNA Natural aluminum
TWP 150S³	480⁴	CR Enhanced corrosion resistance	DBL Black
	TB⁵	CRT Non-stick protective coating ⁸	DMB Medium bronze
Metal Halide		PE Photoelectric cell, button type ¹	DWH White
TWP 70M		LPI Lamp included as standard	DSS Sandstone
TWP 100M		L/LP Less lamp	
TWP 150M		FS Full shield	
TWP 175M			
Mercury Vapor			
TWP 100H			
TWP 175H			

Accessories (Order separately)

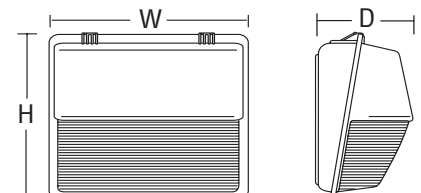
- RK1 PEB1** Photoelectric control kit, 120V
- RK1 PEB2** Photoelectric control kit, 208V, 240V, and 277V.
- RK1 PEB1 CSA** Photoelectric control kit, 120V
- RK1 PEB3 CSA** Photoelectric control kit, 347V
- RK1 TWPFA FS** Field installable shield for cutoff

Lamp/Fixture/Ballast Data⁹

Wattage	Lamp Ballast	Base Type	Type
High Pressure Sodium (med/clear)			
35	RHP	E17	medium
50	RHP	E17	medium
70	XHP	E17	medium
100	XHP	E17	medium
150	XHP	E17	medium
Metal Halide (med(70/100/150)/mogul(175)/clear)			
50	HX-HPF	E17	medium
70	HX-HPF	E17	medium
100	HX-HPF	E17	medium
150	HX-HPF	E17	medium
175	CWA	BT28	mogul
Mercury Vapor (mog/coated)			
100	CWA	E17	medium
175	CWA	BT/ED28	mogul
Low Pressure Sodium (D.C. bay/clear)			
35	HPF-LAG	T17	medium

Dimensions are shown in inches (centimeters) unless otherwise noted.

TWP
 Height 15⁷/₁₆(39.2)
 Width 16¹/₈(41)
 Depth 7³/₄(19.7)
 Weight 16 lbs (7 kg)



NOTES:
 1 Not available with 480V or TB.
 2 120V only.
 3 Operates 55V lamp.
 4 Consult factory in Canada; not available with 35S, 50S and 150M.
 5 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
 6 Lamp not included.
 7 Quartz lamp wattage not to exceed ballast wattage rating.
 8 Black finish on housing only.
 9 Other ballast types available.

TWA

Contour®



Mini Wall-Paks, Polycarbonate Refractor

Intended Use

For entrances, stairwells, corridors and other pedestrian areas.

Features

Housing – Rear housing is rugged, die-cast aluminum. Corrosion-resistant, captive external hardware includes slotted hex-head and tamperproof fasteners. Finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics – Front housing and refractor are one-piece, injection-molded, UV-stabilized polycarbonate. High-performance optical system consists of specular anodized segmented reflector and computer-designed prism pattern. Standard finish is dark bronze polyester enamel. Refractor sealed with one-piece, high-temperature silicone gasket to inhibit entrance of outside contaminants.

Electrical – MH: High-reactance, high-power factor standard. HPS: Reactor normal power factor standard, HPF available.

UL listed. Electrical components are mounted to the cast-aluminum housing, promoting maximum heat dissipation. (For 50 hertz availability consult factory). Fluorescent ballasts are magnetic NPF (22 & 28 DTT) or electronic HPF (26 DTT & TRT).

Installation – Top 1/2" threaded wiring access. Back access through 3/4" opening. For feed-thru wiring, use conduit tee (not included). Mount on any flat, non-combustible vertical surface. Photocell is field installable.

Socket – HID is porcelain, horizontally oriented, medium-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 660W, 600V and 4KV pulse rated. Fluorescent is 2-pin (DTT) or 4-pin (TRT), positive latching thermoplastic.

Listings – UL Listed (standard). CSA or NOM Certified (see Options). UL listed for wet locations. IP65 rated in accordance with IEC standard 529.

Ordering Information

Example: **TWA 100M 120 LPI**

Designation	Voltage	Options/Accessories	Architectural Colors (optional)
<u>High Pressure Sodium</u>	120	<u>Installed</u>	
TWA 35S ¹	208⁴	GMF GMF Internal slow-blow fusing ⁷	DNA Natural aluminum
TWA 50S ²	240⁴	SF Single fuse (120V, 277V, 347V) ⁸	DBL Black
TWA 70S ³	277	DF Double fuse (208V, 240V) ⁸	DMB Medium bronze
TWA 100S ³	347	EC Emergency circuit ^{9,10}	DWH White
<u>Metal Halide</u>	TB⁵	QRS Quartz restrike system ^{9,10}	DSS Sandstone
TWA 50M	MVOLT⁶	CR Enhanced corrosion resistance	
TWA 70M		CRT Non-stick protective coating (rear housing only) ¹¹	
TWA 100M		PE Photocell (button type) ⁸	
<u>Compact Fluorescent</u>		LPI Lamp included as standard	
TWA 22DTT (2-pin)		L/LP Less lamp	
TWA 26DTT (4-pin)		XHP High power factor ballast (HPS only)	
TWA 28DTT (2-pin)		CSA CSA Certified	
TWA 32TRT (4-pin)		NOM NOM Certified (consult factory)	
TWA 42TRT (4-pin)			

Accessories (Order separately)

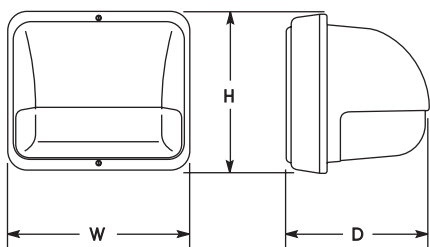
RK1 PEB1	Photoelectric control kit, 120V
RK1 PEB1 CSA	Photoelectric control kit, 120V
RK1 PEB2	Photoelectric control kit, 208V, 240V, 277V
RK1 PEB3 CSA	Photoelectric control kit, 347V
TWAWG	Wireguard

Lamp/Fixture/Ballast Data

Wattage	Ballast	Lamp Type	Base Type
<u>High Pressure Sodium (med/clear)</u>			
35	RNPF	E17	medium
50	RNPF	E17	medium
70	RNPF	E17	medium
100	RNPF	E17	medium
<u>Metal Halide (med/70/100/150)/mog(175)/clear)</u>			
50	HX-HPF	E17	medium
70	HX-HPF	E17	medium
100	HX-HPF	E17	medium
<u>Fluorescent (double twin-tube/triple-tube)</u>			
22DTT	Mag NPF	T4	GX32D-2
26DTT	Elec HPF	T4	GX32D-3
28DTT	Mag NPF	T4	GX32D-3
32TRT	Elec HPF	T4	GX24Q-3
42TRT	Elec HPF	T4	GX24Q-3

Dimensions are shown in inches (centimeters) unless otherwise noted.

Height	TWA 10 (25.4)
Width	11 1/2 (29.2)
Depth	8 5/16 (22.7)
Max weight	14 lbs (6.4 kg)



NOTES:

- 120V only.
- 120V or 277V only
- 120 R-NPF is standard, 208V, 240V, 277V, 347V and TB are high-reactance high power factor.
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V. In Canada 120V, 277V, 347V; ships as 120V/347V.
- Optional multi-volt electronic ballast (for compact fluorescent) capable of operating any line voltage from 120V-277V.
- Available for CF only. Not available with MVOLT.
- Not available with multi-tap ballast.
- Lamp not included.
- Quartz lamp wattage not to exceed ballast wattage rating; not available with compact fluorescent..
- Black finish only.

Cutoff Mini Wall-Paks, Polycarbonate Refractor

Building Mounted

TWAC

Contour®

Intended Use

For entrances, stairwells, corridors and other pedestrian areas.

Features

Housing – Rear housing is rugged, die-cast aluminum. Front cover is one-piece, UV-resistant, injection-molded polycarbonate, internally painted. Captive external hardware is treated for corrosion resistance and included slotted hex-head and tamper-proof fasteners. Finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics – One-piece, die-formed reflector is diffused aluminum. Refractor is clear polycarbonate, providing **IES cutoff distribution** and maximum lateral light output. Standard finish is dark bronze polyester enamel. Front cover is sealed and gasketed to inhibit the entrance of outside contaminants.

Electrical – MH: high-reactance, high-power factor standard. HPS: Reactor normal power factor standard. HPF available.

UL listed. Electrical components mounted to cast-aluminum housing for maximum heat-dissipation. Fluorescent ballasts are magnetic NPF (22 & 28 DTT) or electronic HPF (26 DTT & TRT). Encased and potted solid-state ignitors (HPS). Components are heat-sunked directly to cast housing for maximum heat-dissipation. (For 50 hertz availability, consult factory.)

Installation – Top ½" threaded wiring access. Back access through ¾" opening. For feed-thru wiring, use conulet tee (not included). Mount on any flat, non-combustible vertical surface.

Socket – H.I.D. is porcelain, horizontally oriented, medium-base socket with copper alloy, nickel-plated screw shell and center contact. Photocells are field-installable. UL listed 660W, 600V and 4KV pulse rated. Fluorescent is two-pin (DTT) or four-pin (TRT), positive latching thermoplastic.

Listings – UL Listed (standard). CSA or NOM Certified (see Options). UL listed for wet locations. IP65 rated in accordance with IEC standard 529.



Example: **TWAC 100S 120 LPI**

Ordering Information

Designation	Voltage	Options/Accessories
<u>High Pressure Sodium</u>	120	<u>Installed</u>
TWAC 35S¹	208⁴	SF Single fuse (120V, 277V, 347V) ⁷
TWAC 50S²	240⁴	DF Double fuse (208V, 240V) ⁷
TWAC 70S³	277	XHP High power factor ballast
TWAC 100S³	347	EC Emergency circuit ^{8,9}
<u>Metal Halide</u>	TB⁵	QRS Quartz restrike system ^{8,9}
TWAC 50M	MVOLT⁶	CR Enhanced corrosion resistance
TWAC 70M		CRT Non-stick protective coating (rear housing) ¹⁰
TWAC 100M		CSA CSA Certified
<u>Compact Fluorescent</u>		NOM NOM Certified (consult factory)
TWAC 22DTT (2-pin)		PE Photocell (button type) ⁷
TWAC 26DTT (4-pin)		LPI Lamp included as standard
TWAC 28DTT (2-pin)		L/LP Less lamp
TWAC 32TRT (4-pin)		DC12 Emergency circuit 12V. 35W lamp included ¹¹
TWAC 42TRT (4-pin)		2DC12 Emergency circuit 12V. 2/35W lamps included ¹¹
		<u>Architectural Colors (optional)</u>
		DNA Natural aluminum
		DBL Black
		DMB Medium bronze
		DWH White
		DSS Sandstone
		<u>Accessories (Order separately)</u>
		RK1 PEB1 Photoelectric control kit, 120V
		RK1 PEB1 CSA Photoelectric control kit, 120V
		RK1 PEB2 Photoelectric control kit, 208V, 240V or 277V
		RK1 PEB3 CSA Photoelectric control kit, 347V
		TWAWG Wireguard

Lamp/Fixture/Ballast Data

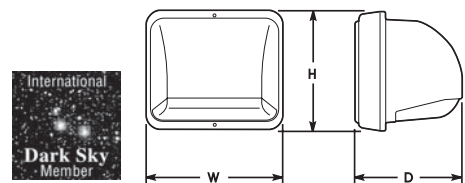
Wattage Ballast	Lamp Type	Base Type
<u>High Pressure Sodium (med/clear)</u>		
35 RNPf	E17	medium
50 RNPf	E17	medium
70 RNPf	E17	medium
100 RNPf	E17	medium
<u>Metal Halide (med/70/100/150)/mog(175)/clear)</u>		
50 HX-HPF	E17	medium
70 HX-HPF	E17	medium
100 HX-HPF	E17	medium
<u>Fluorescent (double twin-tube/triple-tube)</u>		
22DTT Mag NPF	T4	GX32D-2
26DTT Elec HPF	T4	GX32D-3
28DTT Mag NPF	T4	GX32D-3
32TRT Elec HPF	T4	GX24Q-3
42TRT Elec HPF	T4	GX24Q-3

NOTES:

- 120V only.
- 120V or 277V only.
- 120R-NPF is standard, 208/240/277/347 and TB are high reactance high power factor.
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Optional multi-volt electronic ballast (for CF) capable of operating any line voltage from 120V-277V.
- Not available with multi-tap ballast.
- Lamp not included.
- Quartz lamp wattage not to exceed ballast wattage rating.
- Black finish only.
- H.I.D. only. Not available with QRS, ES, or NOM.

Dimensions are shown in inches (centimeters) unless otherwise noted.

	TWAC
Height	10 (25.4)
Width	11½ (29.2)
Depth	8½ (22.7)
Weight	10 lbs (4.53 kg)



TWL



Cast Micro Wall-Paks, Polycarbonate Refractor

Intended Use

Use for entrances, stairwells, corridors, other pedestrian areas.

Features

Housing – Normal Power Factor (NPF) backplate is heavy-gauge steel. High Power Factor (HPF) housing is heavy-duty cast aluminum, finished in dark bronze. Electrical components are mounted to backplate (NPF) or cast housing (HPF) for maximum heat-dissipation. Stainless steel external hardware includes slotted hex-head and tamperproof fasteners. Finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics – Front cover/refractor is injection-molded, one-piece, UV-stabilized polycarbonate. Optical system is sealed and gasketed to inhibit entrance of outside contaminants. Standard finish is dark bronze (DDB)

corrosion-resistant polyester enamel.

Electrical – 120V reactor normal (RNP) or high-power factor (RHP) or high-reactance, high power factor (XHP). 100% copper wound and factory tested. TRT ballasts are HPF electronic, UL listed.

Installation – NPF unit mounts to standard J-box. Surface conduit mount requires extension collar accessory. HPF units may be mounted flush to wall or horizontally facing down. HPF units have 3/4" threaded hub for wiring access. Closed-cell gasketing seals junction.

Socket – HPS: Medium-base porcelain socket, vertically oriented with copper alloy nickel-plated screw shell and center contact. UL listed 660W, 600V. Compact fluorescent socket.

Listings – UL Listed (standard). CSA or NOM Certified (see Options). UL listed for wet locations. IP65 rated in accordance with IEC standard 529.

Accessories (Order separately)

- RK1 PEB1** Photoelectric control kit, 120V
- RK1 PEB2** Photoelectric control kit, 208V, 240V, 277V
- RK1 PEB3 CSA** Photoelectric control kit, 347V
- RK1 PEB1 CSA** Photoelectric control kit, 120V
- TWLMB** Cast aluminum mounting box
- TWLWG** Wireguard⁹
- TWLEP1** Extension collar 1 1/2" deep¹⁰
- TWLEP2** Extension collar 2 1/8" deep¹⁰

Ordering Information

Designation	Voltage
<u>High Pressure Sodium</u>	
TWL 35S ¹	120
TWL 50S	208 ^{3,4}
TWL 70S	240 ^{3,4}
TWL 70S	277 ³
<u>Fluorescent</u>	
TWL 7TT ¹ (2-pin)	347 ³
TWL 9TT ¹ (2-pin)	TB ^{3,5}
TWL 13TT ¹ (2-pin)	MVOLT ⁶
TWL 13DTT ¹ (2-pin)	
TWL 22DTT ¹ (2-pin)	
TWL 26DTT ¹ (4-pin)	
TWL 28DTT ¹ (2-pin)	
TWL 26TRT ¹ (4-pin)	
TWL 32TRT ¹ (4-pin)	
TWL 42TRT ¹ (4-pin)	
<u>Incandescent</u>	
TWL I ²	

Example: TWL 50S 120 SF LPI

Options	
<u>Installed</u>	
SF	Single fuse (120V, 277V) ⁷
PE	Photoelectric cell (button type) ⁷
LPI	Lamp included as standard
L/LP	Less lamp
RHP	Reactor high power factor ballast (HPS and 120V only)
XHP	High reactance high power factor ballast (208V, 240V, 277V, 347V, and TB) ⁸
CSA	CSA Certified
NOM	NOM Certified (consult factory)
<u>Architectural Colors (optional)</u>	
DNA	Natural aluminum
DBL	Black
DMB	Medium bronze
DWH	White
DSS	Sandstone

Lamp/Fixture/Ballast Data

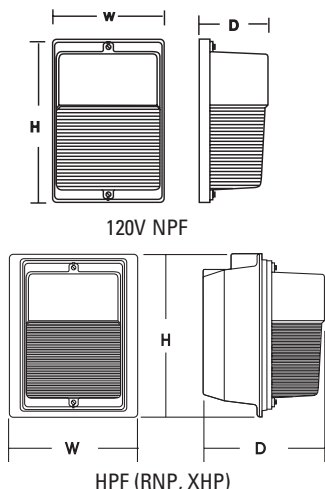
Wattage	Ballast	Lamp Type	Base Type
<u>High Pressure Sodium (med/clear)</u>			
35	RNP	E17	medium
35	HPF	E17	medium
50	RMP	E17	medium
50	HPF	E17	medium
70	RNP	E17	medium
70	HPF	E17	medium
<u>Fluorescent (twin-tube)</u>			
7	RNP	T4	G23
9	RNP	T4	G23
13	RNP	T4	GX23
<u>Fluorescent (double twin-tube)</u>			
13	RNP	T4	GX23
22	RNP	T4	GX32D-2
28	RNP	T4	GX32D-3
<u>Fluorescent (triple-tube)</u>			
32	HPF	T4	GX24Q-3
42	HPF	T4	GX24Q-4

NOTES:

- 1 120V only.
- 2 120V only, A19 lamp.
- 3 Requires cast HPF back housing.
- 4 Consult factory for availability in Canada.
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 6 Optional multi-volt electric ballast (for compact fluorescent) capable of operating on any line voltage from 120V-277V.
- 7 Not available with multi-tap ballast.
- 8 HPS only. Not available in 35S.
- 9 Order TWAWG with TWLMB, EP or HPF.
- 10 120V NPF units only.

Dimensions are shown in inches (centimeters) unless otherwise noted.

	TWL 120V NPF	TWL HPF
Height	10 1/2 (26.7)	10 3/4 (27.3)
Width	6 3/4 (17.2)	7 1/8 (18.1)
Depth	3 7/8 (9.8)	7 11/16 (19.5)
Weight	4 lbs (1.8 kg)	8 lbs (3.6 kg)



Mini Wall-Paks, Polycarbonate Refractor

Building Mounted

TWM

Intended Use

For security lighting that requires vandal resistance and a variety of wall-mounting options.

Features

Housing – Rear housing is rugged, die-cast aluminum. One-piece gasket inhibits the entrance of external contaminants. Bronze polyester powder finish standard.

Installation – Housing is configured for mounting directly over a standard 4" outlet box or for surface wiring via two convenient 1/2" threaded conduit entry hubs.

Optics – Refractor is one piece prismatic polycarbonate designed for uniform area illumination. Reflector is die-formed anodized aluminum. Medium-base lamp included in carton as standard.

Electrical – 120V reactor, normal power factor ballast. Ballast is copper wound and 100% factory tested.

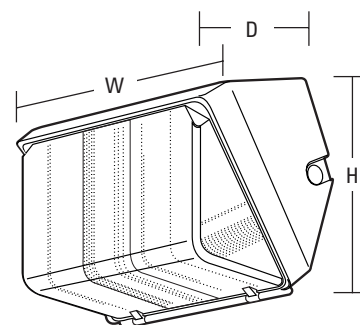
Listings – UL Listed to US and Canadian safety standards. UL/C-UL listed for wet locations. (UL tested at 25° C maximum ambient temperature).



Ordering Information

Example: **TWM 50S 120 LPI**

Designation	Voltage	Options
High Pressure Sodium	120	LPI Lamp included as standard
TWM 50S		
TWM 70S		
TWM 100S		



Dimensions are shown in inches (centimeters) unless otherwise noted.

Height	TWM 8 1/2 (21.59)
Width	8 1/2 (21.59)
Depth	6 (15.24)
Max weight	7 lbs (3.17 kg)

WG/WP



Globe/Cylinder Wall-Paks, Glass/Polycarbonate

Intended Use

For entrances in motels, condominiums and other pedestrian areas.

Features

Housing – Die-cast aluminum housing with electrostatically applied dark bronze polyester powder finish. White finish available.

Optics – Opal glass or white polycarbonate available.

Electrical – HPS-120V reactor normal power factor (RNP). 100% copper wound and factory tested. H.I.D. is UL 1029 listed. Fluorescent is UL 935 listed, electromagnetic.

Installation – Wall and ceiling mounted.

Socket – Medium-base porcelain socket, vertically oriented with copper alloy,

nickel-plated screw shell and center contact. UL listed 660W, 600V. Fluorescent 2-pin socket: 22DTT-GX32D-2, 28DTT-GX32D-3.

Listings – UL Listed. UL Listed for wet locations.

Ordering Information

Example: **WGCW 70S 120 LPI**

Designation		Voltage	Options
<u>High Pressure Sodium</u>		120	(blank) Dark bronze finish standard
WPCW 35S	White polycarbonate, cylinder/wall		DWH White finish
WPCW 50S	White polycarbonate, cylinder/wall		LPI Lamp included as standard ¹
WGCW 70S	White glass, cylinder/wall		
WPGW 35S	White polycarbonate, globe/wall		
WPGW 50S	White polycarbonate, globe/wall		
WGGW 70S	White glass, globe/wall		
<u>Incandescent</u>			
WGCW 100I	White glass, cylinder/wall		
WGGW 100I	White glass, globe/wall		
WGCC 60I	White glass, cylinder/ceiling		
WGGC 60I	White glass, globe/ceiling		
WPCW 60I	White polycarbonate, cylinder/wall		
WPGW 60I	White polycarbonate, globe/wall		
WPCC 60I	White polycarbonate, cylinder/ceiling		
<u>Fluorescent</u>			
WPCW 22DTT	(2-pin), white polycarbonate, cylinder/wall		
WPCW 28DTT	(2-pin), white polycarbonate, cylinder/wall		
WPGW 28DTT	(2-pin), white polycarbonate, globe/wall		

NOTES:
1 Not included with incandescent fixtures.

Lamp/Fixture/Ballast Data			
Wattage	Ballast	Lamp Type	Base Type
<u>High Pressure Sodium</u> (Med/Clear)			
35	RNP	E17	medium
50	RNP	E17	medium
70	RNP	E17	medium
<u>Fluorescent</u> (Double Twin-Tube)			
22	RNP	T4	GX32D-2
28	RNP	T4	GX32D-3

PGR

Intended Use

For parking garage applications.

Features

Housing – Rugged, die-cast aluminum with one-piece silicone gasketing. Standard finish is white corrosion-resistant polyester powder paint. Other architectural colors available.

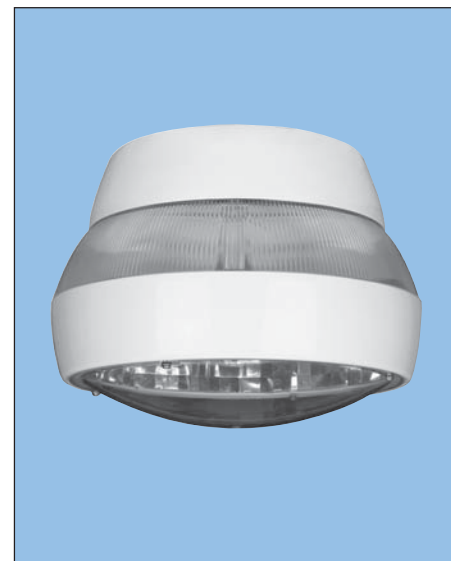
Lens – Precision injection-molded, UV stabilized, acrylic lens. Hinged and secured with four stainless steel screws. Polycarbonate lens available.

Mounting – Fully silicone gasketed, galvanized steel plate. Surface mounts to recessed box or pendant mounts to industry standard J-boxes. The quick-mounting bracket doubles as a hanger for the fixture allowing for trouble-free electrical connections. The fixture twist-locks into place in a firm, secure fashion.

Optics – Lower segmented, anodized aluminum reflector and upper-precision, injection-molded, prismatic acrylic refractor. Polycarbonate refractor available.

Electrical – High-reactance, high-power factor or constant-wattage autotransformer. Ballast is copper wound and 100% factory tested. 180°C Class H insulation system. Medium based, UL listed 660W, 600V, 4KV socket.

Listings – US patent no. D402,075. Canadian patent 86779. UL Listed (standard). CSA Certified or NOM Certified (see Options). UL listed for 25°C ambient operation and wet locations.



Ordering Information

Example: **PGR 150S 120 SF**

Designation	Voltage
<u>High Pressure Sodium</u>	120
PGR 70S	208²
PGR 100S	240²
PGR 150S	277
<u>Metal Halide</u>	347
PGR 100M	480³
PGR 150M	TB⁴
PGR 175M	
PGR 200M¹	

Options/Accessories	
<u>Options (shipped installed)</u>	
SF	Single fuse (120V, 277V, 347V) ⁵
DF	Double fuse (208V, 240V, 480V) ⁵
EC	Emergency circuit (100W max. 120V) ^{6,7}
QRS	Quartz restrike system (100W max. 120V) ⁶
QRSTD	Quartz restrike system time delay (100W max. 120V) ^{6,8}
CR	Enhanced corrosion resistance
CRT	Non-stick protective coating ⁹
KW1	KiloWatch® 120V control relay ^{10,11}
HA	40°C ambient (not available with EC option or 200M ordered with 480V together)
TP	Tamperproof lens screws
PC	Polycarbonate refractor/lens
LP	Lamp factory installed (N/A with TB)
DN	Downlight focused
SCWA	Super CWA pulse start ballast (n/a HPS or 100M)
CSA	CSA Certified
NOM	NOM Certified (consult factory)

Shipped separately

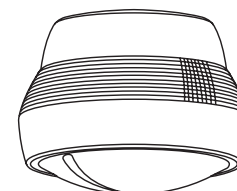
- OJB** Offset junction box¹²
 - YK** Yoke mount
 - BDS** Bird deterrent shroud
- For optional Architectural Colors, see page 485.

NOTES:

- 1 Must be ordered with SCWA.
- 2 In Canada, available in 175W metal halide only.
- 3 Available in 175M, 200M and 150S only.
- 4 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 5 Not available with multi-tap ballast.
- 6 Lamp not included.
- 7 Not available with HA option.
- 8 Not available with KiloWatch®.
- 9 Black finish only.
- 10 For specific ordering information, refer to the KiloWatch brochure or consult factory.
- 11 Consult factory for availability in Canada.
- 12 Required when pendant is free-swinging.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	PGR
Height	11 1/2 (29.2)
Width	15 (38.1)
Max weight	20 lbs (9 kg)



KPS



Garage Lighting, Ceiling-Mount

Intended Use

For parking garage applications.

Features

Housing – Rugged, heavy-gauge, aluminum housing. Square shape, continuous welded seams for weather-tight integrity. Extruded-aluminum door frame has an impact-resistant, tempered glass lens. Door frame is sealed to housing by EPDM closed-cell gasket. Direct mounting to recessed J-box is standard; yoke or recessed mountings optional. Housing will accommodate both top and side branch-circuit wiring and has internal splice compartment. Dark bronze (DDB) corrosion-resistant polyester powder finish standard; other architectural colors available. Stainless steel housing also available.

Optics – Reflectors are anodized, hydroformed aluminum. Four cutoff distributions

available: Type II (Roadway), Type III (Asymmetric), Type IV (Forward Throw) and Type V (Symmetric). Type V reflector is vertically lamped, all others horizontally lamped. Reflectors are field-interchangeable and hinge out for easy removal during installation/maintenance.

Electrical – All ballasts are copper wound and 100% factory tested. Electrical components are unitized on removable power module. Positive-locking, quick-disconnect on primary and secondary circuits. Medium-base porcelain socket standard. Mogul-base porcelain socket for 175W metal halide. 4KV pulse rated.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options). UL listed for damp locations. *SS option*: UL listed for 25°C ambient and damp location. *RMG option*: UL listed for recessed mounting, wet locations and covered ceilings only.

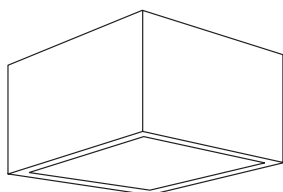
Ordering Information

Example: **KPS 150S R2 120 EC**

Designation	Distribution	Voltage	Options/Accessories
<u>High Pressure Sodium</u>			
KPS 50S	R2 Type II Roadway	120 208¹	<u>Options (shipped installed)</u> SF Single fuse (120V, 277V, 347V)
KPS 70S	R3 Type III Asym	240¹ 277	DF Double fuse (208V, 240V, 480V)
KPS 100S	R4 Type IV FT	347	QRS Quartz restrike system (100W max., 120V lamp not included)
KPS 150S	R5 Type V Sym.	480¹ TB²	EC Emergency circuit (100W max., 120V lamp not included)
<u>Metal Halide</u>			
KPS 100M			MOG Mogul-base socket
KPS 150M			CR Enhanced corrosion resistance
KPS 175M			NB Natural brushed (SS option only)
			HS House-side shield (R3/R4 only)
			YK Yoke mount
			SS Stainless steel housing ³
			RMG Recessed mount 2" x 2" (grid ceiling) ³
			WL Wet location
			SCWA Super CWA pulse start ballast, requires R5 distribution, (n/a HPS or 100M)
			CSA CSA Certified
			NOM NOM Certified (consult factory)
			For optional Architectural Colors, see page 485.
			<u>Accessories (shipped separately)</u>
			VG Vandal guard

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	KPS
Length	16 ³ / ₄ (42.6)
Width	16 ³ / ₄ (42.6)
Depth	10 ¹ / ₂ (26.7)
Max weight	36 lbs (16 kg)



NOTES:

- 1 Consult factory for availability in Canada.
- 2 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 3 SS and RMG cannot be ordered together.

Die-Cast, Cutoff Flat Lens/Drop Lens

KACM

Contour®

Intended Use

For parking garages, convenience stores, hotels and walkways.

Features

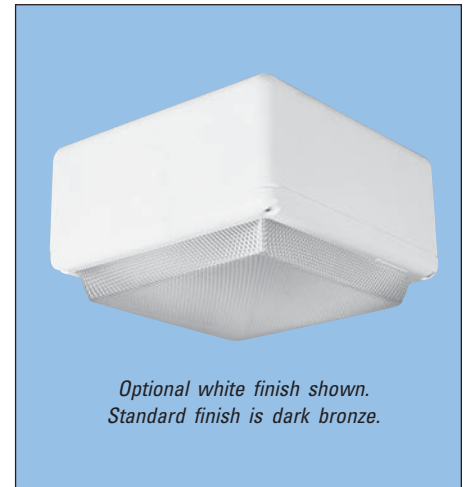
Housing – Rugged, die-cast, soft-corner aluminum housing with 0.12" nominal wall thickness. Die-cast aluminum door frame has prismatic, impact-resistant, tempered glass; drop dish acrylic lens or drop dish polycarbonate lens. Door frame is fully gasketed with one-piece tubular silicone. Surface mounted utilizing four 0.5" mounting holes and one 0.875" wire-entry hole (mounting hardware not included). Dark bronze (DDB) corrosion-resistant polyester powder finish is standard. Other architectural colors available.

Optics – Reflector is optical-quality aluminum that works in tandem with a light-diffusing prismatic lens.

Electrical – Ballast is high-reactance, high-power factor (150W) or high-power factor, constant-wattage autotransformer (175-400W MH & HPS).

Socket – Mogul-base porcelain socket, 4KV pulse rated. Position-oriented socket standard on all metal halide units.

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options). UL listed for wet locations. **For covered ceiling, mount on concrete, steel or aluminum. Not for use in dwellings.** UL listed for 25° C ambient temperature.



Ordering Information

Designation	Distribution	Voltage	Mounting	Options/Accessories
<u>High Pressure Sodium</u>				
KACM 150S	FP Flat prismatic lens (C73T)	120	YK Yoke	SF Single fuse (120V, 277V, 347V) n/a TB
KACM 250S	DPA Drop prismatic lens (Acrylic)	208²		DF Double fuse (208V, 240V, 480V) n/a TB
KACM 400S	DPP Drop prismatic lens (Polycarbonate)	240²		QRS Quartz restrrike system (250W max, 120V lamp not included)
<u>Metal Halide</u>				
KACM 150M		277		EC Emergency circuit (lamp not included, 250W max.)
KACM 175M		347		YK Yoke mount
KACM 200M¹		480²		TC Thru-wire conduit tee capability
KACM 250M		TB³		SCWA Super CWA pulse start ballast (n/a HPS or 175M)
KACM 320M¹				CSA CSA Certified
KACM 350M¹				NOM NOM Certified (consult factory)
KACM 400M				Shipped separately⁴
				KACVG Vandal guard ⁵
				KACWG Wire guard

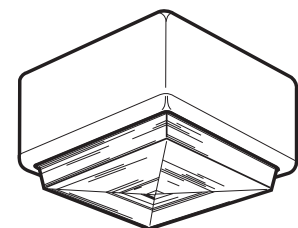
Example: **KACM 400M FP 120**

NOTES:

- 1 Must be ordered with SCWA.
- 2 Consult factory for availability in Canada.
- 3 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 4 May be ordered as an accessory.
- 5 FP lens only.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	KACM
Length	17 1/2 (44.5)
Width	17 1/2 (44.5)
Depth	FP option 7 1/8 (18.1) DP option 11 1/8 (28.3)
Max weight	40 lbs (18.1 kg)



- C22** 12-3 SEO cord (2' prewired)*
C42 14-3 SEO cord (2' prewired)*
C62 16-3 SEO cord (2' prewired)*
CV3P 3 ft. of 16-3 SEO cord pre-wired w/3 prong plug for use with prewired cages and crossarms. Must use matching receptacle, provided by others. Not available with 1500W-120V.
DC12 Auxiliary emergency circuit for MR11 35 watt maximum double contact bayonet based lamp, contains socket with leads for use with separate external 12 volt emergency power source (provided by others). Factory installed only. Lamp included and installed at factory (MR11 DC Bayonet base)
2DC12 Auxiliary emergency circuit for MR11 35 watt maximum double contact bayonet based lamp, contains socket with leads for use with separate external 12 volt emergency power source (provided by others). Factory installed only. Two lamps included and installed at factory (MR11 DC bayonet base).

* Other cord lengths available. Consult factory.

- DF** Double Fuse. Use with 208V, 240V, 480V. Not available for Multi-tap ballast. In-line, time-delay type fusing isolates faulty luminaire from circuit fusing.
EC Emergency circuit. Lamp not included.
ELDW Integral emergency battery system for compact fluorescent units.
FG Festoon outlet. Duplex ground fault receptacle. Cast box.
KW1 KiloWatch 120V control relay.
KW4 KiloWatch 277V control relay.
LS Lamp support. Mogul-base socket only.
MR1 Outdoor non-encapsulated remote ballast.
MR6 Indoor epoxy-encapsulated remote ballast.
PE Photoelectric cell. (Button-type) Not available for multi-tap ballast or 480V.
PER NEMA twist-lock photocontrol receptacle. Photocontrol not included. Shipped installed.
PE1 NEMA twist-lock photocontrol. 120V, 208V, 240V. Shipped separately.
PE3 NEMA twist-lock photocontrol. 347V. Shipped separately.
PE4 NEMA twist-lock photocontrol. 480V. Shipped separately.
PE7 NEMA twist-lock photocontrol. 277V. Shipped separately.
SC Shorting cap for PER. Ships as SC U.
QRS Quartz restrike system. Activates when power interruption causes H.I.D. lamps to drop out. Deactivates when fixture restrikes. QRS does not energize during cold start of fixture. Wattage of quartz lamp should not exceed that of H.I.D. source. For 100W and below, use 100W DC bayonet-base lamp.
QRSTD Quartz restrike time delay. Functions as does QRS, but quartz lamp energizes under hot and cold starting conditions. Quartz lamp will come on when luminaire is energized and remain on for two minutes after restrike.
SF Single fuse. Use with 120V, 277V, 347V. Not available for multi-tap ballast. In-line, time-delay type fusing isolates faulty luminaire from circuit fusing.

- = Available as an option, shipped installed
□ = Available as an accessory, shipped separately

Area Lighting

	C22	C42	C62	CV3P	DF	EC	FG	KW1	KW4	LS	MR1	MR6	PE	PER	QRS	QRSTD	SF
KSE					■	■				■ ¹				■	■		■
KSF					■	■				■ ²				■	■		■
KAD					■	■								■	■		■
KAC					■	■								■	■		■
KVE					■	■				■ ³				■	■		■
KVR					■	■				■				■	■		■
KVS					■	■				■ ³				■	■		■
KAR					■	■				■ ⁴				■	■		■
KKS					■	■								■	■		■
KKR					■	■								■	■		■
KQS					■	■				■				■	■		■
Aeris					■	■								■	■		■
KVF					■	■		■	■					■	■	■	■

Floodlighting

	C22	C42	C62	CV3P	DF	EC	FG	KW1	KW4	LS	MR1	MR6	PE	PER	QRS	QRSTD	SF
KFL					■	■ ⁶					□	□	■		■ ⁶		■
TFA	■	■	■		■	■				■ ⁷				■	■	■	■
TFR	■	■	■		■	■				■				■	■		■
TFL	■	■	■		■	■				■				■	■		■
TFM	■	■	■		■ ⁵								■				■ ⁷
55					■	■					□			■	■		■
95					■	■					□			■	■		■
170S					■	■								■	■		■

NOTES:

- 1 KSE2 only
- 2 KSF2/3 only
- 3 KVE/KVS size 3 only
- 4 KAR2 only
- 5 Not available in TA distribution
- 6 KFL3 only
- 7 Standard on 1000W TA & RN distributions

■ = Available as an option, shipped installed

Building-Mounted

	C22	C42	C62	CV3P	2DC12	DC12	DF	EC	ELDW	FG	KW1	KW4	LS	MR1	MR6	PE	PER	QRS	QRSTD	SF	
TWH							■	■					■			■	■	■	■	■	■
TWP							■	■								■		■	■	■	■
TWA							■	■								■		■			■
TWAC					■	■	■	■								■		■			■
TWL							■									■					■
WFL							■	■ ¹								■		■ ²			■
WSR						■	■	■	■							■		■			■
WST						■	■	■	■							■		■			■

Site Lighting

	C22	C42	C62	CV3P	DF	EC	FG	KW1	KW4	LS	MR1	MR6	PE	PER	QRS	QRSTD	SF
KBA					■		■										■
KBC					■		■										■
KBD					■		■										■
KBE					■		■										■
KBR					■		■										■
KBS					■		■										■
KL					■	■							■ ³		■		■

Garage Lighting

	C22	C42	C62	CV3P	DF	EC	FG	KW1	KW4	LS	MR1	MR6	PE	PER	QRS	QRSTD	SF
PGR					■	■		■							■	■	■
KPS					■	■		■ ⁴	■ ⁴						■	■	■
KACM					■	■									■		■

Sportlighting

	C22	C42	C62	CV3P	DF	EC	FG	KW1	KW4	LS	MR1	MR6	PE	PER	QRS	QRSTD	SF
TSP	■	■	■	■	■	■									■		■
TV	■	■	■	■	■	■				■				■	■		■

For electrical system compatibility (**SCWA, CWA, CWI, XHP, RHP, RNP**) please see individual product specification sheet or specific page in this catalog.

NOTES:

- 1 Size 3 only
- 2 Size 3 only N/A 480V
- 3 BBW only
- 4 R5 distribution only

Architectural Colors

Powder finish. Add designation as suffix to catalog number, KL series available in DDB, DNA, DBL and DWH only. Additional architectural colors are available. See Architectural Colors brochure on www.lithonia.com.

Standard Colors

- DDB** Dark bronze (standard)
- DBL** Black
- DWH** White

Classic Colors

- DMB** Medium bronze
- DNA** Natural aluminum
- DGC** Charcoal gray*
- DSS** Sandstone
- DSB** Steel blue*
- DTG** Tennis green*
- DBR** Bright red*

* Not available with TWP, TWA, TWAC or TWL.

Fixture Finishes

- ADB** Anodized dark bronze. Architectural Class 1. Round housing only for KAR2, KKR, KQR and certain 8" KB bollards. Add as suffix to catalog number.
- CR** Clear polyester coating for additional protection against some corrosive atmospheres. Consult factory for corrosive compatibility. Not available on KL.

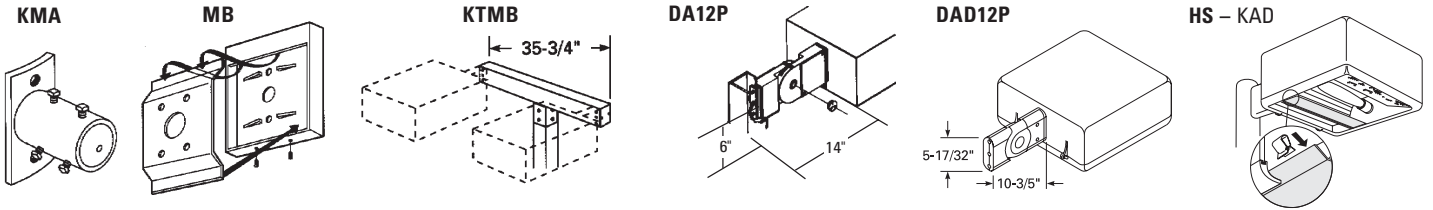
■ = Available as an option, shipped installed
 □ = Available as an accessory, shipped separately

		AS	KSE	KSF	KAD	KAC	KVE	KVR	KVS	KAR	KKS	KKR	KQS	KVF
DA12P	Degree mounting arm. 30° max. uptilt in 5° increments. Single or twin 180° config. for KVS.		□	□					□					
DA12WB	Degree arm for wall. 30° max. uptilt in 5° incr. Single or twin 180° config. for KVS.		□	□					□					
DAD12P	Degree mounting arm. 30° max. uptilt, 5° incr.				□	□					□			
DAD12WB	Degree arm for wood pole or wall. 30° max. uptilt, 5° incr.				□	□					□			
HS	House-side shield (consult factory for specifics)	■	□	□	□		■	■		■			■	□
KMA	Mast arm mounting for area lighting. 6" min. arm length. Use for 2 ³ / ₈ " OD pipe.	□	□	□	□	□			□ ¹	□				□
KTMB	Twin mounting bar square mounting arms. Mounts on T25 (2 ⁷ / ₈ " OD tenon by 5" tall minimum).		□	□	□	□			□	□				□
MA	Master arm for single/twin 180° configuration, internal fitter (Size 3 only).								■					
MB	Mounting bracket. Use size 1 housing with KSF, KSE.		□	□										
PT4	Post-top round pole only (4" OD open-top pole).						■	■						■
PT45	Post-top round pole only (4 ¹ / ₂ " OD open-top pole).						■	■						■
PT5	Post-top. Must use with round pole only for KVR. (5" OD open-top pole)						■	■						■
PT6	Post-top. Must use with round pole only for KVR. (6" OD open-top pole)						■	■						
RP_x	Round pole mounting arm.	■	■	■	■	■	■	■	■	■				■
RPF	Round pole fitter.												■	
RPF20	Round pole fitter (2 ³ / ₈ " OD tenon).						□	□						
RPF25	Round pole fitter (2 ⁷ / ₈ " OD tenon).						□	□						

For arm and/or bracket lengths, see product specification sheet or specific product page in this catalog.

NOTES:

1 Size one housing only.

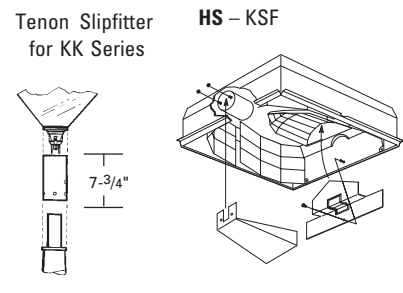


Tenon Slipfitters for Arm-Mounted Luminaires
 Use with all arm-mounted luminaires. When ordered, fixture must include round pole arm (RP_x) or pole degree aiming arm (DA12P or DAD12P). To order, locate catalog number from chart below based on tenon size and mounting configuration. Example: For 3 fixtures at 120°, using a 2-7/8" tenon, catalog number is **T 25-320**. Shipped separately. Order as separate catalog numbers. **For Aeries fixture specify AS.**

Example: AST20-190.

Tenon OD	1 fixture	2 fixtures at 180°	2 fixtures at 90°	3 fixtures at 120°	3 fixtures at 190°	4 fixtures at 90°
2-3/8"	T 20-190	T 20-280	T 20-290*	T 20-320*	T 20-390*	T 20-490*
2-7/8"	T 25-190	T 25-280	T 25-290*	T 25-320*	T 25-390*	T 25-490*
4"	T 35-190	T 35-280	T 35-290*	T 35-320	T 35-390*	T 35-490*

* RP09 must be used with KSF, KVS, KT or KSE.



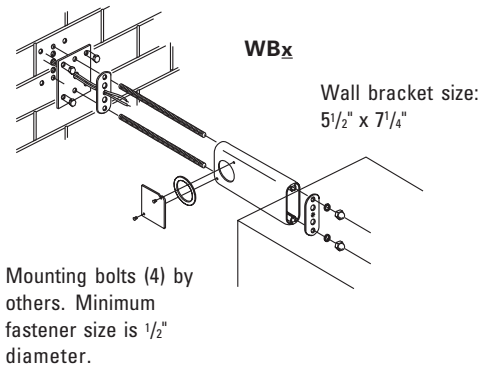
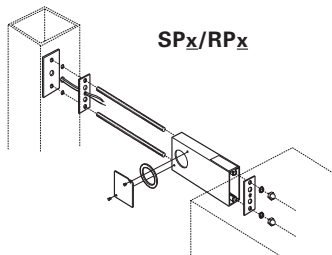
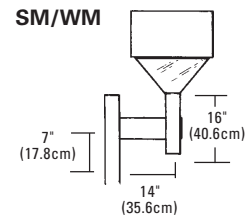
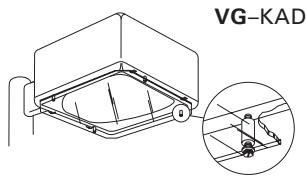
■ = Available as an option, shipped installed
 □ = Available as an accessory, shipped separately

		AS	KSE	KSF	KAD	KAC	KVE	KVR	KVS	KAR	KKS	KKR	KQS	KVF
SM	Side mount assembly. One per luminaire.										□	□		
SP	Square pole mounting arm. Use 9" arm for two at 90°.	■	■	■	■	■	■	■	■	■				■
SPF	Square pole fitter.												■	
SPF20	Square pole fitter (2 ³ / ₈ " OD tenon).						□							
SPF25	Square pole fitter (2 ⁷ / ₈ " OD tenon).						□							
T20	Tenon slipfitter (for 2" pipe tenon 2 ³ / ₈ " OD).										□	□		
T25	Tenon slipfitter (for 2 ¹ / ₂ " pipe tenon 2 ⁷ / ₈ " OD).											□		
VG³	Vandal guard.	■	□	□	□	□ ¹			□ ²					□
WB_x	Wall mount for J-box. (Aeris only order WBA).	■	■	■	■	■	■			■				■
WM	Wall mount. 16" arm is used with a wall plate.										□	□		
WW_x	Wood pole or wall for conduit stub 9" or 12".		■	■	■	■	■	■	■	■				■

For arm and/or bracket lengths, see product specification sheet or specific product page in this catalog.

NOTES:

- 1 Only available with FP option.
- 2 Only available in KVS1 (R2, R3 and R4).
- 3 Specify family as prefix when ordering as a separate line item.

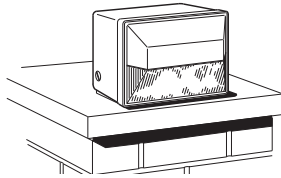


■ = Available as an option, shipped installed
 □ = Available as an accessory, shipped separately

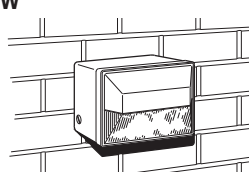
								TWA/						
		KBA	KBC	KBD	KBE	KBR	KBS	KL	TWH	TWP	TWAC	TWL	WFL	WSR/WST
BBF	Backbox for flat surfaces.							■						
BBR	Backbox, recessed (ceiling, soffit mount).							■						
BBS	Backbox for stud wall construction.							■						
BBW	Backbox for surface wall installation.							■				□	□	
EP1	Extension collar, 1/2" deep. Order as TWLEP1.										□			
EP2	Extension collar, 2/8" deep. Order as TWLEP2.										□			
FS	Full shield for IES cutoff							■	■					
PC	Polycarbonate lens. Standard on KL.	■	■	■	■	■	■	■						
R6S/R8S	Half-shield. Not for use with louvered bollards.	□	□	□		□								
S6S/S8S	Half-shield. Not for use with louvered bollards.				□		□							
SCL	Scribed Lens. Not available with louvered bollards.	■	■	■	■	■	■							
WG¹	Wireguard.							□	□	□	□ ²	□	□	□
VG¹	Vandal guard.							□				□	□	
TWLMB	Mounting box, cast aluminum.										□			
UT5	Uptilt 5 degrees													□
DFL	Diffusing lens													■
WLU	Wet location door for up orientation													■
IBS	Internal backlight shield													■
LC90	Lock at 90° for full cutoff											■		

NOTES:
 1 Specify family prefix.
 2 Order TWAWG with TWLMB, EP or HPF.

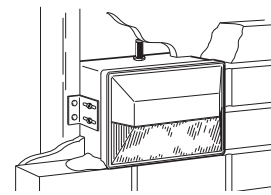
BBF



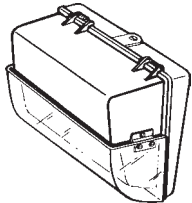
BBW



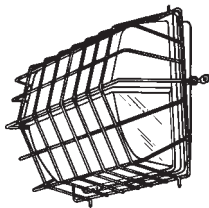
BBS



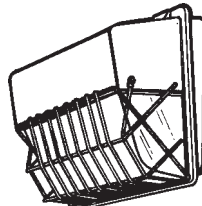
TWHVG



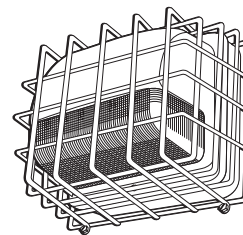
TWPWG



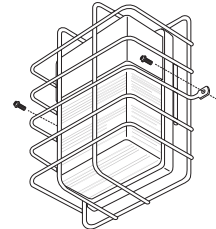
TWHWG



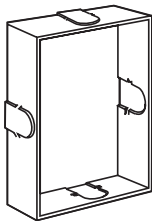
TWAWG



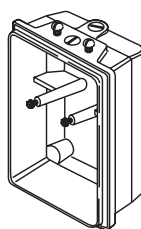
TWLWG



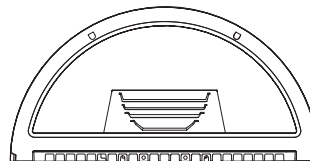
EP1



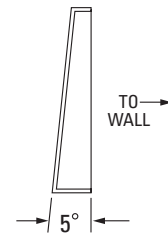
TWLMB



IBS



UT5

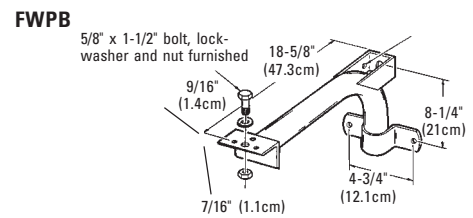
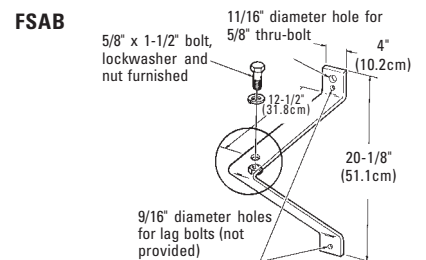
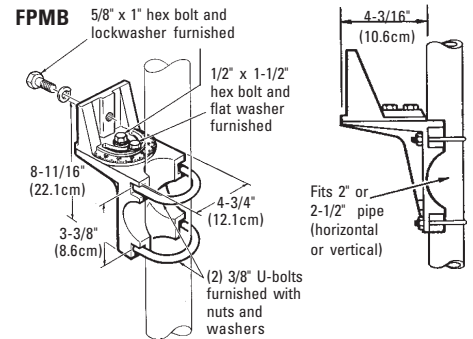
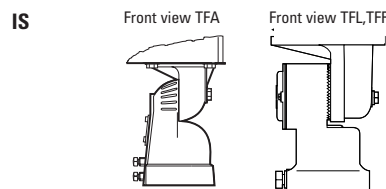
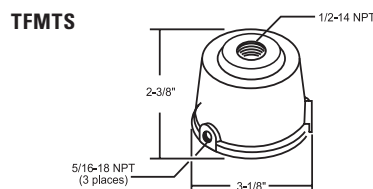
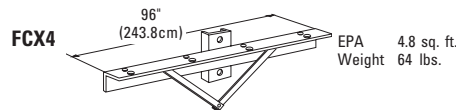
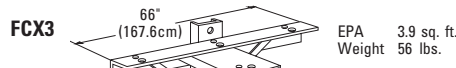
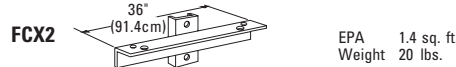
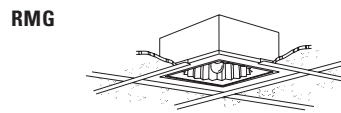
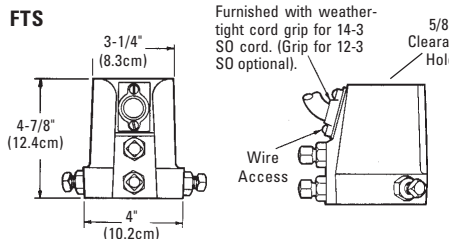
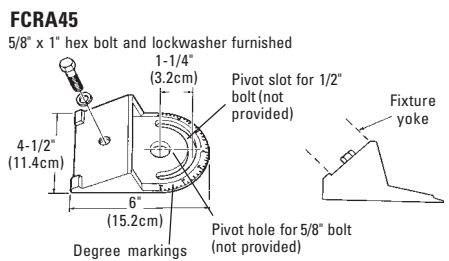
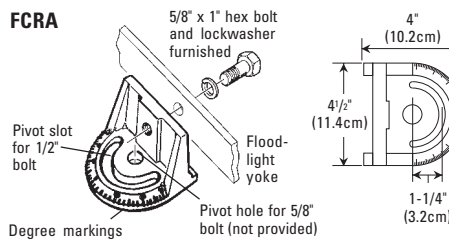
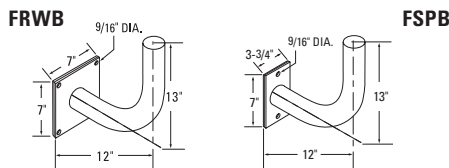


Floodlighting, Garage Lighting and Sportlighting

■ = Available as an option, shipped installed
 □ = Available as an accessory, shipped separately

		PGR	KPS	KACM	TSP	TV	KFL	55	95	170S	TFA	TFR	TFL	TFM
RMG	Recessed mount in grid ceiling.		■											
SS	Stainless steel ceiling mount housing (alloy 304 stainless steel).		■											
AH	Above horizontal aiming.					■								
CF	Charcoal filter. Must use with heavy-duty shroud.				■	■								
FCRA	Crossarm adapter for horizontal mounting. *				□	□	□	□	□	□	□	□	□	□
FCRA45	Crossarm adapter for horizontal mounting 45°. *				□	□	□	□	□	□	□	□	□	□
SLR	Stainless steel lens rings.				■	■								
IBL	Internal bottom louver. Cannot order IBL and TVUV together.					■								
FRWB	Radius wall bracket. Standard finish is DDB.			□	□	□	□	□	□	□	□	□	□	□
FSAB	Steel angle bracket. Standard finish is DDB.				□	□	□	□	□	□	□	□	□	□
FSPB	Steel square pole bracket (for use with existing poles). Standard finish is DDB.										□	□	□	□
FPMB	Pipe/wood/pole/wall mounting bracket. Mounts to 2" schedule 40 pipe.				□	□	□	□	□	□	□	□	□	□
FWPB	Wall/pipe bracket.						□	□	□	□	□	□	□	□
FTS	Tenon slipfitter. Fits 2 7/8" to 2 1/8" OD tenon.				□	□	□	□	□	□	□	□	□	□
TVTS	Tenon slipfitter. Fits 2 7/8" to 2 1/8" OD tenon.					■								
TFMST	Tenon slipfitter. For 1/2" threaded knuckle. Fits 1 1/4" to 2 3/8" OD tenon.													□
TVUV	Upper visor. Cannot be ordered with IBL.					□								
FCX2	2-light wood pole crossarm.				□	□	□	□	□	□	□	□	□	□
FCX3	3-light wood pole crossarm.				□	□	□	□	□	□	□	□	□	□
FCX4	4-light wood pole crossarm.				□	□	□	□	□	□	□	□	□	□
TVWC	Wood crossarm mount bolt 5/8" - 11UNC, 8" length.				□	□								
YK	Yoke mount.	■	■	■			■	■	■	■	■	■	■	■
IS	Integral slipfitter. Fits 2 7/8" max OD with TFA, 2 3/8" with TFL and TFR.										■	■	■	

* Order as separate catalog number.



Floodlighting

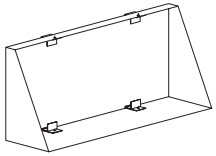
■ = Available as an option, shipped installed
 □ = Available as an accessory, shipped separately

	KFL	55	95	170S	TFA	TFR	TFL	TFM
BD² Barn doors	□							
BV² Bottom visor	□	□	□					
BVG² Bubble vandal guard	□							
CV² Concentric visor			□					
EV² Eggcrate visor	□							
EY Extended yoke						■	■	
FV² Full visor	□	□	□		□	□	□	□
GV² Glare visor		□	□					
HLV² Horizontal louver	□							
VG^{1,2} Vandal guard. Order TFAVG for TFA.					□	□	□	□
UV Upper visor. Specify family designation.	□	□	□	□	□	□	□	□
VLV Vertical louver	□							
WG Wire guard	□				□	□	□	□

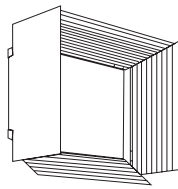
NOTES:

- 1 Vandal guards are compatible with all wattages.
- 2 Specify family as prefix.

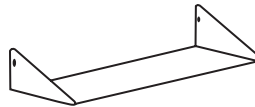
BV - BOTTOM VISOR (KFL)



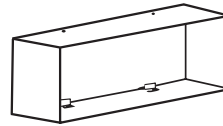
BD - BARN DOORS (KFL)



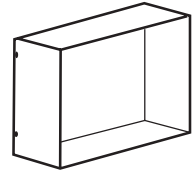
BV - BOTTOM VISOR (55/95)



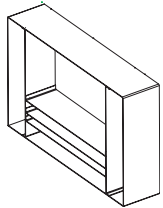
FV - FULL VISOR (KFL)



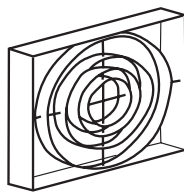
FV - FULL VISOR (55/95)



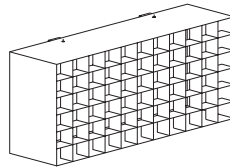
HLV - HORIZONTAL LOUVER (KFL)



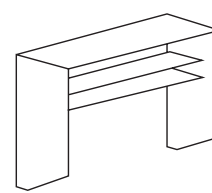
CV - CONCENTRIC VISOR (95)



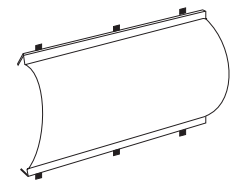
EV - EGGCRATE VISOR (KFL)



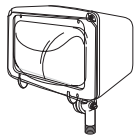
GV - GLARE VISOR (55/95)



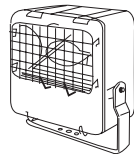
BVG - VANDAL GUARD (KFL)



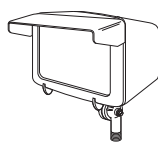
TFMVG/TFRVG



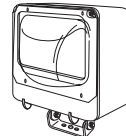
TFAWG



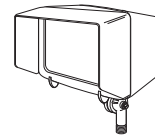
TFMUV/TFRUV



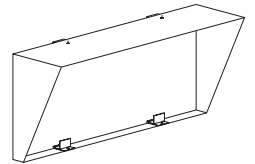
TFLVG



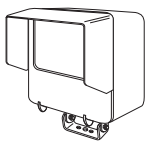
TFMFV/TFRFV



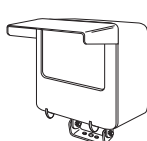
UV - UPPER VISOR (KFL)



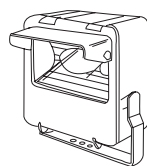
TFLFV



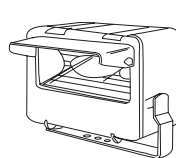
TFLUV



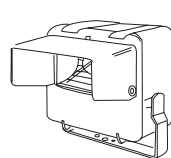
TFAUV



TFAVG



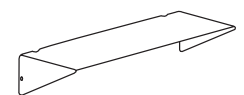
TFAFV



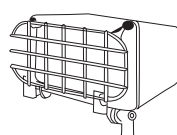
TFLWG



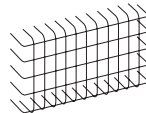
UV - UPPER VISOR (55/95)



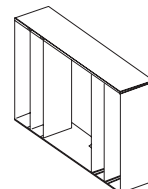
TFMWG/TFRWG



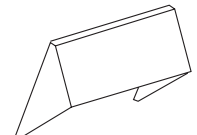
WG - WIREGUARD



VLV - VERTICAL LOUVER (KFL)



UV - UPPER VISOR (170)



Floodlighting

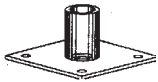
■ = Available as an option, shipped installed
 □ = Available as an accessory, shipped separately

		KFL	55	95	170S	TFA	TFR	TFL	TFM
AJB	Architectural J-box.	□							□
EWB	Extended wall bracket, yoke mount only.	□	□	□	□	□	□	□	
KFLTMB	Twin mounting bar.	□				□	□	□	□
KFLTMBTHK	Twin mounting bar for THK option. Only compatible with KFLTHK.	□							
MP	Mounting plate. (For use with yoke-mount option on fixture).	□	□	□		□	□	□	□ ¹
KFLSTM	Stanchion mount. Requires tenon slipfitter. (2 ³ / ₈ " OD tenon)	□	□	□	□	□	□	□	□
KFLSTMTHK	Stanchion mount for THK option. (Use with THK mounting only or standard TFM).	□							□
THK	Threaded knuckle mount.	■							
TM	Tenon base mount. Use with slipfitter options. (2 ³ / ₈ " OD teno)	□	□	□	□	□	□	□	□
KFLWMA	Wall mount arm. Requires IS, FTS or TFMTS.	□	□	□	□	□	□	□	□
KFLWMATHK	Wall mount arm for THK option.	□							
YK	Yoke mounting bracket.	■							■
STM	Stanchion mount. (2 ³ / ₈ " OD tenon)	□	□	□	□	□	□	□	□

NOTES:

1 When used with TFM yoke a 3/8" bolt, two lockwashers and nuts must be furnished by others.

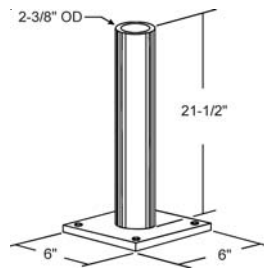
TM - TENON BASE MOUNT



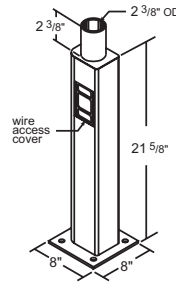
AJB - ARCHITECTURAL JUNCTION BOX



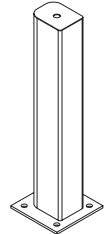
STM - STANCHION MOUNT



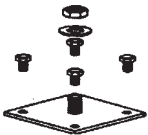
KFLSTM - STANCHION MOUNT



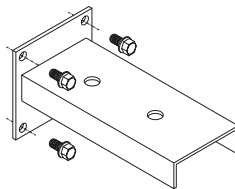
KFLSTMTHK - STANCHION MOUNT FOR THREADED KNUCKLE



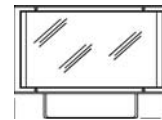
MP - MOUNTING PLATE



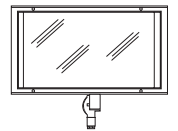
EWB - EXTENDED WALL BRACKET



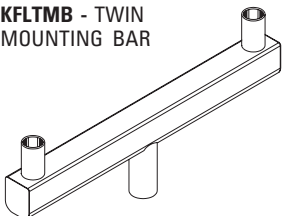
YK - YOKE MOUNT



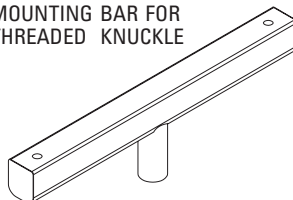
THK-THREADED KNUCKLE MOUNT



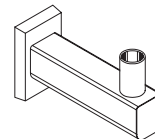
KFLTMB - TWIN MOUNTING BAR



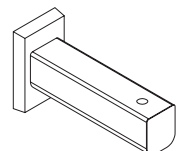
KFLTMBTHK - TWIN MOUNTING BAR FOR THREADED KNUCKLE



KFLWMA - WALL-MOUNT



KFLWMATHK - WALL-MOUNT ARM FOR THREADED KNUCKLE



IES Classifications

for general-purpose floodlighting

The IES beam spreads indicate the angular ranges (horizontally and vertically) through which the intensity of the floodlight is greater than 10% of its maximum intensity. This angular range is referred to as the 'Field Angle'.

For example:

Asymmetrical beam spread
 138° (H) x 119° (V)
 HORIZONTAL VERTICAL
 = IES 7 x 6

IES Beamspread Classification

Field Angle Degrees	IES Type	Beam Description
10° up to 18°	1	very narrow
18° up to 29°	2	narrow
29° up to 46°	3	medium narrow
46° up to 70°	4	medium
70° up to 100°	5	medium wide
100° up to 130°	6	wide
130° and up	7	very wide

The IES classification was formerly referred to as NEMA Type.

The following outdoor design tips provide general guidelines for lighting design. These guidelines may not apply to all applications.

GROUND-MOUNTED FLOODLIGHTS

Ground-mounted floodlights are used to light building facades, signs and flagpoles.

Facade Lighting

When lighting building facades with ground-mounted floodlights, three factors are considered: setback, spacing and aiming.

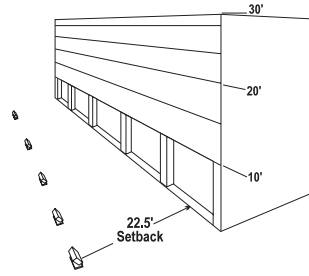
Facade Lighting Considerations:
 1. Setback
 2. Spacing
 3. Aiming

Setback

The recommended setback is three-fourths the building height. If a building is 30 feet tall, the recommended setback is 22.5 feet from the building. Locating the floodlight closer to the building will sacrifice uniformity; setting it farther back will result in a loss of efficiency.

$$\text{Setback distance} = \frac{3}{4} \times \text{building height}$$

$$\frac{3}{4} (30 \text{ ft.}) = 22.5 \text{ ft.}$$

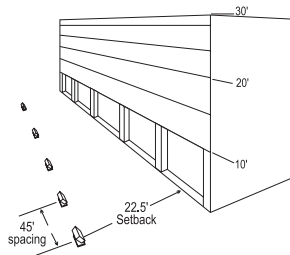


Spacing

The rule of thumb for spacing floodlights is not to exceed two times the setback distance. If the setback is 22.5 feet, the floodlights should not be placed more than 45 feet apart.

$$\text{Spacing} = 2 \times \text{setback distance}$$

$$22.5 \text{ ft.} \times 2 = 45 \text{ ft. apart}$$

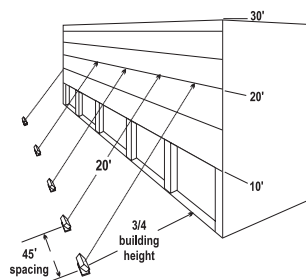


Aiming

The floodlight should be aimed at least two-thirds the height of the building. For example, if a building is 30 feet high, the recommended aiming point is approximately 20 feet high. After installation is complete, aiming can be adjusted to produce the best appearance. *Mounting a full or upper visor to the floodlight can reduce unwanted spill light.*

$$\text{Aiming point} = \frac{2}{3} \times \text{building height}$$

$$\frac{2}{3} (30 \text{ ft.}) = 20 \text{ ft. high}$$



Sign Lighting

When lighting a sign with ground-mounted floodlights, there are three considerations: setback, spacing and aiming.

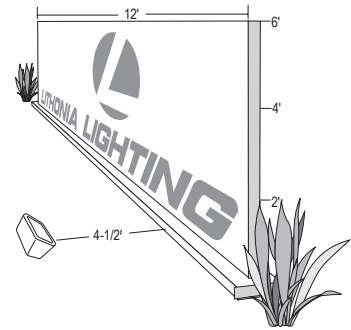
Sign Lighting Considerations:
 1. Setback
 2. Spacing
 3. Aiming

Setback

When using ground-mounted floodlights to light a sign, the recommended setback is a distance equal to three-fourths the sign height. For example, the setback distance for a 12-foot by 6-foot sign would be 4.5 feet. Locating the floodlight closer will sacrifice uniformity while setting it farther back will result in a loss of efficiency.

$$\text{Setback distance} = \frac{3}{4} \times \text{sign height}$$

$$\frac{3}{4} (6 \text{ ft.}) = 4.5 \text{ ft.}$$

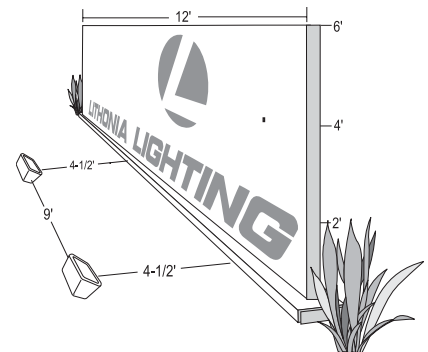


Spacing

The rule of thumb for spacing floodlights is not to exceed two times the setback distance. If the setback is 4.5 feet, the floodlights should not be placed more than 9 feet apart.

$$\text{Spacing} = 2 \times \text{setback distance}$$

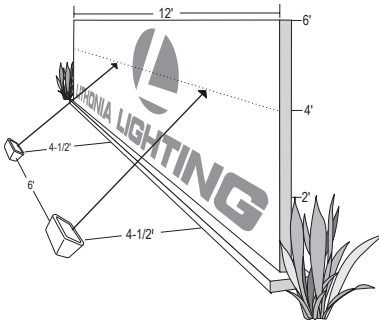
$$4.5 \text{ ft.} \times 2 = 9 \text{ ft. apart}$$



Aiming

The floodlight should be aimed at least two-thirds up the sign. For example, if a sign is six feet tall, then the floodlight will be aimed approximately four feet high. After installation is completed, aiming can be adjusted to produce the best appearance. *Mounting a full or upper visor to the floodlight can reduce unwanted glare.*

Aiming point = $\frac{2}{3}$ x sign height
 $\frac{2}{3}$ (6 ft.) = 4 ft. high



Flag Lighting

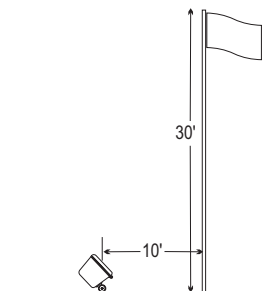
Ground-mounted floodlights also can be used to light flags. Setback, spacing and aiming must all be considered.

- Flag Lighting Considerations:
1. Setback
 2. Spacing
 3. Aiming

Setback

The recommended setback for lighting a flag is one-third times the pole height. If the pole is 30 feet tall, the floodlight should be set back a distance of 10 feet away from the pole.

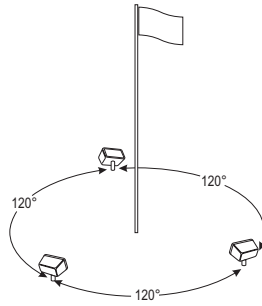
Setback distance = $\frac{1}{3}$ x pole height
 $\frac{1}{3}$ (30 ft.) = 10 ft.



Spacing

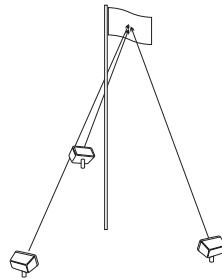
Ideally, three floodlights are recommended to light a flag. The floodlights should be placed approximately 120° apart.

3 floodlights spaced 120° apart



Aiming

The recommended aiming point for each floodlight is the center of the flag or the top of the pole. *Mounting a full or upper visor to the floodlight can reduce unwanted spill light.*



POLE-MOUNTED FLOODLIGHTS

General Area Lighting

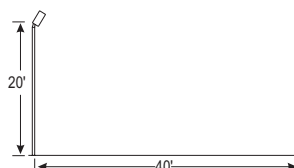
Pole-mounted floodlights are commonly used for general area lighting applications such as parking lots and storage yards. Mounting height, spacing, vertical aiming and horizontal aiming should be considered.

- General Lighting Considerations:
1. Mtg. Height
 2. Spacing
 3. Vertical aiming
 4. Horizontal aiming

Mounting Height

The recommended mounting height is one half the distance across the area to be lighted. If the area to be lighted is 40 feet across, the lowest recommended mounting height is 20 feet.

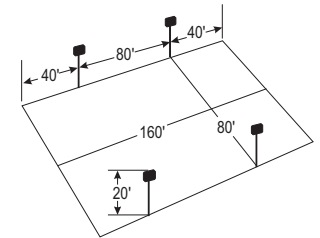
Mounting height = $\frac{1}{2}$ distance to be lighted
 $\frac{1}{2}$ (40ft.) = 20 ft.



Spacing

When more than one pole is added, pole placement is a concern. The "4 times" rule of thumb for spacing indicates that a pole should be placed four times the mounting height from the adjacent poles. If a flood is mounted on a 20-foot pole, space the poles 80 feet apart.

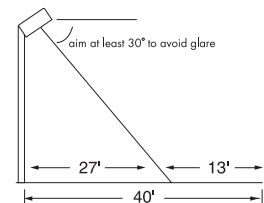
Pole spacing = 4 x mounting height
 4 (20-ft. pole) = 80 feet between poles



Vertical Aiming

A single floodlight uses the two-thirds rule of thumb for vertical aiming. The fixture is aimed $\frac{2}{3}$ of the distance across the area to be lighted and at least 30° below horizontal. If the area to be lighted is 40 feet across, the recommended aiming point is 27 feet.

Aiming point = $\frac{2}{3}$ across distance to be lighted
 $\frac{2}{3}$ (40 ft.) = 27 ft. aiming point

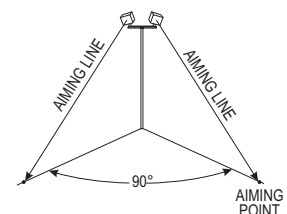


Additionally, to minimize glare, the recommended aiming point distance should never exceed twice the mounting height. If a pole is 20 feet high, the vertical aiming point should not exceed 40 feet out.

2 (20 ft. mtg. ht.) = 40 ft.

Horizontal Aiming

When an additional floodlight is added to a single pole, horizontal aiming also must be considered. First, each floodlight should be vertically aimed according to the two-thirds rule. As long as the floodlight has a horizontal NEMA 6 or 7 beamspread, the floodlights can be aimed up to 90° apart.



(Poles are available only in U.S.)

All luminaire/pole assemblies require proper evaluation to ensure that the structural integrity of the assembly is not compromised when applied in specific wind conditions. Therefore, the basis for pole selection in this catalog is total weight and effective projected area, EPA (ft²), shown on the individual pole catalog pages. Determination of maximum EPA (ft²) and weight loading must include all luminaires, bracketry, signs, decoration, overhead wire or other equipment that will be mounted to the subject pole. Luminaire EPA (ft²) and weight data are found on their respective product pages.

The total effective projected area of the luminaires and brackets shall not exceed the EPA (ft²) listed for the pole selected at a given wind velocity. Poles that are to be located in areas of known abnormal conditions will require special consideration. The map on page 495 gives the wind velocities to be used in determining luminaire pole compatibility.

NOTE: If during the pole warranty period of one year, the product proves defective in material or workmanship, the company shall correct, at its option, by repairing or replacing at no charge to the purchaser, if the purchaser promptly notifies the company. This warranty specifically excludes fatigue failure or similar phenomena resulting from induced vibration harmonic oscillation or resonance associated with the movement of air currents around the product.

Pole Selection Procedure

- Step 1.** Select the luminaire and decide how many will be mounted per pole. Determine the Effective Projected Area, EPA (ft²), which is given on the dimensional information table.
- Step 2.** Determine the appropriate mounting method for the luminaire. Options include arm, bracket or wall mounting.
- Step 3.** Add together the EPA's (ft²) of the luminaire and arm/bracket. Multiply by number of fixtures to be mounted on one pole.
- Step 4.** Consult the Wind Map on page 495 to determine the basic wind velocity for your area.
- Step 5.** Select the material (steel or aluminum) and shape (square or round) of the pole. Refer to the "Technical Information" chart on the appropriate pole page.
 - A. Find the desired nominal mounting height in the second column.
 - B. Verify that the fixture weight does not exceed the maximum number listed.
 - C. Compare your total EPA (ft²) loading with the maximum EPA (ft²) value found in the wind speed column for your area. Check that the equipment you are using will not exceed this value.
 - D. If both the weight and EPA (ft²) values do not exceed for which the pole is rated, you have selected the correct pole. If, however, either one of those numbers exceeds the maximum rated values, compare the EPA (ft²) and fixture weight loads to the next larger pole of the same mounting height.

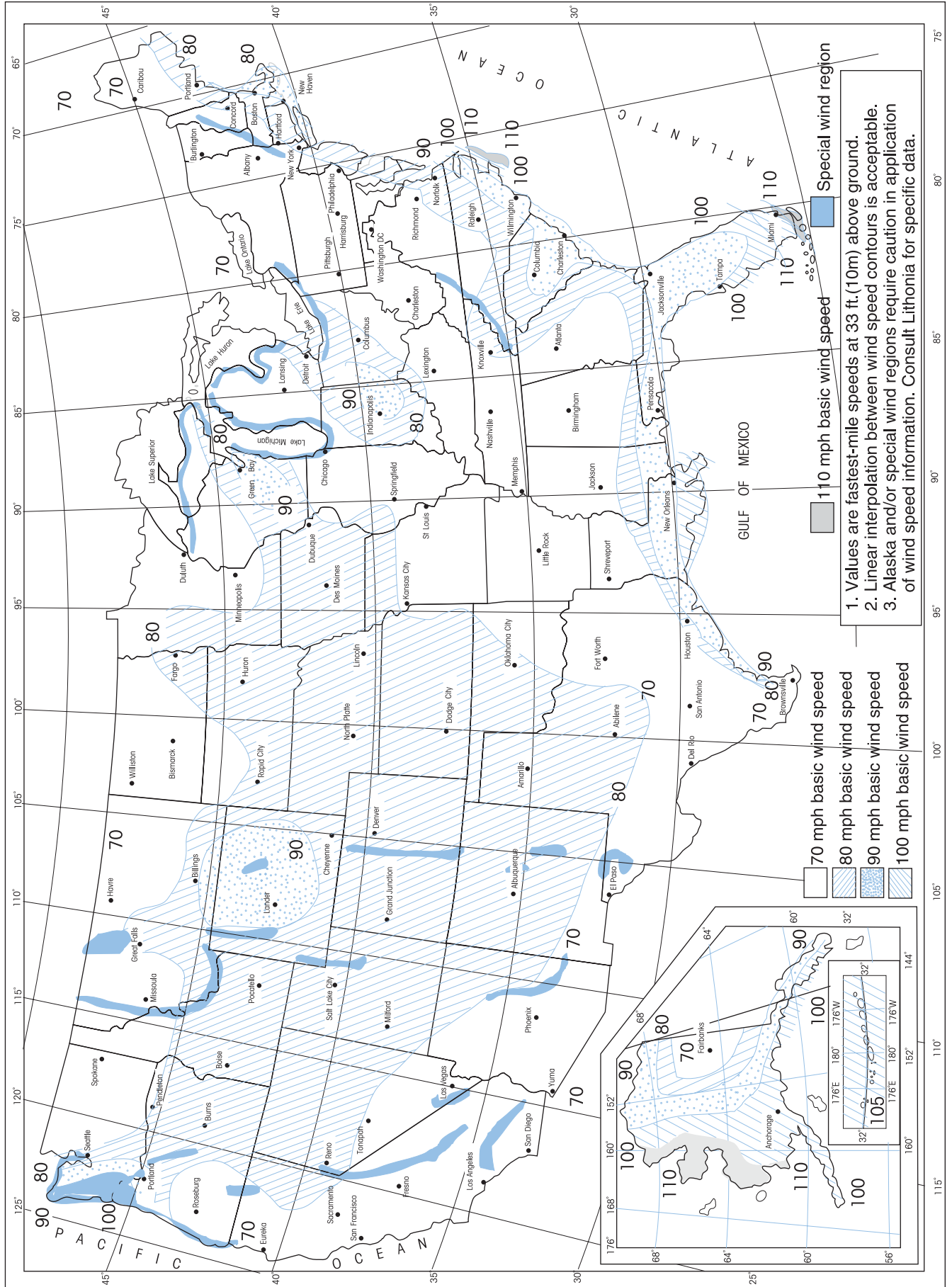
CAUTION: This pole selection process is a guideline only. Lithonia Lighting assumes no responsibility for selection and recommends consultation with qualified individuals for verification of luminaire/pole assembly selection.

Ordering Information

Example: **SSA 16 4G DM19 DMB**

Shaft type	Nominal mounting height	Nominal shaft base size/wall thickness (in.)	Fixture mounting method	Options	Finish
RTA Round tapered aluminum	8-50 feet sportslighting poles up to 115'. See submittal sheets for specific information.	4 C 0.125	PT Open-top	See page 509	Architectural Colors ¹ Polyester Powder <u>Standard Colors</u> DDB Dark bronze DWH White DBL Black BA Brushed Aluminum ² <u>Classic Colors</u> DMB Medium bronze DNA Natural aluminum DSS Sandstone DGC Charcoal gray DTG Tennis green DBR Bright red DSB Steel blue <u>Class 1 Architectural Anodize</u> ³ ABL Black ADB Dark bronze ANA Natural <u>Existing Colors</u> MAEX Match existing
RSA Round straight aluminum		5 E 0.156	<u>Tenon Mounting</u>		
RSAH Round straight aluminum hinged		6 G 0.188	T20 2 ³ / ₈ " OD (2" NPS)		
SSA Square straight aluminum		7 J 0.250	T25 2 ⁷ / ₈ " OD (2 ¹ / ₂ " NPS)		
SSAH Square straight aluminum hinged		8 K 0.312	T30 3 ¹ / ₂ " OD (3" NPS)		
RTS Round tapered steel		9 L 0.219	T35 4" OD (3 ¹ / ₂ " NPS)		
STS Square tapered steel		10 P 0.375	<u>Drill Mounting</u>		
STSH Square tapered steel hinged			DM19 1 at 90°		
RSS Round straight steel			DM28 2 at 180°		
SSS Square straight steel			DM29 2 at 90°		
SSF Square straight fiberglass		DM39 3 at 90°			
RTF Round tapered fiberglass		DM49 4 at 90°			
RTFDB Round tapered fiberglass direct burial		DM32 3 at 120° (Round Poles)			
SPRTC Round tapered concrete sportslighting		<u>Aeris Drill Mounting</u>			
STC Square tapered concrete		DM19AS 1 at 90°			
SPRTS Round tapered steel		DM28AS 2 at 180°			
		DM29AS 2 at 90°			
		DM39AS 3 at 90°			
		DM49AS 4 at 90°			
		DM32AS 3 at 120° (Round Poles)			

NOTES:
 1 Additional architectural colors available; see Architectural Colors brochure on www.lithonia.com.
 2 Aluminum poles only.
 3 RTA, RSA, SSA only.



RSA

Features

Shaft – One-piece extruded 6063-T6 aluminum alloy with T6 temper. Circumferential satin-brushed finish. 4½" round straight tube is uniform in cross-section down length of shaft.

Anchor Base – Cast from A356 aluminum alloy and heat treated to T6 temper. Base slipfits shaft, and they are joined together by continuous circumferential welds at both top and bottom of anchor base to provide maximum strength at area of critical stress.

Round Straight Aluminum

Anchor Bolts – Top 12" is galvanized per ASTM-A-153. Made of carbon steel bar with a minimum-yield strength of 55,000 psi.

Grounding – Ground lug located immediately inside hand hole is tapped for 3/8"-16 UNC ground bolt (not supplied).

Hand hole – Reinforced 3"x5" hand hole is located 18" above base. Cover and attachment hardware furnished.

Hardware – Stainless steel.

Top Cap – Cast-aluminum cap is provided for drill-mount poles.

Finish – Standard finish is brushed aluminum. Optional polyester powder paint and anodized finishes available.

Bolt Covers – A356 nut covers included with anchor base unless otherwise specified.

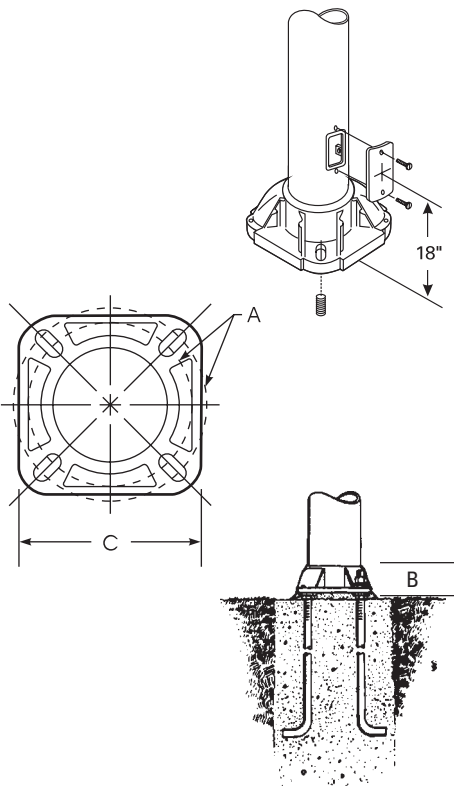
Ordering Information: See page 494 (Note: Poles are available only in U.S.)

INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.
Do not erect poles without having fixtures installed.
If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

NOTES:

- 1 Mounting Arrangement: (PT) Open Top; (T20) 2½" OD (2" NPS)
- 2 Drill Mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- 3 Options: See page 509.
- 4 Brackets: See page 511.



Technical Information

EPA (ft²) with 1.3 gust

Catalog Number	Nom. mount. ht. (ft.)	Pole shaft size (in. x in. x ft.)	Wall thick. (in.)	EPA (ft²) with 1.3 gust				Bolt circle (in.)	Bolt size (in. x in. x in.)	Approx. ship wt. (lbs.)
				80 mph	90 mph	100 mph	Max. wt.			
RSA 8 4C	8	4.0 x 8.0	0.125	11.2	8.6	6.8	125	6-1/2-8-1/4	3/4 x 18 x 3	22
RSA 8 4-5C	8	4.5 x 8.0	0.125	14.6	11.3	9.1	175	7-1/8-8-3/8	3/4 x 18 x 3	30
RSA 8 4-5G	8	4.5 x 8.0	0.188	21.8	17.0	13.7	225	7-1/8-8-3/8	3/4 x 18 x 3	38
RSA 10 4C	10	4.0 x 10.0	0.125	8.2	6.1	4.7	100	6-1/2-8-1/4	3/4 x 18 x 3	26
RSA 10 4-5C	10	4.5 x 10.0	0.125	10.6	8.1	6.5	133	7-1/8-8-3/8	3/4 x 18 x 3	34
RSA 10 4-5G	10	4.5 x 10.0	0.188	16.3	12.6	10.1	175	7-1/8-8-3/8	3/4 x 18 x 3	43
RSA 10 5C	10	5.0 x 10.0	0.125	13.6	10.6	8.5	150	7-1/2-9-1/2	3/4 x 18 x 3	36
RSA 12 4C	12	4.0 x 12.0	0.125	6.0	4.3	3.2	110	6-1/2-8-1/4	3/4 x 18 x 3	30
RSA 12 4-5C	12	4.5 x 12.0	0.125	8.1	6.0	4.8	80	7-1/8-8-3/8	3/4 x 18 x 3	38
RSA 12 4-5G	12	4.5 x 12.0	0.188	12.7	9.7	7.7	185	7-1/8-8-3/8	3/4 x 18 x 3	50
RSA 12 5C	12	5.0 x 12.0	0.125	10.3	8.0	6.3	150	7-1/2-9-1/2	3/4 x 18 x 3	36
RSA 12 5E	12	5.0 x 12.0	0.156	13.2	10.3	8.2	200	7-1/2-9-1/2	3/4 x 18 x 3	44
RSA 12 5G	12	5.0 x 12.0	0.188	16.2	12.6	10.1	225	7-1/2-9-1/2	3/4 x 18 x 3	53
RSA 14 4C	14	4.0 x 14.0	0.125	4.1	2.8	1.9	75	6-1/2-8-1/4	3/4 x 18 x 3	35
RSA 14 4-5C	14	4.5 x 14.0	0.125	5.8	4.2	3.3	60	7-1/8-8-3/8	3/4 x 18 x 3	42
RSA 14 4-5G	14	4.5 x 14.0	0.188	9.7	7.3	5.8	190	7-1/8-8-3/8	3/4 x 18 x 3	56
RSA 14 5C	14	5.0 x 14.0	0.125	7.8	6.0	4.7	100	7-1/2-9-1/2	3/4 x 18 x 3	39
RSA 14 5E	14	5.0 x 14.0	0.156	10.3	8.0	6.3	125	7-1/2-9-1/2	3/4 x 18 x 3	47
RSA 14 5G	14	5.0 x 14.0	0.188	12.8	9.9	7.9	150	7-1/2-9-1/2	3/4 x 18 x 3	56
RSA 16 4C	16	4.0 x 16.0	0.125	2.8	1.6	1.0	150	6-1/2-8-1/2	3/4 x 18 x 3	38
RSA 16 4-5C	16	4.5 x 16.0	0.125	4.2	2.8	2.1	50	7-1/8-8-3/8	3/4 x 18 x 3	46
RSA 16 4-5G	16	4.5 x 16.0	0.188	7.5	5.5	4.3	155	7-1/8-8-3/8	3/4 x 18 x 3	62
RSA 16 5C	16	5.0 x 16.0	0.125	5.9	4.4	3.4	175	7-1/2-9-1/2	3/4 x 18 x 3	46
RSA 16 5E	16	5.0 x 16.0	0.156	8.0	6.1	4.8	190	7-1/2-9-1/2	3/4 x 18 x 3	53
RSA 16 5G	16	5.0 x 16.0	0.188	10.1	7.8	6.1	200	7-1/2-9-1/2	3/4 x 18 x 3	60
RSA 16 6E	16	6.0 x 16.0	0.156	13.6	10.6	8.4	225	8-3/4-10-1/4	3/4 x 30 x 3	53
RSA 16 6G	16	6.0 x 16.0	0.188	16.8	13.0	10.4	245	8-3/4-10-1/4	3/4 x 30 x 3	78
RSA 18 4-5G	18	4.5 x 18.0	0.188	5.7	4.0	3.1	123	7-1/8-8-3/8	3/4 x 18 x 3	68
RSA 18 5C	18	5.0 x 18.0	0.125	4.3	3.1	2.4	150	7-1/2-9-1/2	3/4 x 18 x 3	48
RSA 18 5E	18	5.0 x 18.0	0.156	6.1	4.6	3.5	175	7-1/2-9-1/2	3/4 x 18 x 3	58
RSA 18 5G	18	5.0 x 18.0	0.188	8.0	6.8	4.7	225	7-1/2-9-1/2	3/4 x 18 x 3	68
RSA 18 6G	18	6.0 x 18.0	0.188	13.9	10.7	8.5	225	8-3/4-10-1/4	3/4 x 30 x 3	86
RSA 20 4-5G	20	4.5 x 20.0	0.188	4.3	2.9	2.1	95	7-1/8-8-3/8	3/4 x 18 x 3	74
RSA 20 5C	20	5.0 x 20.0	0.125	3.0	2.1	1.5	150	7-1/2-9-1/2	3/4 x 18 x 3	54
RSA 20 5E	20	5.0 x 20.0	0.156	4.7	3.4	2.6	150	7-1/2-9-1/2	3/4 x 18 x 3	68
RSA 20 5G	20	5.0 x 20.0	0.188	6.4	4.8	3.6	150	7-1/2-9-1/2	3/4 x 18 x 3	82
RSA 20 6E	20	6.0 x 20.0	0.156	9.3	7.1	5.5	175	8-3/4-10-1/4	3/4 x 30 x 3	95
RSA 20 6G	20	6.0 x 20.0	0.188	11.8	9.1	7.1	200	8-3/4-10-1/4	3/4 x 30 x 3	110
RSA 25 4-5G	25	4.5 x 25.0	0.188	1.3	—	—	100	7-1/8-8-3/8	3/4 x 18 x 3	89
RSA 25 6E	25	6.0 x 25.0	0.156	5.2	3.8	2.8	150	8-3/4-10-1/4	3/4 x 30 x 3	108
RSA 25 6G	25	6.0 x 25.0	0.188	7.1	5.3	4.0	150	8-3/4-10-1/4	3/4 x 30 x 3	128
RSA 30 6G	30	6.0 x 30.0	0.188	3.5	2.4	1.6	200	8-3/4-10-1/4	3/4 x 30 x 3	146

Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Warehouse anchor bolt description	Template number
4"	6½"-8¼"	3¼"	8¾"	ABRSA-4	AB18-0	PJ50057
4½"	7⅛"-8⅜"	3¼"	8½"	ABRSA-4-5	AB18-0	PJ50040
5"	7½"-9½"	3¼"	9¼"	ABRSA-5	AB18-0	PJ50058
6"	8¾"-10¼"	3½"	10¼"	ABRSA-6	AB30-0	PJ50059

Features

Shaft – The shaft is spun tapered from seamless 6063 alloy aluminum tubing and is heat-treated to produce a T6 temper. The shaft is cone tapered to the butt diameter.

Anchor Base – Cast from A356 alloy aluminum, the anchor base is heat-treated to a T6 condition. The anchor base telescopes the pole shaft and is circumferentially welded top and bottom.

Anchor Bolts – Top 12" galvanized per ASTM A-153. Made of steel rod having a

minimum yield strength of 55,000 PSI.

Grounding – A ground lug located immediately inside the hand hole is tapped round bolt (by others).

Hand hole – A nominal 3"x5" or 4"x6" reinforced flushed covered hand hole is centered 18" above the base.

Hardware – All screws, nuts and bolts are made of stainless steel.

Top Cap – Cast-aluminum cap is provided for drill-mount poles.

Finish – Standard finish is brushed aluminum. Optional polyester powder paint and

anodized finishes available.

Bolt Covers – A356 nut covers shall be included with each anchor base unless otherwise specified.

Technical Information

EPA (ft²) with 1.3 gust

Catalog number	Nom. mount ht. (ft.)	Pole shaft size (in. x in. x ft.)	Wall thickness (in.)	80 mph	90 mph	100 mph	Max. wt.	Bolt circle (in.)	Bolt size (in. x in. x in.)	Approx ship wt. (lbs.)
RTA 205C	20	5 x 3 x 19'8"	0.125	3.9	2.5	1.6	100	7-1/2-9-1/2	3/4 x 18 x 3	62
RTA 205G	20	5 x 3 x 19'8"	0.188	7.4	5.2	3.8	100	7-1/2-9-1/2	3/4 x 18 x 3	72
RTA 206G	20	6 x 4 x 19'8"	0.188	12.2	9.2	7.2	214	9-10	3/4 x 30 x 3	107
RTA 207E	20	7 x 4 x 19'8"	0.156	15.0	11.4	9.0	256	9-7/8-11-1/4	1 x 36 x 4	103
RTA 256E	25	6 x 4 x 24' 8"	0.156	5.3	3.6	2.6	114	9-10	3/4 x 30 x 3	106
RTA 257E	25	7 x 4 x 24' 8"	0.156	9.5	7.0	5.4	162	9-7/8-11-1/4	1 x 36 x 4	120
RTA 258E	25	8 x 4.5 x 24' 8"	0.156	14.2	10.9	8.5	220	11-12	1 x 36 x 4	130
RTA 258G	25	8 x 4.5 x 24' 8"	0.188	18.0	13.8	10.9	261	11-12	1 x 36 x 4	153
RTA 307E	30	7 x 4 x 29'8"	0.156	5.5	3.8	2.7	111	9-7/8-11-1/4	1 x 36 x 4	135
RTA 308E	30	8 x 4.5 x 29'8"	0.156	9.4	7.0	5.3	151	11-12	1 x 36 x 4	150
RTA 308G	30	8 x 4.5 x 29'8"	0.188	12.4	9.4	7.3	179	11-12	1 x 36 x 4	175
RTA 3010G	30	10 x 6 x 29'8"	0.188	23.8	18.3	14.3	377	14-1/4-16-1/4	1 x 40 x 4	235
RTA 358E	35	8 x 4.5 x 34'8"	0.156	5.8	4.1	2.9	119	11-12	1 x 36 x 4	185
RTA 358G	35	8 x 4.5 x 34'8"	0.188	8.3	6.0	4.5	141	11-12	1 x 36 x 4	220
RTA 358J	35	8 x 4.5 x 34'8"	0.250	12.9	9.7	7.5	183	11-12	1 x 36 x 4	251
RTA 3510G	35	10 x 6 x 34'8"	0.188	17.9	13.6	10.4	295	14-1/4-16-1/4	1 x 40 x 4	268
RTA 398G	39	8 x 4.5 x 38'8"	0.188	5.6	3.9	2.7	122	11-12	1 x 36 x 4	250
RTA 398J	39	8 x 4.5 x 38'8"	0.250	9.7	7.1	5.4	158	11-12	1 x 36 x 4	280
RTA 3910G	39	10 x 6 x 38'8"	0.188	14.2	10.5	7.8	253	14-1/4-16-1/4	1 x 40 x 4	295
RTA 3910J	39	10 x 6 x 38'8"	0.250	20.4	15.5	11.9	300	14-1/2-16	1-1/4 x 48 x 5	373

Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Warehouse anchor bolt description	Template number
5"	7 1/2"–9 1/2"	3 1/4"	9 1/4"	ABRTA-5	AB18-0	PJ50032
6"	9"–10"	3 1/2"	10"	ABRTA-6	AB30-0	PJ50033
7"	9 7/8"–11 1/4"	4 1/8"	10 1/2"	ABRTA-7	AB36-0	PJ50034
8"	11-12"	4 1/4"	11 1/2"	ABRTA-8	AB36-0	PJ50035
10"G	14 1/4"–16 1/4"	4 1/2"	14 1/2"	ABRTA-10G	N/A	PJ50036
10"J	14 1/2"–16"	5"	14 1/2"	ABRTA-10J	N/A	PJ50063

NOTES:

- 1 Mounting Arrangement: (PT) Open Top; (T20) 2 3/8" OD (2" NPS)
- 2 Drill Mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- 3 Options: See page 509.
- 4 Brackets: See page 511.

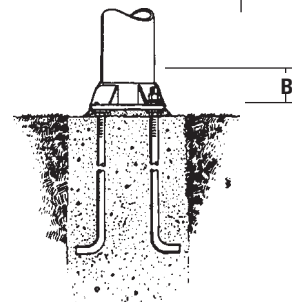
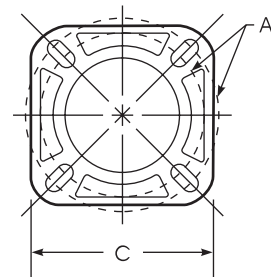
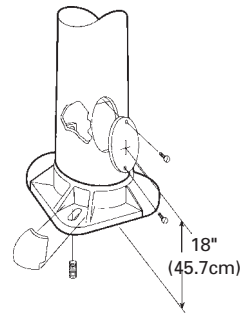
Ordering Information: See page 494 (Note: Poles are available only in U.S.)

INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.



RSAH

Features

Shaft – One-piece extruded 6063 aluminum alloy with a T6 temper. Circumferential satin-brushed finish. The round, straight tube is uniform in cross-section down the length of the shaft.

Hinged Anchor Base – Cast from A356 aluminum alloy, the anchor base is heat-treated to a T6 temper. The shaft inserts into the tilting section of the hinged base and is joined together by continuous circumferential welds at the outside top and inside bottom. The tilting and anchored

sections of the hinged base are joined by a 3/4" diameter solid aluminum pivot rod. The tilting section of the hinged base is held in a vertical position by three 1/2"-13 x 2 1/2" stainless steel hex head bolts that attach to stainless steel inserts cast into the aluminum base. A cast-aluminum two-piece cover is included.

Anchor Bolts – Top 12" galvanized per ASTM A-153. Made of carbon steel bar having a minimum-yield strength of 55,000 PSI.

Hand hole – Available as an option, and located 90° to the right of the hinge.

Hardware – Stainless steel.

Top Cap – Cast-aluminum cap is provided for drill-mount poles.

Finish – Standard finish is brushed aluminum. Optional polyester powder painted and anodized finishes available.

Ordering Information: See page 494 (Note: Poles are available only in U.S.)

Technical Information

EPA (ft²) with 1.3 gust

INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

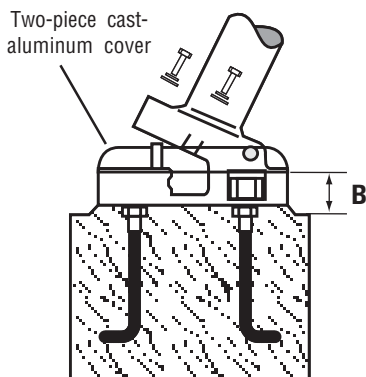
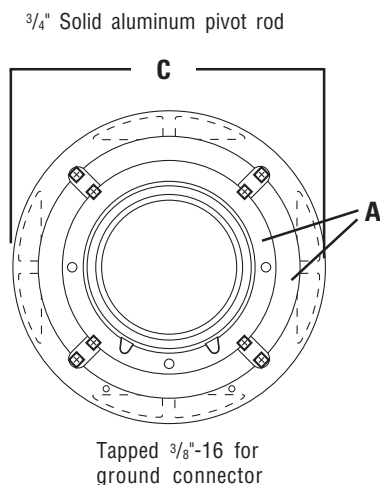
Catalog number	Nom. mount. ht. (ft.)	Pole shaft size (in. x in. x ft.)	Wall thick. (in.)	80 mph	90 mph	100 mph	Max. wt.	Bolt circle (in.)	Bolt size (in. x in. x in.)	Approx. ship wt. (lbs)
RSAH 104C	10	4 x 4 x 10	0.125	8.2	6.1	4.7	100	8-1/2-10	3/4 x 18 x 3	43
RSAH 144C	14	4 x 4 x 14	0.125	4.4	3.0	2.1	100	8-1/2-10	3/4 x 18 x 3	50
RSAH 145E	14	5 x 5 x 14	0.156	10.6	8.2	6.5	100	8-1/2-10	3/4 x 18 x 3	66
RSAH 164C	16	4 x 4 x 16	0.125	3.1	1.9	1.2	100	8-1/2-10	3/4 x 18 x 3	54
RSAH 165C	16	5 x 5 x 16	0.125	6.2	4.7	3.6	100	8-1/2-10	3/4 x 18 x 3	60
RSAH 166E	16	6 x 6 x 16	0.156	13.8	10.7	8.5	100	8-1/2-10	3/4 x 30 x 3	88
RSAH 185C	18	5 x 5 x 18	0.125	4.5	3.3	2.5	130	8-1/2-10	3/4 x 18 x 3	65
RSAH 185G	18	5 x 5 x 18	0.188	8.2	6.2	4.9	130	8-1/2-10	3/4 x 18 x 3	90
RSAH 205C	20	5 x 5 x 20	0.125	3.2	2.2	1.6	130	8-1/2-10	3/4 x 18 x 3	69
RSAH 205G	20	5 x 5 x 20	0.188	6.4	4.8	3.7	130	8-1/2-10	3/4 x 18 x 3	97
RSAH 206G	20	6 x 6 x 20	0.188	11.7	9.0	7.1	130	8-1/2-10	3/4 x 30 x 3	110

Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Warehouse anchor bolt description	Template number
4"	8 1/2" – 10"	3 1/2"	12 5/8"	ABRSAH-4	AB18-0	PJ50060
5"	8 1/2" – 10"	3 1/2"	12 5/8"	ABRSAH-5	AB18-0	PJ50061
6"	8 1/2" – 10"	3 1/2"	12 5/8"	ABRSAH-6	AB30-0	PJ50062

NOTES:

- 1 Mounting arrangement: (PT) Open Top; (T20) 2 3/8" OD (2" NPS)
- 2 Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- 3 Options: See page 509.
- 4 Brackets: See page 511.



Features

Shaft – Square, non-tapered shaft made from extruded 6063-T6 or 6061-T6 aluminum alloy shaft width is 4, 5 or 6 inches. Wall thickness is .125, .188 or .250, depending on mounting height and loading requirements.

Anchor Base – Cast from 356-T6 aluminum alloy. Anchor bolt holes are recessed and covered by aluminum caps.

Anchor Bolts – Top 12" galvanized per ASTM A-153. Made of 3/4" or 1" diameter steel rod having minimum-yield strength of 55,000 psi.

Grounding – Ground lug located immediately inside hand hole is tapped for 3/8"-16 UNC grounding bolt (by others).

Hand hole – Rectangular reinforced hand hole having nominal dimensions 2" x 4" (4" sq.) or 2 1/2" x 4" (5" or 6" sq.). Hand-hole cover plate made from aluminum alloy with attachment hardware provided.

Hardware – All screws, nuts and bolts are made of stainless steel.

Top Cap – Weatherproof, cast-aluminum cap is provided, for drill-mount poles.

Finish – Brushed aluminum is standard; optional polyester powder paint and

anodized finishes available.

Bolt Covers – Nut covers included with each anchor base.

Technical Information

EPA (ft²) with 1.3 gust

Catalog number	Nom. mount. ht. (ft.)	Pole shaft size (in. x in. x ft.)	Wall thick. (in.)	80 mph	90 mph	100 mph	Max. wt.	Bolt circle (in.)	Bolt size (in. x in. x in.)	Approx. ship wt. (lbs.)
SSA 8 4C	8	4.0 x 8.0	0.125	16.5	12.6	9.9	300	8-1/2-9-5/8	3/4 x 18 x 3	32
SSA 10 4C	10	4.0 x 10.0	0.125	11.5	8.6	6.5	230	8-1/2-9-5/8	3/4 x 18 x 3	37
SSA 12 4C	12	4.0 x 12.0	0.125	12.4	9.2	6.9	160	8-1/2-9-5/8	3/4 x 18 x 3	40
SSA 14 4C	14	4.0 x 14.0	0.125	9.3	6.7	4.8	120	8-1/2-9-5/8	3/4 x 18 x 3	50
SSA 15 4C	15	4.0 x 15.0	0.125	8.0	5.6	3.9	100	8-1/2-9-5/8	3/4 x 18 x 3	52
SSA 16 4C	16	4.0 x 16.0	0.125	6.9	4.7	3.1	90	8-1/2-9-5/8	3/4 x 18 x 3	54
SSA 16 4G	16	4.0 x 16.0	0.188	11.8	8.5	6.2	130	8-1/2-9-5/8	3/4 x 30 x 3	74
SSA 16 5G	16	5.0 x 16.0	0.188	15.0	11.1	7.5	280	10-1/2-11-1/2	3/4 x 30 x 3	83
SSA 18 4C	18	4.0 x 18.0	0.125	4.9	3.0	1.7	70	8-1/2-9-5/8	3/4 x 18 x 3	57
SSA 18 4G	18	4.0 x 18.0	0.188	9.2	6.4	4.4	100	8-1/2-9-5/8	3/4 x 30 x 3	80
SSA 18 5G	18	5.0 x 18.0	0.188	16.8	12.2	8.9	230	10-1/2-11-1/2	3/4 x 30 x 3	91
SSA 20 4C	20	4.0 x 20.0	0.125	3.3	1.7	0.5	40	8-1/2-9-5/8	3/4 x 18 x 3	62
SSA 20 4G	20	4.0 x 20.0	0.188	7.0	4.6	2.9	80	8-1/2-9-5/8	3/4 x 30 x 3	85
SSA 20 5G	20	5.0 x 20.0	0.188	13.6	9.5	6.6	180	10-1/2-11-1/2	3/4 x 30 x 3	107
SSA 20 6G	20	6.0 x 20.0	0.188	22.0	15.9	11.6	230	12-13	1 x 36 x 4	155
SSA 20 6J	20	6.0 x 20.0	0.250	30.4	22.6	17.0	300	12-13	1 x 36 x 4	202
SSA 25 5G	25	5.0 x 25.0	0.188	7.2	4.2	2.0	110	10-1/2-11-1/2	3/4 x 30 x 3	130
SSA 25 6G	25	6.0 x 25.0	0.188	13.2	8.6	5.4	180	12-13	1 x 36 x 4	180
SSA 25 6J	25	6.0 x 25.0	0.250	19.7	13.8	9.5	250	12-13	1 x 36 x 4	224
SSA 30 6G	30	6.0 x 30.0	0.188	7.0	3.4	0.8	130	12-13	1 x 36 x 4	210
SSA 30 6J	30	6.0 x 30.0	0.250	12.2	7.5	4.1	170	12-13	1 x 36 x 4	258
SSA 32 6J	32	6.0 x 32.0	0.250	9.7	5.4	2.3	160	12-13	1 x 36 x 4	272
SSA 35 6J	35	6.0 x 35.0	0.250	6.4	2.6	—	200	12-13	1 x 36 x 4	294

Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Warehouse anchor bolt description	Template number
4"C	8 1/2-9 5/8"	3 1/8"	9 15/16"	ABSSA-4C	AB18-0	PJ50045
4"G	8 1/2-9 5/8"	3 1/8"	9 15/16"	ABSSA-4G	AB30-0	PJ50045
5"	10 1/2-11 1/2"	3 1/4"	11 9/16"	ABSSA-5	AB30-0	PJ50046
6"	12"-13"	4"	12 1/4"	ABSSA-6	AB36-0	PJ50044

NOTES:

- 1 Mounting arrangement: (PT) Open top; (T20) 2 3/8" OD (2" NPS)
- 2 Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- 3 Options: See page 509.
- 4 Brackets: See page 511.

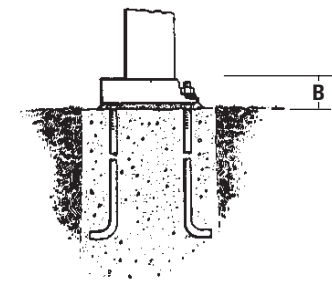
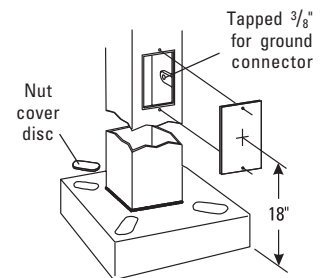
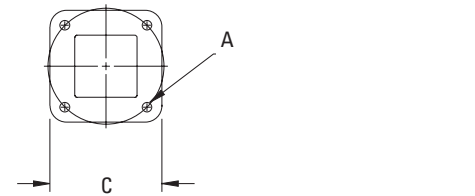
Ordering Information: See page 494 (Note: Poles are available only in U.S.)

INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.



SSAH

Features

Shaft – Square, non-tapered shaft made from extruded 6063-T6 aluminum alloy. Shaft width is 4 or 5 inches. Wall thickness is .125 or .188 depending on mounting height and loading requirements.

Hinged Anchor Base – Cast from A356 aluminum alloy and heat treated to a T6 temper. The shaft inserts into the tilting section of the hinged base and is joined together by continuous circumferential welds at the outside top and inside bottom. The tilting and anchored sections of

Square Straight Aluminum, Hinged

the hinged base is held in a vertical position by three ½"–13 x 2½" stainless steel hex head bolts which attach to stainless steel inserts cast into the aluminum base. A cast-aluminum two-piece cover is included.

Anchor Bolts – Top 12" galvanized per ASTM A-153. Made of ¾" diameter steel rod having minimum-yield strength of 55,000 psi.

Hand hole – Available as an option, and located 90° to the right of the hinge.

Hardware – All screws, nuts and bolts are made of stainless steel.

Top Cap – Weatherproof, cast-aluminum cap is provided, for drill-mount poles.

Finish – Brushed aluminum is standard; optional polyester powder paint and anodized finishes available.

Ordering Information: See page 494 (Note: Poles are available only in U.S.)

INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

NOTES:

- 1 Mounting arrangement: (PT) Open top; (T20) 2³/₈" OD (2" NPS)
- 2 Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- 3 Options: See page 509.
- 4 Brackets: See page 511.

Technical Information

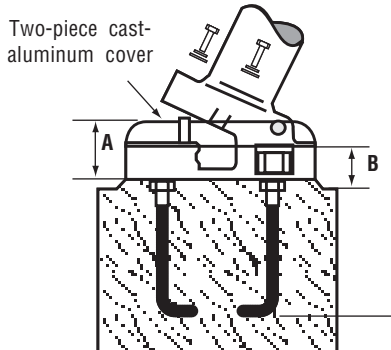
EPA (ft²) with 1.3 gust

Catalog number	Nom. mount. ht. (ft.)	Pole shaft size (in. x in. x ft.)	Wall thick. (in.)	80 mph	90 mph	100 mph	Max. wt.	Bolt circle (in.)	Bolt size (in. x in. x in.)	Approx. ship wt. (lbs.)
SSAH 10 4C	10	4 x 4 x 10	0.125	13.1	9.9	7.5	100	8-1/2-10	3/4 x 18 x 3	48
SSAH 12 4C	12	4 x 4 x 12	0.125	9.6	7.0	5.1	100	8-1/2-10	3/4 x 18 x 3	53
SSAH 14 4C	14	4 x 4 x 14	0.125	7.0	4.9	3.3	100	8-1/2-10	3/4 x 18 x 3	57
SSAH 15 4C	15	4 x 4 x 15	0.125	6.0	4.0	2.6	100	8-1/2-10	3/4 x 18 x 3	60
SSAH 16 4C	16	4 x 4 x 16	0.125	5.0	3.2	1.9	100	8-1/2-10	3/4 x 18 x 3	62
SSAH 16 4G	16	4 x 4 x 16	0.188	8.9	6.2	4.3	150	8-1/2-10	3/4 x 30 x 3	86
SSAH 18 4C	18	4 x 4 x 18	0.125	3.4	1.8	0.7	100	8-1/2-10	3/4 x 18 x 3	67
SSAH 18 4G	18	4 x 4 x 18	0.188	6.8	4.5	2.9	100	8-1/2-10	3/4 x 30 x 3	93
SSAH 18 5G	18	5 x 5 x 18	0.188	12.6	8.8	6.1	150	9-5/16-10	3/4 x 30 x 3	108
SSAH 20 4G	20	4 x 4 x 20	0.188	5.0	3.0	1.6	150	8-1/2-10	3/4 x 30 x 3	100
SSAH 20 5G	20	5 x 5 x 20	0.188	9.9	6.6	4.2	175	9-5/16-10	3/4 x 30 x 3	117

Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Warehouse anchor bolt description	Template number
4"C	8 1/2-10"	3 1/2"	11 11/16"	ABSSAH-4C	AB18-0	PJ50055
4"G	8 1/2-10"	3 1/2"	11 11/16"	ABSSAH-4G	AB30-0	PJ50055
5"	9 5/16-10"	3 1/2"	11 11/16"	ABSSAH-5	AB30-0	PJ50056

Hinge direction
"A" Side of Pole



Features

Shaft – Weldable grade A500 or A513 carbon steel tubing with minimum yield of 46,000 or 42,000 psi. Uniform wall thickness of .120". Shafts are one-piece construction with a full longitudinal weld. The round, straight tube is uniform in cross-section down length of shaft.

Anchor Base – Fabricated from carbon steel plate (ASTM A-36). 3/4" thickness. Base plate and shaft are circumferentially welded at both top and bottom to provide maximum strength at area of critical stress.

Anchor Bolts – Top 12" is galvanized per ASTM A-153. Made of carbon steel bar with minimum-yield strength of 55,000 psi.

Grounding – Nut holder located immediately inside hand hole is tapped for 1/2"-13 UNC ground bolt and nut (provided by others).

Hand hole – Nominal 3"x5" hand hole is located 18" above base. Cover and attachment hardware provided.

Hardware – Fasteners are high-strength galvanized zinc-plated or stainless steel.

Top Cap – Plastic cap is provided for drill-mount poles.

Finish – Dark bronze polyester powder paint (DDB) standard; optional polyester powder paint finishes available.

Base Cover – Full-base cover finished to match pole.

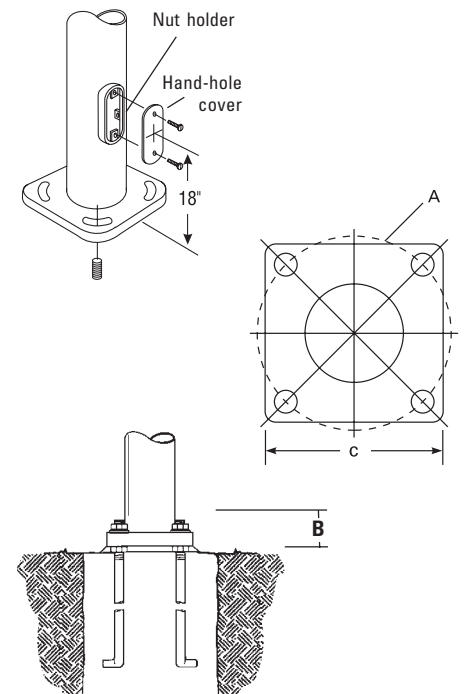
TECHNICAL INFORMATION

EPA (ft²) with 1.3 gust

Catalog Number	Nom. mount. ht. (ft.)	Pole Shaft Size (in. x in. x ft.)	Wall Thick. (in.)	80 mph	Max. wt.	90 mph	Max. wt.	100 mph	Max. wt.	Bolt Circle (in.)	Bolt Size (in. x in. x in.)	Approx. ship wt. (lbs.)
RSS 8 4-5B	8	4.5 x 8.0	0.120	24.5	615	19.5	490	15.8	395	8	3/4 x 18 x 3	55
RSS 10 3B	10	3.0 x 10.0	0.120	10	250	7.7	190	6.0	175	8	3/4 x 18 x 3	55
RSS 10 4B	10	4.0 x 10.0	0.120	19.1	480	15.0	375	12.2	305	8	3/4 x 18 x 3	70
RSS 10 4-5B	10	4.5 x 10.0	0.120	24.5	615	19.5	490	15.8	395	8	3/4 x 18 x 3	75
RSS 12 3B	12	3.0 x 12.0	0.120	7.7	195	5.8	145	4.4	130	8	3/4 x 18 x 3	60
RSS 12 4B	12	4.0 x 12.0	0.120	15.0	390	11.8	300	9.5	240	8	3/4 x 18 x 3	80
RSS 12 4-5B	12	4.5 x 12.0	0.120	19.8	495	15.7	395	12.7	320	8	3/4 x 18 x 3	85
RSS 14 3B	14	3.0 x 14.0	0.120	6.0	175	4.4	130	3.3	90	8	3/4 x 18 x 3	70
RSS 14 4B	14	4.0 x 14.0	0.120	12.2	305	9.4	250	7.6	195	8	3/4 x 18 x 3	90
RSS 14 4-5B	14	4.5 x 14.0	0.120	16.2	405	12.8	320	10.3	260	8	3/4 x 18 x 3	95
RSS 15 4-5B	15	4.5 x 15.0	0.120	13.1	330	10.2	265	8.2	205	8	3/4 x 18 x 3	96
RSS 16 3B	16	3.0 x 16.0	0.120	4.6	125	3.2	100	2.3	60	8	3/4 x 18 x 3	80
RSS 16 4B	16	4.0 x 16.0	0.120	9.6	250	7.4	185	5.9	150	8	3/4 x 18 x 3	100
RSS 16 4-5B	16	4.5 x 16.0	0.120	13.1	330	10.2	265	8.2	205	8	3/4 x 18 x 3	105
RSS 18 3B	18	3.0 x 18.0	0.120	3.4	90	2.3	60	1.4	70	8	3/4 x 18 x 3	90
RSS 18 4B	18	4.0 x 18.0	0.120	7.6	190	5.7	180	4.5	130	8	3/4 x 18 x 3	110
RSS 18 4-5B	18	4.5 x 18.0	0.120	10.5	265	8.2	210	6.5	165	8	3/4 x 18 x 3	115
RSS 20 3B	20	3.0 x 20.0	0.120	2.4	100	1.4	75	—	—	8	3/4 x 18 x 3	100
RSS 20 4B	20	4.0 x 20.0	0.120	6.0	150	4.45	150	3.45	125	8	3/4 x 18 x 3	120
RSS 20 4-5B	20	4.5 x 20.0	0.120	8.5	215	6.6	165	5.2	130	8	3/4 x 18 x 3	130
RSS 20 5B	20	5.0 x 20.0	0.120	11.75	300	9.1	230	7.25	180	8	3/4 x 18 x 3	145
RSS 22 4-5B	22	4.5 x 22.0	0.120	4.8	130	3.6	90	2.7	90	8	3/4 x 18 x 3	134
RSS 25 4B	25	4.0 x 25.0	0.120	2.85	100	1.95	75	1.35	75	8	3/4 x 18 x 3	145
RSS 25 4-5B	25	4.0 x 25.0	0.120	4.8	130	3.6	90	2.7	90	8	3/4 x 18 x 3	145
RSS 25 5B	25	5.0 x 25.0	0.120	7.25	180	5.5	150	4.25	150	8	3/4 x 18 x 3	180
RSS 30 4-5B	30	4.5 x 30.0	0.120	2.3	80	1.5	75	1.0	60	8	3/4 x 18 x 3	185
RSS 30 5B	30	5.0 x 30.0	0.120	4.2	150	3	125	2.25	100	8	3/4 x 18 x 3	210

Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Warehouse anchor bolt description	Template number
3	8"	3 1/4" x 3 1/2"	8"	ABRSS-4	AB18-0	PJ50041
4"	8"	3 1/4" x 3 1/2"	8"	ABRSS-4	AB18-0	PJ50041
4 1/2"	8"	3 1/4" x 3 1/2"	8"	ABRSS-4	AB18-0	PJ50041
5"	8"	3 1/4" x 3 1/2"	8"	ABRSS-4	AB18-0	PJ50041



Ordering Information: See page 494
(Note: Poles are available only in U.S.)

INSTALLATION NOTES:
Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.
Do not erect poles without having fixtures installed.
If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

- NOTES:
1 Mounting arrangement: (PT) Open top accepts KKR; (T20) 2 3/8" OD (2" NPS)
2 Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
3 Options: See page 509.
4 Brackets: See page 511.

RTS

Features

Shaft – Minimum weldable-grade (ASTM A-595 Grade A), hot-rolled, commercial-quality carbon steel tubing with minimum yield of 55,000 psi. Uniform wall thickness of 11-gauge (0.1196") or 7-gauge (0.1793"). Shafts are constructed with full-length, longitudinal, high-frequency resistance welds. Round in cross-section, having uniform taper of approximately .14" per foot.

Anchor Base – Fabricated from hot-rolled carbon steel plate that conforms to ASTM A36.

Round Tapered Steel

Hand hole – Rectangular, reinforced hand-hole rim having nominal dimensions of 3"x5" for shafts less than 6.25" base diameter and 4"x6.5" for all other shafts. Steel cover with attachment screws included. Hand hole is located 18" above base.

Grounding – Nut holder located immediately inside hand-hole rim is tapped for 1/2" – 13 UNC ground bolt and nut (provided by others).

Anchor Bolts – Fabricated from commercial-quality hot-rolled carbon steel with minimum yield strength of 55,000 psi. Bolts have an "L" bend on one end.

Hardware – Fasteners are high-strength galvanized zinc-plated or stainless steel.

Top Cap – Weatherproof removable top cap provided with all drill-mount poles.

Finish – Dark bronze polyester powder finish (DDB) standard; other architectural colors available.

Base Cover – Full-base cover standard.

Ordering Information: See page 494 (Note: Poles are available only in U.S.)

INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

NOTES:

- 1 Mounting Arrangement: (PT) Open Top; (T20) 2 3/8" OD (2" NPS)
- 2 Drill Mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- 3 Options: See page 509.
- 4 Brackets: See page 512.

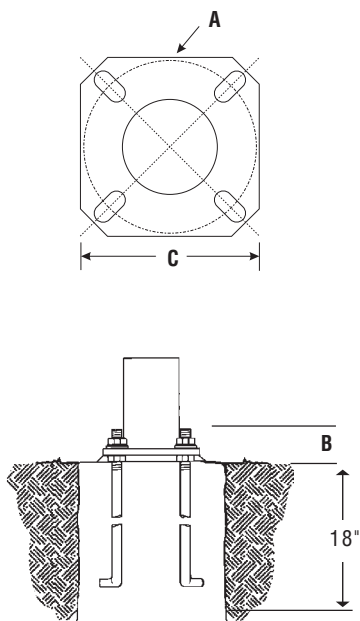
Technical Information

EPA (ft²) with 1.3 gust

Catalog number	Nom. mount. ht. (ft.)	Pole shaft size (in. x in. x ft.)	Wall thick. (in.)	Gauge	80 mph	Max. wt.	90 mph	Max. wt.	100 mph	Max. wt.	Bolt circle (in.)	Bolt size (in. x in. x in.)	Approx. ship wt. (lbs.)
RTS 20 5-9B	20	5.9 x 3.1 x 20	0.125	11	19.3	482	15.1	377	12.2	305	9.0	1 x 36 x 4	140
RTS 20 6-5B	20	6.5 x 3.7 x 20	0.125	11	24.2	605	19.3	482	15.6	390	9.5	1 x 36 x 4	160
RTS 25 5-9B	25	5.9 x 2.4 x 25	0.125	11	12.5	312	9.9	247	8	200	9.0	1 x 36 x 4	155
RTS 25 7-0B	25	7.0 x 3.5 x 25	0.125	11	20.3	507	16.2	405	13.1	327	10.0	1 x 36 x 4	200
RTS 25 7-0F	25	7.0 x 3.5 x 25	0.188	7	28.5	713	22.5	563	18.2	455	10.0	1 x 36 x 4	280
RTS 30 6-6B	30	6.6 x 2.4 x 30	0.125	11	11.7	292	9.3	232	7.5	187	9.5	1 x 36 x 4	200
RTS 30 8-0B	30	8.0 x 3.8 x 30	0.125	11	18.9	473	14.9	373	12	300	11.0	1 x 36 x 4	265
RTS 30 8-0F	30	8.0 x 3.8 x 30	0.188	7	27.5	550	21.6	542	17.5	439	11.0	1-1/4 x 42 x 6	380
RTS 35 7-3B	35	7.3 x 2.4 x 35	0.125	11	11.2	280	8.9	222	7.1	177	10.5	1 x 36 x 4	250
RTS 35 8-5B	35	8.5 x 3.6 x 35	0.125	11	18.9	472	15.1	377	12.2	305	11.5	1 x 36 x 4	315
RTS 35 9-5B	35	9.5 x 4.6 x 35	0.125	11	23.2	580	18.2	455	14.5	363	13.0	1 x 36 x 4	370
RTS 39 7-8B	39	7.8 x 2.4 x 39	0.125	11	10.7	267	8.5	212	6.6	165	11.0	1 x 36 x 4	285
RTS 39 9-0B	39	9.0 x 3.6 x 39	0.125	11	17.2	430	13.5	338	10.8	270	12.5	1 x 36 x 4	355
RTS 39 9-0F	39	9.0 x 3.6 x 39	0.188	7	26.1	654	20.6	517	16.7	419	12.5	1-1/4 x 42 x 6	515
RTS 45 10-0B	45	10.0 x 3.7 x 45	0.125	11	17.4	435	13.5	338	10.6	265	13.5	1 x 36 x 4	450
RTS 45 10-0F	45	10.0 x 3.7 x 45	0.188	7	25.5	639	20.2	505	16.3	409	13.5	1-1/4 x 42 x 6	650
RTS 50 10-0B	50	10.0 x 3.0 x 50	0.125	11	13.2	330	10.6	265	8.3	208	13.5	1 x 36 x 4	475
RTS 50 10-0F	50	10.0 x 3.0 x 50	0.188	7	20.5	512	16.5	412	13.6	340	13.5	1-1/4 x 42 x 6	680

Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Warehouse anchor bolt description	Template number
5.9" B	9"	3 1/2" - 4 1/4"	10"	ABRTS-5-9B	AB36-0	PJ50075
6.5" B	9.5"	3 1/2" - 4 1/4"	10 1/2"	ABRTS-6-5B	AB36-0	PJ50074
7.0" B	10"	3 1/2" - 4 1/4"	10 7/8"	ABRTS-7-0B	AB36-0	PJ50077
7.0" F	10"	3 3/4" - 4 1/2"	10 7/8"	ABRTS-7-0F	AB36-0	PJ50076
6.6" B	9.5"	3 1/2" - 4 1/4"	10 1/2"	ABRTS-6-6B	AB36-0	PJ50078
8.0" B	11"	3 1/2" - 4 1/4"	11 1/2"	ABRTS-8-0B	AB36-0	PJ50079
8.0" F	11"	4 1/2" - 5 1/4"	11 1/2"	ABRTS-8-0F	N/A	PJ50080
7.3" B	10.5"	3 1/2" - 4 1/4"	11 1/4"	ABRTS-7-3B	AB36-0	PJ50081
8.5" B	11.5"	3 3/4" - 4 1/2"	12"	ABRTS-8-5B	AB36-0	PJ50082
9.5" B	13"	3 3/4" - 4 1/2"	13"	ABRTS-9-5B	AB36-0	PJ50083
7.8" B	11"	3 3/4" - 4 1/2"	11 1/2"	ABRTS-7-8B	AB36-0	PJ50084
9.0" B	12.5"	3 3/4" - 4 1/2"	12 3/8"	ABRTS-9-0B	AB36-0	PJ50085
9.0" F	12.5"	4 1/2" - 5 1/4"	12 3/8"	ABRTS-9-0F	N/A	PJ50086
10.0" B	13.5"	3 3/4" - 4 1/2"	14"	ABRTS-10-B	AB36-0	PJ50087
10.0" F	13.5"	4 1/2" - 5 1/4"	14"	ABRTS-10-F	N/A	PJ50088



Features

Shaft – Weldable grade, hot-rolled, commercial-quality carbon steel tubing with a minimum yield of 55,000 psi (11-gauge), 50,000 psi (7-gauge). Uniform wall thickness of .125" or .188". Shaft is one piece with a longitudinal, electric, resistance weld. Uniformly square in cross-section with flat sides, small corner radii and excellent torsional qualities. Available shaft widths are 4, 5 and 6 inches.

Anchor Base – Fabricated from hot-rolled carbon steel plate that meets or exceeds a minimum-yield strength of 36,000 psi. The anchor base is provided with slotted holes.

Anchor Bolts – Top 12" galvanized per ASTM-A153. Made of 3/4" or 1" diameter steel rod having a minimum-yield strength of 55,000 psi.

Grounding – Nut holder located immediately inside hand-hole rim is tapped for a 1/2" – 13 UNC ground bolt and nut (provided by others).

Hand hole – Rectangular, reinforced hand-hole rim having nominal dimensions of 3"x5" for all shafts. Included is steel cover with attachment screws.

Hardware – Fasteners are high-strength, galvanized zinc-plated or stainless steel.

Top Cap – Weatherproof, high-strength plastic cap is provided for drill-mount poles.

Finish – Dark bronze polyester powder paint (DDB) standard; optional polyester powder paint finishes available.

Base Cover – Full-base cover finished to match pole.

Technical Information

EPA (ft²) with 1.3 gust

Catalog Number	Nom. mount. ht. (ft.)	Pole Shaft Size (in. x in. x ft.)	Wall Thick. (in.)	Gauge	80 mph	Max. wt.	90 mph	Max. wt.	100 mph	Max. wt.	Bolt Circle (in.)	Bolt Size (in. x in. x in.)	Approx. ship wt. (lbs.)
SSS 10 4C	10	4.0 x 10.0	0.125	11	30.6	765	23.8	595	18.9	473	8-9	3/4 x 18 x 3	75
SSS 12 4C	12	4.0 x 12.0	0.125	11	24.4	610	18.8	470	14.8	370	8-9	3/4 x 18 x 3	90
SSS 14 4C	14	4.0 x 14.0	0.125	11	19.9	498	15.1	378	11.7	293	8-9	3/4 x 18 x 3	100
SSS 16 4C	16	4.0 x 16.0	0.125	11	15.9	398	11.8	295	8.9	223	8-9	3/4 x 18 x 3	115
SSS 18 4C	18	4.0 x 18.0	0.125	11	12.6	315	9.2	230	6.7	168	8-9	3/4 x 18 x 3	125
SSS 20 4C	20	4.0 x 20.0	0.125	11	9.6	240	6.7	167	4.5	150	8-9	3/4 x 18 x 3	140
SSS 20 4G	20	4.0 x 20.0	0.188	7	16.5	415	12.25	310	9.3	240	8-9	3/4 x 30 x 3	198
SSS 20 5C	20	5.0 x 20.0	0.125	11	17.7	443	12.7	343	9.4	235	10-12	1 x 36 x 4	185
SSS 20 5G	20	5.0 x 20.0	0.188	7	28.1	703	21.4	535	16.2	405	10-12	1 x 36 x 4	265
SSS 25 4C	25	4.0 x 25.0	0.125	11	4.8	150	2.6	100	1.0	50	8-9	3/4 x 18 x 3	170
SSS 25 4G	25	4.0 x 25.0	0.188	7	10.8	270	7.7	188	5.4	135	8-9	3/4 x 30 x 3	245
SSS 25 5C	25	5.0 x 25.0	0.125	11	9.8	245	6.3	157	3.7	150	10-12	1 x 36 x 4	225
SSS 25 5G	25	5.0 x 25.0	0.188	7	18.0	350	12.6	350	9.0	250	10-12	1 x 36 x 4	320
SSS 30 4G	30	4.0 x 30.0	0.188	7	6.4	160	4.0	100	2.3	58	8-9	3/4 x 30 x 3	295
SSS 30 5C	30	5.0 x 30.0	0.125	11	4.7	150	2.0	50	—	—	10-12	1 x 36 x 4	265
SSS 30 5G	30	5.0 x 30.0	0.188	7	10.7	267	6.7	167	3.9	100	10-12	1 x 36 x 4	380
SSS 30 6G	30	6.0 x 30.0	0.188	7	15.7	392	10.2	257	6.4	160	11-13	1 x 36 x 4	520
SSS 35 5G	35	5.0 x 35.0	0.188	7	5.9	150	2.5	100	—	—	10-12	1 x 36 x 4	440
SSS 35 6G	35	6.0 x 35.0	0.188	7	9.5	237	5.0	150	1.8	50	11-13	1 x 36 x 4	540
SSS 39 6G	39	6.0 x 39.0	0.188	7	5.1	128	1.3	33	—	—	11-13	1 x 36 x 4	605

Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square	Anchor bolt description	Warehouse anchor bolt description	Template number
4"C	8 1/2"	2 3/4" - 4"	8"	ABSSS-4C	AB18-0	PJ50004
4"G	8 1/2"	2 3/4" - 4"	8"	ABSSS-4G	AB30-0	PJ50004
5"	10" - 12"	3 3/8" - 4"	11"	ABSSS-5	AB36-0	PJ50010
6"	11" - 13"	3 3/8" - 4"	12 1/2"	ABSSS-6	AB36-0	PJ50011

NOTES:

- 1 Mounting Arrangement: (PT) Open Top; (T20) 2 3/8" OD (2" NPS)
- 2 Drill Mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- 3 Options: See page 509.
- 4 Brackets: See page 512.

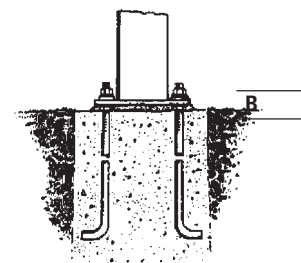
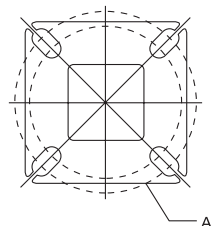
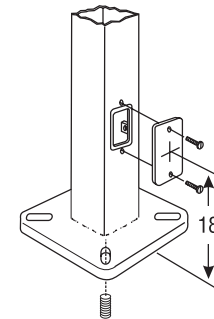
Ordering Information: See page 494 (Note: Poles are available only in U.S.)

INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.



STS

Features

Shaft – Minimum weldable-grade (ASTM A-595 Grade A) hot-rolled commercial-quality carbon steel tubing with minimum yield of 55,000 psi. Uniform wall thickness of 11-gauge (0.1196") or 7-gauge (0.1793"). Shafts are constructed with full-length longitudinal high-frequency resistance welds and are round in cross-section, having a uniform taper of approximately .11" per foot.

Anchor Base – Fabricated from hot-rolled carbon steel plate that conforms with ASTM A36.

Square Tapered Steel

Anchor Bolts – Fabricated from commercial-quality, hot-rolled carbon steel with minimum-yield strength of 55,000 psi. Bolts have an "L" bend on one end.

Grounding – Nut holder located immediately inside hand-hole rim is tapped for a ½" – 13 UNC ground bolt and nut (provided by others).

Hand hole – Rectangular, reinforced hand-hole rim having nominal dimensions of 3"x5" for shafts less than 6.375" square and 4"x6.5" for all other shafts. Steel cover with attachment screws included. Hand hole is located 18" above base.

Hardware – Fasteners are high-strength galvanized zinc-plated or stainless steel.

Top Cap – Weatherproof, removable top cap provided with all drill-mount poles.

Finish – Dark bronze polyester powder finish (DDB) standard; other architectural colors available.

Base Cover – Full-base cover standard.

Ordering Information: See page 494 (Note: Poles are available only in U.S.)

INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

NOTES:

- 1 Mounting Arrangement: (PT) Open Top; (T20) 2½" OD (2" NPS)
- 2 Drill Mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- 3 Options: See page 509.
- 4 Brackets: See page 512.

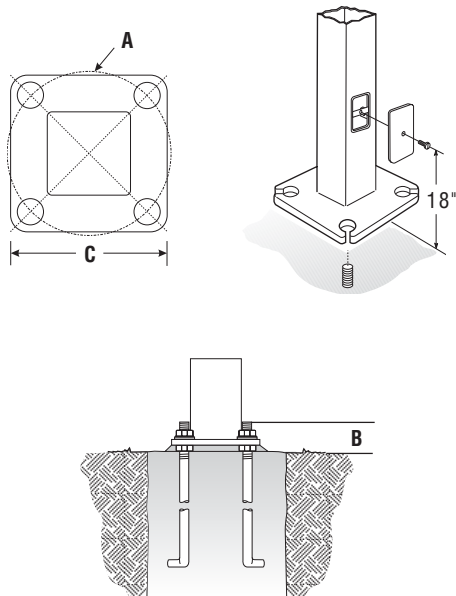
Technical Information

EPA (ft²) with 1.3 gust

Catalog number	Nom. mount. ht. (ft.)	Pole shaft size (in. x in. x ft.)	Wall thick. (in.)	Gauge	80 mph	Max. wt.	90 mph	Max. wt.	100 mph	Max. wt.	Bolt circle (in.)	Bolt size (in. x in. x in.)	Approx. ship wt. (lbs.)
STS 20 5-2B	20	5.25 x 3.05 x 20	0.125	11	18.0	452	13.8	345	10.7	268	10-3/4	1 x 36 x 4	155
STS 20 5-5F	20	5.50 x 3.30 x 20	0.188	7	30.5	764	24.0	602	19.0	477	11	1 x 36 x 4	235
STS 25 6-0B	25	6.00 x 3.25 x 25	0.125	11	16.8	422	12.6	315	9.5	238	12	1 x 36 x 4	205
STS 25 6-4F	25	6.41 x 3.66 x 25	0.188	7	28.5	713	22.5	563	18.2	455	12-1/2	1 x 36 x 4	310
STS 30 6-4B	30	6.41 x 3.11 x 30	0.125	11	13.6	340	9.8	245	7.0	175	12-1/2	1 x 36 x 4	260
STS 30 6-4F	30	6.41 x 3.11 x 30	0.188	7	23.6	590	17.9	448	13.7	343	12-1/2	1 x 36 x 4	375
STS 35 6-8B	35	6.81 x 2.96 x 35	0.125	11	10.7	269	7.3	184	4.8	120	13	1 x 36 x 4	305
STS 35 7-1F	35	7.13 x 3.28 x 35	0.188	7	23.4	585	17.4	435	13.0	325	13-1/2	1 x 36 x 4	475
STS 39 7-1B	39	7.18 x 2.92 x 39	0.125	11	8.6	215	5.4	135	3.0	75	13-1/2	1 x 36 x 4	345
STS 39 7-1F	39	7.13 x 2.87 x 39	0.188	7	19.3	483	14.2	355	10.4	260	13-1/2	1 x 36 x 4	500
STS 45 7-8F	45	7.88 x 2.93 x 45	0.188	7	16.0	400	11.1	278	7.4	187	14-1/2	1 x 36 x 4	620
STS 45 8-7F	45	8.75 x 3.80 x 45	0.188	7	23.5	588	16.6	415	11.4	287	15-3/4	1-1/4 x 42 x 6	730
STS 50 8-8F	50	8.81 x 3.31 x 50	0.188	7	19.4	485	13.2	332	8.7	218	16	1-1/4 x 42 x 6	780

Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Warehouse anchor bolt description	Template number
5.2" B	10¾"	3½"-4¼"	10¾"	ABSTS-5-2B	AB36-0	PJ50095
5.5" F	11"	3¾"-4½"	11"	ABSTS-5-5F	AB36-0	PJ50096
6.0" B	12"	3½"-4¼"	11½"	ABSTS-6-0B	AB36-0	PJ50097
6.4" F	12½"	4"-4¾"	11⅞"	ABSTS-6-4F	AB36-0	PJ50098
6.4" B	12½"	3½"-4¼"	11⅞"	ABSTS-6-4B	AB36-0	PJ50099
6.8" B	13"	3½"-4¼"	12¼"	ABSTS-6-8B	AB36-0	PJ50101
7.1" F	13½"	4¼"-5"	12⅝"	ABSTS-7-1F	AB36-0	PJ50102
7.1" B	13½"	3½"-4¼"	12⅝"	ABSTS-7-1B	AB36-0	PJ50103
7.8" F	14½"	4"-4¾"	13⅜"	ABSTS-7-8F	AB36-0	PJ50105
8.7" F	15¾"	4¾"-5½"	14¼"	ABSTS-8-7F	N/A	PJ50106
8.8" F	16"	4½"-5¼"	15½"	ABSTS-8-8F	N/A	PJ50107



STSH

Features

Shaft – Weldable-grade, hot-rolled, commercial-quality carbon steel having a guaranteed minimum yield strength of 55,000 psi and is supplied in 11-gauge (.1196") or 7-gauge (.1793") nominal thickness. Pole is one-piece construction with full-length, longitudinal, high-frequency, electric-resistance weld. Shaft is square in cross section having flat sides, radiused corners, and uniform taper of approximately 0.11 inches per foot of length (4-inch square poles are not tapered).

Hinge – The hinge includes a stainless

steel hinge pin. A flexible wiring guide is provided, passing through the hinge area for wiring protection. Hinge is external.

Anchor Base – Fabricated from hot-rolled carbon steel plate that conforms with ASTM A36.

Anchor Bolts – Fabricated from commercial-quality, hot-rolled carbon steel with minimum-yield strength of 55,000 psi. Bolts have an "L" bend on one end.

Grounding – Nut holder located immediately inside hand-hole rim is tapped for a 1/2" – 13 UNC ground bolt and nut (provided by others).

Hand hole – Rectangular, reinforced hand-hole rim having nominal dimensions of 3" x 5" for shafts less than 6.375" square and 4" x 6.5" for all other shafts. Steel cover with attachment screws included. Hand hole is located 18" above base.

Hardware – Fasteners are high-strength, galvanized zinc-plated or stainless steel.

Top Cap – Weatherproof, removable top cap provided with all drill-mount poles.

Finish – Dark bronze polyester powder finish (DDB) standard; other architectural colors available.

Base Cover – Full-base cover is provided.

Technical Information

EPA (ft²) with 1.3 gust

Catalog Number (pounds)	Nom. mount. ht. (ft.)	Pole shaft size (in. x in. x ft.)	Wall thick. (in.)	Gauge	80 mph	Max. wt.	90 mph	Max. wt.	100 mph	Max. wt.	Bolt circle (in.)	Bolt size (in. x in. x in.)	Approx. ship . wt
STSH 20 4F	20	4 x 4 x 20	0.188	7	11.6	217	8.5	217	6.2	217	8-1/2-10	3/4 x 18 x 3	300
STSH 25 4B	25	4 x 4 x 25	0.125	11	7.1	160	4.8	160	3.1	160	8-1/2-10	3/4 x 18 x 3	370
STSH 25 6-4B	25	6.41 x 3.63 x 25	0.125	11	18.0	254	13.0	254	9.3	254	12-1/2	1 x 36 x 4	355
STSH 30 4F	30	4 x 4 x 30	0.188	7	4.0	120	2.1	120	0.8	120	8-1/2-10	3/4 x 18 x 3	435
STSH 30 6-4B	30	6.41 x 3.08 x 30	0.125	11	12.5	230	8.3	230	5.1	230	12-1/2	1 x 36 x 4	440
STSH 35 7-1B	35	7.18 x 2.88 x 35	0.125	11	7.1	160	3.2	160	—	—	13-1/2	1 x 36 x 4	540
STSH 35 7-1F	35	7.13 x 2.87 x 35	0.188	7	22.0	155	16.9	155	12.1	155	13-1/2	1 x 36 x 4	700
STSH 39 7-1F	39	7.13 x 2.87 x 39	0.188	7	19.5	110	13.5	110	9.2	110	13-1/2	1 x 36 x 4	740

Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Warehouse anchor bolt description	Template number
4.0" F	8 1/2"-10"	3 1/2"-4 1/4"	9 3/4"	ABSTSH4F	AB18-0	PJ50091
6.4" B	12 1/2"	3 3/4"-4 1/2"	11 7/8"	ABSTSH6-4B	AB36-0	PJ50092
7.1" F	13 1/2"	4"-4 3/4"	12 5/8"	ABSTSH7-1F	AB36-0	PJ50093
7.1" B	13 1/2"	3 1/2"-4 1/4"	12 5/8"	ABSTSH7-1B	AB36-0	PJ50094

Winch Ordering

Family	Winch	Shaft size	Order nomenclature
STSH	WCH	4F	STSHWCH 4F
		6-4B	STSHWCH 6-4B
		7-1B	STSHWCH 7-1B
		7-1F	STSHWCH 7-1F

Ordering Information: See page 494 (Note: Poles are available only in U.S.)

INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

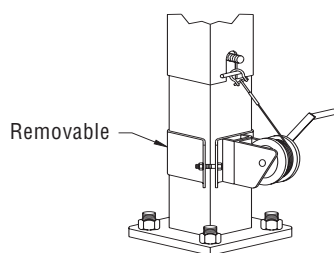
Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

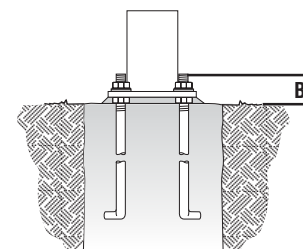
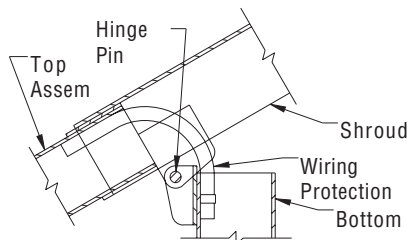
NOTES:

- 1 Mounting arrangement: (PT) Open top; (T20) 2 3/8" OD (2" NPS).
- 2 Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°.
- 3 Options: See page 509.
- 4 Brackets: See page 512.

Winch Detail (accessory)



External Hinge Detail



SPRTS

Features

Shaft – The cross section shall be round or 16-sided with a 4" bend radius. Each pole is a constant tapered hollow steel section and shall be up to 55 feet in length with a minimum 1½ times diameter slip joint as standard. The pole shaft sections shall be high-strength low-alloy steel conforming to ASTM A572 Grade 65 or ASTM A595 Grade A. The plate shall be single thickness – no laminations.

Round Tapered Steel

Anchor Base – Fabricated from hot-rolled carbon steel plate that conforms to ASTM A36 or ASTM A572 Grade 42.

Hand hole – An oval, reinforced hand-hole rim having a nominal dimension of 4"x6.5". Steel cover with attachment screws included. Hand hole is located 18" above base.

Grounding – Nut holder located immediately inside hand-hole rim is tapped for ½" – 13 UNC ground bolt and nut (provided by others).

Anchor Bolts – Fabricated from commercial-quality hot-rolled carbon steel with minimum-yield strength of 55,000 PSI. Bolts have an "L" bend on one end.

Hardware – Fasteners are high-strength galvanized zinc-plated or stainless steel.

Top Cap – Weatherproof removable top cap provided with all drill-mount poles.

Ordering Information: See page 494
(Note: Poles are available only in U.S.)

INSTALLATION NOTES:

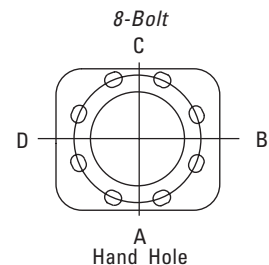
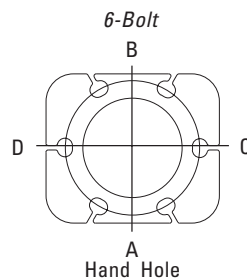
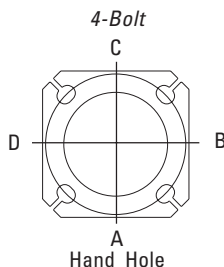
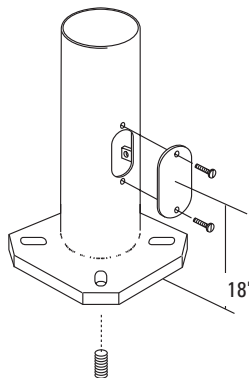
Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

Technical Information

Catalog number	Nom. mount. ht (ft.)	Top Section		Bottom Section		EPA (ft ²) with 1.3 gust								
		Base dia. (in.)	Wall thick. (in.)	Base dia. (in.)	Wall thick. (in.)	80 mph	Max. wt.	90 mph	Max. wt.	100 mph	Max. wt.	Bolt circle (in.)	Bolt size (in. x in. x in.)	Num. of anchor bolts
SPRTS 40 HT01	40	—	—	9	0.1193	17.2	430	13.5	338	10.8	270	12.5	1 x 36 x 4	4
SPRTS 40 HT02	40	—	—	9	0.1793	26.1	654	20.6	517	16.7	419	12.5	1.25 x 42 x 6	4
SPRTS 40 HT03	40	—	—	10	0.1793	38.6	965	30.6	765	24.6	615	13.5	1.25 x 42 x 6	4
SPRTS 50 HT01	50	—	—	10	0.1193	13.2	330	10.6	265	8.3	208	13.5	1 x 36 x 4	4
SPRTS 50 HT02	50	—	—	10	0.1793	20.5	512	16.5	412	13.6	340	13.5	1.25 x 42 x 6	4
SPRTS 50 HT03	50	—	—	11	0.1793	29.9	748	23.5	588	18.6	465	15	1.25 x 42 x 6	4
SPRTS 50 HT04	50	—	—	13	0.1793	50.4	1,260	39.7	992	31.4	785	17	1.50 x 54 x 6	4
SPRTS 50 HT05	50	—	—	13	0.2391	69.2	1,730	55.0	1,375	44.2	1,105	17.5	1.75 x 84 x 6	4
SPRTS 60 HT01	60	5	0.1196	11.5	0.1793	20.0	600	16.0	480	13.0	390	16	1.25 x 42 x 6	4
SPRTS 60 HT02	60	6.5	0.1196	13	0.1793	36.0	1,080	29.0	870	22.0	660	17	1.25 x 42 x 6	6
SPRTS 60 HT03	60	6.6	0.1793	13	0.2391	49.0	1,470	40.0	1,200	32.0	960	17	1.50 x 54 x 6	6
SPRTS 60 HT04	60	12	0.1793	15.87	0.1875	78.0	2,340	62.0	1,860	50.0	1,500	21	1.50 x 54 x 6	6
SPRTS 70 HT01	70	6.6	0.1793	13	0.1793	20.6	515	16.7	417	13.7	342	17	1.50 x 54 x 6	4
SPRTS 70 HT02	70	6.6	0.1793	13	0.2391	23.8	595	19.3	482	15.9	397	17.5	1.75 x 84 x 6	4
SPRTS 70 HT03	70	12	0.1793	14.57	0.1875	39.0	1,170	30.0	900	23.0	690	19	1.25 x 42 x 6	6
SPRTS 70 HT04	70	12	0.1793	15.87	0.1875	52.0	1,560	41.0	1,230	33.0	990	21	1.50 x 54 x 6	6
SPRTS 70 HT05	70	12	0.1793	16.82	0.1875	65.0	1,950	53.0	1,590	42.0	1,260	22.75	1.50 x 54 x 6	6
SPRTS 80 HT01	80	12	0.1793	15.87	0.1875	37.0	1,110	29.0	870	23.0	690	21	1.50 x 54 x 6	6
SPRTS 80 HT02	80	12	0.1793	16.82	0.1875	45.0	1,350	36.0	1,080	28.0	840	22.75	1.50 x 54 x 6	6
SPRTS 80 HT03	80	13	0.1875	17.53	0.2092	58.0	1,740	46.0	1,380	35.0	1,050	23	1.50 x 54 x 6	6
SPRTS 80 HT04	80	12	0.1793	18.7	0.1875	70.0	2,100	56.0	1,680	44.0	1,320	23	1.50 x 54 x 6	8

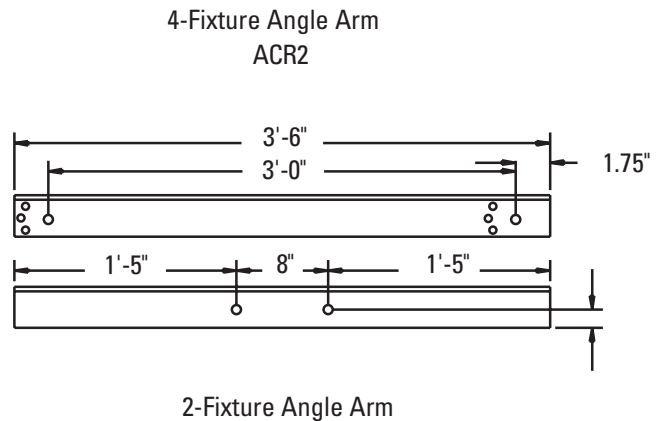
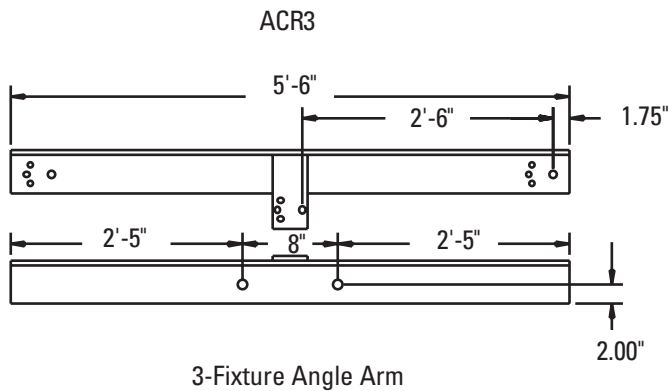
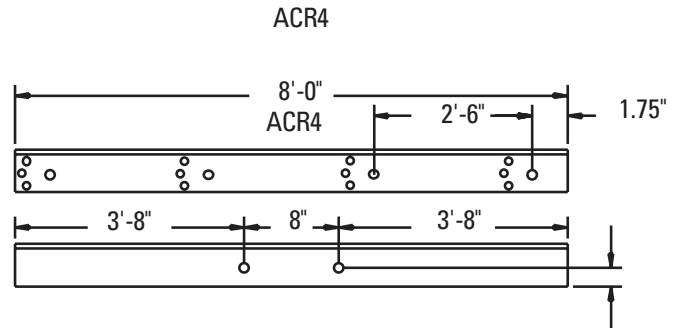
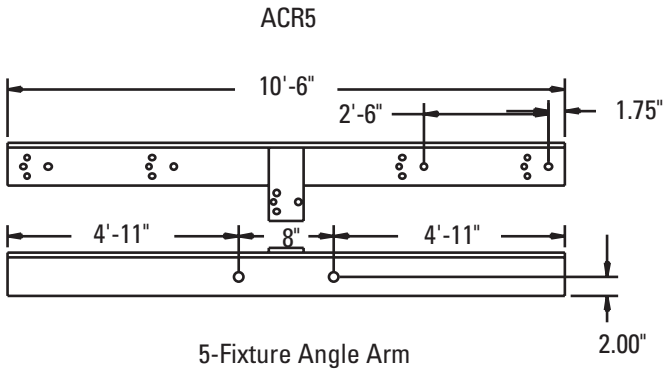
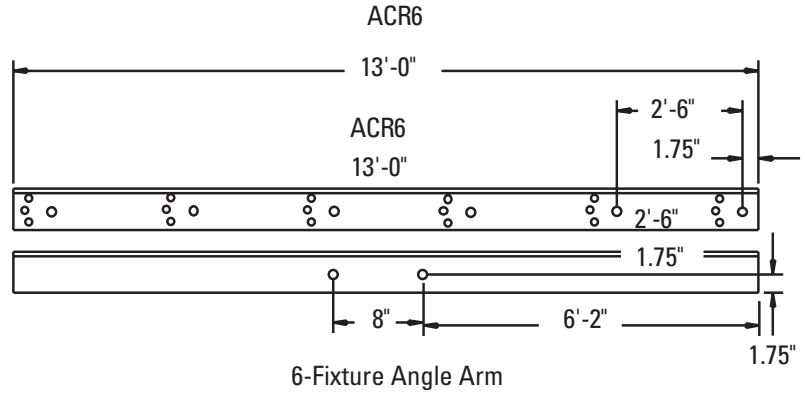


Angle Iron Crossarms for Steel Poles

Projected area is for the crossarm only. The crossarm projected area is added to the luminaire projected area to get a total effective projected area (EPA).

Angle Iron Crossarms for Steel Poles

Catalog number	Arm EPA (sq. ft.)	Weight (lbs.)
ACR2	1.98	34.0
ACR3	3.12	54.0
ACR4	4.53	78.0
ACR5	5.95	103.0
ACR6	7.37	127.0

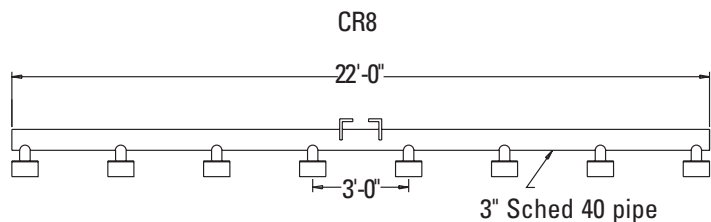


Tubular Crossarms for Steel Poles

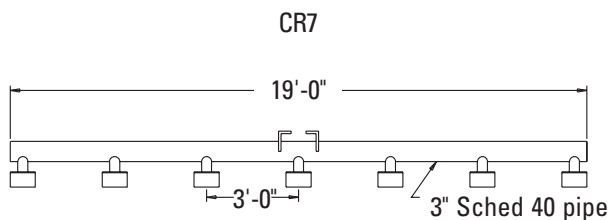
Projected area is for the crossarm only. The crossarm projected area is added to the luminaire projected area to get a total effective projected area (EPA).

Tubular Crossarms for Steel Poles

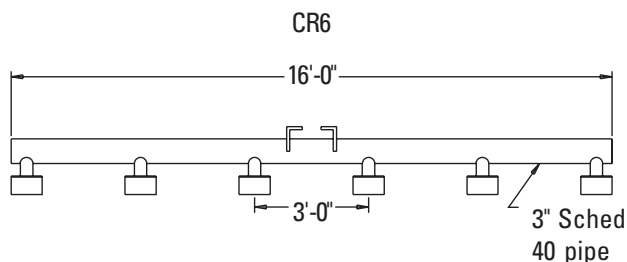
Catalog number	EPA (sq. ft.)	Weight (lbs.)
CR2	1.28	44.0
CR3	2.45	65.0
CR4	3.21	98.0
CR5	4.17	116.0
CR6	5.13	150.0
CR7	6.10	176.0
CR8	7.06	271.0



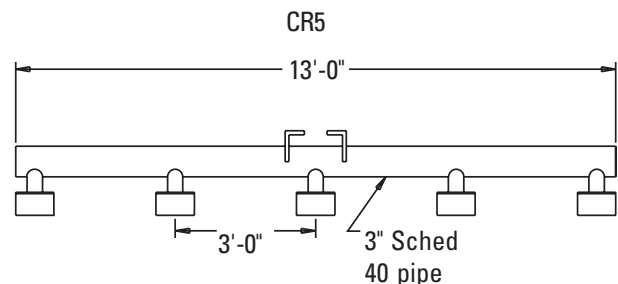
8-Fixture Crossarm



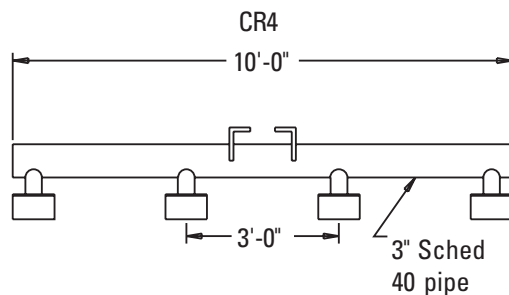
7-Fixture Crossarm



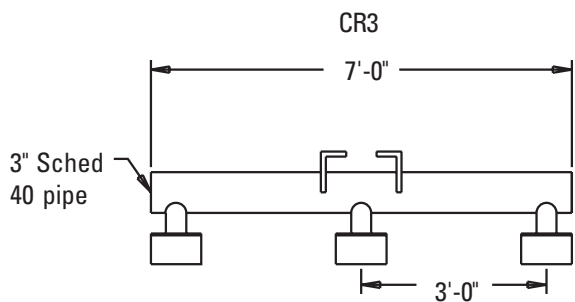
6-Fixture Crossarm



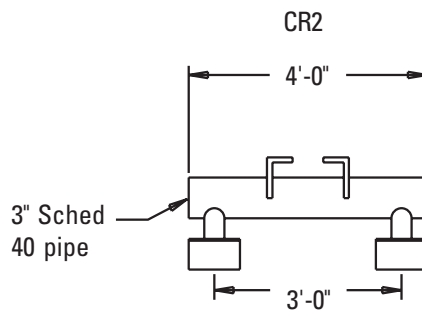
5-Fixture Crossarm



4-Fixture Crossarm



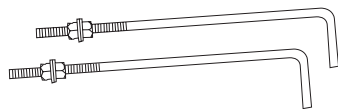
3-Fixture Crossarm



2-Fixture Crossarm

Anchor Bolts

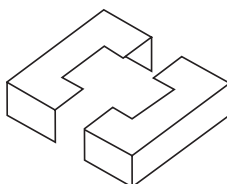
Available in various sizes for use with Lithonia poles. Set includes hex nuts and washers. Anchor bolt is partially galvanized for exposed threads per ASTM-A153. Bolts have minimum-yield strength rating of 55,000 psi, AASHTO M314 GR55. See individual pole catalog pages for anchor bolt sizes and description.



Base Covers

Two-piece, full-base cover. Four fasteners provided to secure pieces together. Finished to match pole. Shipped separately. Standard with steel poles only.

Option	Pole	Dimensions	
		(square)	(depth)
SBC4	SSS 4"	8.75"	x 5.8"
SBC5	SSS 5"	11.44"	x 6.4"
SBC6	SSS 6"	13.5"	x 4"



For full-base cover on other poles, must order FBC. When ordering separately, specify full pole nomenclature; i.e., FBC for RTA 25 7E. Also specify if pole is existing.

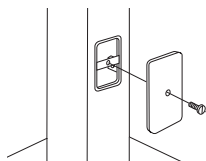
Festoon Outlets

Provision provided for mounting duplex outlet. When ordering, specify location in height and feet above base of pole and orientation from the hand hole.

Option	Description
FDL	Festoon Duplex Outlet, Less Electric

Hand-hole Cover Plates

SSS HHC: For all SSS poles
All other poles order as hand-hole cover for full pole description. Also specify if pole is existing.



Tenon Dimensions

Tenon OD	Tenon Mounting Slipfitters (Order separately)					
	Number of fixtures					
	One	Two@180°	Two@90°	Three@120°	Three@90°	Four@90°
2 ³ / ₈ "	T20-190	T20-280	T20-290	T20-320	T20-390	T20-490
2 ⁷ / ₈ "	T25-190	T25-280	T25-290	T25-320	T25-390	T25-490
4"	T35-190	T35-280	T35-290	T35-320	T35-390	T35-490

Couplings & Nipples

Threaded couplings and/or nipples can be factory installed. When ordering, specify location in height and feet above base of pole and orientation from the hand hole.

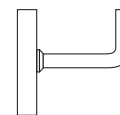
12CP	1/2"	threaded coupling	12NP	1/2"	threaded nipple
34CP	3/4"	threaded coupling	34NP	3/4"	threaded nipple
1CP	1"	threaded coupling	1NP	1"	threaded nipple



Horizontal Arm Bracket

Single or twin side-mounted horizontal arm brackets for additional luminaires. Made from 2³/₈" pipe. Upright is 18" from pole; special arm lengths may be available upon request. Arms are rated for luminaires up to 4.5 sq. ft. EPA and 100 lbs. per arm. When ordering, specify location in height and feet above base of pole and orientation from the hand hole.

Option	EPA Material	Weight	
		(sq. ft.)	(lbs.)
HA	Aluminum	.43	7
	Steel	.50	11
	Fiberglass	.45	8
	Concrete	.55	9

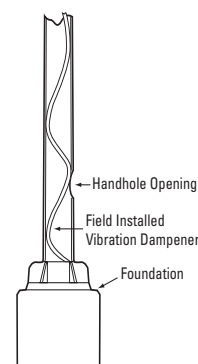


Note: SSS and SSA arm attachment is slightly different from RTA. Arm modifications located on pole to accept arms. Arms shipped as separate item.

VD - Vibration Damper

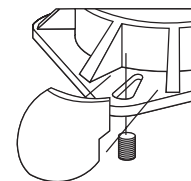
It has been found that low steady winds sometimes induce second mode vibration in lighting poles. Second mode vibration is characterized by the maximum periodic motion occurring at approximately the mid-height of the pole. This type of vibration can result in failure of the pole and/or luminaire. There is no method of predicting destructive light pole vibration.

Note: FVD - Field installable vibrator damper available upon request. Consult factory.



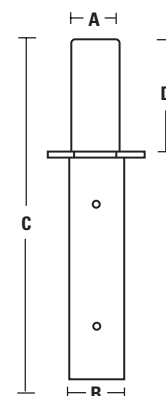
Nut Covers

Four nut covers are standard for RSA and RTA poles only.



Bolt on Tenon Square Steel Poles

Cat. No.	A	B	C	D	Wt. (lbs.)
SBT-4S	2 ³ / ₈ "	3"	13 ³ / ₄ "	5"	7
SBT-5S	2 ³ / ₈ "	4"	13 ³ / ₄ "	5"	8
SBT-6S	2 ³ / ₈ "	5"	13 ³ / ₄ "	5"	17



Tamperproof

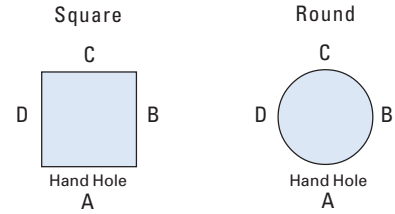
Tamperproof (TP): Order as TP. Tamperproof screws provided with base cover.

The orientation from the hand hole and location from the pole base must be specified when ordering the pole. The orientation from the hand hole is designated by the pole sides A, B, C or D. The location on the pole shaft is designated by the distance from the pole base.

Ordering Information

Options	Height from base (ft.)	Orientation
HA Horizontal arm	Determined by application.	A side of the pole with the hand hole B side of the pole 90 degrees counterclockwise from the hand hole (right) C side of the pole 180 degrees counterclockwise from the hand hole (opposite) D side of the pole 270 degrees counterclockwise (or 90 degrees clockwise) from the hand hole (left)
FDL Festoon outlet- less electrical		
12CP 1/2" coupling		
34CP 3/4" coupling		
1CP 1" coupling		
12NP 1/2" threaded nipple		
34NP 3/4" threaded nipple		
1NP 1" threaded nipple		
HH Extra hand hole, 3 x 5 only		
PT Open top		
T20 2 3/8" tenon		
T25 2 7/8" tenon		
T30 3 1/2" tenon		
T35 4" tenon		

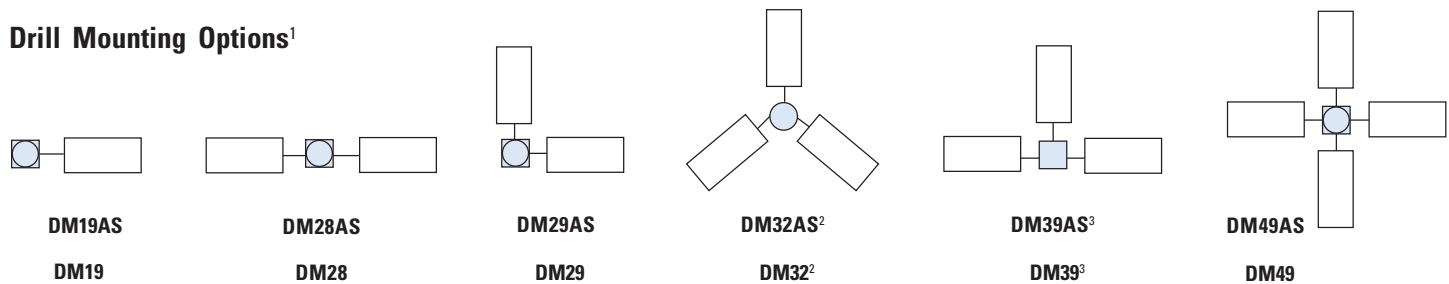
Example: **HA12B**



See the following examples:

- SSS 25 5G with one arm-mount fixture and two floodlights on horizontal arm brackets. Floodlights are to be 180 degrees from each other, 90 degrees from the shoebox and 12 feet above the base.
Order as: **SSS 25 5G DM19 HA12A HA12C**
- RTA 30 8G with two arm-mount fixtures at 180 degrees, one floodlight on a horizontal arm bracket and a 1/2" coupling. Floodlight is to be opposite hand hole and 6 feet from top of pole. Coupling should be 10 feet from top, same side as floodlight.
Order as: **RTA 30 8G HA24C 12CP20C**
- SSS 20 4C with a 2 3/8" tenon and festoon outlet 90 degrees left of the hand hole, 5 feet above the base.
Order as: **SSS 20 4C T20 FDL5D**

Drill Mounting Options¹



NOTES:
 1 AS denotes Aeris luminaire.
 2 Available with round pole only.
 3 Available with square pole only.

Bullhorns and Spokes — order as separate items.

Projected area is for bracket only. Bracket projected area is added to luminaire projected area to get total effective projected area (EPA). All brackets have a luminaire

rating per tenon of 4.5 sq. ft. projected area and 100 lbs. at a wind velocity of 100 mph (luminaire drag coefficient = 1.0).

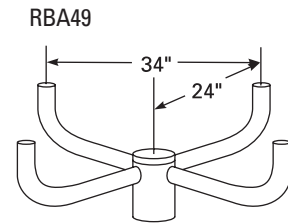
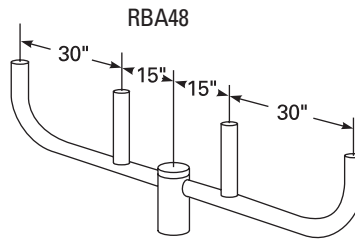
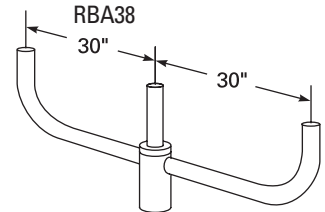
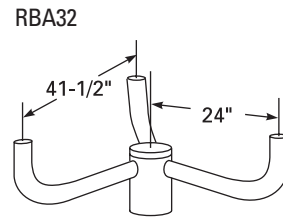
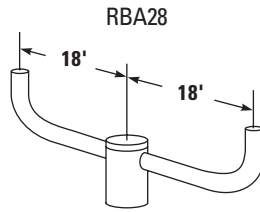
Brackets for Aluminum Poles Only

Finish — Natural aluminum. Optional painted finishes available. Plastic cap supplied.

Round Pole

Brackets mount to T25 tenon 2-7/8" OD.

Catalog Number	EPA (sq. ft.)	Weight (lbs.)
RBA28	1.2	7.0
RBA32	1.7	14.3
RBA38	1.9	10.5
RBA48	2.7	14.5
RBA49	2.2	17.5



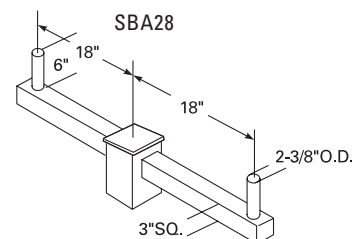
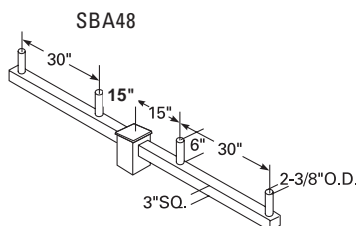
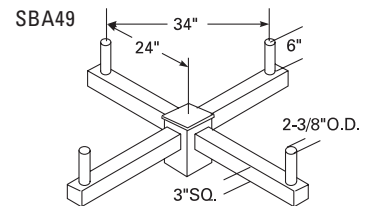
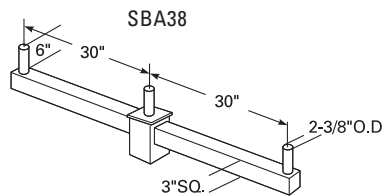
Brackets for Aluminum Poles Only

Finish — Natural aluminum. Optional painted finishes available. Plastic cap supplied.

Square Pole

Brackets flush mount on 4", 5" and 6" square poles. For use with internal sleeve, plain open-top poles, Lithonia Lighting poles only. **Must be ordered with pole to ensure proper fit.**

Catalog Number	EPA (sq. ft.)	Weight (lbs.)
SBA28	0.90	12
SBA38	1.50	17
SBA48	2.25	22
SBA49	1.7	22



Steel Mounting Brackets

Bullhorns and Spokes — Order as separate items.

Projected area is for bracket only. Bracket projected area is added to luminaire projected area to get total effective projected area (EPA). All brackets have a luminaire

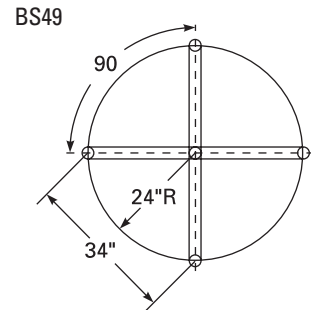
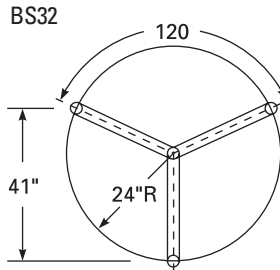
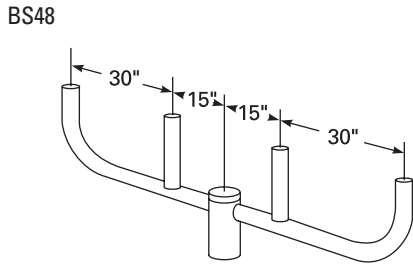
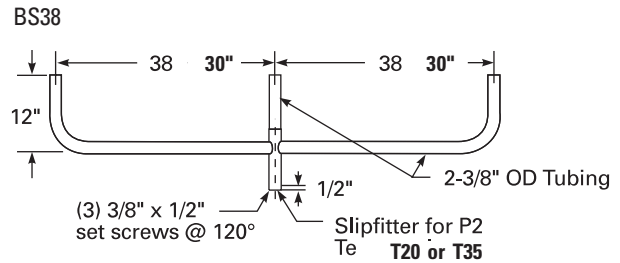
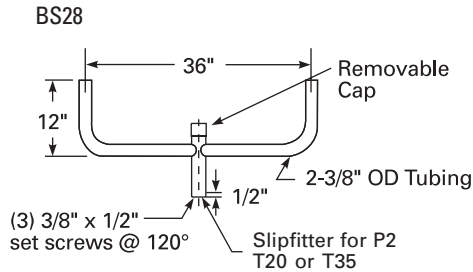
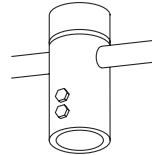
rating per tenon of 4.5 sq. ft. projected area and 100 lbs. at a wind velocity of 100 mph (luminaire drag coefficient = 1.0).

Brackets for Steel Poles Only

Finish — Dark bronze, standard. Other colors available (consult factory). Plastic cap supplied.

Catalog Number	EPA (sq. ft.)	Weight (lbs.)
BS28	1.0	21.0
BS32	1.3	34.0
BS38	1.6	32.0
BS48	2.3	44.0
BS49	1.6	44.0

Standard Hub
 OD 2 7/8" – I.D. 2 1/2"
 Requires T20 Tenon (min. 5" tall)

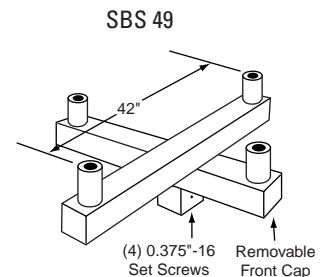
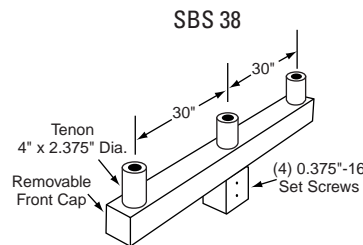
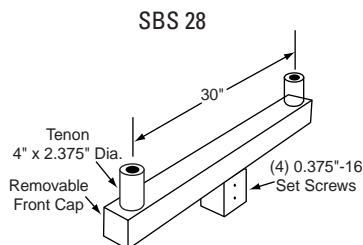


Brackets for Square Steel Poles Only

Requires T20 (2 3/8" max OD) tenon on pole for mounting.

Finish — Dark bronze, standard.

Catalog Number	EPA (sq. ft.)	Weight (lbs.)
SBS 28	1.1	30.0
SBS 38	1.7	42.0
SBS 49	2.1	45.0



Features

Shaft – Constructed by the filament winding process from thermosetting polyester resin and contains a minimum of 65 percent "E" type fiberglass by weight. The filament windings are continuously applied with uniform tension and are placed on the pole helically at low angles to provide axial strength. Additional windings are placed on the pole in a circular manner to provide compressive strength.

Anchor Base – Heavy-duty, A356-T6 aluminum base casting which is permanently bonded to the outside of the fiberglass shaft.

Anchor Bolts – Top 12" galvanized per ASTM A-153. Made of 5/8" or 1" diameter steel rod having a minimum-yield strength of 55,000 psi.

Hand hole – An oval, non-metallic, 2½"x5" hand hole secured with a vandal-resistant, stainless steel ½" socket head screw.

Hardware – Fasteners are high-strength galvanized zinc-plated or stainless steel.

Top Cap – Weatherproof, high-strength plastic cap provided with all drill-mount poles.

Finish – The pole is ultraviolet-resistant and pigmented approximately the same color as the final polyurethane coating. Dark bronze (DDB) is standard.

Technical Information

EPA (ft²) with 1.3 gust

Catalog number	Nom. mount. ht. (ft.)	Pole shaft size (in. x in. x ft.)	80 mph	90 mph	100 mph	Max. wt.	Bolt circle (in.)	Bolt size (in. x in. x in.)	Approx. ship wt. (lbs.)
RTF 105-4X	10	5.4 x 4.1 x 10	19.0	14.6	11.4	150	8	5/8 x 21 x 3	23
RTF 125-6X	12	5.6 x 4.1 x 12	16.0	12.1	9.3	150	8½	5/8 x 21 x 3	28
RTF 145-9X	14	5.9 x 4.1 x 14	14.0	10.4	7.9	150	8½	5/8 x 21 x 3	32
RTF 166-1X	16	6.1 x 4.1 x 16	10.0	7.4	5.5	100	8½	5/8 x 21 x 3	36
RTF 206-6X	20	6.6 x 4.1 x 20	8.2	5.8	4.1	100	9½	5/8 x 21 x 3	45
RTF 207-3X	20	7.3 x 4.6 x 20	14.4	11.1	8.9	200	11½	1 x 30 x 4	62
RTF 256-7X	25	6.7 x 4.1 x 25	5.4	3.4	2.0	100	9½	1 x 30 x 4	55
RTF 257-3X	25	7.3 x 4.6 x 25	9.6	7.3	5.7	200	11½	1 x 30 x 4	75
RTF 308-4X	30	8.4 x 4.6 x 30	11.2	8.5	6.7	100	11½	1 x 30 x 4	106
RTF 308-5X	30	8.5 x 4.8 x 30	15.6	12.0	9.5	200	11½	1 x 30 x 4	140
RTF 3010-5X	30	10.5 x 6.6 x 30	28.7	22.4	17.4	300	14½	1 x 30 x 4	202
RTF 358-4X	35	8.4 x 4.6 x 35	5.5	3.8	2.7	100	11½	1 x 30 x 4	125
RTF 358-5X	35	8.5 x 4.8 x 35	8.5	6.2	4.7	200	11½	1 x 30 x 4	161
RTF 3511-2X	35	11.2 x 6.6 x 35	21.8	16.6	12.5	300	15	1¼ x 36 x 6	248
RTF 4011-7X	40	11.7 x 6.2 x 40	6.4	4.3	2.4	165	15½	1¼ x 36 x 6	165
RTF 4011-8X	40	11.8 x 6.4 x 40	12.2	8.8	6.0	300	15½	1¼ x 36 x 6	227
RTF 4012X	40	12.0 x 6.9 x 40	25.8	19.3	14.3	300	15½	1¼ x 36 x 6	317
RTF 4511-7X	45	11.7 x 6.2 x 45	3.9	2.0	0.6	300	15½	1¼ x 36 x 6	183
RTF 4511-9X	45	11.9 x 6.6 x 45	15.2	10.9	7.6	300	15½	1¼ x 36 x 6	295

Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Template number
5.4"	8"	3"	7.75"	ABRTF-5-4	PJ50108
5.6"	8.5"	3"	8.125"	ABRTF-5-6	PJ50109
5.9"	8.5"	3"	8.125"	ABRTF-5-9	PJ50110
6.1"	8.5"	3"	8.125"	ABRTF-6-1	PJ50111
6.6"	9.5"	3"	8.8"	ABRTF-6-6	PJ50112
6.7"	9.5"	3"	8.8"	ABRTF-6-7	PJ50113
7.3"	11.5"	4"	11"	ABRTF-7-3	PJ50114
8.4"	11.5"	4"	11"	ABRTF-8-4	PJ50115
8.5"	11.5"	4"	11"	ABRTF-8-5	PJ50116
10.5"	14.5"	4"	13.3"	ABRTF-10-5	PJ50117
11.2"	15"	4"	13.5"	ABRTF-11-2	PJ50118
11.7"	15.5"	4"	14"	ABRTF-11-7	PJ50119
11.8"	15.5"	4"	14"	ABRTF-11-8	PJ50120
11.9"	15.5"	4"	14"	ABRTF-11-9	PJ50121
12.0"	15.5"	4"	14"	ABRTF-12-0	PJ50122

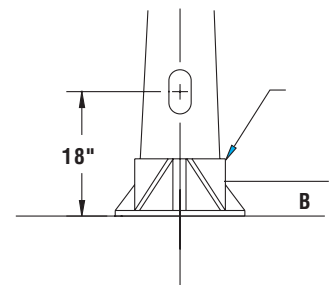
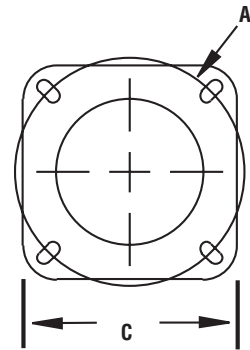
Ordering Information: See page 494 (Note: Poles are available only in U.S.)

INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.



RTFDB

Round Tapered Fiberglass

Features

Shaft – Constructed by the filament winding process from thermosetting polyester resin and contains a minimum of 65 percent "E" type fiberglass by weight. The filament windings are continuously applied with uniform tension and are placed on the pole helically at low angles to provide axial strength. Additional windings are placed on the pole in a circular manner to provide compressive strength.

Hand hole – An oval, non-metallic, 2½"x5" hand hole secured with a vandal-resistant, stainless steel ¼" socket head screw.

Hardware – Fasteners are high-strength galvanized zinc-plated or stainless steel.

Top Cap – Weatherproof, high-strength plastic cap provided with all drill-mount poles.

Finish – Ultraviolet-resistant and pigmented approximately the same color as the final polyurethane coating. Dark bronze (DDB) is standard.

Ordering Information: See page 494
(Note: Poles are available only in U.S.)

INSTALLATION NOTES:

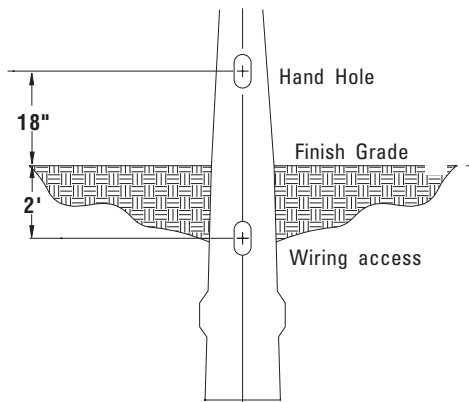
Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

Technical Information

EPA (ft²) with 1.3 gust

Catalog number	Nom. mount. ht. (ft.)	Pole shaft size (in. x in. x ft.)	80 mph	90 mph	100 mph	Max. wt.	Approx. ship wt. (lbs.)
RTFDB 18 6X	14	6.0 x 4.1 x 18	14.0	10.4	7.9	150	34
RTFDB 20 6-6X	16	6.6 x 4.1 x 20	10.0	7.4	5.5	100	38
RTFDB 24 6-7X	20	6.7 x 4.1 x 24	8.2	5.8	4.1	150	46
RTFDB 30 8-3X	25	8.3 x 4.4 x 30	6.2	4.7	3.6	100	71
RTFDB 30 8-4X	25	8.4 x 4.6 x 30	14.5	11.2	8.9	200	98
RTFDB 35 8-4X	30	8.4 x 4.6 x 35	10.5	8.0	6.2	200	116
RTFDB 35 8-5X	30	8.5 x 4.9 x 35	14.8	11.4	9.0	300	153
RTFDB 41 11-8X	35	11.8 x 6.4 x 41	14.3	10.8	7.8	300	218



Features

Shaft – Constructed by the pultrusion process from thermosetting polyester resin and contain a minimum of 65 percent "E" type fiberglass by weight. The fiberglass strands traverse the length of the pole.

Anchor Base – Heavy-duty, A356-T6 aluminum base casting is permanently bonded to the outside of the fiberglass shaft.

Anchor Bolts – Top 12" galvanized per ASTM A-153. Made of 5/8" or 1" diameter steel rod having a minimum-yield strength of 55,000 psi.

Hand hole – An oval, non-metallic, 2½" x 5" hand hole secured with a vandal-resistant, stainless steel ¼" socket head screw.

Hardware – Fasteners are high-strength galvanized zinc-plated or stainless steel.

Top Cap – Weatherproof, high-strength plastic cap provided with all drill-mount poles.

Finish – Ultraviolet-resistant and pigmented approximately the same color as the final polyurethane coating. Dark

bronze (DDB) is standard.

Base Cover – Full base cover finished to match pole.

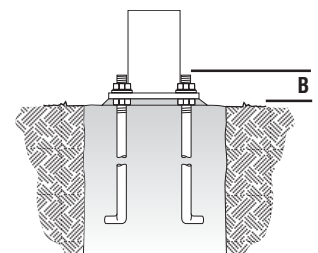
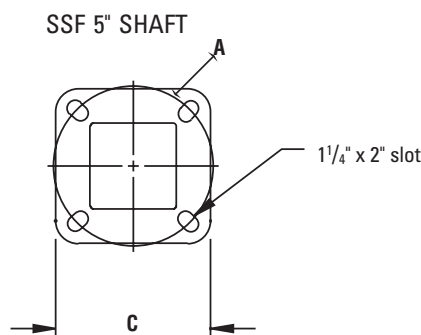
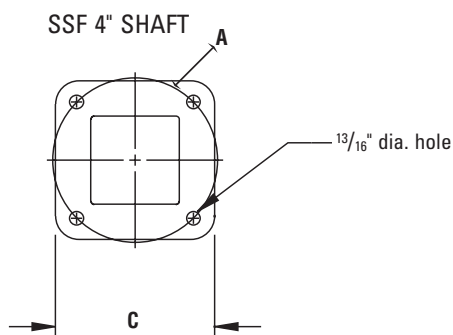
Technical Information

EPA (ft²) with 1.3 gust

Catalog number	Nom. mount. ht. (ft.)	Pole shaft size (in. x in. x ft.)	80 mph	90 mph	100 mph	Max. wt.	Bolt circle (in.)	Bolt size (in. x in. x in.)	Approx. ship wt. (lbs.)
SSF 6 4X	6	4 x 4 x 6	23.2	17.9	14.2	150	8	5/8 x 21 x 3	18
SSF 8 4X	8	4 x 4 x 8	16.5	12.6	9.8	150	8	5/8 x 21 x 3	23
SSF 10 4X	10	4 x 4 x 10	12.0	8.9	6.7	150	8	5/8 x 21 x 3	27
SSF 12 4X	12	4 x 4 x 12	9.1	6.5	4.6	100	8	5/8 x 21 x 3	31
SSF 14 4X	14	4 x 4 x 14	6.7	4.4	2.8	100	8	5/8 x 21 x 3	35
SSF 16 4X	16	4 x 4 x 16	3.7	2.2	1.1	100	8	5/8 x 21 x 3	39
SSF 20 4X	20	4 x 4 x 20	7.2	1.8	0.5	150	8	5/8 x 21 x 3	80
SSF 20 5X	20	5 x 5 x 20	12.2	9.1	6.9	200	11	1 x 30 x 4	110
SSF 25 4X	25	4 x 4 x 25	4.2	2.5	0.75	150	8	5/8 x 21 x 3	90
SSF 25 5X	25	5 x 5 x 25	8.7	6.2	4.4	200	11	1 x 30 x 4	115
SSF 30 5X	30	5 x 5 x 30	4.7	2.8	1.9	200	11	1 x 30 x 4	120
SSF305XHD	30	5 x 5 x 30	8.6	5.1	2.6	200	10-12	1 x 30 x 4	164

Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Template number
4"	8"	3"	7.4"	ABSSF-4	PJ50123
5"	11"	4"	11.1"	ABSSF-5	PJ50124



Ordering Information: See page 494 (Note: Poles are available only in U.S.)

INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

Do not erect poles without having fixtures installed. If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

NOTES:

- 1 Mounting arrangement: (PT) Open Top; (T20) 2½" OD (2" NPS)
- 2 Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- 3 Options: See page 509.
- 4 Brackets: See page 511.

RTCD

NEW

Features

Construction – Centrifugal, pre-stressed concrete with a minimum 28-day compressive strength of 7000 PSI and conform with ASTM C-150. Prestressing wire reinforcement shall conform to ASTM A-421 and the spiral wire shall conform to ASTM A-82. The spiral reinforcement shall not be less than 13 gauge. The reinforcement continues from the top of the pole over the entire length. The concrete coverage over

the reinforcement spiral is ½" thick. The raceway opening is 2 inches minimum for wiring. Nominal hand hole size of 2.225"x7". Ground wire runs from top of pole to hand hole.

Finish – Concrete shall be color through-out acrylic coating.

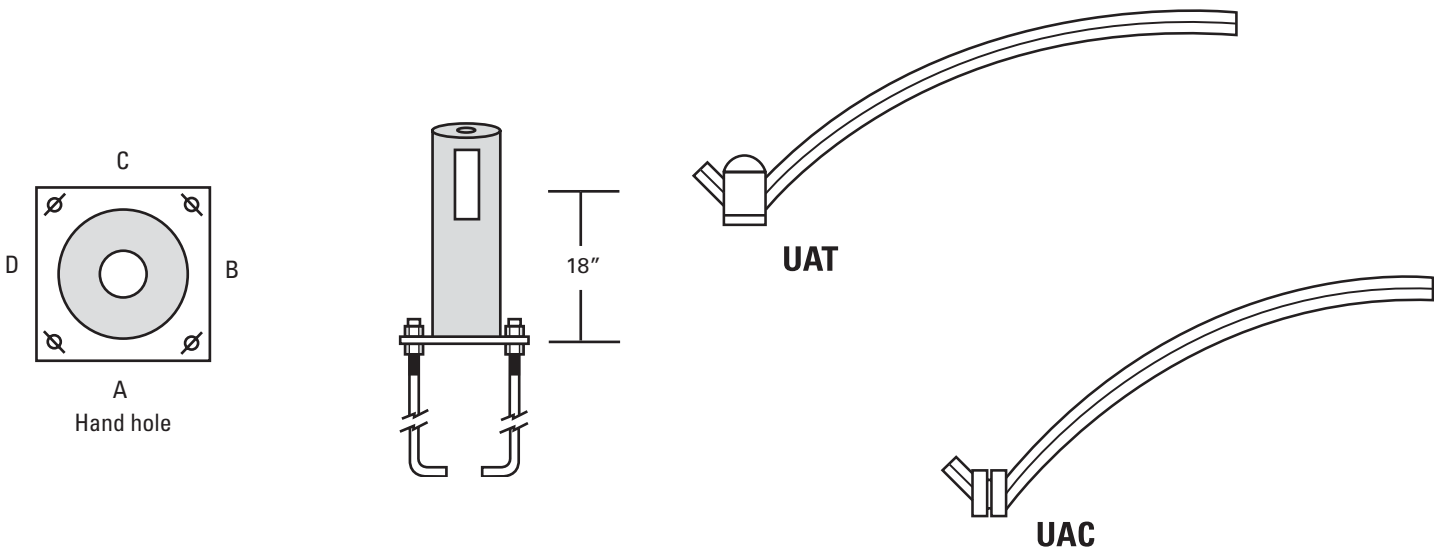
Anchor Bolts - Top portion of anchor bolt is galvanized per ASTM A-153. Made of steel rod having minimum yield strength of 55,000 PSI.

Ordering Information: See page 494
 (Note: Poles are available only in U.S.)

Technical Information

Catalog number	Pole height "A"	Base OD	Anchor bolt	Bolt circle	Base plate (sq.)	Ultimate GL moment (ft. lbs.)	Weight (lbs.)	80	90	100
RTCD 20 8-25X	19'-8"	8 ¼"	1" x 36" x 4"	11 ½"	11"	20,100	600	12.0	11.0	10.0
RTCD 25 8-06X	24'-7"	8 ⅙"	1" x 36" x 4"	11 ½"	11"	19,910	750	12.0	9.0	6.5
RTCD 30 8-62X	29'-6"	8 ⅝"	1" x 36" x 4"	11 ½"	11"	22,540	920	10.0	7.0	5.0
RTCD 35 9-31X	34'-9"	9 ⅝"	1" x 36" x 4"	14"	13"	37,500	1,200	12.0	10.0	8.0
RTCD 43 11-31X	42'-8"	11 ⅙"	1" x 36" x 4"	16 ½"	16"	51,050	2,100	12.0	8.0	5.0

*EPA based on post top mounting. Consult your representative for other attachment methods and increased load capacity requirements.



Features

Construction – Centrifugal, pre-stressed concrete with a minimum 28-day compressive strength of 7000 PSI and conform with ASTM C-150. Prestressing wire reinforcement shall conform to ASTM A-421 and the spiral wire shall conform to ASTM A-82. The spiral reinforcement shall not be less than 13 gauge. The reinforcement continues from the top of the pole over the entire length. The concrete coverage over

the reinforcement spiral is ½" thick. The raceway opening is 2 inches minimum for wiring. Nominal hand hole size of 2.225"x7". Ground wire runs from top of pole to hand hole.

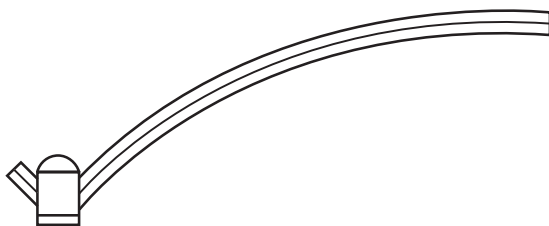
Finish – Concrete shall be color throughout acrylic coating.

Ordering Information: See page 494
(Note: Poles are available only in U.S.)

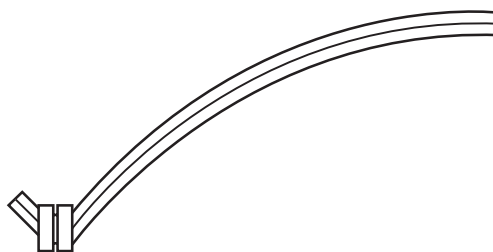
Technical Information

Catalog number	Pole height "A"	Base OD	Embedded depth	Overall length	Ultimate GL moment (ft. lbs.)	Weight (lbs.)	80	90	100
RTCDDDB 20 8-00X	19'-8"	8"	4' - 11'	24'-7"	17,440	750	13.0	11.0	10.0
RTCDDDB 25 8-56X	24'-7"	8 ⁹ / ₁₆ "	4' - 11'	29'-6"	19,910	850	12.0	9.0	6.5
RTCDDDB 30 9-25X	29'-6"	9 ¹ / ₄ "	5' - 3'	34'-9"	22,540	1,200	10.0	7.0	5.0
RTCDDDB 35 11-93X	36'-0"	11 ¹⁵ / ₁₆ "	6' - 8'	42'-8"	42,200	2,100	12.0	10.0	8.0
RTCDDDB 43 13-33X	42'-8"	13"	6' - 5'	49'-2"	49,300	2,850	12.0	8.0	5.0

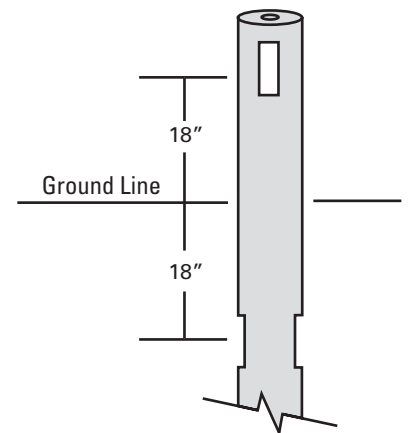
*EPA based on post top mounting. Consult your representative for other attachment methods and increased load capacity requirements.



UAT



UAC



STC

Features

Shaft – Concrete mix has a minimum 28-day compressive strength of 6,500 PSI and conforms with ASTM-C150. Prestressing steel reinforcement is uncoated 7 wire, stress relieved strand per ASTM-A416. Steel spiral reinforcement conforms to ASTM-A82 and is not less than .120 (11-gauge) diameter. Poles have a continuous taper of 0.165 inches per foot.

Square Tapered Concrete

Hand hole – A 3"x5" hand hole is located 24" above ground line and a 2½" x 7" minimum conduit entrance is located 18" below ground line. Inserts for the hand hole and conduit entrance are non-corrosive and weatherproof. Hand-hole frames and covers conform to ASTM-B240.

Grounding – An 18" long, #4 stranded copper pigtail, connected to reinforced strand, is provided at pole top and at cable entrance below grade.

Hardware – Fasteners are high-strength galvanized zinc-plated or stainless steel.

Top Cap – Weatherproof top cap provided with all drill-mount poles.

Finish – Smooth, natural form finish, soft gray color is standard.

Ordering Information: See page 494
(Note: Poles are available only in U.S.)

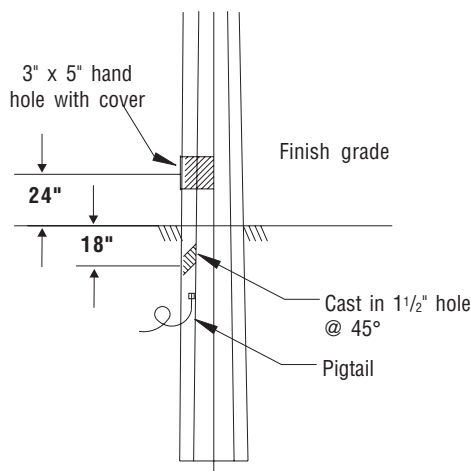
INSTALLATION NOTES:

Do not erect poles without having fixtures installed.
If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

Technical Information

EPA (ft²) with 1.3 gust

Catalog number	Nom. mount. ht. (ft.)	Pole shaft size (in. x in. x ft.)	80 mph	Max wt.	90 mph	Max wt.	100 mph	Max. wt.	Approx. ship wt. (lbs.)
STC 20 7-24X	16	4.0 x 7.24 x 20	22	550	16	430	13	330	680
STC 20 9-24X	16	6.0 x 9.24 x 20	48	1,220	37	950	29	760	1,110
STC 25 8-05X	20	4.0 x 8.05 x 25	21	510	16	390	12	300	985
STC 25 10-05X	20	6.0 x 10.05 x 25	44	1,050	34	810	26	640	1,530
STC 30 8-86X	25	4.0 x 8.86 x 30	20	460	15	340	11	250	1,350
STC 30 10-86X	25	6.0 x 10.86 x 30	49	1,090	33	830	28	650	2,000
STC 35 9-67X	29	4.0 x 9.67 x 35	17	400	12	290	8	200	1,800
STC 35 11-67X	29	6.0 x 11.67 x 35	43	1,010	32	760	24	580	2,540
STC 40 12-48X	34	6.0 x 12.48 x 40	42	920	30	670	22	500	3,130
STC 45 13-29X	38	6.0 x 13.29 x 45	41	820	31	590	22	420	3,795



SPRTC

Features

Shaft – Concrete mix has a minimum 28-day compressive strength of 11,000 PSI and conforms with ASTM-C150. Prestressing steel reinforcement is uncoated 7 wire, stress relieved strand per ASTM-A416. Steel spiral reinforcement conforms to ASTM-A82 and is not less than .203 (5-gauge wire) diameter. Poles have a continuous taper of 0.216 inches per foot. Poles are centrifugally spun and round in cross-section with a hollow center.

Hand hole – 4"x8" hand hole is located 24" above ground line. 4"x8" conduit entrance is located 18" below ground line. 2½"x8" reinforced hand hole with flush cover is located at cage/crossarm locations. 1½" coupling wire inlet/outlet is located opposite this hand hole. Inserts for hand hole and conduit entrance are non-corrosive and weatherproof. Hand-hole frames and covers conform to ASTM-B240.

Grounding – A continuous solid or stranded copper ground wire is cast into the pole.

Wire terminates at top of pole to accept a ½"x24" lightning rod and approximately 12" below grade. Copper coupling provides a ½" tapped insert at pole face for grounding hardware.

Hardware – Fasteners are high-strength galvanized zinc-plated or stainless steel.

Finish – Smooth, natural form finish, soft gray color is standard.

Technical Information

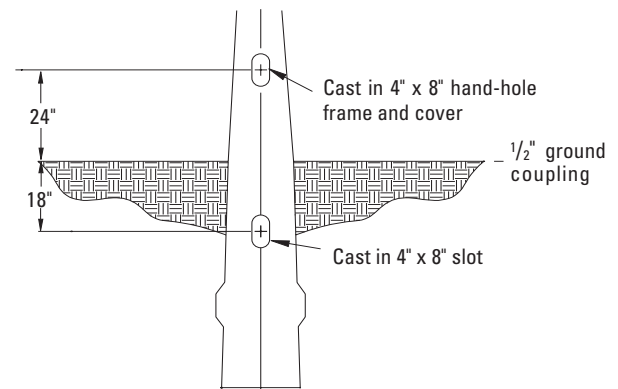
EPA (ft²) with 1.3 gust

Catalog number	Nom. mount. ht. (ft.)	Pole shaft size (in. x in. x ft.)	80 mph	Max wt.	90 mph	Max wt.	100 mph	Max wt.	Approx. ship wt. (lbs.)
SPRTC C6 45 7-17	38	6.75 X 16.47 X 45	31	620	24	480	18	360	3,400
SPRTC C5 45 7-17	38	6.75 X 16.47 X 45	39	780	30	600	23	460	3,400
SPRTC C4 45 7-17	38	6.75 X 16.47 X 45	52	1,040	40	800	31	589	3,450
SPRTC C4 60 7-20	50	6.75 X 19.71 X 60	47	893	35	665	26	520	5,450
SPRTC C2 60 9-22	50	8.82 X 21.78 X 60	85	1,615	65	1,235	48	912	7,950
SPRTC H1 60 9-22	50	8.82 X 21.78 X 60	138	2,622	101	1,919	80	1,520	8,100
SPRTC C3 70 9-24	60	8.82 X 23.94 X 70	56	1,064	42	798	32	608	9,900
SPRTC C1 70 9-24	60	8.82 X 23.94 X 70	90	1,710	69	1,311	52	988	10,100
SPRTC H2 70 10-24	60	8.82 X 23.94 X 70	139	2,641	103	1,957	81	1,539	10,400
SPRTC C2 80 9-26	68	8.82 X 26.1 X 80	63	1,197	45	855	34	646	12,300
SPRTC C1 80 9-26	68	8.82 X 26.1 X 80	85	1,445	65	1,105	48	816	12,300
SPRTC H2 80 10-26	68	8.82 X 26.1 X 80	136	2,584	101	1,919	79	1,501	12,800
SPRTC C2 90 9-28	77	8.82 X 28.26 X 90	54	1,026	39	741	28	532	14,850
SPRTC C1 90 9-28	77	8.82 X 28.26 X 90	78	1,482	56	1,064	42	798	14,950
SPRTC H2 90 10-28	77	8.82 X 28.26 X 90	132	2,508	97	1,843	75	1,425	15,350
SPRTC C1 105 9-32	91	8.82 X 31.5 X 105	70	1,330	49	931	35	665	19,250
SPRTC H1 105 9-32	91	8.82 X 31.5 X 105	99	1,881	74	1,406	54	1,026	19,450
SPRTC H3 105 11-34	91	11.0 X 33.68 X 105	144	2,736	105	1,995	80	1,520	22,050
SPRTC C1 115 9-34	100	8.82 X 33.66 X 115	65	1,235	45	855	31	589	22,350
SPRTC H1 115 9-34	100	8.82 X 33.66 X 115	96	1,824	70	1,330	50	950	22,550
SPRTC H2 115 10-34	100	8.82 X 33.66 X 115	125	2,375	91	1,729	69	1,311	22,800

Ordering Information: See page 494
(Note: Poles are available only in U.S.)

INSTALLATION NOTES:

Do not erect poles without having fixtures installed.
 If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.



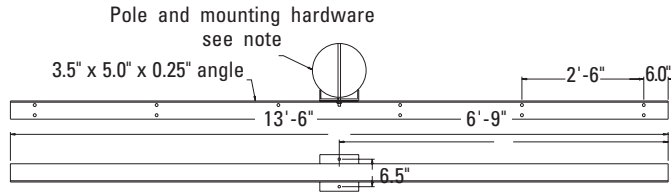
Angle Iron Crossarms for Concrete Poles

Projected area is for the crossarm only. The crossarm projected area is added to the luminaire projected area to get a total effective projected area (EPA).

Angle Iron Crossarms for Concrete Poles

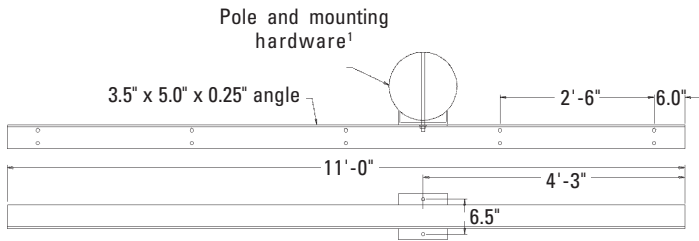
Catalog Number	Arm EPA (sq. ft.)	Weight (lbs.)
ACRCW2	1.80	50.0
ACRCW3	3.00	86.0
ACRCW4	4.50	121.0
ACRCW5	5.70	157.0
ACRCW6	7.00	193.0

ACRCW6



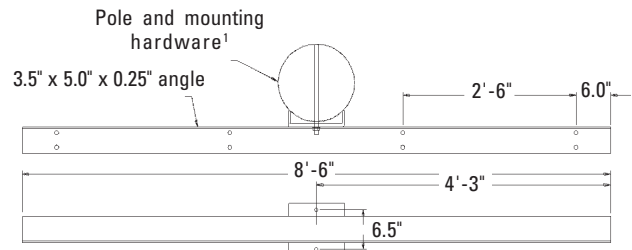
6-Fixture Angle Arm

ACRCW5



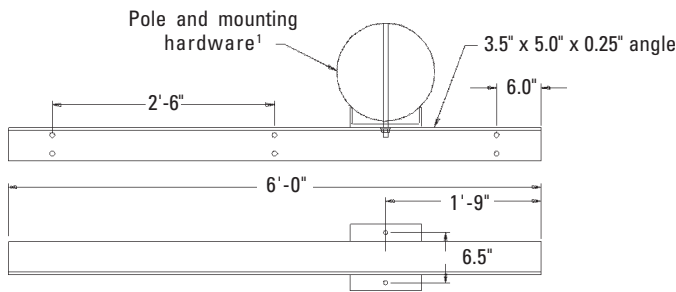
5-Fixture Angle Arm

ACRCW4



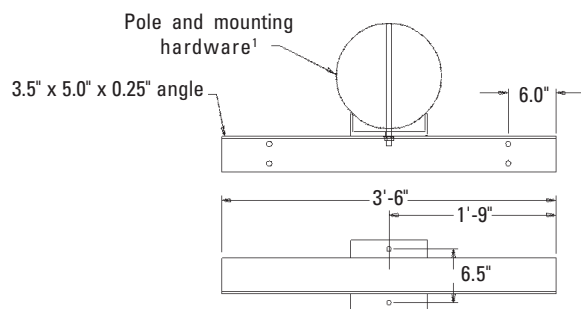
4-Fixture Angle Arm

ACRCW3



3-Fixture Angle Arm

ACRCW2



2-Fixture Angle Arm

NOTES:

1 Connecting hardware for crossarm to pole is supplied by others. Bolt holes in c-channel are 0.88\"/>

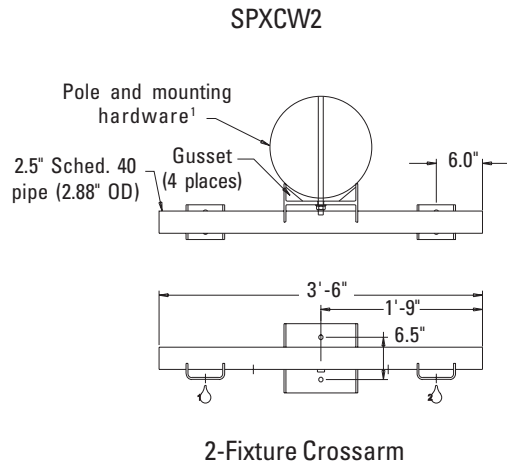
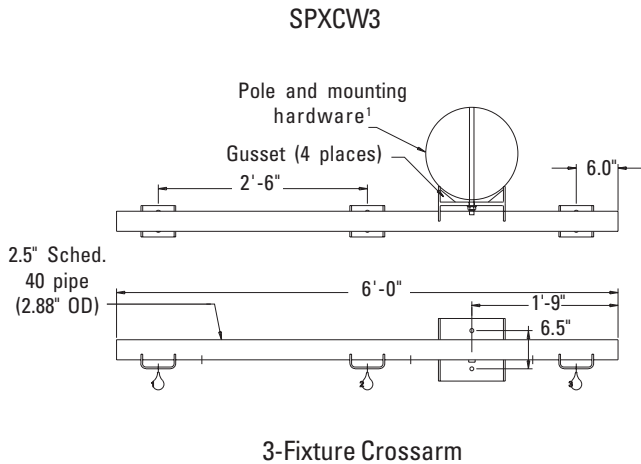
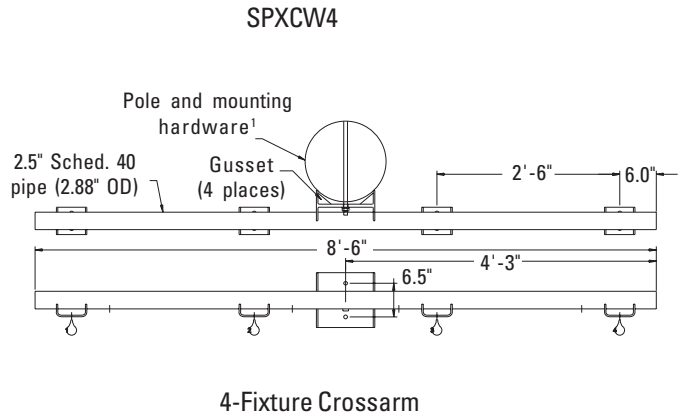
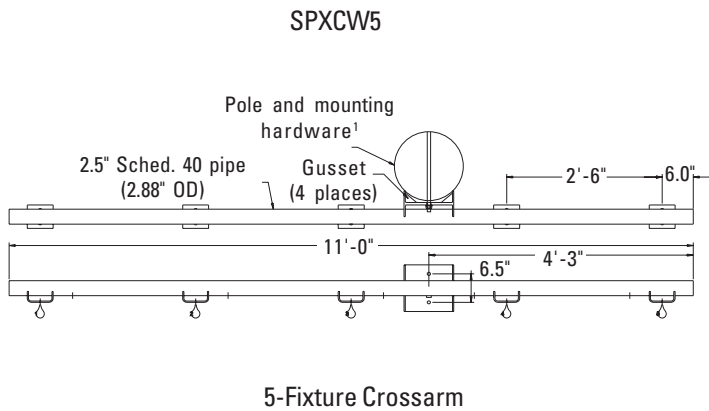
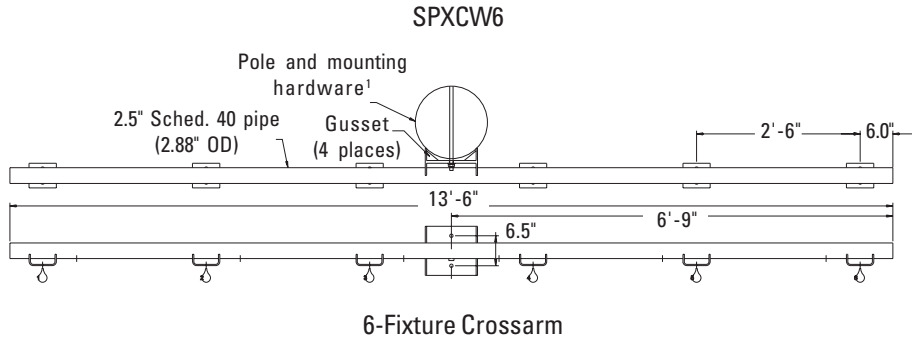
Pre-wired Tubular Crossarms for Concrete Poles

Projected area is for the crossarm only. The crossarm projected area is added to the luminaire projected area to get a total effective projected area (EPA).

Use in conjunction with CV3P luminaire option.

Pre-wired Tubular Crossarms for Concrete Poles

Catalog Number	EPA (sq. ft.)	Weight (lbs.)
SPXCW2	1.00	23.5
SPXCW3	1.80	40.0
SPXCW4	2.50	56.5
SPXCW5	3.20	73.0
SPXCW6	3.90	89.5



NOTES:

1 Connecting hardware for crossarm to pole is supplied by others. Bolt holes in c-channel are 0.88" diameter.

ANTIQUE Street Lamps™

DECORATIVE POSTS AND LUMINAIRES

Antique Street Lamps™ has developed the largest offering of outdoor decorative lighting products available in the market today, in both traditional and contemporary designs. The extensive historical product line consists of lighting posts, post top luminaires, crossarms, wall brackets, roadway and traffic signal posts, bollards, mailboxes and signage. The new contemporary line called Eurotique® consists of posts, fixtures and a wide range of bracket arm styles that capture European design elements. Antique Street Lamps has done thousands of projects from small historic commercial centers to the largest municipal outdoor decorative lighting projects. Typical applications include downtown areas, historic-district street lighting, park areas, universities and colleges, train depots and stations, historical renovations, hotels and resorts and high-end residential developments.





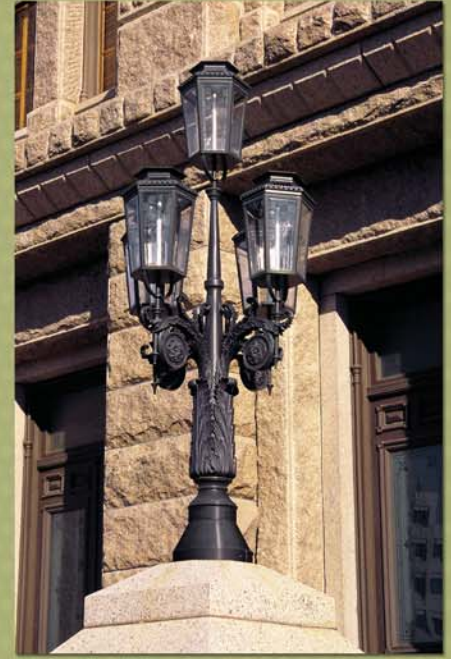
ANTIQUE Street Lamps™

HISTORICAL, CONTEMPORARY AND CUSTOM

Antique Street Lamps has the largest variety of traditionally-styled luminaires and light posts.

Antique Street Lamps also has a range of contemporary-styled products.

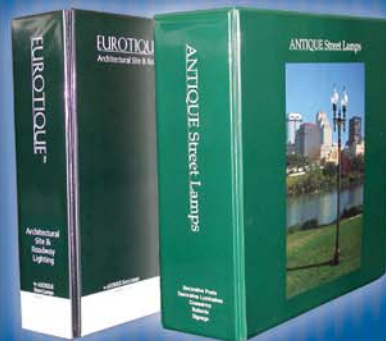
Antique Street Lamps has the ability to replicate any historic or contemporary design.



For detailed product and ordering information, please consult:



www.AntiqueStreetLamps.com



Specification Binder



Brochures

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Eurotique® Arms & Wall Brackets 532

Eurotique® Posts 533

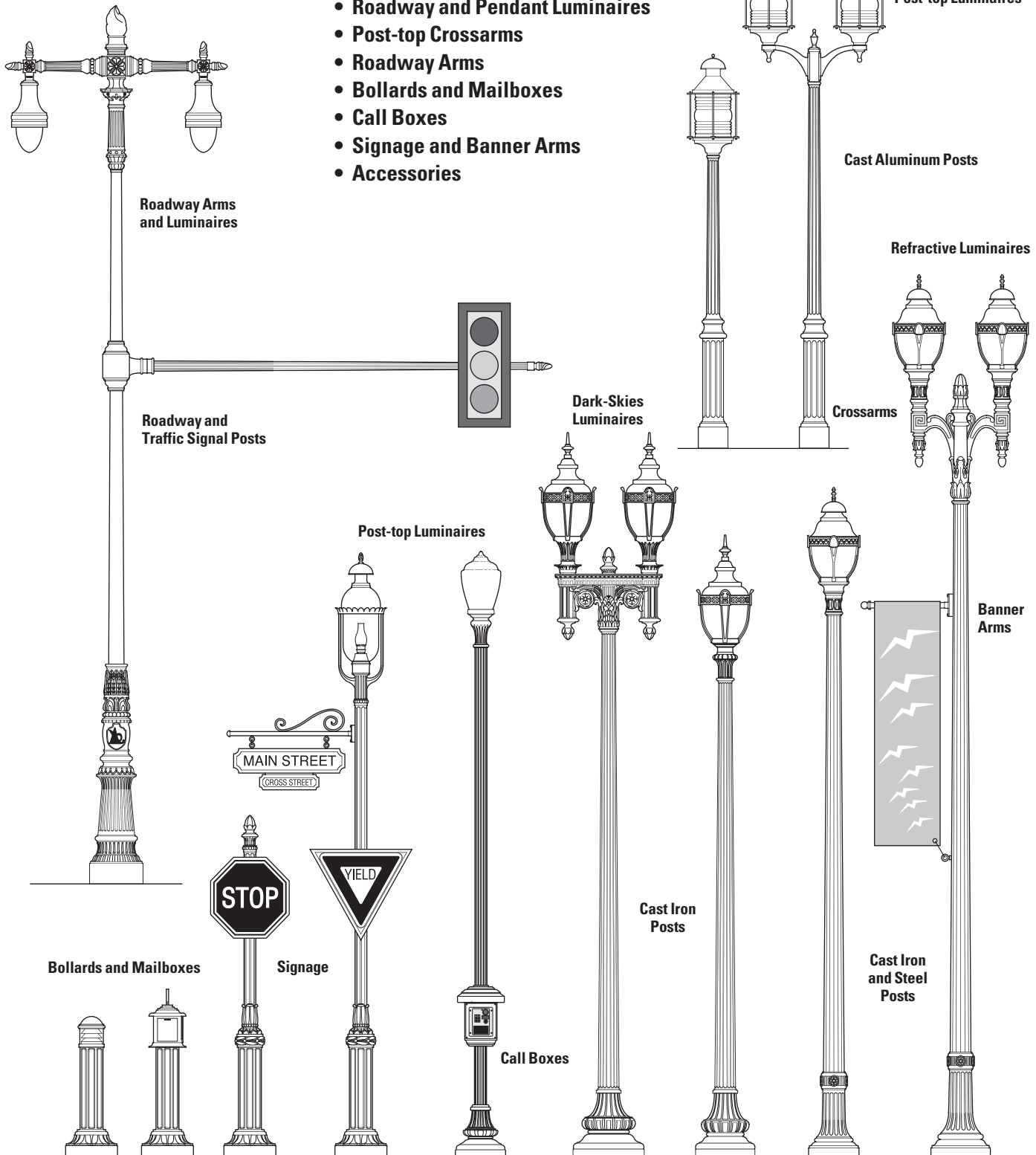


Product Overview

ANTIQUÉ Street Lamps has a full product line with a large selection and variety of styles. Products include:

- Cast Aluminum Posts
- Cast Iron Posts
- Cast Iron and Steel Posts
- Roadway and Traffic Signal Posts
- Post-top Luminaires
- Refractive Luminaires
- Dark-Skies Luminaires
- Roadway and Pendant Luminaires
- Post-top Crossarms
- Roadway Arms
- Bollards and Mailboxes
- Call Boxes
- Signage and Banner Arms
- Accessories

For more details, contact your local Lithonia Lighting sales representative for a copy of our complete binder catalog, or visit us online at www.AntiqueStreetLamps.com.



Rapid-Ship Posts

Intended Use

Use where quick delivery and easy installation is important. For street lighting, downtowns, parks, public areas and mall interiors.

Features

Post – The post base shall be heavy-wall, low copper, cast aluminum. The shafts shall be extruded aluminum. All hardware shall be tamper-resistant stainless steel.

Construction – All posts shall be one-piece construction. The shafts are telescoped into the bases and double welded for maximum structural integrity. An integral tenon shall be included for luminaire mounting.

Installation – The posts shall be provided with four, hot-dip galvanized, 3/4" L-type

anchor bolts. A door shall be provided in the base for anchorage and wiring access. A grounding screw shall be provided inside the base accessible from the door.

Finish – The posts shall be finished with a premium Polyester Powder coating. Standard colors are Black, Dark Bronze, or Dark Green.

Shipping – Posts ship in just 10 business days when order is placed before 12:00pm CST. Maximum quantity of 10 posts per order per customer. Consolidated freight allowed. Expedited freight is available by request. (Customer is responsible for the difference between expedited freight cost and consolidated freight cost.) Any cancellation of released orders will result in cancellation charges.

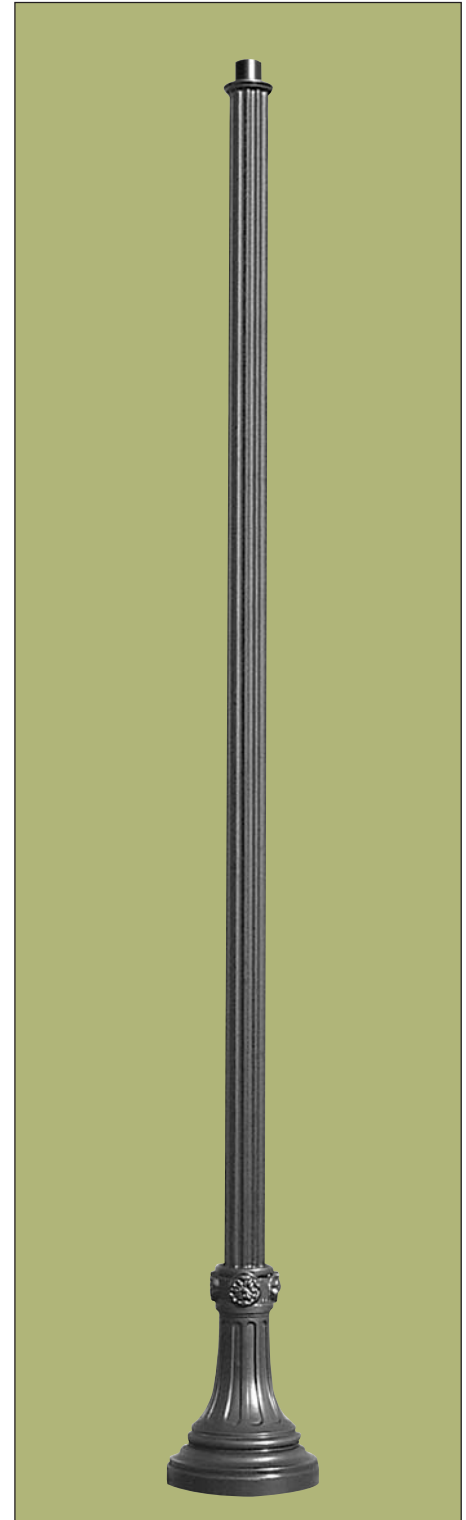
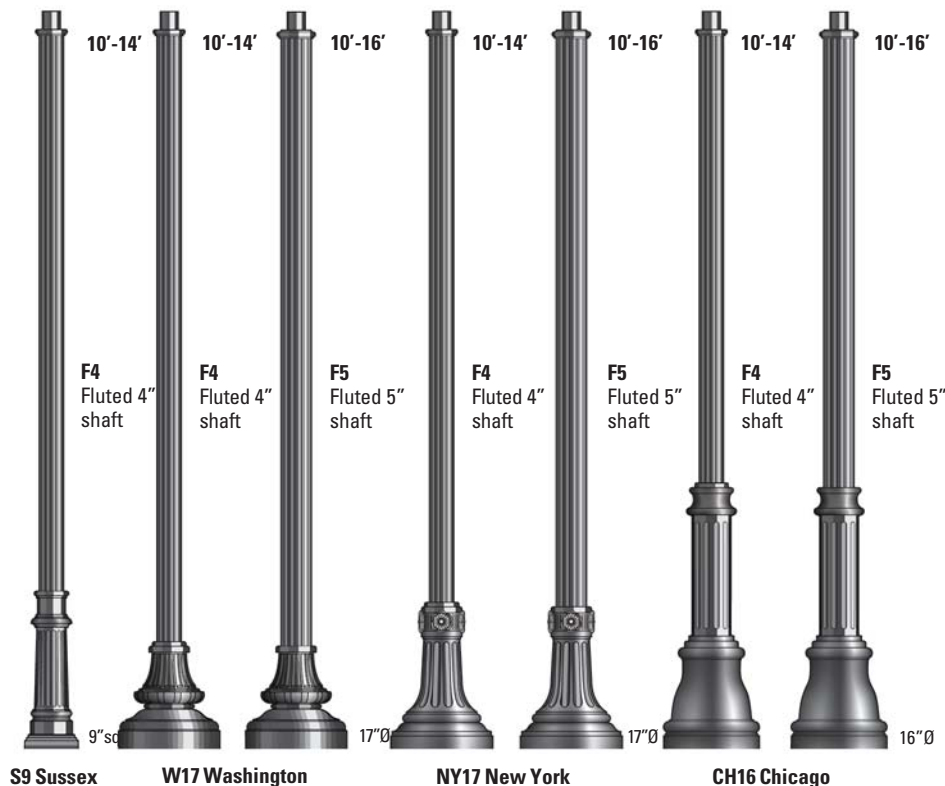
Ordering Information

Example: **PX CH16 14 F5 ANBK RSP**

Family	Series	Height	Shaft	Finish ³	Rapid-Ship Program
PX	S9¹	10	F4² Fluted 4" Ø	ANBK Black	RSP
	W17	12	F5 Fluted 5" Ø	ANDB Dark bronze	
	NY17	14		ANDG Dark green	
	CH16	16²			

NOTES:

- 1 S9 series posts only available with F4 shaft.
- 2 F4 shafts are not available in 16' height.
- 3 For finish specifications, see ANTIQUE Street Lamps binder, Finish tab.



Rapid-Ship Luminaires



Intended Use

Use where quick delivery is important. For street lighting, downtowns, parks, public areas and mall interiors.

Features

Materials – All luminaire bases and frames shall be heavy- wall, low copper, cast aluminum. Round domes shall be spun aluminum or cast aluminum. Globe material shall be clear acrylic or polycarbonate, either smooth, textured or refractive, as noted below. Optional refractors are borosilicate glass. All hardware shall be stainless steel and external hardware shall be tamper resistant.

Installation – All luminaires are designed to slip fit a 3" O.D. x 3" tall tenon and attach with set screws.

Light Source – Luminaires shall be furnished with a quick-disconnect H.I.D. ballast and socket assembly.

Finish – The luminaires shall be finished with a premium polyester powder coating. Standard colors are Black, Dark Bronze, or Dark Green.

Listing – UL or C-UL listed. Labeled as suitable for wet locations.

Shipping – Posts ship in just 10 business days when order is placed before 12:00pm CST. Maximum quantity of 10 posts per order per customer. Consolidated freight allowed. Expedited freight is available by request. (Customer is responsible for the difference between expedited freight cost and consolidated freight cost.) Any cancellation of released orders will result in cancellation charges.

Ordering Information

Example: **A25 A 100M MED ACT GR5 TB1 ANBK RSP**

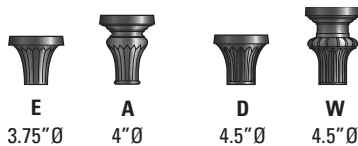
Series	Bases	Wattage/Lamp ²	Lens Material	Distribution	Voltage ³	Finish ²
AT23						
A25	E				TB1 ³ 120V	ANBK Black
AM30	A	70M MED 70W	All luminaires except P36, FS31 and N44	(blank) Symmetrical distribution	TB2 208V	ANDB Dark bronze
P36	D	100M MED 100W	ACT Acrylic, clear textured	GR5 Glass refractor, type V	TB3 240V	ANDG Dark green
TL26	W	175M MOG 175W	P36 only	GR3 Glass refractor, type III	TB4 277V	
FS31		250M MOG ² 250W	PCT Polycarbonate, clear textured	FS31 only	347 347V	
PD28			FS31 only	(blank) Refractive type V		
LT30			ARF Acrylic, refractive	R2 Refractive type II		
LTS33			N44 only			
TR30			ACS Acrylic, clear smooth			
TR35	na					
N44 ¹						

Rapid-Ship Program
RSP

Luminaire Bases

Bases **E** and **A** are for Antique Street Lamps' 4"Ø shafted Rapid-Ship Posts.

Bases **D** and **W** are for Antique Street Lamps' 5"Ø shafted Rapid-Ship Posts.



The dimension is the outside diameter at the bottom of the base.

NOTES:

- N44 recommended with a glass refractor, option GR5 or GR3.
- 250M only available with bases A and W and Series TR35.
- Multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada).
- For finish specifications, see ANTIQUE Street Lamps binder, Finish tab.

Luminaire and E Bases



AT23 E
15"w, 30"h



A25 E
16"w, 33.5"h



AM30 E
18"w, 36.5"h



P36 E
18"w, 43"h



TL26 E
18"w, 32.5"h



FS31 E
18"w, 34.5"h



PD28 E
18"w, 37.5"h



LT30 E
15"w, 36.5"h



LTS33 E
23"W 39.5"H

Note: Luminaires above shown with the E series luminaire base. Replace E base with A, D or W base for more luminaire choices.



TR30
3.6"Ø, 15"sq, 30"h



TR35
3.6"Ø, 18"sq, 35"h



N44
4"Ø, 17"sq, 44"h

Shown with distribution option GR5, glass refractor type V

Note: The note below the luminaires represents the outside diameter at the bottom of the base, the maximum width and the overall height.



DS1



DS2



DS3



DS4 K



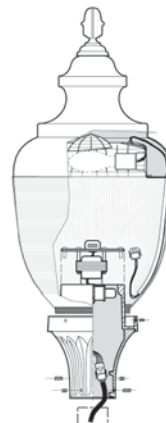
DS5 K



DS7 K



DS9 K



Dark-Skies Luminaires

Dark-Skies Luminaires are not part of the Rapid-Ship Program.



Historical Style with Cutoff Performance

Antique Street Lamps has developed the Dark-Skies Luminaires to help prevent nighttime light pollution while providing high quality lighting.

We offer traditional designs using the Aeris™ reflector and DS9 Series luminaires featuring a TY5 reflector. Both meet the IES cutoff classification.

New Eurotique® luminaires (Hanover and Munich Series) shown on the following pages also are classified as Dark-Skies Luminaires.

For the complete Dark-Skies offering and ordering guide, see our Dark-Skies brochure or visit our website.

EUROTIQUE® Luminaires

NEW



Intended Use

Use for street lighting, downtowns, parks, public areas and mall interiors, to be mounted on Eurotique arms where cutoff performance with architectural style is important.

Features

Eurotique Luminaires are available in two sizes and utilize the Aeris™ reflector.

Optics – Reflectors shall be anodized and segmented for superior uniformity and control. They are available in 5 different distributions and are interchangeable.

Materials – All luminaire ballast housings and skirts shall be heavy-wall, low copper, cast aluminum. Globe material shall be clear acrylic, half sphere or tear drop globe. Lens material shall be clear glass, flat or sag. All hardware shall be stainless steel and external hardware shall be tamper resistant.

Installation – Luminaires are designed to mount to the swivel nipples of the Eurotique arms.

Light Source – Luminaires shall be furnished with a quick-disconnect H.I.D. ballast and socket assembly.

Finish: The luminaires shall be finished with a premium Polyester Powder coating. Standard colors are Black, Dark Bronze, Dark Green or Verde Green. Custom colors are available.

Listing: UL or C-UL listed. Labeled as suitable for wet locations.

Ordering Information

Example: **EM25 400M MOG GCF SR2 TB1 ANBK**

Series	Wattage Lamp ²	Lens Material	Distribution ¹	Voltage ²	Options
EC13RT	<u>Metal Halide</u>	EC13RT only	EC13RT only	TB1 120V TB2 208V TB3 240V TB4 277V 347 347V	EC13RT, H16 & H22 only
	50M MED 50W	ACS Acrylic, clear smooth	RS Type V		1DS Decorative shield
	70M MED 70W	PCS Polycarbonate, clear smooth	EH16 & EM17 only		EC13RT only
	100M MED 100W	EH16, EM17, EH22 & EM25 only	SR2 Type II		2DS 2 decorative shields
	150M MED 150W	GCF Glass, clear flat	SR3 Type III		2DD 2 decorative discs
EH16RT EH16ST EH16FT EM17RT EM17ST EM17FT	<u>High Pressure Sodium</u>	GCSG Glass, clear sag	SR4SC Type IV	Finish³	ANBK Black ANDB Dark bronze ANDG Dark green ANVG Verda green ANPP Prime painted
175M MOG 175W	ACHS Acrylic, clear half sphere	SR5S Type V	EH22 & EM25 only		
EH22RT EH22ST EH22FT EM25RT EM25ST EM25FT	<u>Metal Halide</u>	ACD Acrylic, clear teardrop globe	SR2 Type II SR3 Type III SR4SC Type IV SR4W Type IV SR5S Type V		
175M MOG 175W	<u>High Pressure Sodium</u>				
250M MOG 250W	150S MED 150W				
400M MOG 400W	250S MED 250W				
	400S MED 400W				



Cutoff Classifications

Classification	Lens Type	Series	Distribution Optics
<i>Full Cutoff</i>	GCF	H16, H22, M17, M25	SR2, SR3, SR4ASC, SR4W*, SR5S
<i>Cutoff</i>	GCSG	H16, H22, M17, M25	SR2, SR3, SR4SC, SR4W*, SR5
	ACHS, ACD	H16, M17	SR2, SR3, SR4SC,
	ACHS, ACD	H22, M25	SRA4C, SR5S
<i>Semi-cutoff</i>	ACHS, ACD	H22, M25	SR2, SR3, SR4W

*SR4W only available with EH22 and EM25.

Luminaire Top Styles

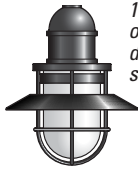


Catalog designation is at the end of the series number. Example: EH22RT, EH22ST OR EH22FT

Copenhagen Series

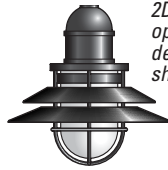


EC13RT
13"w, 26.5"h



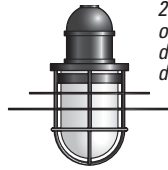
EC13RT 1DS
22"w, 26.5"h

*1DS,
optional
decorative
shield*



EC13RT 2DS
27"w, 26.5"h

*2DS,
optional
decorative
shields*



EC13RT 2DD
27"w, 26.5"h

*2DD,
optional
decorative
discs*

Munich Series



EM17RT GCF
17"w, 17"h

*GCF Glass,
clear flat*



EM17FT GCSG
17"w, 19.5"h

*GCSG, glass,
clear sag*



EM17FT ACHS
17"w, 23"h

*ACHS, acrylic,
clear half
sphere*



EM17FT ACD
17"w, 26.5"h

*ACD, acrylic,
clear teardrop
globe*



EM25RT GCF
25"w, 23"h

*GCF Glass,
clear flat*



EM25FT GCSG
25"w, 26.5"h

*GCSG, glass,
clear sag*



EM25FT ACHS
25"w, 31.5"h

*ACHS, acrylic,
clear half
sphere*



EM25FT ACD
25"w, 36.5"h

*ACD, acrylic,
clear teardrop
globe*

Hanover Series



EH16RT GCF
16"w, 16"h

*GCF Glass,
clear flat*



EH16FT GCSG
16"w, 18.5"h

*GCSG Glass,
clear sag*



EH16FT ACHS
16"w, 22"h

*ACHS Acrylic,
clear half
sphere*



EH16FT ACD
16"w, 25.5"h

*ACD Acrylic,
clear tear drop
globe*



EH16FT GCF 1DS
16"w, 16"h

*IDS optional
decorative
shield*



EH22RT GCF
22"w, 22.5"h

*GCF Glass,
clear flat*



EH22FT GCSG
22"w, 26"h

*GCSG Glass,
clear sag*



EH22FT ACHS
22"w, 31"h

*ACHS Acrylic,
clear half
sphere*



EH22FT ACD
22"w, 36"h

*ACD Acrylic,
clear tear drop
globe*



EH22FT GCF 1DS
22"w, 22.5"h

*IDS optional
decorative
shield*

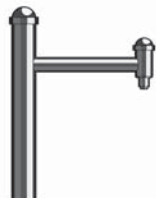
EUROTIQUE® Arms and Wall Brackets

NEW

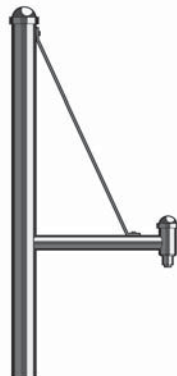


Arm Styles

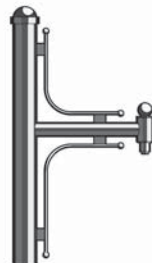
4" One-ways



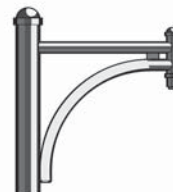
EAA4/1



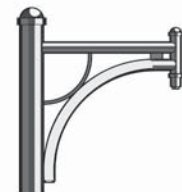
EAB4/1



EAC4/1



EAD4/1



EAE4/1

Intended Use

Use arms for mounting Eurotique luminaires onto Eurotique poles. Use wall brackets to mount Eurotique luminaires on walls to complement the crossarms.

Features

Arms are available in two sizes. The 4" diameter arms are for the Copenhagen, small Hanover and small Munich Series luminaires. The 5" diameter arms are for the large Hanover and large Munich Series luminaires.

Materials – All castings shall be heavy-wall, low copper, cast aluminum. Arm extrusions, center spools and wall bracket back plates shall be aluminum. All hardware shall be stainless steel. All exterior hardware shall be tamper resistant.

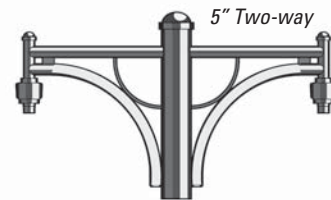
Installation – The arms shall slip-fit a 3.375" dia. pole-top tenon (4" arms) or a 4.375" dia. pole-top tenon (5" arms) and attach with eight socket set screws. Arm EAK shall have a 10" lg. tenon and slip-fit the post top. The center finial and arm finial shall be removable for wiring access. The wall bracket shall have four to six 1/2" dia. holes for mounting to the wall. (Bracket mounting hardware shall be furnished by others.) Arms and wall brackets shall have 3/4" NPT (4" arms) or 1-1/2" NPT (5" arms) swivel nipples for luminaire mounting. Optional twist-lock photocontrol installed at center spool top instead of finial.

Finish – The crossarms and wall brackets shall be finished with a premium polyester powder coating. Standard colors are Black, Dark Bronze, Dark Green or Verde Green. Custom colors are available.

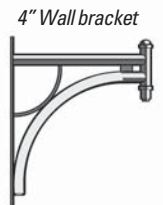
Ordering Information

Example: **EAG5/2 ANBK PER**

4" Arms	5" Arms	Wall Brackets	Finish	Options
<u>One-way</u>	<u>One-way</u>	<u>4" Arms</u>	ANBK Black	PER NEMA twist-lock receptacle only
EAA4/1	EAA5/1	EAA4WB	ANDB Dark bronze	PE1 NEMA twist-lock photocontrol, 120V, 208V, 240V
EAB4/1	EAB5/1	EAB4WB	ANDG Dark green	PE3 NEMA twist-lock photocontrol, 347V
EAC4/1	EAC5/1	EAC4WB	ANVG Verde green	PE4 NEMA twist-lock photocontrol, 480V
EAD4/1	EAD5/1	EAD4WB	ANPP Prime painted	PE5 NEMA twist-lock photocontrol, 277V
EAE4/1	EAE5/1	EAE4WB		
EAF4/1	EAF5/1	EAF4WB		
EAG4/1	EAG5/1	EAG4WB		
EAH4/1	EAH5/1	EAH4WB		
EAJ4/1	EAJ5/1	EAJ4WB		
EAK4/1	EAK5/1	EAL4WB		
EAL4/1	EAL5/1	<u>5" Arms</u>		
<u>Two-way</u>	<u>Two-way</u>	EAA5WB		
EAA4/2	EAA5/2	EAB5WB		
EAB4/2	EAB5/2	EAC5WB		
EAC4/2	EAC5/2	EAD5WB		
EAD4/2	EAD5/2	EAE5WB		
EAE4/2	EAE5/2	EAF5WB		
EAF4/2	EAF5/2	EAG5WB		
EAG4/2	EAG5/2	EAH5WB		
EAH4/2	EAH5/2	EAJ5WB		
EAJ4/2	EAJ5/2	EAL5WB		
EAL4/2	EAL5/2			



EAE5/2



EAE4WB

EUROTIQUE® Poles

NEW

Intended Use

Use poles for mounting Eurotique arms and luminaires where a 16-foot to 30-foot pole height is required.

Features

Poles are available in either aluminum or steel. Poles shall be one-piece construction with integral anchor/base plate and two-piece base cover. Aluminum poles are available as round, straight, 4" and 5" or as round stepped, 4"/6.63" and 5"/7". Steel poles are available as round, straight, 4" and 5" or as round stepped, 5"/7".

Materials – Aluminum poles shall be extruded aluminum, with cast aluminum

anchor plate, base cover and handhole cover. Steel poles shall be steel tubing with steel anchor plates and cast aluminum base cover and handhole cover. All hardware shall be stainless steel. All exterior hardware shall be tamper resistant.

Installation – The 4", 5" and 4"/6.63" poles shall be provided with four 3/4" diameter, L-type anchor bolts. The 5"/7" aluminum poles shall be provided with four 1" diameter, L-type anchor bolts. The 5"/7" steel poles shall be provided with four 1-1/4" diameter, L-type anchor bolts. A handhole with cover shall be provided in the lower shaft for wiring access. Integral tenons shall be at the top for mounting

Eurotique arms with one exception. No tenon, but eight set screws shall be provided at the pole top for mounting arm EAK which has an internal tenon.

Finish – The poles shall be finished with a premium polyester powder coating. Standard colors are Black, Dark Bronze, Dark Green or Verde Green. Custom colors are available.

Ordering Information

Example: **EPSX 18 S4 3-3/8T11 ANBK**

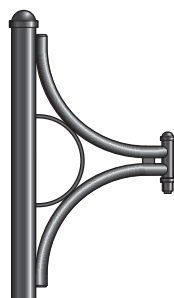
Pole Series	Height	Shaft Type	Tenon	Finish
<u>Aluminum</u>		<u>4" Poles</u>	<u>4" Poles</u>	
	10			ANBK Black
	12			ANDB Dark bronze
EPAX	14	S4	3-3/8T11 Standard tenon	ANDG Dark green
	16		3-3/8T8 Tenon for arm EAL4	ANVG Verde green
	18		0T0 Tenon for arm EAK4	ANPP Prime painted
<u>Steel</u>	16	<u>4" Poles</u>		
EPSX	18	S4		
	20			
<u>Aluminum</u>	20	<u>4/6.63" Poles</u>		
EPAX	22	S4S6		
<u>Alum. & Steel</u>	16	<u>5" Poles</u>	<u>5" Poles</u>	
EPAX	18	S5		
EPSX	20			
<u>Aluminum</u>	20	<u>5/7" Poles</u>	4-3/8T11 Standard tenon	
	22		4-3/8T8 Tenon for arm EAL5	
EPAX	24	S5S7	0T0 Tenon for arm EAK5	
	26			
<u>Steel</u>	22	<u>5/7" Poles</u>		
EPSX	24	S5S7		
	26			
	28			
	30			

Arm Styles continued

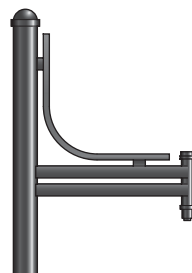
4" One-ways



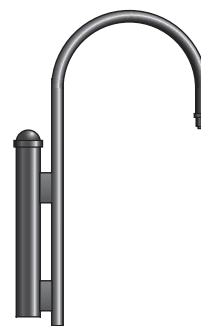
EAF4/1



EAG4/1



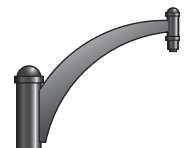
EAH4/1



EAJ4/1



EAK4/1



EAL4/1

ARCHITECTURAL AND LANDSCAPE LIGHTING

Hydrel is the industry's premier brand of specification-grade architectural and landscape luminaires. Hydrel offers a wide variety of high-performance architectural lighting products for applications including accent, flood, area, in-grade, border and underwater lighting. To meet the most challenging lighting assignments, Hydrel offers an extensive line of accessories and mounting options as well as custom designed luminaires.



Fountain and Underwater Lighting

Reflection Pool and Fountain Pool Lights
Wet/Dry Lights
Swimming Pool Lights



Flood Lighting

7000 Series
8000 Series



Area and Wall Mounted Lighting

Controlled Cutoff Lights
Recessed Step and Wall Lights
Pole Lights



Accent, Border, and Step Lighting

4400 Series
4500 Series
4600 Series
9600 Series



In-Grade Lighting

6000 Series Uplights
9300 Series Well Lights
M9000 Series Ingrade



Custom Lighting

Custom designs to meet the one of a kind application.



The spectacular 726-foot-high Hoover Dam is now illuminated by Hydrel 7200 Series

FOUNTAIN AND UNDERWATER LIGHTING

Underwater lighting is synonymous with Hydrel. We offering the widest array of high quality underwater luminaries in the market. Hydrel's extensive line of fountain, reflective and swimming pool lights in both niche and base mounted styles, sets the standard in the industry.



Underwater fixtures for every application

Hydrel offers the widest and most varied line of underwater luminaries, including a line unique to Hydrel for wet/dry applications. These reliable lights are available in a variety of lamp choices and are complemented by a complete line of accessories, color filters and electrical support equipment. The 4428 (shown below) is the only UL listed HID luminaire on the market available in niche and base mount.



4428



BUILDING MOUNTED LIGHTING

Hydrel offers a comprehensive family of performance luminaires for wall mounted applications. The product offering includes the Hypak 3000 and 4000 as well as the most recent addition, the 8100/8200 Series.



Hypac 4000



8100

Area fixtures for every application

Whether your solution is a step light, a wall-mounted cut-off luminaire, or a low level recessed wall light Hydrel has the right product for you. Ideal for applications such as lighting a large plaza, ramps, stairways, and high traffic areas, Hydrel luminaires provide uniform coverage with both internal and external source shields to maximize performance and minimize unwanted glare.

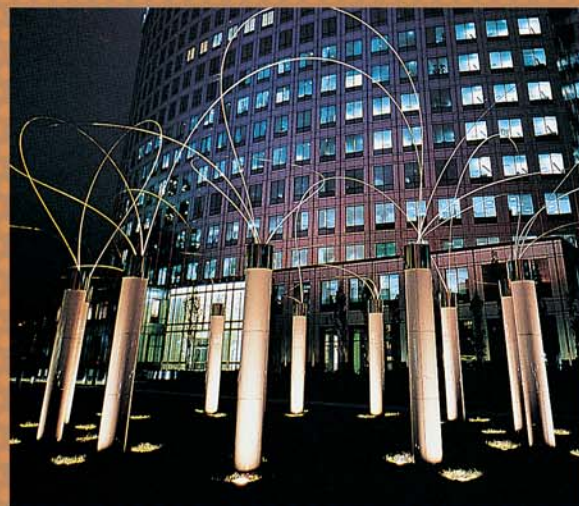


9600

HYDREL®

IN-GRADE LIGHTING

Hydrel's M9000 Ingrade Series is the standard by which others are measured. It is simply a superior product, offering long life performance and reliability and more light control options and accessories than anyone else.



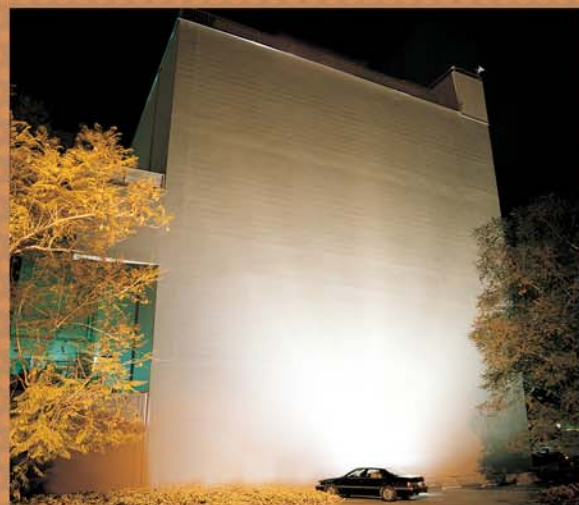
Featured: M9400, M9800, M9700



Module Design

Superior Performance

In addition to the patented M9000 Ingrade Series, Hydrel offers the 9300 Well Light and the 6000 UpLight Series. Hydrel has the right solution to your in-ground lighting needs.



FLOOD LIGHTING

Hydrel can meet any architectural floodlighting challenge with its extensive range of luminaries in the 7000 and 8000 Series. Hydrel's Protected Performance™ adds a level of quality, assuring that the superior design and optical performance will last a lifetime.



7000 Series



8000 Series

Accessories, Color Filters, Mounting
Hydrel offers a complete selection of mounting options, glare and light control features and accessories, including color filters to optimize optical performance and create a superior lighting result. Choose Hydrel to meet your flood lighting needs.



ACCENT, BORDER AND STEP LIGHTING

Hydrel's reputation is one of superior products designed to solve lighting challenges. The tough environment of landscape applications can render lesser products ineffective in a short time. Hydrel is the choice of the lighting professional and discerning owner.



4600 Series



4799



4515 and 4519



M9460



CUSTOM LIGHTING AND ORDERING INFORMATION

Hydrel has set itself apart as an extraordinary outdoor lighting manufacturer with its ability to develop custom luminaires for unique applications.



Lighting designers and architects worldwide commonly specify Hydrel as a source for custom-designed fixtures. These special fixtures have been used in commercial sites such as Caesar's Palace Hotel & Casino in Las Vegas and Disney theme parks in Florida, Tokyo and Europe. Additionally, Pacific Bell Ballpark, home of the San Francisco Giants, has incorporated Hydrel custom in-grade and area lighting fixtures.

For detailed product and ordering information, please consult:



www.hydel.com



Specification Binder



Brochures

CONTROL SYSTEMS

Control Systems

Lithonia Lighting produces a wide range of control systems for both architectural dimming and lighting energy management. These systems are suitable for applications in high-rise office buildings, educational facilities, multi-building complexes, manufacturing plants and sports facilities.

Lighting controls dramatically enhance efficiency by governing the amount of light needed to maintain illuminance levels and by limiting light use to occupied spaces. Lithonia offers a variety of lighting control solutions to meet ASHRAE 90.1 and similar legislation requirements.



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Sensors 556



Sequel® Wallbox Dimmers 560



Wallbox Dimmers 562

Fluorescent Dimming Guide 567

Synergy®



Synergy® Lighting Control System

Intended Use

A unique lighting control system that integrates all aspects of lighting control into a single system platform. Combines architectural dimming, low-voltage switching, lighting automation and energy management functions into a single scalable package capable of meeting the requirements of virtually any lighting control application.

Features

Combines the most popular aspects of lighting automation with full-featured low-voltage switching and architectural dimming functions.

Switching and dimming functions may be controlled manually or scheduled on a weekly or calendar date basis. Functions may be set up using the integral

LCD alpha-numeric display and keypad or through the use of a personal computer with optional software.

Panels can operate individually as stand-alone lighting controllers or optionally in a distributed intelligence network configuration. A choice of system controllers allows customization to best meet the requirements and budget of each project.

Provides capacity for a maximum of 48 relays or 30 dimmers per enclosure. Enclosures can operate in a master/secondary configuration, providing control of up to 96 outputs from a single controller. Relays and dimmers are each rated for control of one lighting circuit at the listed voltage.

Listings – UL Listed to US and Canadian safety standards. California Title 24 certified.

Ordering Information

Example: **SYELB 24RB1 12DB1 MLS MB100/3 DMX**

Series	Controller type	Main feed option	Options
SYES Small enclosure, 2 modules max. SYEM Medium enclosure, 4 modules max. SYEL Large enclosure, 6 modules max. SYESB Small enclosure w/breaker door, 2 modules max. SYEMB Medium enclosure w/breaker door, 4 modules max. SYELB Large enclosure w/breaker door, 6 modules max.	MLC Basic controller for stand-alone panel operation (See spec sheet SYSC-MLC) MLS Enhanced controller for stand-alone panel operation (See spec sheet SYSC-MLS) MLX Enhanced controller for network panel operation (See spec sheet SYSC-MLX) SCP Secondary panel less controller	(blank) No main lugs, no main breaker ML Main lugs for 120V, 240V or 277V operation; requires 2 module positions; requires power modules with circuit breakers MB Main breaker, 3-pole. Specify # of amps NBAR 42 circuit neutral bar	(blank) Panel ships as components consisting of enclosure, power modules and controller FA Panel ships fully assembled (controller and relay modules factory-installed in enclosure) DMX Dimming interface required for connection to DMX512 control PHONE Telephone interface ¹ RO Remote override, accepts contact closure to force all relays to <i>full-on</i> for essential lighting applications ² OS Occupancy sensor light switch inputs for contact switches or occupancy sensors ³
Output quantity/type and dimmers/relays per module			
_DB1 (Qty) 120V 2KW dimmers, 6 20A circuit breakers, 6 dimmers _DB2 (Qty) 277V 3.5KW dimmers, 4 20A circuit breakers, 6 dimmers _DB3 (Qty) 120V 2KW dimmers, 6 15A circuit breakers, 6 dimmers _DB4 (Qty) 277V 4KW dimmers, 4 15A circuit breakers, 6 dimmers _R (Qty) single pole, 120/277V 20A, 8 relays _RB1 (Qty) single pole 20A relays, 6 120V 20A circuit breakers, 8 relays _RB2 (Qty) single pole 20A relays, 4 277V 20A circuit breakers, 8 relays _RB3 (Qty) single pole 20A relays, 6 120V 15A circuit breakers, 8 relays _RB4 (Qty) single pole 20A relays, 4 277V 15A circuits, 8 relays _CB2 (Qty) 277V constant breakers, 4 _CB1 (Qty) 120V constant breakers, 6 _HB6 (Qty) single pole 20A relays, 4 347V 20A circuit breakers, 8 relays _HB7 (Qty) single pole 20A relays, 4 347V 15A circuit breakers, 8 relays	_F (Qty) 0-10V dimmers w/ single-pole 20A relays, for 120/277V, 8 relays & dimmers _FH (Qty) 0-10V dimmers w/ single-pole 20A relays, for 120/277 and 347V, 8 relays & dimmers _FB1 (Qty) 0-10V dimmers w/ single 20A relays, 6 120V 20A circuit breakers, 8 relays & dimmers _FB2 (Qty) 0-10V dimmers, single pole 20A relays, 4 277V 20A circuit breakers, 8 relays & dimmers _FB3 (Qty) 0-10V dimmers, single pole 20A relays, 6 120V 15A circuit breakers, 8 relays & dimmers _FB4 (Qty) 0-10V dimmers, single pole 20A relays, 4 277V 15A circuit breakers, 8 relays & dimmers _FB6 (Qty) 0-10V dimmers, single pole 20A relays, 4 347V 20A circuit breakers, 8 relays & dimmers _FB7 (Qty) 0-10V dimmers, single pole 20A relays, 4 347V 20A circuit breakers, 8 relays & dimmers _H (Qty) single pole 20A relays for 120V, 277V or 347V, 8 relays	Accessories (Order separately) SYA SRE Recess kit for small enclosures SYA MRE Recess kit for medium enclosures SYA LRE Recess kit for large enclosures LSA DOC Job specific submittal and documentation	
NOTES: 1 Not available with MLC controller. 2 Only required for _R and _RB output types. All other modules come standard with RO option. 3 Only required for _R and _RB output types. All other modules come standard with RO option. RO option included when OS option is specified.			

Intended Use

Provides housing and electrical support for the relay power modules, dimmer power modules and system controller in a Synergy lighting control application.

Features

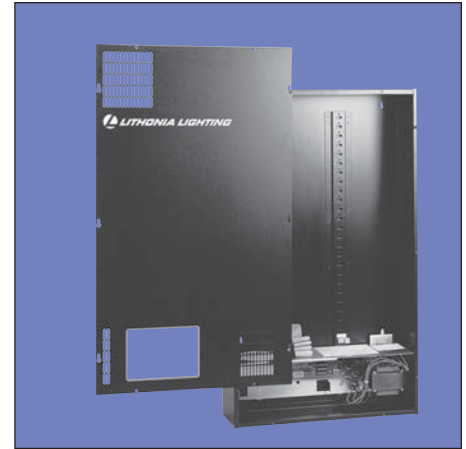
Synergy system enclosures are shipped from factory stock in three sizes, accommodating either 2, 4 or 6 power modules. The enclosures are fabricated from cold rolled steel, are designed for surface wall mounting and carry a NEMA 1 electrical rating.

An optional recessed mounting kit permits the enclosure to be flush-mounted in a six-inch thick wall.

All enclosures are shipped with a factory installed power supply with input terminals provided for either 120, 240, 277 or 347 volts supply voltage. Enclosures intended for use with dimmer modules are supplied with an internal thermostatically controlled cooling fan and a cover with hinged locking door to cover the power module mounted circuit breakers.

A variety of main lug, neutral bar and main breaker options are available to configure Synergy as a bussed three phase or single phase dimming/switching panel.

Listings – UL Listed to US and Canadian safety standards.



Ordering Information

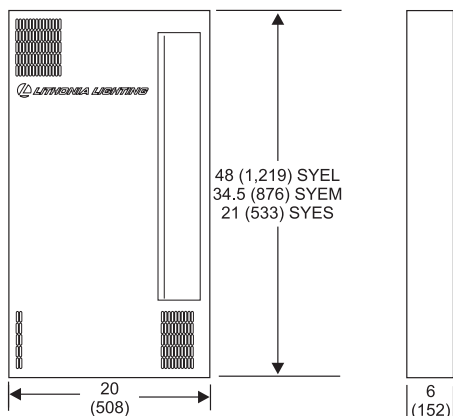
Example: **SYEM 120/277**

Series	Capacity	Voltage
SYE	S Small enclosure. 2 power module spaces. No circuit breaker door.	120/277 120/240/277V, 50 or 60Hz operation
	M Medium enclosure. 4 power module spaces. No circuit breaker door.	120/347 120/240/347V, 50 or 60Hz operation
	L Large enclosure. 6 power module spaces. No circuit breaker door.	
	SB Small enclosure. 2 power module spaces. Provision for circuit breakers ¹ .	
	MB Medium enclosure. 4 power module spaces. Provision for circuit breakers.	
	LB Large enclosure. 6 power module spaces. Provision for circuit breakers.	

Accessories (Order separately)

- SYA SRE** Recess kit for small enclosures
- SYA MRE** Recess kit for medium enclosures
- SYA LRE** Recess kit for large enclosures
- SYA BP** Plug for circuit breaker section opening
- SYPMB NBAR** Neutral bar assembly. Requires one module space.
- SYPMB MB_** Main breaker assembly, 3-pole. Specify capacity (30, 40, 50, 60, 70, 80, 90, 100). Requires one module space.

Dimensions are shown in **inches (millimeters)** unless otherwise noted. Add 1.5 (40) to height and width for recessed version.



Shipping Weight:

Small enclosure	30 lbs. (14 kg)
Medium enclosure	40 lbs. (18 kg)
Large enclosure	50 lbs. (23 kg)

NOTES:

- 1 Maximum one dimmer module

Synergy®

Synergy System Controllers



Intended Use

Provides user interface, display, clock and logic circuits for a Synergy lighting control system enclosure and a means to set up lighting control functions, including manual switching, manual and preset dimming, schedules, astronomic time control, photocell switching and daylighting.

Features

Constructed as a plug-in chassis to enhance initial installation and service ability. Used to set up and save operational features of the system. Provides support for external control devices (Synergy digital remote stations, Sequel® preset dimming control stations, digital Equinox® devices).

User interface is designed for simple operation using the soft key format popular on automated teller machines. Large backlit display provides text-based prompting and feedback for menu navigation as well as status, diagnostic information and alarms.

Astronomic feature built into Synergy's internal clock will calculate sunrise and sunset times for use in the lighting schedules. Controller also can read values from an accessory photocell and provide automatic switching or dimming of lighting based on the ambient light level.

See matrix below for additional features and capacities specific to the level of controller selected.

Ordering Information

Example: **SYSC MLX**

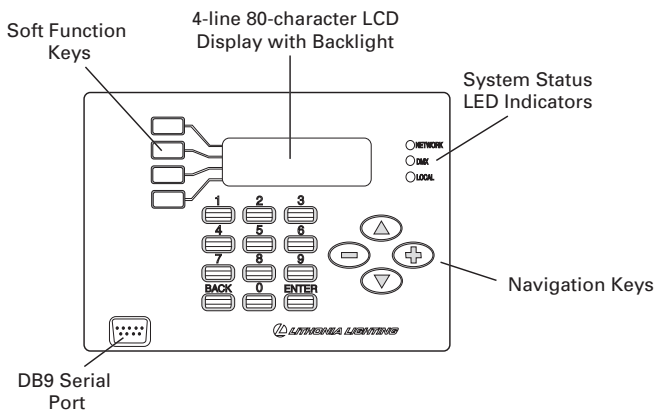
Series	Controller type
SYSC	MLC Basic system controller MLS Enhanced system controller MLX Network system controller

Options
ISA Three 16-bit ISA expansion slots
PHONE Telephone interface for voice-prompted override and remote modem access (requires ISA option) ¹
DMX Dimming interface, required for connection to DMX512 control signal

Accessories (Order separately)

- SYA SKIT** Permits two SYE enclosures to operate with a single MLS controller.²
- SYSW CONFIG** Windows™ configuration software and cable.²
- SYA CABLEA4** Class 2, four-conductor, plenum-rated network cable. Specify length: 250', 500', or 1000'.
- SYA CABLES2** Lithonia plenum-rated RS485 network cable. Specify length: 250', 500', or 1000'.²

Functional



Features Selection Table

System Function	MLC Controller	MLS Controller	MLX Controller
Relay Capacity (No breakers)	48	48 (96 total with secondary cabinet)	48 (96 total with secondary cabinet)
Relay Capacity (With breakers)	40	40 (80 total with secondary cabinet)	40 (80 total with secondary cabinet)
Dimmer Capacity	30	30 (60 total with secondary cabinet)	30 (60 total with secondary cabinet)
DMX512 Input	DMX channel-to-output configured via hardware settings	DMX channel-to-output configured via controller software	DMX channel-to-output configured via controller software
Scheduling	11 schedules, 99 events	100 schedules, unlimited events	100 schedules, unlimited events
Analog Input	YES	YES	YES
PC Support	YES	YES	YES
Script Logic	NO	YES	YES
Logging	NO	YES	YES
Priority Logic	NO	YES	YES
Network	NO	NO	YES
Telephone Override	NO	YES, optional	YES, optional
BACnet®	NO	NO	YES
RS232	YES	YES	YES
Modem	YES, optional	YES, optional	YES, optional
Sequel Stations	YES	YES	YES
Digital Remotes	YES	YES	YES

NOTES:

- 1 No voice-prompted override with SYSC MLC.
- 2 Not available with SYSC MLC.

Shipping Weight: 5.5 lbs. (2.5 kg)

Intended Use

Used in conjunction with system enclosure and controller to configure a Synergy system. Suitable for control of all types of lighting loads and lighting control applications. Combine relay and dimming modules into one system to create a complete lighting control system.

Features

Power modules feature terminal connections for standard low-voltage contact switches and analog inputs, providing manual ON/OFF and automatic photocell/occupancy sensor system control. Relay modules (8R and 8H) provide a remote pilot light output for each relay. Once configured, all module inputs operate in fail-safe mode and will control assigned outputs even with system controller removed from system. Relay (8R and 8H) and fluorescent 0-10V (8F) models can be ordered with optional circuit breakers for circuit overload and short-circuit protection.

Relays are single-pole and individually rated for control of a single 20A lighting circuit. Unique zero-cross switching technology minimizes destructive effects of switching large fluorescent lighting loads with electronic ballasts.

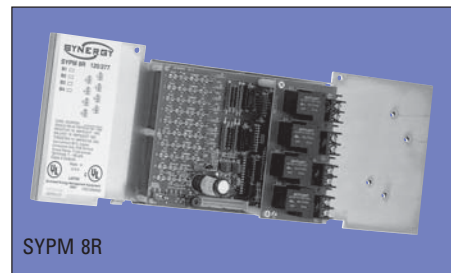
Unlike traditional relay switching systems, Synergy relays, with a rated life of 10 million mechanical operations, are not considered expendable components and are expected to last for the life of the system.

Each relay power module includes eight sets of terminal connections for use with standard low-voltage contact switches; eight pilot light output terminals; and two analog input terminal sets for use with photocell or analog devices.

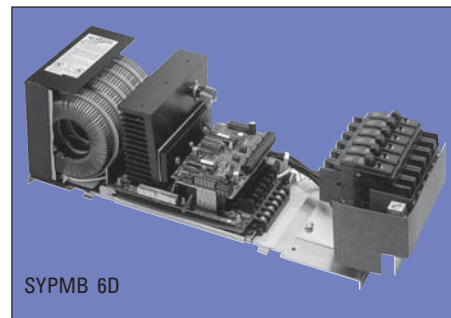
Fluorescent 0-10V dimmer module (8F) provides a programmable 0-10V input for control of a four-wire dimming ballast. Fluorescent 0-10V dimming, line-voltage dimming and switching can be integrated into one centralized lighting control system.

SYPMB 6D line-voltage dimmer module is equipped with integral input circuit breakers and individually rated to control a single 20A lighting circuit. All-digital design ensures smooth, dependable performance without field calibration. Unique digital signal processing techniques minimize effects of poor power quality and prevent noticeable flicker and drift. Dimmer response curves and trims can be optimized to accommodate most lamp and ballast types through software setup via user interface on system controller. Dimming controls can be set up for a wide range of applications using a variety of control sources, including Sequel control stations, digital remote stations, photocell, schedules and simple low-voltage switches.

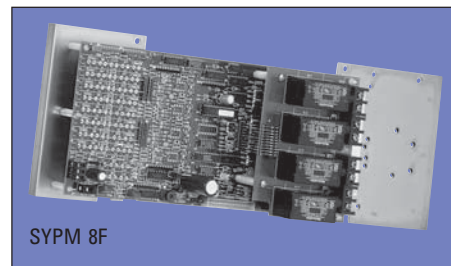
Listing – UL Listed to US and Canadian safety standards.



SYPM 8R



SYPMB 6D



SYPM 8F

Example: **SYPM 8R**

Ordering Information

Series	Type	Circuit Breakers / Voltage	Options
SYPM Module for use with external circuit breakers	8R Relay module with 8 single-pole 20A relays for 120 or 277V operation	(blank) No breakers B1 Six 20A 120V breakers B2 Four 20A 277V breakers B3 Six 15A 120V breakers B4 Four 15A 277V breakers B6 Four 20A 347V breakers ¹ B7 Four 15A 347V breakers ¹	RO Remote override. Accepts contact closure to force all relays to full in essential lighting applications. Replaces the on/off switch on PC board. OS Occupancy sensor. Light switch inputs for contact switches or occupancy sensors. ²
SYPMB Module with circuit breakers ¹	8H Relay module with 8 single-pole 20A relays for 347V operation 8F Ballast module with 8 single-pole 20A relays and 8 0-10VDC analog outputs		

Ordering Information

Example: **SYPMB 6DB1**

Series	Dimmers	Circuit breaker voltage
SYPMB	6D Six dimmers per module	B1 Six 20A CB, 120V B2 Four 20A CB, 277V B3 Six 15A CB, 120V B4 Four 15A CB, 277V B5 Four 20A CB, 120V 64 K AIC

Shipping Weight:

SYPM8R	22 lbs. (10 kg)
SYPMB 6D	4 lbs. (1.9 kg)
SYPM8F	8.5 lbs. (3.8 kg)

NOTES:

- 1 Not available with SYPM8R relay modules.
- 2 When SYPM8R is ordered with OS option, RO is provided as a standard feature.

Synergy®



Synergy Controllable Breaker Panel

Intended Use

Ideal for applications requiring circuit level remote control or lighting automation. Combines the powerful capabilities of the Synergy lighting control system with the familiar footprint of a standard circuit breaker panel. This unique concept provides fully automated lighting control without the need to install both a relay panel and a branch circuit breaker panel. Also requires less wall space and will often provide a lower installed cost.

Features

Scheduling – Using integral astronomic clock capability, lighting can be fully automated to conform to a rotating seven-day schedule. Astronomic feature provides dusk/dawn operation, eliminating the need for photocells. Holiday schedule allows entry of up to 32 periods. Blink-warn feature can blink lights automatically prior to a scheduled OFF.

Overrides – Use Synergy® digital remote stations to provide manual control of any

combination of breakers and override scheduled events. Each station can provide up to nine buttons with integral LED status indicators. A single four-wire cable is all that is required for connection of up to 60 (16 MLC controller) stations. Optional switch input card also allows the use of traditional low-voltage switches and other dry contact closures.

Networking – Panels can be networked together and used with other Synergy switching and dimming panels to form a building-wide lighting control system. Networked systems offer the flexibility of central control, monitoring and programming via PC software. Integrates with building automation systems via native BACnet™ protocol.

Capacity – Up to 42 circuits with 100, 225 or 400-amp bus. Controllable circuit breakers are available in 15, 20, or 30-amp single-pole or two-pole for 120/208-volt, 120/240-volt, or 277/480-volt operation. Compatible with non-controllable breakers.

Listing – UL and CUL listed.

Ordering Information

Example: **SYBP42 P2 225 BAB100 B SS MLX PHONE**

Panel Size	Voltage	Main feed options²	Controller type
SYBP18 18-pole capacity ¹	P1 120/208V	ML Main lug	MLC Basic controller for stand-alone panel operation. SYBPC MLC spec sheet.
SYBP30 30-pole capacity ¹	P2 277/480V	MB100 100A main breaker ³	MLS Enhanced controller for master/secondary panel operation. SYBPC MLS spec sheet.
SYBP42 42-pole capacity ¹	P3 347/600V	MB225 225A main breaker ³	MLX Enhanced controller for network panel operation. SYBPC MLX spec sheet.
		MB400 400A main breaker ³	SCP Secondary panel, less controller
	Maximum Rating	Main feed locations	Door type/mounting
	100 100 Amps	T Top feed	SS Standard surface
	225 225 Amps	B Bottom feed	DS Door-in-door surface
	400 400 Amps		SF Standard flush
			Options
			DMX Interface for connection to DMX512 control ⁴
			PHONE Telephone interface ⁵
			LVIN Eight low voltage switch and two analog inputs
			FA Factory-assembled interior with breakers and controllers ⁶

Controllable Breakers		Standard Breakers (Non-Controllable)	
SYBPB BABRS1020	120V, 20A, 1POLE	SYBPB BAB1020	120V, 20A, 1POLE
SYBPB BABRS1030	120V, 30A, 1POLE	SYBPB BAB1030	120V, 30A, 1POLE
SYBPB BABRS2020	120V, 20A, 2POLE	SYBPB BAB2020	120V, 20A, 2POLE
SYBPB BABRS2030	120V, 30A, 2POLE	SYBPB BAB2030	120V, 30A, 2POLE
SYBPB GHBS1020	277V, 20A, 1POLE	SYBPB GHB1020	277V, 20A, 1POLE
SYBPB GHBS1030	277V, 30A, 1POLE	SYBPB GHB1030	277V, 30A, 1POLE
SYBPB GHBS2020	277V, 20A, 2POLE	SYBPB GHB2020	277V, 20A, 2POLE
SYBPB GHBS2030	277V, 30A, 2POLE	SYBPB GHB2030	277V, 30A, 2POLE

Note: Contact factory for additional breaker sizes.

Accessories (Order separately)

- LSA DOC** Job specific submittal and documentation.
- SYSW CONFIG** Windows™ 95/98, 2000, NT or XP configuration software and cable.
- Order branch circuit breakers separately. See Branch Circuit Breaker Selection Table.

NOTES:

- Order Branch Circuit Breakers separately. See selection table at left.
- Consult factory for additional main breaker selections.
- Series Ratings on 100, 225 and 400A main breakers are 65K AIC with BAB breakers and 14K AIC with GHB breakers. Consult factory for additional series AIC ratings.
- For house lighting control only.
- Not available with MLC or SCP controllers.
- Must provide panel schedules.

Intended Use

Provides user interface, display, clock and logic circuits for the Synergy Controllable Breaker lighting control systems. The controller also provides the means to set up lighting control functions, including manual switching, manual and preset dimming (MLS/MLX models and Synergy dimming panel), schedules, astronomic time clock control, photocell switching and daylighting.

Features

Three models available provide a cost-effective solution for a wide range of lighting control applications. Provides interface for system settings, which are saved in non-volatile memory. Provides support for low-voltage inputs on systems with LVIN option and local area network user interfaces such as Synergy Digital Remotes, Sequel preset dimming control

and Digital Equinox (MLS/MLX models and Synergy dimming panel). See Synergy Controller Features Selection Table below for specific features and capabilities.

The controller keypad is designed for simple operation using the soft key format popular on automated teller machines. Large back-lit display provides text-based prompting and feedback for menu navigation as well as status, diagnostic information and alarms.

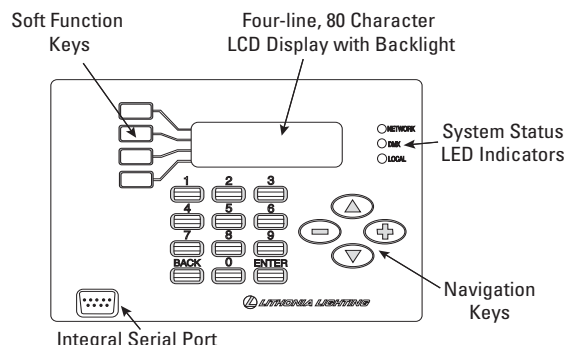
Astronomic feature built into internal clock will calculate sunrise and sunset times for use in lighting control schedules. The controller can also read values from an accessory photocell (systems with LVIN option) and provide automatic switching or dimming (MLS/MLX models and Synergy dimming panel) of lighting based on the ambient light levels.



Example: **SYBPC MLS DMX**

Ordering Information

Series ¹	Options
SYBPC Controllable breaker panel system controller	ISA Two 16-bit ISA expansion slots PHONE Telephone interface for voice-prompted override and remote modem access (requires ISA option) ²
Controller type	DMX Interface for connection to DMX 512 control signal for house lighting control.
MLC Basic system controller with programmer	
MLS Enhanced system controller with programmer	
MLX Network system controller with programmer	



Accessories (Order separately)

- SYBPA SCP_** Cable to connect secondary panel or Synergy enclosure to one MLS or MLX controller. Available in 6', 25', and 50'. Consult factory for longer distances. See Synergy Controller Features Selection Table for maximum number of breakers, relays, and dimmers.
- SYSW CONFIG** Windows™ configuration software and cable
- SYA CABLEA4** Class 2, four conductor, plenum rated network cable (Specify length: 250', 500' or 1000')
- SYA CABLES2** Lithonia plenum rated RS485 network cable (Specify length: 250', 500' or 1000')³

NOTES:

- This controller, identified as SYBPC MLC/MLS/MLX, can be ordered as an integral part of the SYBP nomenclature specification. See the SYBP specification sheet for ordering information.
- No voice-prompted override with SYBPC MLC.
- This accessory is only available with SYBPC MLX.

Features Selection Table

System Function	SYBPC MLC Controller	SYBPC MLS Controller	SYBPC MLX Controller
Controllable Breaker Capacity	42	42 126 Total w/ Secondary Cabinet	42 126 Total w/ Secondary Cabinet
Dimmer Capacity	NO	60 Total w/ Secondary Cabinet	60 Total w/ Secondary Cabinet
DMX512 Input	DMX Channel-to-Output Configured via hardware settings	DMX Channel-to-Output Configured via controller software	DMX Channel-to-Output Configured via controller software
Scheduling	11 schedules/99 events	100 schedules/unlimited events	100 schedules/unlimited events
Analog Input	YES	YES	YES
PC Support	YES	YES	YES
Script Logic	NO	YES	YES
Logging	NO	YES	YES
Priority Logic	NO	YES	YES
Network	NO	NO	YES
Telephone Override	NO	YES, optional	YES, optional
BACnet®	NO	NO	YES
RS232	YES	YES	YES
Modem	YES, optional	YES, optional	YES, optional
Sequel Stations	NO	YES	YES
Digital Remotes	YES	YES	YES

Sequel Control Stations



Intended Use

Provide manual dimming and preset lighting control for architectural dimming applications. Offered in a variety of styles and architectural finishes suitable for virtually any application. May be daisy-chained together with SYRS digital remote stations for multi-location control. Compatible with SQDC and Synergy dimmer cabinets.

Features

Functions – Master raise/lower buttons adjust the intensity of all lights dimmed from the station. Channel raise and lower buttons adjust the intensity level of individual channels. LED bar graph displays intensity level. Select button saves presets. Fade time is adjustable for each preset scene. Preset button saves and activates presets. *Off* function turns off all

lighting. Low-end and high-end dimming limits and dimmer curves are adjustable per channel.

Installation – Mounting in Lithonia #SQCS 5GB or RACO 699 five-gang backbox for four-channel and eight-channel stations. Lithonia #SQCS 8GB backbox for 12-channel and 16-channel stations.

Classification – Class 2 low voltage device.

Ordering Information

Example: **SQCS 6P 4C BJ4 TR**

Series

SQCS Sequel Control Station

Number of presets and channels

6P 4C 6 presets, 4 channels
6P 8C 6 presets, 8 channels
6P 12C 6 presets, 12 channels
6P 16C 6 presets, 16 channels

Finish

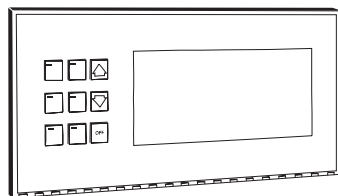
BJ4 Brushed stainless steel, black buttons
BL4 Painted black, black buttons
WC2 Painted white, white buttons
IE3 Painted ivory, ivory buttons
BF4 Polished brass, black buttons
SK1 Polished stainless steel, chrome buttons
BM4 Painted brown, black buttons

Wallplate style

SD Solid
TR Translucent

Dimensions are shown in **inches (millimeters)** or pounds (**kilograms**) unless otherwise noted.

Series	Width	Thickness	Height	Weight
SQCS4C	10-1/8(257)	1/4(6)	4-5/8(117)	2-1/2(1.13)
SQCS8C	10-1/8(257)	1/4(6)	4-5/8(117)	2-1/2(1.13)
SQCS12C	15-7/16(392)	1/4(6)	4-5/8(117)	4(1.8)
SQCS16C	15-7/16(392)	1/4(6)	4-5/8(117)	4(1.8)



Accessories (Order separately)

- SQCS 5GB** 5-gang backbox for 4C and 8C stations.
- SQCS 8GB** 8-gang backbox for 12C and 16C stations.
- BKLE 6PB** Engraved button caps. Specify wording.
- SQCS RE8** Recessed enclosure for 4C and 8C stations.
- SQCS RE16** Recessed enclosure for 12C and 16C stations.
- SQCS PE8** Portable enclosure for 4C and 8C stations. Specify color.
- SQCS PE16** Portable enclosure for 12C and 16C stations. Specify color.
- SQRSI** Remote station/AV dry contact interface.
- SQCS PR** Portable receptacle.

Intended Use

Provides a convenient means to add pushbutton controls for on/off, preset, raise/lower, partition control, or other user interface to a Synergy lighting control system. With the EXT option, the remote also provides input and output points to the system for connection of remote relays, occupancy sensors, analog photocells, and four wire fluorescent dimming ballasts.

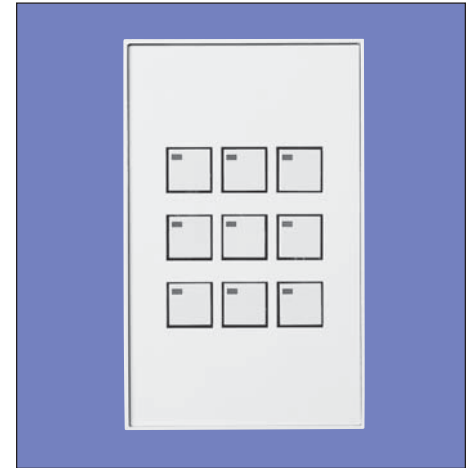
Features

Stations are single gang, screw-less appearance and are available with 1 to 9 buttons in a variety of painted and metallic finishes. Button caps can be engraved with labels having up to two lines of text.

Integral LED indicator on each button provides status.

Stations connect to a Synergy system controller via the four wire A4 control station network wire which can be shared by up to 60 digital remote and Sequel control stations. An optional infrared receiver provides operation and programming of station functions from an accessory hand held transmitter.

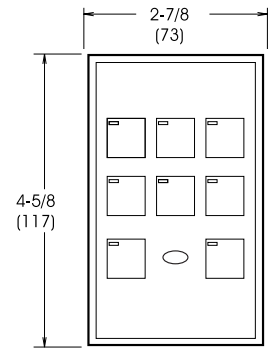
EXT option provides low voltage connection for one zone of fluorescent dimming with on/off using the LPCS power control station. The analog input is suitable for use with the DEQ APS photocell. The switched input can be used for connection of a Litronic occupancy sensor head.



Example: **SYRS 1G 9BT BJ4**

Ordering Information

Series	Number of gangs	Number of buttons	Finish	Options
SYRS	1G 1	_BT (1 to 9)	BJ4 Brushed stainless steel BL4 Painted black WC2 Painted white IE3 Painted ivory BM4 Painted brown BF4 Polished brass SK1 Polished stainless steel	IR Infrared receiver, even number of buttons only. EXT External input output, odd number of buttons only.
Accessories (Order separately)				
SYRS 1GR	Plaster ring, mounts to 4" box (by others)			
SYWR 6B	Infrared wireless remote.			
SYWR HHP	Infrared wireless hand-held programmer			
SYA CABLE A4	Plenum rated network cable (specify 250ft., 500ft. or 1000ft.)			
BKLE 5SB	Engraved button caps for up to 5 switches (specify wording)			
BKLE 9SB	Engraved button caps for up to 9 switches (specify wording)			
DEQ APS IN	Indoor analog photocell			



Dimensions are shown in inches (millimeters) unless otherwise noted.

Infrared Transmitter

Intended Use

Provides for remote control of lighting functions in a Synergy system. Operates in conjunction with the infrared receiver on the SYRS digital remote station. The HHP version is useful in providing preset dimming control without the need for a Sequel control station.

Features

Six-button unit provides remote activation of four presets, master raise/lower and on/off. The HHP 17-button version permits the saving of lighting presets as well as manual control of up to 12 dimming channels and 12 preset scenes.

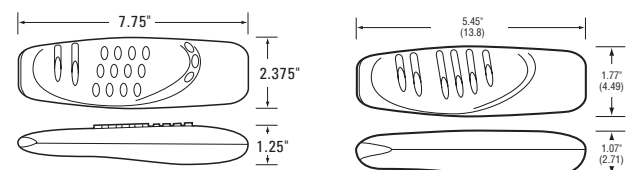
SYWR



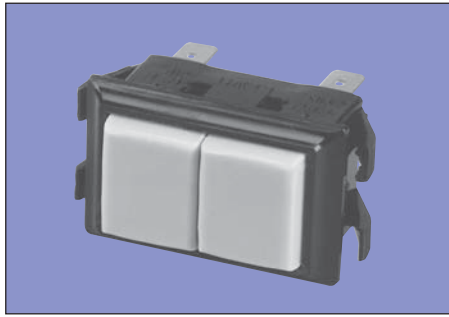
Ordering Information Example: **SYWR HHP**

Series	Type
SYWR	6B 6-button remote transmitter HHP 12-button hand-held programmer

Dimensions are shown in inches (millimeters) unless otherwise noted.



LVMS



Ordering Information

Example: **LVMS IV**

Series	Options	Cap color
LVMS	(blank) Standard switch	IV Ivory
	FILLER Snap-in blank filler to cover an unused wallplate opening	WH White
	PILOT Pilot light switch	
	KEY Key-operated switch	
	PILOT KEY Key-operated pilot light switch	

Low Voltage Momentary Switch

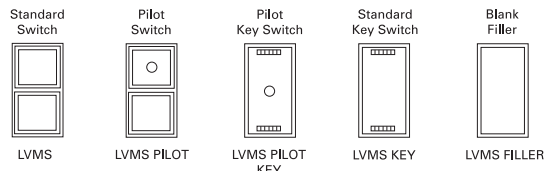
Features

Lithonia LVMS switches are used with WPM wallplates to provide a durable and attractive solution for configuring low voltage control switch assemblies. Switches snap-fit into the wallplates and are supplied with push-on connectors for low voltage wire connections. Use with Synergy lighting control panels or SwitchPak panels.

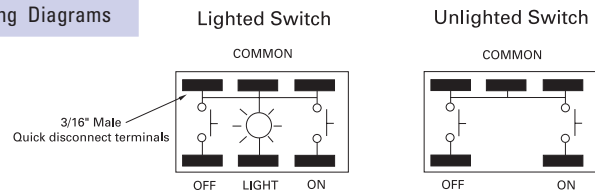
Classification – Class 2 low voltage device.

Classification – Class 2 low voltage device.

Configurations

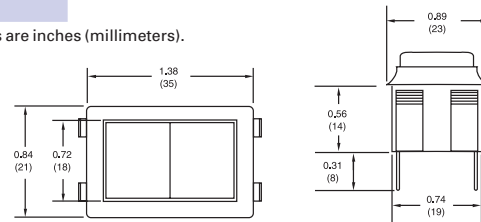


Wiring Diagrams



Dimensions

All dimensions are inches (millimeters).



WPM



Ordering Information

Example: **WPM 1G 2MS BS**

Series	Number of gangs	Number of openings	Finish	Options
WPM	_G 1 to 10	_MS 1 to 20 ¹	BS Brushed stainless	LE Engraved faceplate ²
			WH Painted white	
			IV Painted ivory	

NOTES:

- 1 Must equal the number of gangs (one switch per gang) or two times the number of gangs (two switches per gang).
- 2 Two lines, seven characters per line for two switches per gang plate or two lines; 12 characters per line for one switch per gang plate.

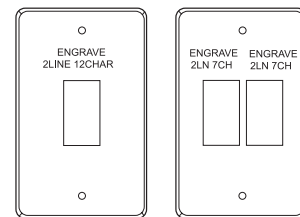
Wallplate for Low Voltage Momentary Switch

Features

Lithonia WPM wallplates provide a durable and attractive solution for configuring low voltage control switch assemblies. Wallplates are offered in a variety of sizes and configurations and are punched to accept snap-in LVMS low voltage momentary switches.

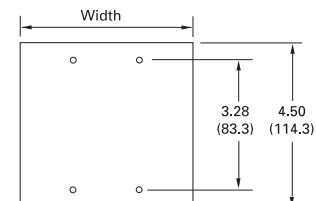
Classification – Class 2 low voltage device.

Configurations



Dimensions are shown in inches (millimeters) unless otherwise noted.

No. of Gangs	Width
1	2.75(69.9)
2	4.56(115.8)
3	6.38(162.1)
4	8.18(207.8)
5	10 (254)
6	11.81(300)
7	13(346.2)
8	15.44(392.2)
9	17.25(438.15)
10	19.06(484.13)



Low Voltage Remote Stations

LVRS

Features

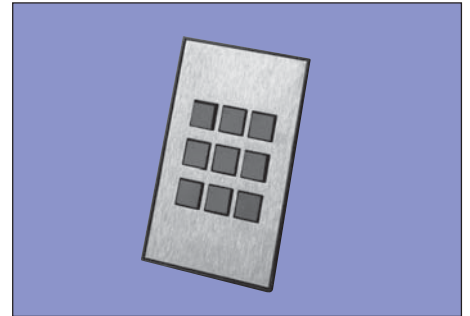
Available with one to nine buttons in a variety of finishes. Optional LED pilot light indicates button or preset activation. Stations are low profile, specification grade with no exposed fasteners, metallic and painted finishes, and microtravel switch action. Optional engraved button caps available.

Operation – Provides low-voltage inputs to lighting control systems for ON/OFF, raise/low and/or presets with applicable systems. Optional LED pilot light provides positive indication of button or preset activation.

Installation – Mounts to Lithonia SYRS 1GR or Steel City 52C13 one-gang plaster ring attached to a grounded 4" square, 2-1/2" deep outlet box or to a grounded Steel City GW-125-G one-gang masonry box (1-7/8" minimum inside width, 2-1/2" minimum inside depth).

Intended Use

The LVRS low-voltage remote station is ideal when one to nine button stations are required for lighting control system inputs. The low voltage switches can be used for ON/OFF, raise/lower, and presets with applicable systems. Stations are compatible with Synergy® and SwitchPak™ systems.



Example: **LVRS 1G 9SW BJ4 PL**

Ordering Information

Series	No. of gangs	No. of switches	Finish	Options
LVRS	1G	_SW 1 to 9	BJ4 Brushed stainless steel, blackframe and buttons BA4 Brushed aluminum, black frame and buttons BL4 Painted black, black frame and buttons WC2 Painted white, white frame and buttons IE3 Painted ivory, ivory frame and buttons BM4 Painted brown, black frame and buttons BF4 Polished brass, black frame and buttons SK1 Polished stainless steel, chrome frame and buttons	PL 24VDC LED pilot indicator

Accessories		(Order separately)
SYRS 1GR	Plaster ring mounts to 4" box (by others).	
BKLE 10P	Engraved button caps for up to 5 switches. (Specify cap color and wording.)	
SQRS RE	Recessed locking NEMA 1 enclosure.	
SQRS SE	Surface locking NEMA 1 enclosure.	
SQRS PE	Portable enclosure, cable and plug.	
SQRS PR	Portable receptacle.	

Intended Use

The SweepSwitch provides individual local line voltage override control of lighting in time-based control schemes. Can be used manually to turn lighting *on* and *off* in the normal manner. Resets itself automatically to the off position in response to a programmed power interruption signal provided by the lighting control panel.

Features

Operation – Works like a standard wall

switch for on/off operation. Automatically resets to off when power is removed for approximately five seconds. Switch handle is lighted for easy location in the dark.

Electrical – Connects into the circuit using standard wiring. Device is not line/load sensitive and does not require a neutral connection.

Mechanical – SweepSwitch is a strap-mount device that mounts in a standard single-gang switch box and uses a standard toggle-opening wallplate (not included).

Listings – UL listed and CSA Certified.

SweepSwitch®

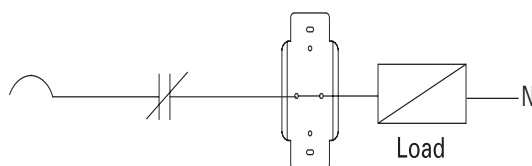


Ordering Information

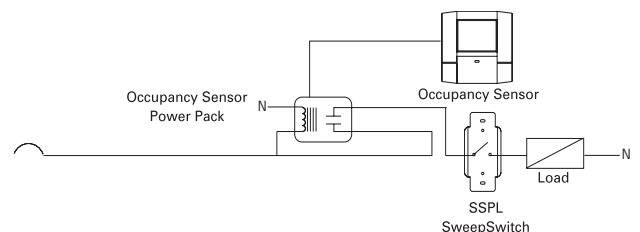
Example: **SSPL 05 277**

Series	Amperage	Voltage
SSPL	05 0.1 to 5 amps 20 1.0 to 20 amps	277 120V or 277V dual voltage

SweepSwitch with Relay Panel



SweepSwitch with Occupancy Sensor



SwitchPak™

Lighting Control Panel



Intended Use

A compact and economical lighting control panel that offers simplified solutions for a broad range of lighting control applications. This time-based controller switches lighting ON/OFF at pre-set times while managing a variety of low-voltage inputs. Relays are rated to directly switch 20A lighting loads, eliminating the need for external contactors or relays.

Features

Simple Set-Up and Operation – Programming is quick and easy using large LCD display with associated soft keys and automatic ReadyHelp™ on-screen help guide. Unique quick-assign keys provide one-touch program selections and instant override.

Scheduling – Individual daily schedules automatically repeat for seven-day lighting load operations. Holiday schedule accommodates 32 dates. Astronomic and auto Daylight Savings Time operation.

Warn-before-off feature flashes lights prior to turning OFF.

Overrides – Eight low-voltage switch inputs can be programmed to provide manual control of any combination of relays or override one to eight zones of scheduled lighting. Analog photocell input does not require remote calibrations.

System Remote Option – A single SwitchPak provides a complete lighting control solution and can be used to control operation of additional units. This powerful option expands the capability of SwitchPak to a system level without adding the complexity often associated with networked systems.

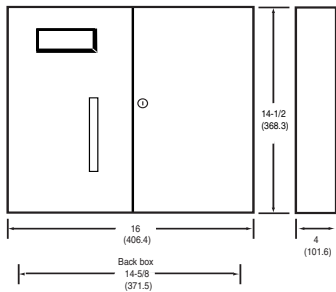
Housing – NEMA 1 enclosure wall-mount with hinged locking cover. Separate line- and low-voltage compartments.

Capacity – Eight single-pole, 20A rated relays for 120/277 dual voltage or for 347-volt operation. Optional configurations of 480-volt two-pole relays.

Ordering Information

Example: **SPAK 8S 120/277**

Series	Relays/Poles	Voltage	Options
SPAK SwitchPak	8S Eight single-pole, 20A relays	120/277 120/277V dual voltage	SR System remote ²
	4S Four single-pole, 20A relays	120/347 120/347V dual voltage ³	
	4S2D Four single-pole, 20A relays and two double-pole, 30A relays ^{1,3}		
	4D Four double-pole, 30A relays ^{1,3}		



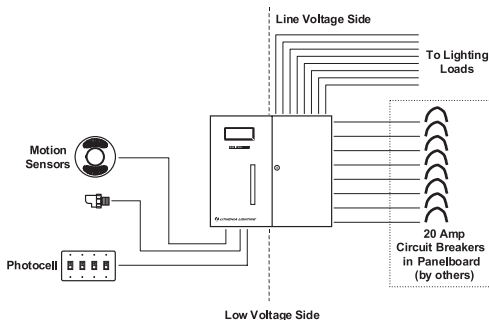
System View

Accessories (Order separately)

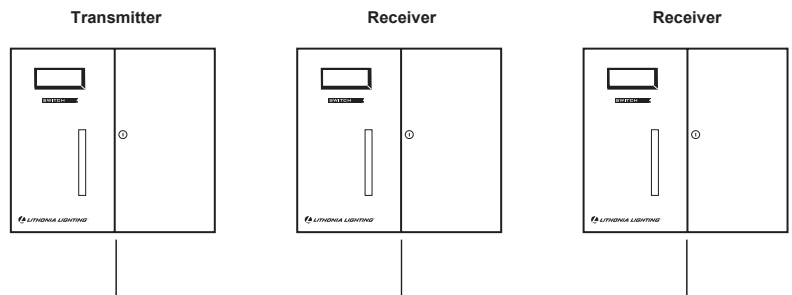
- LSA APS OL** Analog photocell (outdoor mounting)
- LSA APS IN** Analog photocell (indoor mounting)
- LVMS PILOT IV** Override switch with pilot, ivory
- LVRS** Override switch gang with eight push buttons with pilots on each

NOTES:

- 1 Double-pole relays not available with 347V.
- 2 Specify **SR** for every SwitchPak to be linked together.
- 3 Consult factory for availability.



System Remote View



Digital Equinox Ballast Controller

Intended Use

Provides effective control of fluorescent lighting equipped with compatible 4-wire electronic dimming ballasts. Wall-mounted control station provides local *on/off*, manual dimming and automated daylight dimming control in localized applications.

Features

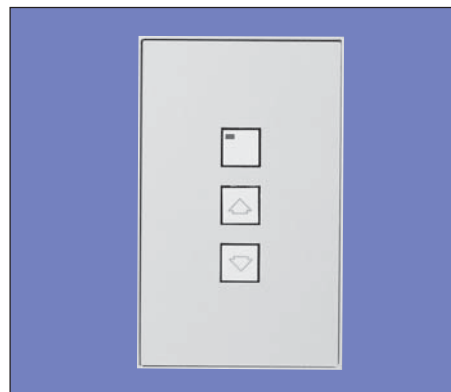
In daylighting applications, raise/lower buttons provide a simple way to establish target light level set-point for the integral PID logic circuitry. Once set, DEQ BC will vary dimmed fixtures to maintain desired light level in response to amount of natural

light detected by DEQ APS IN photocell.

Local switching of fixtures is provided by LPCS power control station, which eliminates the need for home run wiring back to panel mounted relays. Switching can be automated based on occupancy using Litronic Series occupancy sensor heads.

In stand-alone configuration, the DEQ BC wall station acts as a hub for the connection of the low voltage photocell, occupancy sensor, power control station and ballast control leads. The integral logic circuits provide fully integrated lighting control of a single zone.

Digital Equinox®



Ordering Information

Example: **DEQ BC BJ4**

Series	Finish
DEQ BC Digital Equinox Ballast Controller	BJ4 Brushed stainless steel, black frame and buttons
	BA4 Brushed aluminum, black frame and buttons
	BL4 Painted black, black frame and buttons
	WC2 Painted white, white frame and buttons
	IE3 Painted ivory, ivory frame and buttons
	BM4 Painted brown, black frame and buttons
	BF4 Polished brass, black frame and buttons
	SK1 Polished stainless steel, chrome frame and buttons

Accessories (Order separately)

SYRS 1GR	Plaster ring. Mounts to 4" box, by others.
DEQ APS IN	Indoor analog photocell.
LPCS	Power control station

Digital Equinox Load Controller

Intended Use

Integrates a localized zone of fluorescent lighting equipped with compatible four-wire electronic dimming ballasts into a Synergy system. Plenum-mounted DEQ LC load controller provides *on/off*, dimming and automated daylight dimming control for a single lighting zone when a wall mounted control station is not desired.

Features

The DEQ LC installs in the plenum above the area to be controlled in place of the cover on a standard junction box. Operational features are similar to the DEQ BC above except no provision is made for

local raise/lower operation. The set point for the zone is established via the network connection.

DEQ LC load controller acts as a hub for the connection of the low voltage photocell, occupancy sensor, power control station, and ballast control leads. If desired, a standard wall switch can be used for local ON/OFF operation making the control system totally unobtrusive to the user.

When connected as part of a Synergy system, the DEQ LC can share status, set-point and override functions with all Synergy system controllers, PC graphics, and other building control systems through the BACnet protocol.



Accessories (Order separately)

DEQ LC COVER	White plastic cover for use when ceiling-mounted.
DEQ LC COVERSS	Stainless cover for return air plenum applications.
DEQ APS IN	Indoor analog photocell.
LPCS	Power control station

Ordering Information Example: DEQ LC

Series
DEQ LC Digital Equinox Load Controller

DEQ APS



Analog Photosensor

Intended Use

A low voltage system component to provide ambient light level information to Digital Equinox ballast controller for dimming or daylight harvesting applications.

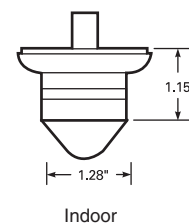
Features

This indoor device is factory calibrated to accommodate the relatively low light levels normally found on the ceiling in office applications. The DEQ APS is recommended for use with the DEQ BC or DEQ LC for daylight applications.

Ordering Information

Example: **DEQ APS IN**

Series	Photosensor type	Mounting type	Option
DEQ Digital Equinox accessory	APS Analog photosensor	IN Indoor	CNPY Canopy mount to 4" square junction box



LSA APS



Analog Photosensor

Intended Use

A low voltage system component that provides ambient light level information to a Synergy or SwitchPak lighting control system for use in dimming, switching or daylighting applications.

Features

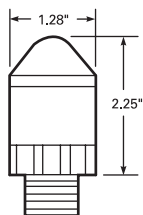
Unit for indoor applications mounts directly to ceiling tile via peel and stick adhesive backing or mounts to J box using optional canopy.

The outdoor unit is factory calibrated to accommodate the relatively low light levels normally found at the ceiling in office lighting applications. Units for outdoor or skylight applications mount to J box via integral 1/2" nipple and connect directly to a Synergy or SwitchPak system.

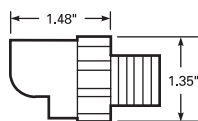
Ordering Information

Example: **LSA APS IN**

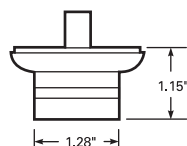
Series	Photosensor type	Mounting type	Option
LSA Lithonia system accessory	APS Analog photosensor	IN Indoor OL Outdoor (0-100 fc) OH Outdoor (0-1000 fc) S Skylight/atrium (0-10,000 fc)	CNPY Canopy mount to 4" square junction box



Skylight/Atrium



Outdoor



Indoor

ISD DPC

Intended Use

Connects directly to up to 80 compatible four-wire dimming ballasts with Class 2 low voltage control wire. Photocell automatically maintains a constant preset lighting level.

Features

Operation – Automatically maintains a constant preset lighting level in response to the availability of natural daylight (Daylighting) and/or automatically maintains a constant preset light level over the life of the lighting system (Lumen Depreciation

Maintenance). 7-140 footcandles response range $\pm 1\%$ at 70°F. Immediate or extended fade time response to light level changes.

Housing – Low-profile, UV-stable, white ABS housing with flat Fresnel lens.

Installation – Mounts directly to the ceiling tile. Class 2 low voltage control wire.

Compatibility – Four-wire dimming ballasts as indicated on page 510. An LCPS power pack is not required with this device.

Classification – Class 2 low voltage device.

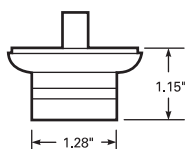


Ordering Information

Example: ISD DPC

Series

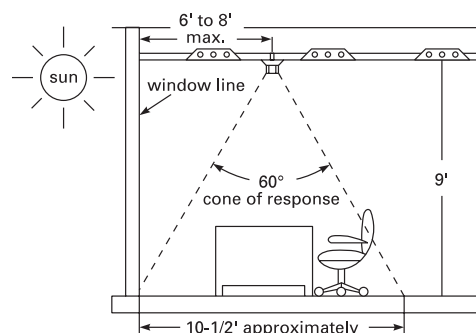
ISD DPC Dimming Photocell



Applications (See figure at right)

Install near fixtures being controlled or central to circuit being controlled. Cone of response of photocell (60°) must contain area that is lit by fixtures being controlled. Cone of response area must not contain any artificial uplight (i.e., desk lamp).

For day lighting, photocell should be installed six to eight feet from window line, depending on ceiling height, so that cone of response only contains work area inside actual window line. Can be used with an ISD BC ballast controller for auto and manual dimming control.



Power Control Station

LPCS

Intended Use

Provides for the switching of line voltage lighting loads when used in conjunction with a Litronic occupancy sensor head or Digital Equinox ballast controller.

Features

Injection-molded housing has integral threaded nipple for mounting to a 1/2" J box knock out. The unit can be mounted inside the J box or fixture housing when a return air plenum rating is required.

An integral 24V DC power supply provides power for operation of Litronic sensing heads or digital Equinox DEQ BC station in stand-alone configuration. Relay is 20A rated for ballast loads at 120V or 277V, 15A at 347V and 15A at 120V for tungsten loads.

Listing: UL listed to U.S. and Canadian safety standards.



Ordering Information

Example: LPCS 277

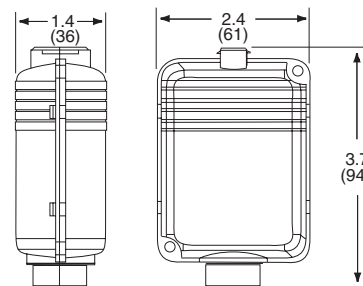
Series

LPCS Power Control Station

Voltage

120
277
347

Dimensions are shown in inches (millimeters) unless otherwise noted.





Ordering Information

Series
LMT Directional unit
LMT0 Omni-directional ceiling mount

Accessories (Order separately)

LPCS ___ **S11** Power control station, 120, 277 or 347V as required for operation of sensing head. See spec sheet LPCS. Example: LPCS 277 S11



Ordering Information

Series
LUSO Omni-directional ceiling mount

Accessories (Order separately)

LPCS ___ **S11** Power control station, 120, 277 or 347V as required for operation of sensing head. See spec sheet LPCS. Example: LPCS 277 S11

LMT Series Multi-Tech Occupancy Sensors

Intended Use

A directional or omnidirectional occupancy sensor employing both infrared and ultrasonic sensing technologies to provide effective coverage for automatic *on/off* lighting control in indoor applications. Immediately switches lights on when movement is detected. After room is vacated for a preset length of time, sensor automatically switches lights *off*.

Features

Operation – LMT0 ceiling-mounted unit detects movement in areas up to 2000 square feet with a 360° detection field. LMT directional unit detects movement in a 110° field

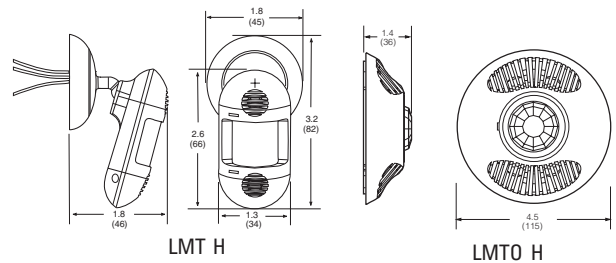
of view. Accessible timer and sensitivity controls are self-adjusting to compensate automatically for usage and occupancy patterns. 32 kHz ultrasonic operation eliminates interference with hearing aids.

Installation – LMT0 mounts to 4" box using mud ring with 2.75" screw spacing or directly to ceiling tile via threaded stem (included). LMT mounts to wall or ceiling and can be aimed as needed using the integral mounting bracket. Sensing head requires accessory LPCS Power Control Station or connection to Synergy system for operation.

Classification – Class 2 low voltage device.

Example: LMT H

Sensing head
H Sensing head, requires LPCS S11 power control station for operation



Dimensions are shown in inches (millimeters) unless otherwise noted.

NOTES:

- 1 For coverage patterns and wiring diagrams, see LIT 3000 and LIT 4000 specification sheets.

LUSO Series Ultrasonic Occupancy Sensors

Intended Use

Omni-directional ceiling-mount sensor using ultrasonic sensing technology to provide effective coverage for automatic *on/off* lighting control in indoor applications. Sensor immediately switches lights on when movement is detected. After room is vacated for a preset length of time, sensor automatically switches lights *off*.

Features

Operation – Detects movement in areas

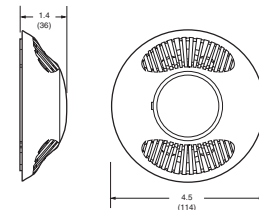
up to 2000 square feet with a 360° detection field. Accessible timer and sensitivity controls are self-adjusting to compensate automatically for usage and occupancy patterns. 32 kHz operation eliminates interference with hearing aids.

Installation – Mounts to 4" box using mud ring with 2.75" screw spacing or directly to ceiling tile via threaded stem (included).

Classification – Class 2 low voltage device.

Example: LUSO H

Sensing head ¹
H Sensing head, requires LPCS S11 power control station for operation



NOTES:

- 1 For coverage patterns and wiring diagrams, see LUSO specification sheet.

Intended Use

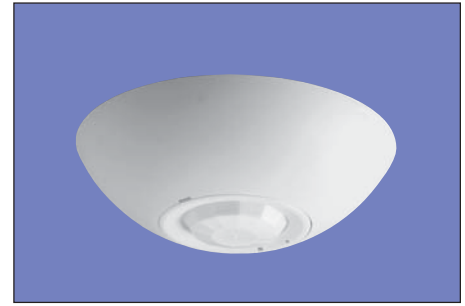
Directional or omni-directional ceiling-mount sensor using passive infrared sensing technology to provide effective coverage for automatic *on/off* lighting control in indoor applications. Sensor immediately switches lights on when movement is detected. After room is vacated for a preset length of time, sensor automatically switches lights *off*.

Features

Operation – Detects movement in areas up to 1500 square feet with a 360° detection field. Accessible timer and sensitivity controls are self-adjusting to compensate automatically for usage and occupancy patterns.

Installation – Mounts to 4" box using mud ring with 2.75" screw spacing or directly to ceiling tile via threaded stem (included).

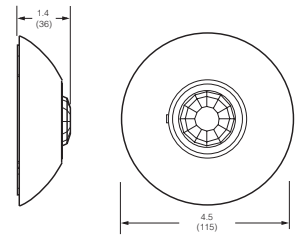
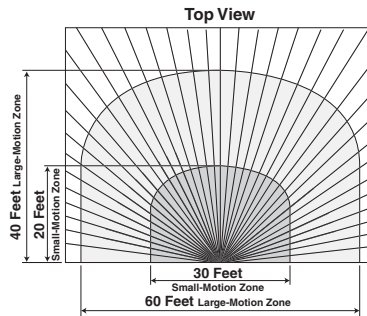
Classification – Class 2 low voltage device.



Ordering Information

Example: **LIRO**

Series	
LIR	Directional unit
LIRO	Omni-directional ceiling-mount unit
Accessories	(Order separately)
LPCS S11	Power control station, 120, 277 or 347V as required for operation of sensing head. See spec sheet LPCS.



Dimensions are shown in inches (millimeters) unless otherwise noted.

LIRW Series Infrared Wallbox Sensors

Intended Use

Designed to replace a standard wall switch to provide automatic occupancy lighting control in a variety of applications. Sensor will immediately switch lights *ON* when movement is detected. After room is vacant for a preset time, sensor automatically switches lights *OFF*.

Features

Compatible with most lamp types, including magnetic and electronic fluorescent ballasts, high power factor compact fluorescent and incandescent loads. Special zero cross switching circuit eliminates problems with high inrush currents. Product is dual rated for 120/277 VAC with no minimum load requirement.

Operation – Detects movement over 2000 ft² area with 180° coverage pattern. Front-mounted override switch permits *OFF* override of automatic operation or manual *ON/OFF* operation. LED indicates when motion is detected. Integral photocell can be set to restrict *ON* operation when sufficient ambient light is present.

Installation – Strap-mount device mounts to standard single-gang switch box. Can be ganged with other Decora-style devices.

Listing – UL Listed, CSA, NOM and California Title 24 certified.

Warranty – Five-year total customer satisfaction warranty.



Ordering Information

Example: **LIRW 120/277**

Series	Voltage	Colors
LIRW	120/277	WH White IV Ivory

Accessories (Order separately)

DSA FP D_IV Ivory screwless faceplate for LIRW or Decora compatible devices. Specify number of gangs from one to six devices.

DSA FP D_WH White screwless faceplate for LIRW or Decora compatible devices. Specify number of gangs from one to six devices.

Sequel® IDC



Integrated Wallbox Dimming System

Intended Use

Provides manual and preset dimming of most lamp types in wallbox applications. Offered in a variety of styles and architectural finishes. May be used singly, with matching remote stations or interfaced with external systems.

Features

Master raise/lower buttons adjust intensity of all lights dimmed from station. Channel raise and lower buttons adjust intensity level of individual channels. LED bar graph displays intensity level. Select button saves presets. Fade time is adjustable for each preset scene. Preset button saves and activates presets. *Off* function turns off all lighting. Low-end and high-

end dimming limits and dimmer curves are adjustable per channel.

Terminals on rear of station allow access from SQRS remote stations or momentary dry contact closures to: six presets, master raise/lower, channel raise/lower, select and *off*.

Overall maximum is 2000VA. Maximum per output (1-4) is 600VA electronic ballast or 800VA incandescent, magnetic low voltage and magnetic ballast, 600VA electronic two- and three-wire fluorescent ballasts. Mounts in five-gang masonry wall box.

Listings – UL listed to US and Canadian safety standards.

Ordering Information

Example: **SQIDC 2000 6P 4C BJ4 TR 120**

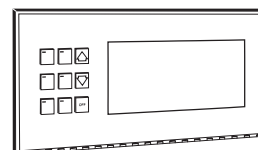
Series SQIDC	Capacity (VA) 2000 2000 watts	Number of presets and channels 6P 4C 6 presets, 4 channels 6P 8C 6 presets, 8 channels ¹	Finish BJ4 Brushed stainless steel, black buttons BA4 Brushed aluminum, black buttons BL4 Painted black, black buttons WC2 Painted white, white buttons IE3 Painted ivory, ivory buttons BF4 Polished brass, black buttons SK1 Polished stainless steel, chrome buttons BM4 Painted brown, black buttons	Wallplate style SD Solid TR Translucent	Voltage 120
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Accessories (Order separately)

SQCS 5GB	5-gang backbox for 4C and 8C stations.
BKLE 6PB	Engraved button caps. Specify wording.

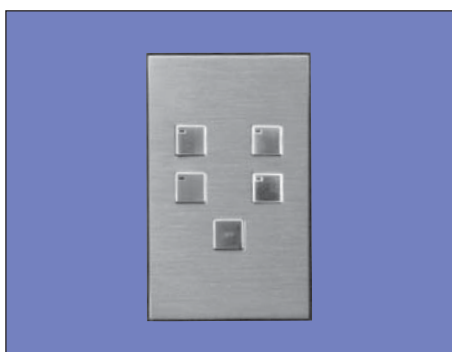
Dimensions are shown in inches (millimeters) unless otherwise noted.

Series	Width	Thickness	Height
SQIDC	10-1/8 (257)	1/4 (6)	4-5/8 (117)



NOTES:

1 8-channel unit requires Sequel MiniPac dimmer cabinet for control of loads on channels 5-8.



Remote Stations

Intended Use

Activates control functions in conjunction with the Sequel IDC Wallbox Dimming System.

Features

Operation – Functions include preset recall, channel raise/lower, master raise/lower and *off*.

Installation – Mounts to a Lithonia SYRS 1GR box or 2" wide single-gang switch box.

Classification – Class 2 low voltage device.

Ordering Information

Example: **SQRS2S BJ4**

Series SQRS	Number of buttons 1S 1 button 2S 2 buttons 3S 3 buttons 4S 4 buttons 5S 5 buttons 6S 6 buttons 9S 9 buttons	Finish See SQIDC finishes above	Accessories (Order separately) SYRS 1GR 1-gang plaster ring. SQRS RE Recessed enclosure for remote station. SQRS PE Portable console for remote station. Specify color and cord length. BKLE _SB Engraved button caps. Specify 5 (1-5 buttons) or 9 (6-9 buttons). Example: BKLE 9SB
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Dimensions are shown in inches (millimeters) or pounds (kilograms) unless otherwise noted.

Series	Width	Thickness	Height	Weight
SQRS	2-7/8 (73)	1/4 (6)	4-5/8 (117)	1/2 (.2)

Sequel® IDC

Intended Use

Adds high wattage dimmer capability to the Sequel IDC wall box dimming system. Packs can be used for channels 5–8 on the SQIDC 6P 8C unit or in addition to channels 1–4 on the SQIDC 6P 4C when high wattage capacity dimming is required.

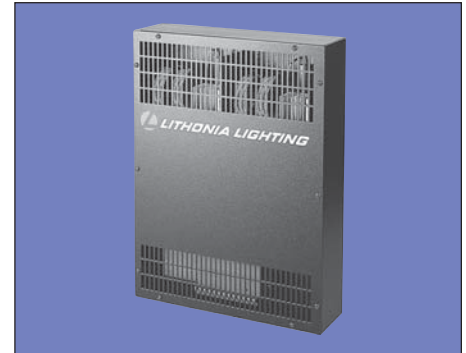
Features

High quality integral filters minimize lamp noise making these dimmers suitable for use in low ambient noise applications. An integral switch matrix allows dimmers to be

assigned to IDC channels in a flexible manner.

Dimmers are cooled through natural convection flow provided by front cover venting and are available with or without positive air gap ON/OFF relays. The NEMA 1 enclosure is suitable for surface or flush wall mounting.

Listings – UL listed to US and Canadian safety standards.



Example: **SQMPDC 2UX2 S2 120**

Ordering Information

Series	Number of dimmers	Dimmer type	Capacity per dimmer	Voltage	Options
SQMPDC	2 2 dimmers 4 4 dimmers	UX Universal UF Universal, 3-wire fluorescent and non-dim FC Fluorescent, 4-wire and non-dim ND Non-dim	2 2000W/VA, 120V 4 4000W/VA, 277V	120 120V (single-phase) 277 277V (single-phase)	RE Recessed enclosure EM Essential lighting. All dimmers are automatically set to full power upon loss on normal power. Type 4UX2 or 4UX4 cabinets only. Transfer of input feed by others.
				Pack type	
				S2 Secondary dimmer pack	

Remote Dimmer Modules

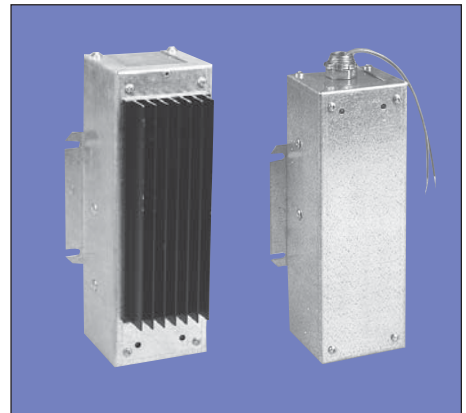
Intended Use

Used to boost the capacity of a single dimmer channel (1 – 4) on the Sequel IDC wall box dimming system or to convert a channel for use with a four-wire fluorescent dimming ballast.

Features

The RDM is installed above the ceiling or in the electrical closet between the SQIDC unit and the load and is designed to mount to a 4" junction box in place of the box cover. The unit is suitable for use in return air plenums.

Listings – UL listed. Not available in Canada.



Ordering Information

RDM 2000 120 – 2000W at 120V. Incandescent, low voltage (magnetic transformers), Lutron Hi-Lume, ECO-10, Advance Mark X fluorescent¹, neon and cold cathode.

RDM 4400 277 – 4400W at 277V. Incandescent, low voltage (magnetic transformers), neon and cold cathode.

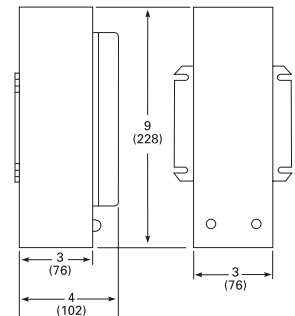
RDMFM 4400 277 – 4400W at 277V. Fluorescent (Lutron Hi-Lume, ECO-10, Advance Mark X and magnetic dimming ballasts).

RDMFC 1000 120 – 1000W at 120V. Four-wire fluorescent electronic controllable ballasts as indicated on page 510.

RDMFC 2000 277 – 2000W at 277V. Four-wire fluorescent electronic controllable ballasts as indicated on page 510.

NOTES:

1 Derate by 40% when used with Mark X ballasts.



Dimensions are shown in inches (millimeters) unless otherwise noted.

ISD



Architectural Wallbox Dimmers

Intended Use

The ISD series wallbox dimmers are designed to provide smooth full-range dimming for a variety of loads. Products are available for incandescent (ISD I), low voltage incandescent (ISD LV), electronic low voltage incandescent (ISD ELV), fluorescent two-wire (ISD ADEZ), and fluorescent four-wire (ISD BC) load types. The ISD dimmers can be used in place of a standard wall switch to provide ON/OFF and dimming lighting control.

Features

Fluid slide movement allows fine adjustment of light level over the entire dimming range. Separate ON/OFF switch permits switching of lighting at a preset level. An integral LED indicator turns ON when the switch is OFF to facilitate switch location in a dark room. Can be used with standard three-way or four-way switch for multi-location switching. ISD series dimmers

are compatible with Leviton Decora® series wallplates.

Operation – Single location, linear slide dimming with separate push ON/OFF switch for preset three-way and four-way switching.

Finishes – Available in standard white and ivory finishes and supplied with a matching single-gang Decora style wallplate. Snap-on color change kits are available for field color conversion to gray, black, brown, almond, white and ivory. Color change kits include a matching single-gang Decora style wallplate.

Installation – Wall mounts over standard single-gang switchbox. Devices can be multi-gang mounted (optional multi-gang wallplate required).

Listing – UL and CSA Listed, NOM certified.

Ordering Information

Example: **ISD 600 LV 120 WH**

Series ¹	Capacity (VA)
ISD	
600	600 VA at 120V
1000	1000 VA at 120V
1200	1200 VA at 277V ²
400	400 VA at 120V ³

Lamp Type
ADEZ Fluorescent (Advance Mark X Ballast)
I Incandescent
LV Incandescent (Magnetic low voltage transformer)
ELV Electronic low voltage

Voltage	Color ⁴
120 120 Volts	IV Ivory
277 277 Volts ²	WH White

Ordering Information

Example: **ISD BC 120/277 IV**

Series	Type
ISD	BC Ballast controller

Voltage	Color ⁴
120/277 Dual voltage	IV Ivory
	WH White

Accessories	(Order separately)
LPCS S11	Power control station, 120, 277 or 347V as required for operation of sensing head. See spec sheet LPCS.
ISD CCKIT	Color change kit, specify WH (White), IV (Ivory), GY (Gray), BR (Brown), BK (Black) or AL (Almond).
DSA FP D	Screwless thermoplastic wallplate for ISD or Leviton Decora® compatible devices. Specify number of gangs (1 to 6) and color WH (white), IV (ivory), GY (gray), BR (brown), BK (black) or AL (almond).

- NOTES:
- Actual dimming range is determined by the ballast used. Consult the ballast manufacturer for specifications.
 - Only available on ISD ADEZ.
 - Only available on ISD ELV.
 - ISD dimmers are supplied with standard wallplates. Order optional IV ivory or WH white screwless designer wallplates to match dimmer.

ISD 600 ADEZ 120

Advance MarkX™ part no.	Lamp type	Maximum Number Ballast/Dimmer		
		One-gang	Two-gang	More than two-gang
REZ-2Q26	PLC 26W	10	8	6
REZ-132	T8 32W	16	14	11
REZ-2S32	T8 32W	8	7	5
REZ-3S32	T8 32W	5	4	3
REZ-IT32	PLT 32-26W	15	12	10
REZ-IT42	PLT 42W	12	10	8
REZ-1TTS40	CF 40W	14	11	9
REZ-2TTS40	CF 40W	7	6	5

ISD 1200 ADEZ 277

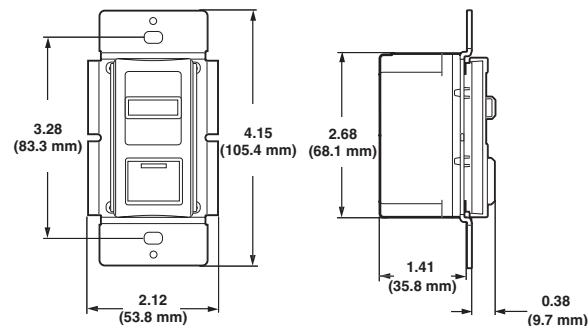
Advance MarkX™ part no.	Lamp type	Maximum Number Ballast/Dimmer		
		One-gang	Two-gang	More than two-gang
VEZ-2Q26	PLC 26W	20	20	20
VEZ-132	T8 32W	33	33	33
VEZ-2S32	T8 32W	17	17	17
VEZ-3S32	T8 32W	11	11	11
VEZ-IT32	PLT 32-26W	30	30	30
VEZ-IT42	PLT 42W	24	24	24
VEZ-1TTS40	CF 40W	28	28	28
VEZ-2TTS40	CF 40W	14	14	14

ISD 1000 ADEZ 120

Advance MarkX™ part no.	Lamp type	Maximum Number Ballast/Dimmer		
		One-gang	Two-gang	More than two-gang
REZ-2Q26	PLC 26W	17	13	11
REZ-132	T8 32W	27	22	19
REZ-2S32	T8 32W	14	11	9
REZ-3S32	T8 32W	9	7	6
REZ-IT32	PLT 32-26W	25	20	17
REZ-IT42	PLT 42W	20	16	14
REZ-1TTS40	CF 40W	23	19	16
REZ-2TTS40	CF 40W	12	9	8

ISD I / ISD LV / ISD ELV

Device catalog no.	Maximum Capacity		
	One-gang	Two-gang	More than two-gang
ISD 1000 I 120	1000W	800W	700W
ISD 600 I 120	600W	500W	400W
ISD 1000 LV 120	750W	600W	525W
ISD 600 LV 120	600W	500W	400W
ISD 400 ELV 120	400VA	325VA	265VA



NOTE:

"Two-gang" and "More than two-gang" columns indicate dimmer capacity when more than one dimmer is installed under a single multi-gang faceplate.

"Two-gang" denotes two dimmers under a common faceplate.

"More than two-gang" denotes more than two dimmers under a common faceplate.

DSD



Shown with DSA FP D1 wallplate

Architectural Wallbox Dimmers

Intended Use

DSD Series dimmers provide smooth full-range dimming of fluorescent fixtures equipped with the Advance Mark X dimming ballast. Dimmers have a strap-mount design and may be used individually or ganged together for multiple load applications. These dimmers are ideally suited for use with Lithonia fixtures with the ADEZ dimming ballast option.

Features

Operation – Linear slide dimming with separate rocker switch for preset or three-way on/off operation and single location dimming.

Installation – All dimmers mount in standard single-gang switch box and can be ganged together using multi-gang wallplates (See below).

Compatibility – Two-wire dimming ballasts as indicated on page 567.

Listings – UL Listed and CSA Certified. NOM Certified.

Advance Mark X™ two-wire ballasts, 120V and 277 V

Example: **DSD 500 ADEZ 277 IV**

Ordering Information

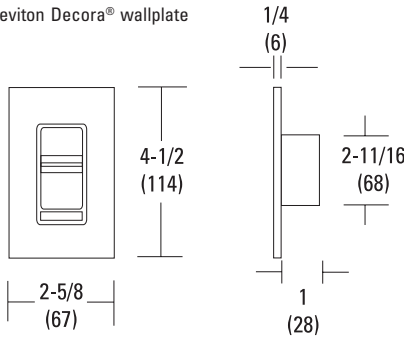
Series	Capacity (VA)	Ballast type	Voltage	Color
DSD	500 500 VA	ADEZ Advance Mark X™ fluorescent	120 277	IV Ivory ¹ WH White ¹

NOTES:

1 Includes standard Leviton Decora® wallplate. Order screwless or multi-gang wallplates separately below.

Dimensions are shown in inches (millimeters) unless otherwise noted.

Leviton Decora® wallplate



Capacities and Derating

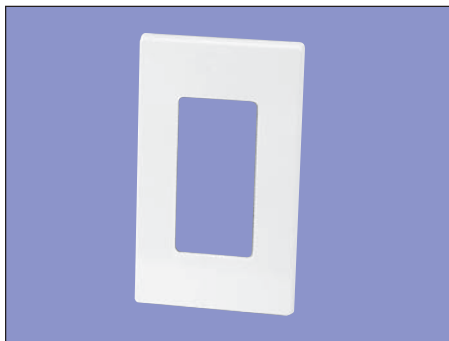
277V

Advance Mark X™ part no.	Lamp type	Max. no. Ballast/Dimmer	
		One-gang or multi-gang	
VEZ-2Q26	PLC 26W	8	
VEZ-132	T8 32W	14	
VEZ-2S32	T8 32W	7	
VEZ-3S32	T8 32W	4	
VEZ-IT32	PLT 32-26W	13	
VEZ-IT42	PLT 42W	10	
VEZ-1TTS40	CF 40W	11	
VEZ-2TTS40	CF 40W	6	

120V

Advance Mark X™ part no.	Lamp type	Max. no. Ballast/Dimmer	
		One-gang	Multi-gang
VEZ-2Q26	PLC 26W	8	6
VEZ-132	T8 32W	14	11
VEZ-2S32	T8 32W	7	5
VEZ-3S32	T8 32W	4	3
VEZ-IT32	PLT 32-26W	13	10
VEZ-IT42	PLT 42W	10	8
VEZ-1TTS40	CF 40W	11	9
VEZ-2TTS40	CF 40W	6	5

DSA FP



Screwless Wallplates for Decora® Products

Intended Use

Provide an architecturally-styled finish treatment for DSD, ISD and LIRW Series products. Wallplates are available for individual dimmers and multi-gang applications with up to six dimmers.

Features

Low profile, screwless wallplates are compatible with DSD, ISD and LIRW Series dimmers and other Decora® style devices.

Adapter strap permits mounting to the dimmer(s) without exposed fasteners.

Ordering Information

Example: **DSA FP D1 WH**

Series	Openings	Color
DSA FP	D1 One dimmer opening D2 Two dimmer openings D3 Three dimmer openings D4 Four dimmer openings D5 Five dimmer openings D6 Six dimmer openings	WH White IV Ivory

SLD

Intended Use

Lithonia SLD Series dimmers provide smooth full-range dimming of most lamp types used in a variety of architectural dimming applications. Dimmers may be used individually or ganged together for multiple-load applications.

ed-aluminum heat sink. Multi-gang wall-plates are available for multiple dimmer installations.

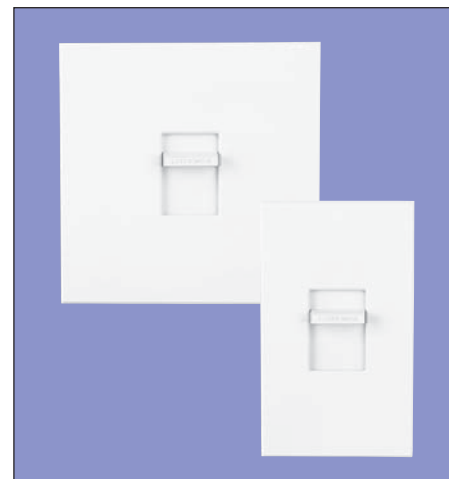
Installation – All dimmers mount in a standard single-gang switch box or can be ganged together with or without breakoffs into multi-gang switch boxes.

Listings – UL listed and CSA Certified.

Features

Operation – Smooth, linear slide intensity control provides square law dimming with simple slide-to-off operation. Preset and three-way dimming operation are achieved through the use of a push button switch mounted in the slide handle. All units provide positive air-gap off.

Housing – High-impact wallplate with no exposed fasteners. Unobtrusive extrud-



Incandescent and Magnetic Low Voltage, 120 volts only

Ordering Information

Example: **SLD 2000 I 120 IV**

Series	Capacity (VA)	Lamp type	Voltage	Color	Options
SLD	600 600 watts 1000 1000 watts 1500 1500 watts 2000 2000 watts ¹	I Incandescent LV Low voltage ¹	120	WH White IV Ivory GY Gray ³ BR Brown ³ BK Black ³	LE Engraved labels (specify wording) 3WAY Three-way preset switch ^{1,2}

Electronic Low Voltage Incandescent, 120 volts only

Ordering Information

Example: **SLD 450 ELV 120 IV**

Series	Capacity (VA)	Lamp type	Voltage	Color	Options
SLD	450 VA	ELV Electronic low voltage	120	WH White IV Ivory GY Gray ³ BR Brown ³ BK Black ³	LE Engraved labels (specify wording)

Lutron FDB and ECO Series Three-Wire Ballasts

Ordering Information

Example: **SLD 2000 FD 120 IV**

Series	Lamp type	Color	Options
SLD	FD Fluorescent (Lutron Hi-Lume or ECO-10 ballast)	WH White IV Ivory GY ³ Gray BR ³ Brown BK ³ Black	LE Engraved labels (specify wording) 3WAY Three-way preset switch ²

Capacity (VA)	Voltage
1000 120V (three-way only) 1500 277V (three-way only) 2000 120V (single-pole only) 2200 277V (single-pole only)	120 277

Dimensions are in inches (millimeters) unless otherwise noted.

Series	Width	Thickness	Height
SLD small control	2-3/4 (70)	5/8 (16)	4-1/2 (114)
SLD large control	4-1/2 (114)	5/8 (16)	4-1/2 (114)

NOTES:

- 1 SLD 2000 LV 120 IV is only available with 3-way option.
- 2 Single location dimming only.
- 3 Gray, black and brown dimmers ship in ivory and are furnished with accessory faceplates for complete field color change.

SLS



Switches, 120 or 277 volts

Ordering Information

Series	Voltage	Color	Options
SLS	120/277	WH White IV Ivory GY Gray ¹ BR Brown ¹ BK Black ¹	LE Engraved labels (specify wording) 3WAY Three-way preset switch 4WAY Four-way preset switch

Switches

Intended Use

Lithonia SLS series switches may be used in conjunction with dimmers to switch non-dimmed loads or with three-way dimmers to provide on/off switching of dimmed loads from multiple locations. The switches match the appearance of and may be ganged with dimmers for multi-load applications.

Features

Operation – Smooth linear slide operation with click *on/off* at mid slide travel.

Housing – High-impact wallplate with no exposed fasteners. Unobtrusive extruded-aluminum heat sink. Multi-gang wallplates are available for multiple dimmer installations. Faceplates are available in five color choices.

Installation – All switches mount in a standard single-gang switch box and they can be ganged together with or without break-offs into multi-gang switch boxes.

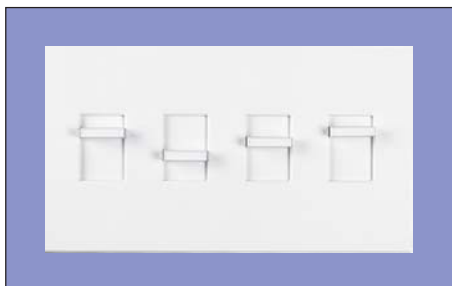
Listings – UL listed and CSA Certified.

Example: **SLS 120/277 WH**

Dimensions are shown in **inches (millimeters)** unless otherwise noted.

Series	Width	Thickness	Height
SLS	2-3/4 (70)	5/8 (16)	4-1/2 (114)

SLA FP



Wallplates

Intended Use

Used with Lithonia SLD Series slide dimmers and SLS Series switches. Single-device wallplates offer the capability to change dimmer colors in the field. Multi-gang wallplates offer an attractive finish option for ganged applications. Wallplates may be ordered for groups of dimmers and switches ganged with or without breakoffs.

Features

Available in five color choices for single or multiple dimmer installations. Combinations of dimmers and switches can be installed under a single multi-gang wallplate for a clean continuous appearance with no exposed fasteners. Matching sliders are provided for each wallplate opening.

Ordering Information

Series	Device ²	Fins	Color	Options
SLA FP	S Small control L Large control	NFB No fins broken FB Fins broken	WH White IV Ivory GY Gray BR Brown BK Black	LE Engraved labels (specify wording)

Example: **SLA FPSSL FB WH**

SLD Wallbox Dimmer and Switch Size Matrix

Control Device ³	Size	Control Device ³	Size	Control Device ³	Size
SLD 600 I	S	SLD 600 LV	S	SLD 1000 FD (3WAY)	S
SLD 1000 I	S	SLD 1000 LV (single-pole)	L	SLD 1500 FD (3WAY)	S
SLD 1500 I	L	SLD 1000 LV 3WAY	S	SLD 2000 FD (single-pole)	S
SLD 2000 I	L	SLD 1500 LV	L	SLD 2200 FD (single-pole)	L
SLD 450 ELV	S	SLD 2000 LV	L	SLD LVBC ⁴	S
SLS	S				

NOTES:

- Gray, black and brown dimmers ship in ivory and are furnished with accessory faceplates for field color change.
- When combining small and large controls, list small controls first, followed by large controls. Consult factory for wallplates in applications with more than four controls.
- See sections above for complete catalog numbers; information not shown does not affect dimmer size.
- Ganging of SLD LVBC with line voltage devices requires voltage dividers between line and low voltage wiring. Consult electrical code and local code for details.

Four-wire, 0-10 VDC control signal and two line voltage (Example: Motorola Helios)

Ballasts have Class 2 control wires (purple and gray) to connect low voltage control devices such as Equinox dimming control products.

Advantages:

- Control zones are created by interconnecting the low voltage wires and are not affected by the line voltage circuiting of the fixtures.
- Simple low voltage control devices such as the ISD DPC dimming photocell are self-powered by the ballast.
- Small control devices can control a large number of ballasts since they are not supplying power to the loads.
- Choice of ballast suppliers.
- Lowest cost for 1% dimming.

Disadvantages:

- Requires additional controls.

Three-wire line voltage, 0-120 VAC or 0-277 VAC (Example: Lutron Hi-Lume)

Ballasts are powered by a non-dimmed line voltage input and controlled via a second variable line voltage input.

Advantages:

- This control format provides the maximum fluorescent dimming range, can provide 1% dimming of some lamp types (Lutron Hi-Lume).

Disadvantages:

- Requires a 2nd input power wire connection.
- Minimum input voltage must be assured, requires dimmers with low-end trim adjustments.
- Dimmers require a neutral.
- Linear 1% fluorescent ballasts must be field installed or supplied to Lithonia by the customer for factory installation.
- Highest relative cost to achieve 1% dimming.

Two-wire line voltage, 0-120 VAC or 0-277 VAC (Example: Advance Mark X)

Ballasts have only one hot and one neutral wire and are directly controllable by fluorescent wallbox dimmers or universal system dimmers.

Advantages:

- Requires no additional wires, the black and white input leads provide for power and dimming.
- Wide dimming range (100-5%).
- Lowest installed cost.

Disadvantages:

- Minimum input voltage must be assured, requires dimmers with low-end trim adjustments or factory preset low-end adjustment.

Four-wire digital addressable ballast (consult factory).

	Advance Mark VII	Lutron TVE	ESI SuperDim	Sylvania Helios	MagneTek Ballastar	Advance Mark X	Lutron Tu-Wire	Lutron ECO-10	Lutron Hi-Lume
Control Type	Four Wire	Four Wire	Four Wire	Four Wire	Four Wire	Two Wire Line Voltage	Two Wire Line Voltage	Three Wire Line Voltage	Three Wire Line Voltage
Low End Dimming Range ¹	5%	10%	1%	1%	5%	5%	5%	10%	1%
Ballast Nomenclature	RZT/VZT	TVE	DIM-D, DIM-10	(PHO-)DIM	V5	REZ/VEZ	2W	ECO	FDB
Lithonia Nomenclature	ADZT	TVE10	ESIDD, ESIDA	MOT10C	TUBV5	ADEZ		ECO10	DMHL
<i>The number of lamps that can be operated by each ballast is indicated below</i>									
F13 Quad Tube	—	—	1,2	—	—	—	—	—	—
F18 Quad Tube	—	—	1,2	—	—	—	2	—	1,2
F26 Quad Tube	—	—	1,2	—	—	2	1,2	—	1,2
F26 Triple Tube	1,2	—	1	—	—	1	—	—	—
F32 Triple Tube	1,2	1	1	—	—	1	1,2	—	1
F42 Triple Tube	1,2	—	1	—	—	1	—	—	—
F39 Biax T5	—	—	—	—	—	—	—	1,2,3	1,2,3
F40 Biax T5	1,2	2,3	—	—	—	1,2	—	1,2,3	1,2,3
F50 Biax T5	—	—	—	—	—	—	—	1,2	1,2
F28 T5	—	—	1,2	—	—	—	—	—	—
F54 T5 H0	1,2	—	1	1,2	—	1,2	—	—	1,2
F17 T8	—	1	1,2	1,2,3,4	—	—	—	1,2,3	1,2,3
F25 T8	1,2,3	1	1,2	1,2,3,4	1	1,2,3	—	1,2	1,2,3
F32 T8	1,2,3,4	1,2,3	1,2	1,2,3,4	1,2,3,4	1,2,3	1,2	1,2,3	1,2,3
F40 T8	—	—	—	—	—	—	—	—	1,2
F30 T12	—	—	—	—	—	—	—	—	1,2
F40 T12	—	—	—	—	—	—	—	—	1,2
Wallbox Dimmers									
DSD Series	N/A	N/A	N/A	N/A	N/A	DSD ADEZ	DSD ADEZ	N/A	N/A
ISD Series	ISD BC	ISD BC	ISD BC	ISD BC	ISD BC	ISD ADEZ	ISD ADEZ	N/A	N/A
SLD Series	SLD LVBC ²	SLD LVBC ²	SLD LVBC ²	SLD LVBC ²	SLD LVBC ²	SLD FD ³	SLD FD ³	SLD FD	SLD FD
Digital Equinox ⁴	DEQ BC, LC ²	DEQ BC, LC ²	DEQ BC, LC ²	DEQ BC, LC ²	DEQ BC, LC ²	N/A	N/A	N/A	N/A
Architectural Systems									
Synergy Dimmer Module	SYPM8F	SYPM8F	SYPM8F	SYPM8F	SYPM8F	SYPM8F	SYPM8F	SYPM8F	SYPM8F
MiniPac Pack Types	FC, UF	FC, UF	FC, UF	FC, UF	FC, UF	FC, UF	FC, UF	UF	UF
Sequel IDC ⁵	Yes ⁶	Yes ⁶	Yes ⁶	Yes ⁶	Yes ⁶	Yes ⁶	Yes ⁶	Yes ⁷	Yes ⁷
Remote Dimmer Modules									
120V	RDMFC	RDMFC	RDMFC	RDMFC	RDMFC	RDM	RDM	RDM	RDM
277V	RDMFC	RDMFC	RDMFC	RDMFC	RDMFC	RDMFM	RDMFM	RDMFM	RDMFM

NOTES:

- Refer to the ballast manufacturers' information for the specific low-end dimming range for each lamp type.
- Requires LPCS power control station.
- Requires RDM Remote dimmer module.
- All Digital Equinox products may operate stand-alone or as an integrated part of the Synergy Lighting Control System.

- 120V only without the use of and RDM or MiniPac.
- Requires RDMFC remote dimmer module.
- Two ballast minimum loading.

RELOC[®] WIRING SYSTEMS

RELOC Wiring Systems

RELOC, the leader in modular wiring for more than 20 years, offers unique wiring systems for commercial, industrial and specialty applications that are fast, easy and effective.

In today's fast-track market, every job demands wiring solutions that reduce installation time and adapt to changes that occur both during and after construction. RELOC systems give you the edge you need to stay on schedule and on budget.



CONTENTS



Commercial Systems

Quick-Flex 570



Industrial Systems

OnePass 576



Specialty Systems

Power Wiring 582
Specialty Lighting 584
Access Floor Wiring 586

Quick-Flex™

The Quick-Flex System

Intended Use

Quick-Flex is the lowest cost wiring method for commercial lighting fixtures in offices, schools and other accessible ceiling applications. Quick-Flex components are simple and designed to snap together in a fraction of the time required for MC cable or any other wiring method.

Features

Pin-and-socket contacts. Rated for use on 20-amp branch circuits.

All conductors are No. 12 AWG copper with 90°C thermoplastic insulation rated at 600 volts.

Component provides a fully-rated No. 12 AWG grounding conductor.

Fixture leads are No. 18 AWG solid copper rated at 105°C with pushnut connectors for

easy connection to ballast leads; wirenuts not required.

Lithonia access plate is pre-attached (standard). No fixture ground lead to connect. Access plate provides UL-listed ground path to fixtures when fully installed.

Safety keying prevents accidental mating of components of different voltages. Color-coded labels for quick voltage identification. Suitable for make or break under load.

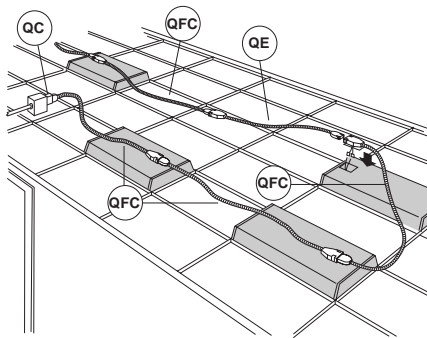
Autolatching springs for easy male/female connections.

Quick-Flex is manufactured from listed MC cable.

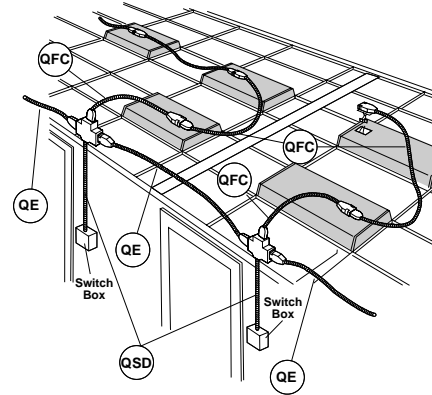
UL listed to U.S. and Canadian safety standards.



Panel Switching



Local Switching



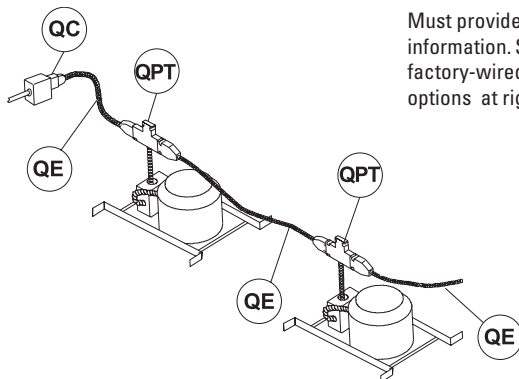
NEW

Factory-Installed Combos

Downlighting Combo

Lithonia downlights with Quick-Flex Power Tees attached and prewired.

Example: **F802AZ** **QPT120 12/3G01**

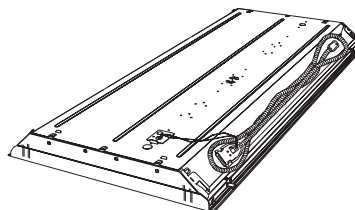


Must provide tap information. See factory-wired options at right.

Fluorescent Combo

A Lithonia fixture with Quick-Flex Fixture Cable attached and prewired.

Example: **2PM3N G B 3 32 18LD 120 1/3 GEB** **QFC120 12/2G09A**



Factory-wired options

(must be provided for Combo)

- A** All normal ballast(s) wired to hot #1.
- B** All normal ballast(s) wired to hot #2 (12/3G cable only).
- AB** All normal ballast(s) wired to hot #1 and hot #2 (12/3G cable only).
- AE** All normal ballast(s) connect to hot #1; EL inverter connects to hot #2 (12/3G cable only).
- NW** Cable packaged with fixture, not wired.

Quick-Flex Components

Provides the interface between hardwiring and Quick-Flex at the homerun location. Conventional wiring methods bring power from the panel to the homerun location or above a switch location where the QC is installed.

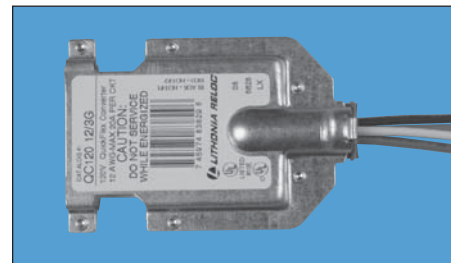
Ordering Information

Example: **QC120 12/2G**

Family	Voltage	Size and number of conductors	Length
QC	120, 277, 347	12/2G Two No. 12 AWG conductors plus No. 12 AWG ground	(blank) 6" leads 09 9 feet
		12/3G Three No. 12 AWG conductors plus No. 12 AWG ground	15 15 feet

Converter

QC



Male/female cable that provides power from fixture to fixture in the Quick-Flex system. Access plate is preattached(standard) to QFC to provide quick, easy fixture installation.

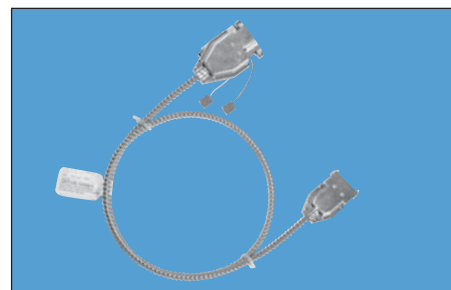
Ordering Information

Example: **QFC120 12/2G09**

Family	Voltage	Length	Optional ground lead*
QFC	120, 277, 347	07 7 feet 09 9 feet 11 11 feet 13 13 feet 15 15 feet	G No. 18 AWG ground lead dropped to fixture *Required in Canada.
Size and number of conductors		Option	
12/2G	Two No. 12 AWG conductors plus No. 12 AWG ground	LAP Less access plate; for use with Lithonia downlighting and non-Lithonia fixtures	
12/3G	Three No. 12 AWG conductors plus No. 12 AWG ground		

Fixture Cable

QFC



Male/female cable that provides additional length anywhere in the Quick-Flex system.

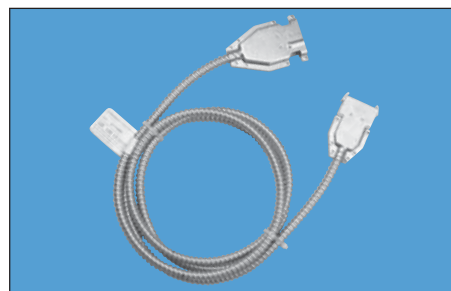
Ordering Information

Example: **QE120 12/2G09**

Family	Voltage	Size and number of conductors	Length
QE	120 277 347	12/2G Two No. 12 AWG conductors plus No. 12 AWG ground	09 9 feet 11 11 feet
		12/3G Three No. 12 AWG conductors plus No. 12 AWG ground	15 15 feet 21 21 feet

Extender

QE



Carries power with the use of the Quick-Flex Extender (QE). Ideal for powering downlighting, under-floor systems, track light feeds, exit signs, unit equipment and power receptacles. Can be used in place of two existing products, the Quick-Flex Splitter (QS) and Drop (QD).

Ordering Information

Example: **QPT120 12/3G01**

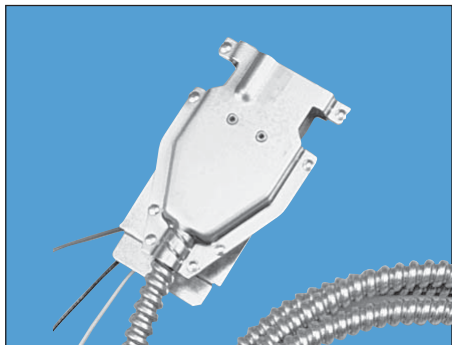
Family	Voltage	Size and number of conductors	Length	Option**
QPT	120 277 347	12/3G Three No. 12 AWG conductors plus No. 12 AWG ground	01 1 foot 09 9 feet	IG Isolated ground wire **Must order 12/2G when specifying IG option.

Power Tee

QPT



Quick-Flex™



Local Switching

Features

Local switches can be integrated into the Quick-Flex system. Provides switched and unswitched power at every switch location.

Located directly above each switch.

Solid copper leads are prestripped 5/8" for easy installation into push-in type terminals on switches.

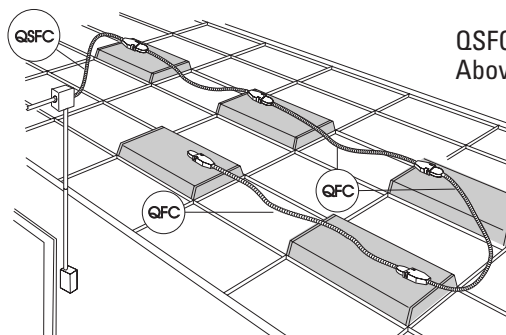
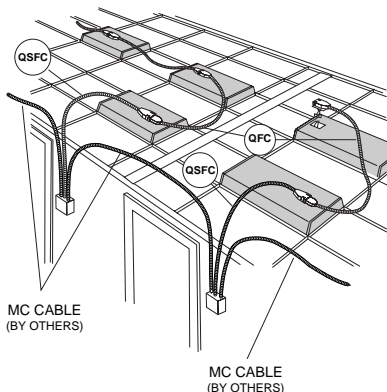
Color-coded labels for quick voltage identification.

Cast snap-in connector provided on whip end. Wires directly into 1/2" trade-size knockout.

Safety keying prevents accidental mating of components of different voltages.

UL listed to U.S. and Canadian safety standards.

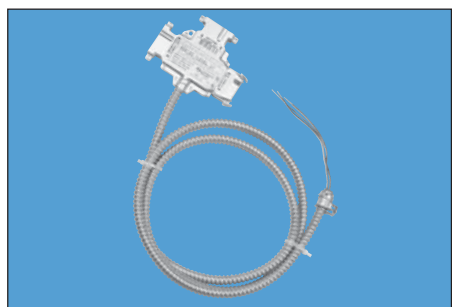
QSFC alternate in-wall connection



QSFC alternate Above-wall connection

QSD

Switch Drop



Located above the primary switch location to interface local switching to the Quick-Flex system. Provides local switched power for fixtures and the ability to carry on unswitched power to the next location through the use of a Quick-Flex Extender (QE).

Ordering Information

Example: **QSD120 1LEVEL 09**

Family	Voltage	Size and number of conductors	Length
QSD	120	1LEVEL Two No. 12 AWG conductors plus No. 12 AWG ground	09 9 feet
	277	2LEVEL Four No. 12 AWG conductors plus No. 12 AWG ground	
	347	1LEVEL/N Two No. 12 AWG conductors plus No. 12 AWG ground and No. 12 AWG neutral	

QSFC

Starter Fixture Cable



Combination of Converter (QC) and Fixture Cable (QFC). Wires directly into homerun junction box, switch box or junction box above switch location; provides power to first fixture from that location.

Ordering Information

Example: **QSFC120 12/2G09 LAP**

Family	Voltage	Length	Optional ground lead*	Option
QSFC	120, 277, 347	09 9 feet	G No. 18 AWG ground lead dropped to fixture <small>*Required in Canada.</small>	LAP Less access plate. For use with Lithonia downlighting and non-Lithonia fixtures
		15 15 feet		
Size and number of conductors				
12/2G	Two No. 12 AWG conductors plus No. 12 AWG ground			
12/3G	Three No. 12 AWG conductors plus No. 12 AWG ground			

Separates the branch circuit into two directions. The QS is a male/female component that can be used anywhere throughout the Quick-Flex system.

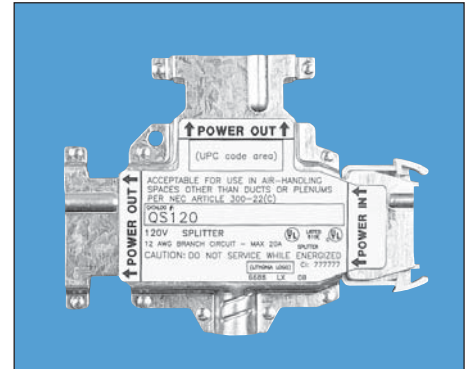
Ordering Information

Example: **QS120 12/3G**

Family	Voltage	Size and number of conductors
QS	120, 277, 347	12/3G Three No. 12 AWG conductors plus No. 12 AWG ground

Splitter

QS



Allows miscellaneous devices (e.g., exits or power availability) to become part of the Quick-Flex system.

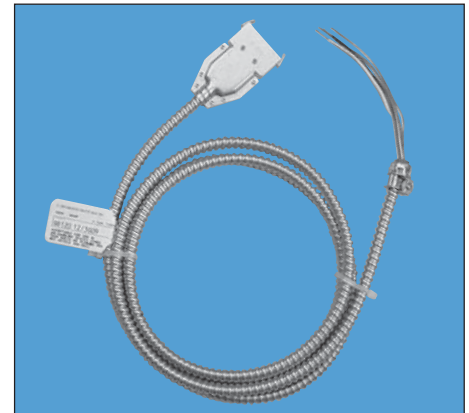
Ordering Information

Example: **QD120 12/2G15**

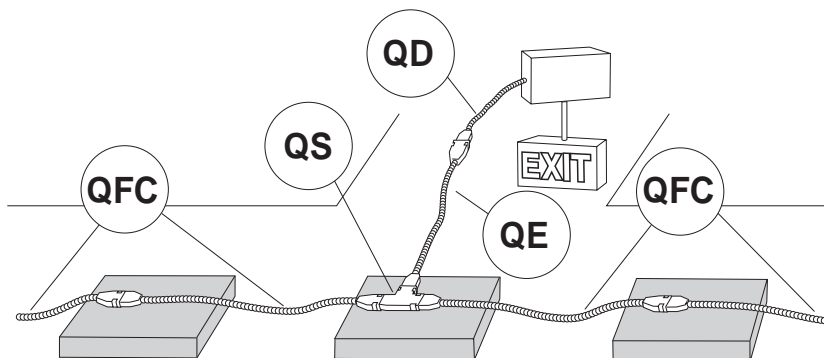
Family	Voltage	Size and number of conductors	Length
QD	120	12/2G Two No. 12 AWG conductors plus No. 12 AWG ground	05 5 feet
	277		09 9 feet
	347		15 15 feet
		12/3G Three No. 12 AWG conductors plus No. 12 AWG ground	

Drop

QD



Splitter Detail



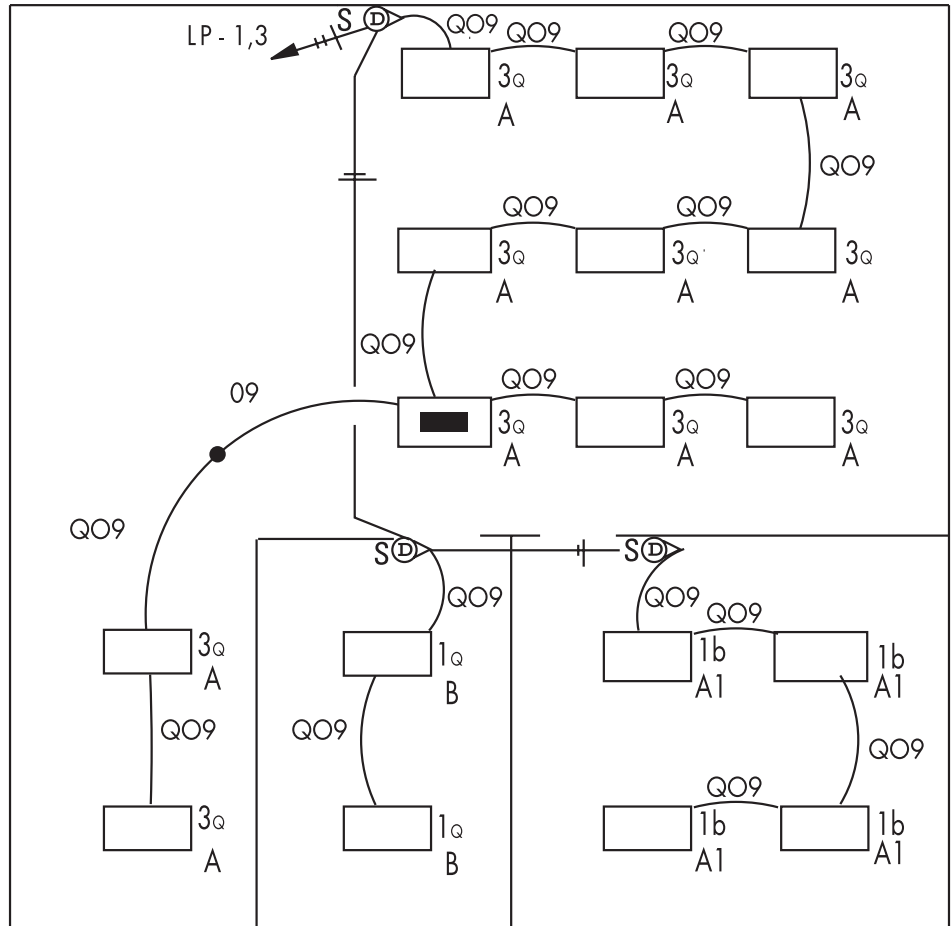
Quick-Flex™

Hardwire Components

Symbol	Description
S	Single-pole switch
+	Hardwire circuitry
□	Fixture

RELOC Components

Symbol	Cat. No.	Qty.
⊕	QC ___ 12/2G	3
■	QS ___ 12/3G	1
QO9	QFC ___ 12/2G09	17
○	QE ___ 12/2G09	1
●	Connection point	



Layout Notes

- Identify fixture types to be wired with Quick-Flex.
 - Avoid hard ceiling areas (stairwells and bathrooms).
 - Target the most common fixture types. Emergency circuits may or may not be included.
 - Determine single level (12/2G) or dual level (12/3G) switching and voltage (e.g., 120, 277, 208, 480).
- Locate J-boxes for homeruns at points where two or more circuits converge. Feed J-boxes with pipe or MC cable.
 - Select a converter (QC) to start the Quick-Flex run.
or
 - Select QSFC if distance from J-box to first fixture is less than 12 feet.
- Lay out unswitched power to all local switch locations using pipe or MC cable.
 - Select QSFC if Quick-Flex is to be run from switch to first fixture.
 - Select QSFC or QC if a J-box is placed above the switch location.
- Lay out Fixture Cables (QFC).
 - Loop cables in a daisy chain between fixtures.
 - Add a minimum of one foot to fixture spacings to establish QFC length.
 - Standardize on number of cable lengths using longest distance between fixtures.
 - Standardize on number of conductors (12/2 or 12/3) based on number of circuits.
- Use an extender (QE) when additional length is needed in the Quick-Flex run between fixture cables.
 - Standardize on lengths of extenders.
- For each circuit on each run, use a splitter (QS) to separate the branch circuit into two different directions.
- Total the Quick-Flex components and establish a bill of material.
- To check quantities, confirm the following:
 - If using a QC, total number of fixtures should equal total number of QFCs.
 - If using a QSFC, total number of fixtures should equal total number of QFC and QSFC cables.

Step 1

Count the number of fixtures.

Layout example (see below) shows 11 type A fixtures, two type A1 fixtures and two type B fixtures.

17 fixtures to wire.

Step 2

Determine length of cables.

Measure fixture centers. Cable length should be the length that covers 85 percent of fixtures, plus one foot. Layout example shows all fixtures are on 8-foot centers.

9-foot cables are needed.

Step 3

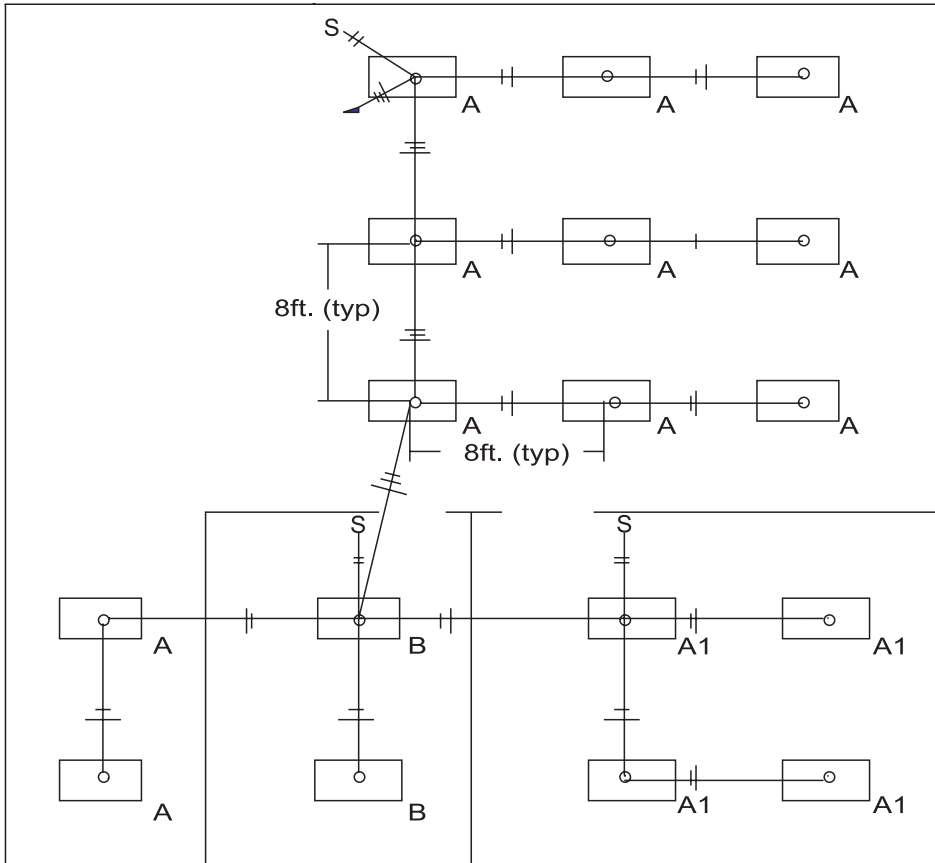
Determine number of conductors.

(Determined by number of switches in a room). Layout example shows all rooms have single-level switching (See Guide to Conductors below for details).

Use 12/2G conductors.

Layout Example

Guide to Conductors



Symbol	Description
S	Single-pole switch; requires 12/2G conductors.
S ₃	Three-way switch; requires 12/2G conductors.
SS	Two single-pole switches; requires 12/3G conductors.
S ₃ S ₃	Two three-way switches; requires 12/3G conductors.

Based on the results from steps 1-3, establish a Bill of Materials.

Using the **Percent Factors** shown at right, calculate the number of components required. To make the calculations, use the number of fixtures in Step 1 as 100 percent.

Example: Percent Factor for QE cables is 20 percent.

17 X .20 = 3.4 (round up to 4)

4 QE Extender Cables are needed.

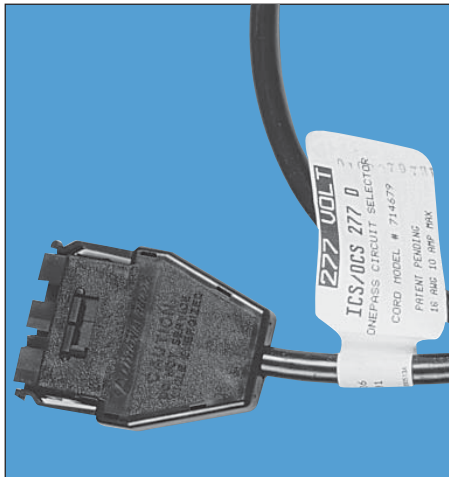
Use the Percent Factors below to calculate the required numbers of Quick-Flex components

Component ¹	Description	Percent Factor	Quantity to order
QFC ___ 12/2G09	Fixture Cables to wire the 17 fixtures.	100%	17
QE ___ 12/2G09	Extender Cables for extra length where needed.	20%	4
QC ___ 12/2G	Converters to connect Reloc system to hardwiring.	7%	2
QS ___ 12/3G	Splitter ² for wiring in more than one direction.	3%	1

NOTES:

- 1 Must specify voltage. Example: QFC 120 12/2G09.
- 2 QS available only with 12/3G conductors.

OnePass™



The OnePass System

Intended Use

OnePass offers quick installation of industrial fixtures plus the flexibility to relocate fixtures in the future. Patented components allow both fixtures and wiring to be installed at the same time or in "one pass," significantly reducing labor.

Features

Pin-and-socket contacts. Rated for use on 20-amp branch circuits.

Safety keying prevents accidental mating of components of different voltages. Color-coded labels for quick voltage identification.

Additional labeling properly denotes type and position of each conductor (OCU). Molded circuit identifier denotes position of each conductor (OCS).

Circuit Selector is No. 16 AWG rubberized cord with 105°C thermoplastic insulation, conductors rated at 600V. Starter Cable 2-Port and Converter are 10AWG or 12AWG rubberized cord with 90°C thermoplastic insulation, conductors rated at 600V.

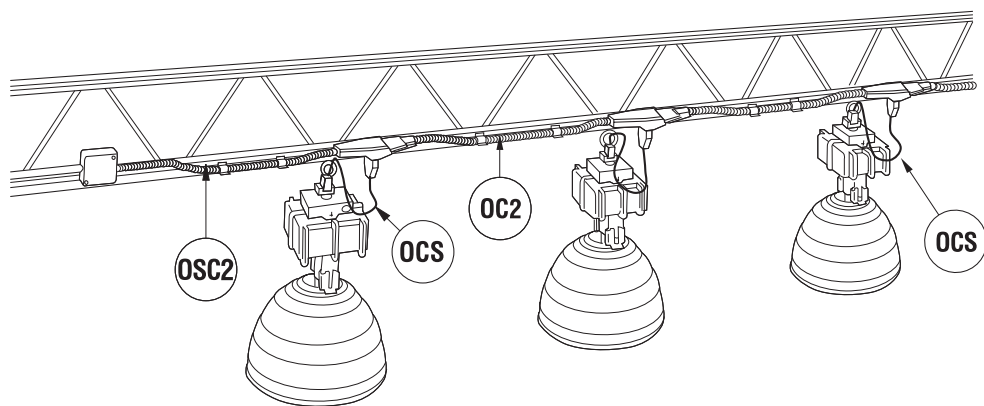
Fixture removal may be accomplished without interrupting the branch circuit wiring. Component design allows removal without additional components. Suitable for make or break under load.

Replaces conventional cord and plug. Uniquely keyed for industrial/open-ceiling applications.

Housing components are constructed of textured, high-impact, polymeric compound (OCS).

Patent No. 5,679,016 (OCS).

UL listed to U.S. and Canadian safety standards.

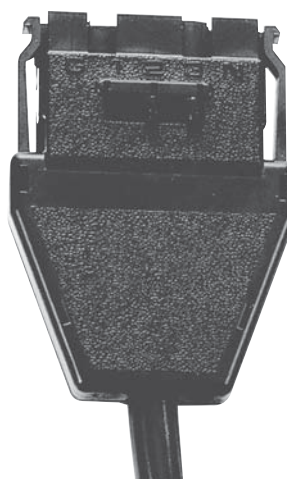


Patented OnePass Circuit Selector

The OnePass OCS features a unique thumb-slide action that allows you to choose the desired hot conductor(s) needed to energize each fixture in the field. The OCS and non-selectable OCU permit disconnecting the fixture without disrupting the power downstream.

The OCS enables all fixtures to be wired the same, with the appropriate circuit selected when the fixture is installed.

For future changes, simply unplug the OCS and select a different circuit.



Provides the interface between hardwiring and Reloc. A converter and extender in one component. The OSC2 is wired into the homerun junction box and brings power to the OCS for the first fixture.

Ordering Information

Example: **OSC2 120 12/3G 09**

Family	Voltage	Number of conductors ¹		Cable length (ft.)	Options
OSC2	120				2N Two circuit, two neutral; available with 12/4G or 10/4G conductor only KW Kilowatch, sensor controlled ² KWCW Kilowatch, manually switched ²
	208*	12/2G	10/2G	09	
	240*	12/3G	10/3G	15	
	347	12/4G	10/4G	25	
	277				
	480*				

* Consult factory for these voltages.

Starter Cable, 2-Port **OSC2**



A "splitter" and cable extender in one easy-to-use component. Used to bring power to OnePass Circuit Selector (OCS) in industrial applications or to split circuit into two different directions.

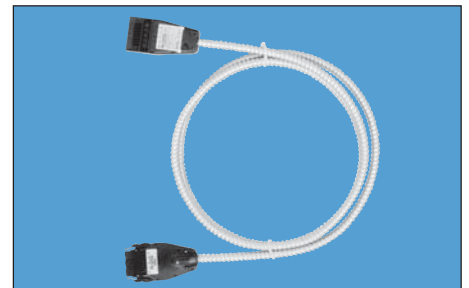
Ordering Information

Example: **OC2 120 12/4G 15**

Family	Voltage	Number of conductors ¹		Cable length (ft.)	Options
OC2 For use with OCS or OCU component.	120, 208*, 240*, 347, 277, 480*	12/2G	10/2G	09, 15, 21, 25, 31	2N Two circuit, two neutral; available only with 12/4G or 10/4G conductor
		12/3G	10/3G		
		12/4G	10/4G		
				Consult factory for other lengths.	

* Consult factory for these voltages.

Cable, 2-Port **OC2**



A plug-in connection for industrial fixtures. Prewired by fixture manufacturer or field installed by contractor.

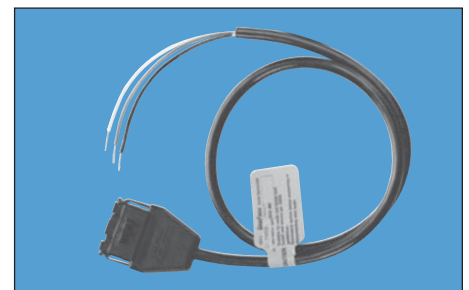
Ordering Information

Example: **OCS 120 05**

Family	Voltage	Cable length (ft.)	Options
OCS For use with OC2 component.	120, 208*, 240*, 277, 347, 480*	05, 10, 15, 20 Leave blank for 3 feet.	(blank) Black cord WH White cord

NOTE:
Two circuits 208,240,480V or two circuits 2N not available with this product. Must use an OCU.

Circuit Selector **OCS**



A polarized, non-circuit, selectable plug-in connection for industrial fixtures. Prewired by fixture manufacturer or field installed by contractor.

Ordering Information

Example: **OCU 120 TAP2 05**

Family	Voltage	Cable length (ft.)	Options
OCU	120, 208*, 240*, 347, 277, 480*	05, 10, 15, 20 Leave blank for 3 feet.	(blank) Black cord 2N Two circuit, two neutral; available in TAP2 tap position only WH White cord A Armor drop

* Consult factory for these voltages.

Tap from position(s):	
TAP1 1 (120, 277, 347V)	TAP34 3 and 4 (208, 240, 480V)
TAP2 2 (120, 277, 347V)	TAP123 1, 2 and 3 ³
TAP3 3 (120, 277, 347V)	TAP1KW 1 with Kilowatch 120, 277, 347V ^{1,2}
TAP12 1 and 2	TAP3KW 3 with Kilowatch 120, 277V ^{1,2}
TAP13 1 and 3	TAP13W 13 with Kilowatch 208, 240, 480V ^{1,2}
TAP23 2 and 3	

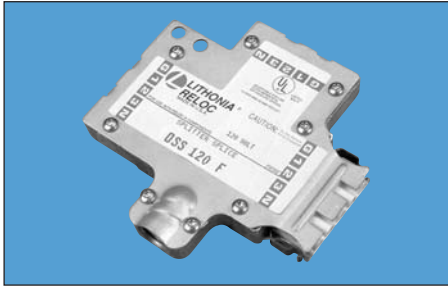
Cord Unselectable **OCU**



NOTES:
1 See page 578 for descriptions.
2 Kilowatch only. Consult factory.
3 Requires option A.

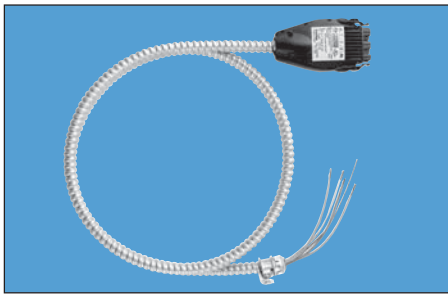
OSS

Splitter Splice



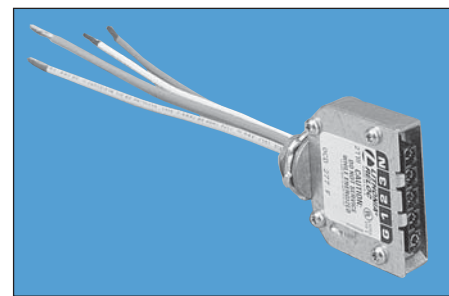
OD

Drop Cable



OC

Converter



Intended Use

OSS – Splits a branch circuit into two directions. Male/female component that can be used anywhere in the OnePass system.
 OD – Allows miscellaneous devices (exits, emergency units, etc.) to become part of the OnePass system.
 OC – Provides the interface between hardwiring and Reloc at homerun location.

Features

Rated for use on 20-amp branch circuits. Pin-and-socket contacts. All conductors are No. 12 AWG copper

with 90°C thermoplastic insulation rated at 600 volts.

Safety keying prevents accidental mating of components of different voltages.

Color-coded labels for quick voltage identification.

Additional labeling properly denotes type and position of each conductor.

Five-wire system accommodates applications with up to three circuits with a common neutral or two circuit, two neutral. All components provide a fully rated No. 12 AWG grounding conductor.

Autolatching springs prevent accidental disengagement.

Installs into standard 1/2" trade-size knockout (OD).

6" leads prestripped 5/8" for easy wiring (OD).

Prestripped solid-copper leads for easy installation into side, back or push-in type terminals (OD).

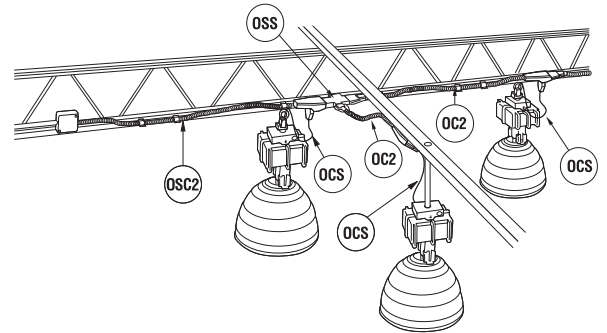
Uniquely keyed for industrial/open-ceiling applications.

UL listed to U.S. and Canadian safety standards.

Ordering Information

Example: **OSS 120 12/4G**

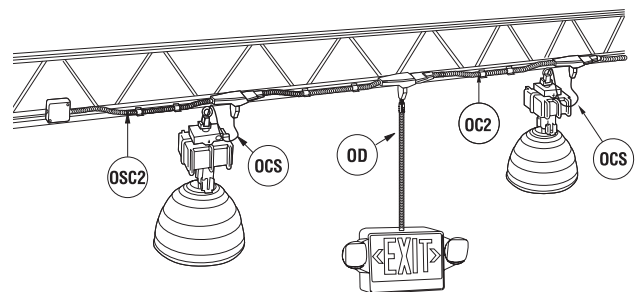
Family OSS	Voltage 120 208* 240* 347 277 480*	Number of conductors** 12/4G Four No. 12 AWG conductors plus one No. 12 AWG ground.
	<small>* Consult factory for these voltages.</small>	<small>** 12AWG only.</small>



Ordering Information

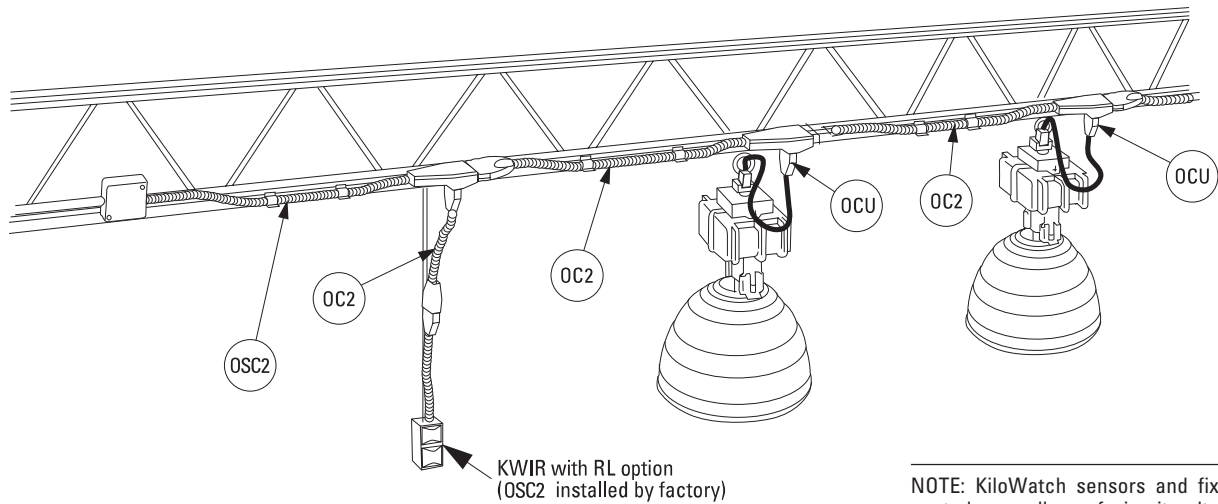
Example: **OD 120 12/3G 09**

Family OD OC	Voltage 120, 208*, 240*, 347, 277, 480* <small>*Consult factory for these voltages.</small>	Cable length (Specify for OD only) 09 9 feet 15 15 feet	Option 2N Two circuit, two neutral; available in 12/4G conductor only
Number of conductors**			
12/2G	Two No. 12 AWG conductors plus one No. 12 AWG ground.		
12/3G	Three No. 12 AWG conductors plus one No. 12 ground.		
12/4G	Four No. 12 AWG conductors plus one No. 12 ground.		



** 12AWG only.

System View

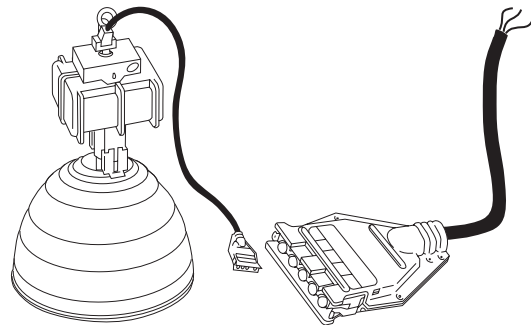


Components required for example above:

OCU – The **Cord Unselectable** is a polarized plug-in connection for industrial fixtures. Normally prewired by the fixture manufacturer. Permits removal of any fixture from the branch circuit without adding additional components or interrupting the branch circuit.

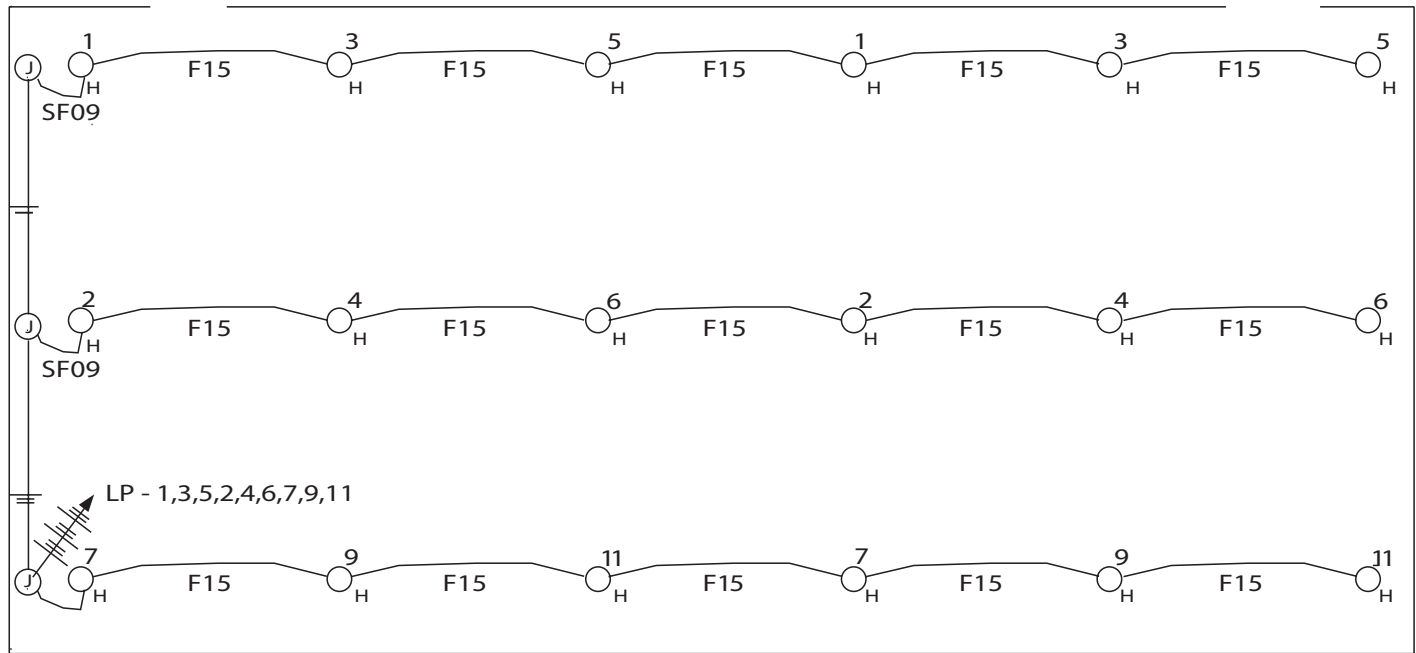
OC2 — The **Cable Two-Port** is a “splitter” and cable extender in one easy-to-use component. The OC2 is used to bring power to the OCU in industrial applications or to split the circuit into two different directions.

OSC2 — The **Starter Cable Two-Port** provides the interface between hardwiring and Reloc. Conventional wiring methods bring power from the panel to the homerun location where the OSC2 is installed.



- OSC2 120 12/2G KW
- OC2 120 12/3G XX
- OCU 120 TAP1KW (Installed in high bay fixtures)
- KWIR RL120 (See KiloWatch, page 385)

OnePass™



Hardwire Components	
Symbol	Description
ⓐ	J-box
— — —	Hardwire circuitry
○ _H	Fixture

RELOC Components		
Symbol	Cat. No.	Qty.
SF09	OSC2 ___ 12/4G	3
F15	OSC ___ 12/4G F15	15
○ _H	OCS ___	18

Layout Notes

- Identify fixture types to be wired with OnePass.
 - Avoid damp areas, areas below freezing, harsh environments and hazardous locations.
 - Emergency fixtures are to be hardwired.
 - Determine the number of circuits, single-circuit (12/2G), two-circuit (12/3G) or three-circuit (12/4G).
 - Determine voltage of fixtures to be wired.
 - Run cables with structure if possible for ease of cable installation.
- Locate Reloc starting point J-box locations.
 - J-box to be located along structure at beginning of circuit group and toward the panel.
 - Select a starter cable (OSC2) to start the OnePass run.
- Select length of circuit selector (OCS) to be attached to fixture. Length is based on distance from fixture junction box to connection point to OC2.
- Lay out fixtures.
 - Lay out starter cable (OSC2) between starting J-box and first fixture to be wired with OnePass.
 - Standardize on set lengths of starter cables (OSC2). 1-foot, 9-foot, 15-foot and 25-foot lengths are available.
 - Lay out cables (OC2) between fixtures.
 - Standardize on set lengths of cables based on job requirements.
 - Coil cable between fixtures if longer than distance to cover.
- Plug two or more cables together to extend lengths as needed.
- Total the OnePass components and establish a Bill of Material. See page 581 for details.
- To check quantities, confirm the following:
 - The total number of starter Cables (OSC2) and Extender Cables (OC2) should equal the total number of fixtures PLUS the number of connection points where cables are plugged together to cover longer distances.

Step 1

Count the number of fixtures.

Layout example (see below) shows 18 type H fixtures.

17 fixtures to wire.

Step 2

Determine length of cables.

Measure fixture centers. Cable length should be the length that covers 85 percent of fixtures. Layout example shows all fixtures are on 15-foot centers.

15-foot cables are needed.

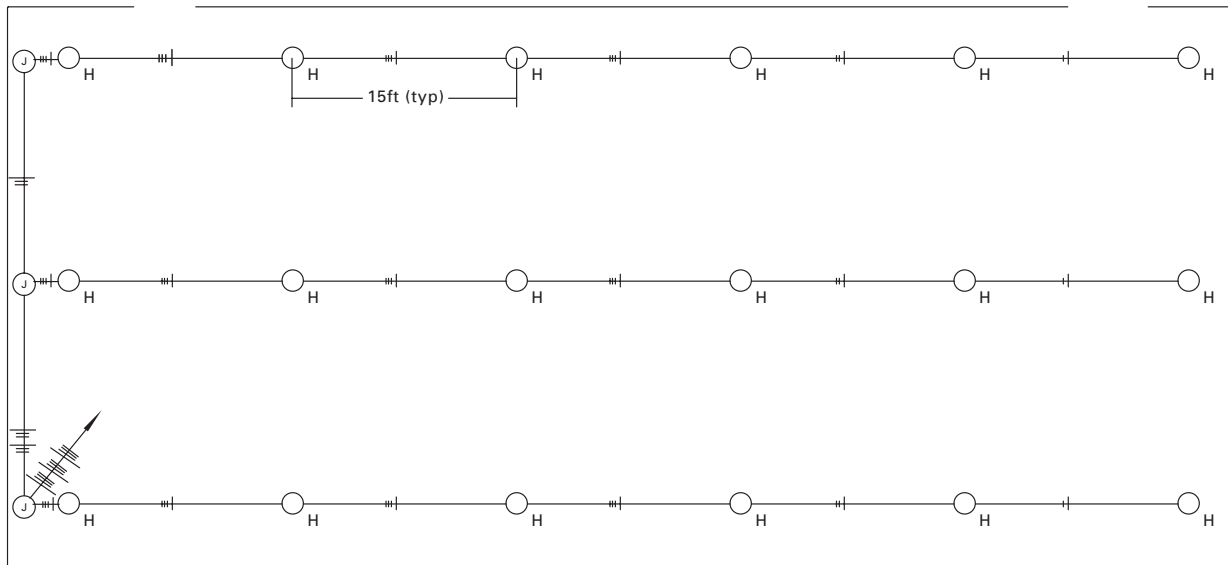
Step 3

Determine number of conductors.

Determined by maximum number of short vertical marks in the layout. Layout example shows three short vertical marks. (See Guide to Number of Conductors below for details).

Use 12/4G conductors.

Layout Example



Guide to Number of Conductors

Symbol	Description
	One short vertical mark indicates 12/2G conductors are required.
	Two short vertical marks indicates 12/3G conductors are required.

Symbol	Description
	Three short vertical marks indicates 12/4G conductors are required.

Note: Long vertical mark denotes neutral.

Based on the results from steps 1-3, establish a Bill of Materials.

Using the **Percent Factors** shown at right, calculate the number of components required. To make the calculations, use the number of fixtures in Step 1 as 100 percent.

Example: Percent Factor for OC converters is 13 percent.

$18 \times .13 = 2.34$ (round up to 3)

3 OC Converters are needed.

Use the Percent Factors below to calculate the required numbers of OnePass components

Component ¹	Description	Percent Factor	Quantity to order
OC2 ___ 12/4G15	Cables to wire the 18 fixtures.	100%	18
OCS ___ ___ ²	Circuit Selectors to connect the 18 fixtures.	100%	18
OC ___ 12/4G	Converters to connect Reloc system to hardwiring.	13%	3

NOTES:

- 1 Must specify voltage. Example: QFC 120 12/2G09.
- 2 Must specify length of OCS in feet. For 3', leave blank. Example: OCS 120 10.

Power Wiring

Power Wiring Overview

Features

Rated for use on 20-amp branch circuits.
Pin-and-socket contacts.

All conductors are No. 12 AWG copper with 90°C thermoplastic insulation rated at 600 volts.

Safety keying prevents accidental mating of components of different voltages.

Color-coded labels for quick voltage identification.

Additional labeling properly denotes type and position of each conductor.

Five-wire system accommodates applications with up to three circuits with a common neutral or two circuit, two neutral.

All components provide a fully rated No. 12 AWG grounding conductor.

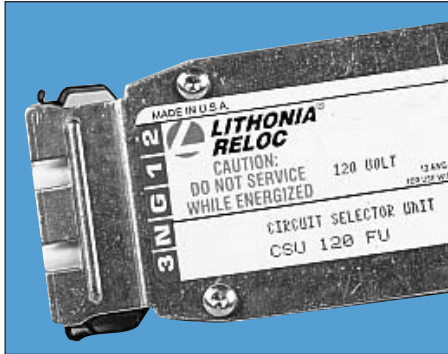
Isolated ground conductor option available.

Installs through standard 1/2" trade-size knockout.

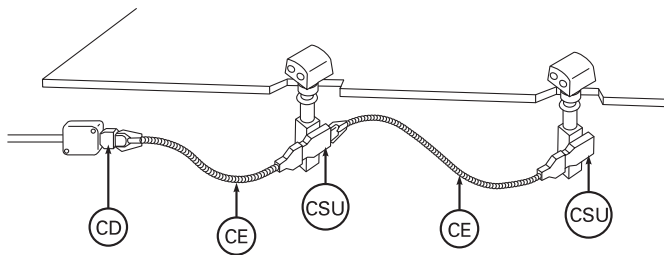
6" of exposed leads, prestripped 5/8" for easy wiring.

Extremely low profile.

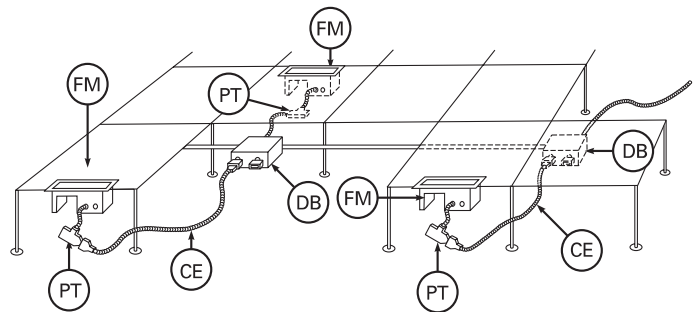
UL listed and CSA Certified (FM and DB boxes are UL Listed only).



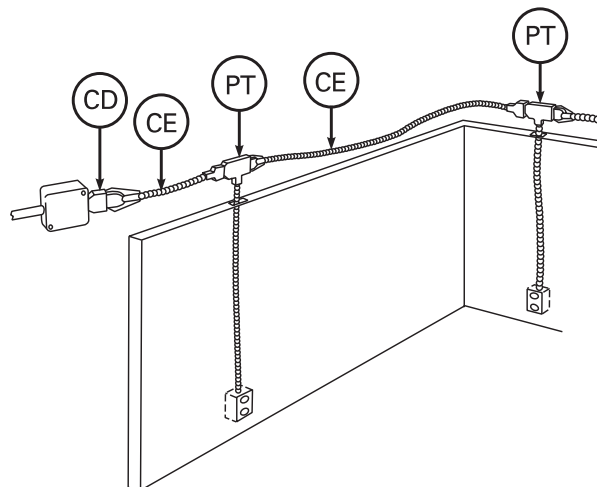
Reloc 820 Circuit Selector Units
for Fire-Rated Poke-Thrus



Reloc 820 Power Tees
for Raised Access Floor Service Modules



Reloc 820 Power Tees
for Convenience Outlets



Provides interface between hardwiring and Reloc. Conventional wiring methods bring power from panel to homerun location, where CD is installed.

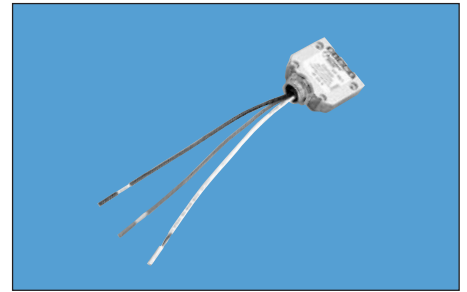
Ordering Information

Example: **CD 120 E CSA¹**

Family	Voltage	Number of conductors	Options
CD	120 277 347	D Three E Four F Five	IGW Isolated ground wire; available with E and F conductors only 2N Two circuit, two neutral; available with F conductor only

Circuit Distributer

CD



Male/female cable that provides additional length anywhere throughout the Reloc system.

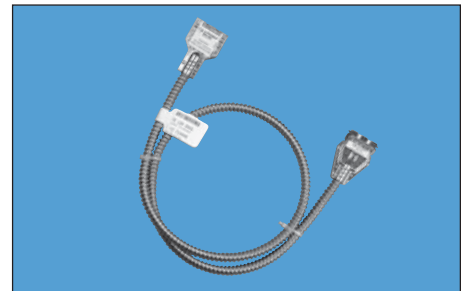
Ordering Information

Example: **CE 120 E U 11 CSA¹**

Family	Voltage	Number of conductors	Factory keying	Cable length	Options
CE	120 277 347	D Three E Four F Five	U	09 9 feet 11 11 feet 15 15 feet 25 25 feet	IGW Isolated ground wire; available only with E and F conductors 2N Two circuit, two neutral; available with F conductor only

Cable Extender

CE



Provides wiring of any device through 1/2" trade-size knockout. CSU uses No. 12 AWG leads, allowing full circuit access.

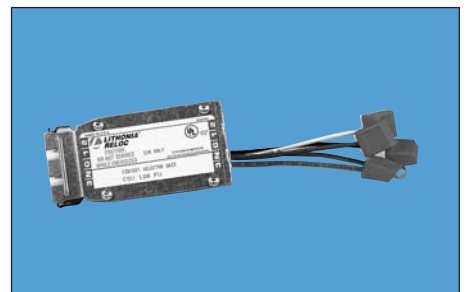
Ordering Information

Example: **CSU 120 F U CSA¹**

Family	Voltage	Number of conductors	Factory keying	Options
CSU	120 277 347	F Five	U	IGW Isolated ground wire 2N Two circuit, two neutral

Circuit Selector Unit

CSU



A through-wired component that makes it possible to select which branch circuit conductor feeds a specific device. Also provides power to devices used on convenience power, access floor systems and commercial lighting.

Ordering Information

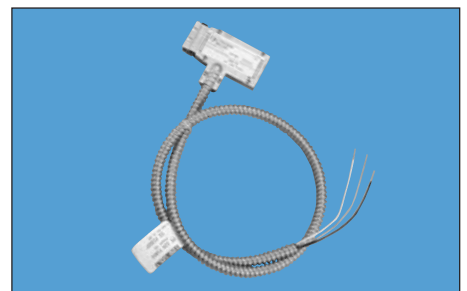
Example: **PT 120 F1 A 03 CSA¹**

Family	Voltage	Drop type	Cable length (ft.)	Options
PT	120 277 347	A Armored	01, 03, 09, 15	IGW Isolated ground; available with F1, F2 or F12 only 2N Two circuit, two neutral; available with F2 or F12 only

Number of conductors	Tap position
F Five	1 Tap from position 1 2 Tap from position 2 3 Tap from position 3 12 Tap from positions 1 and 2 13 Tap from positions 1 and 3 23 Tap from positions 2 and 3 123 Tap from positions 1, 2 and 3

Power Tee

PT



NOTES:
1 Must add CSA suffix for certification.

Specialty Lighting

Specialty Lighting Overview

Features

Rated for use on 20-amp branch circuits.

Pin-and-socket contacts.

All conductors are No. 12 AWG copper with 90°C thermoplastic insulation rated at 600 volts.

Safety keying prevents accidental mating of components of different voltages.

Color-coded labels for quick voltage identification.

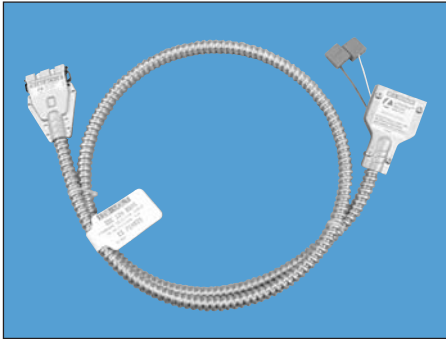
Additional labeling properly denotes type and position of each conductor.

Autolatching springs prevent accidental disengagement.

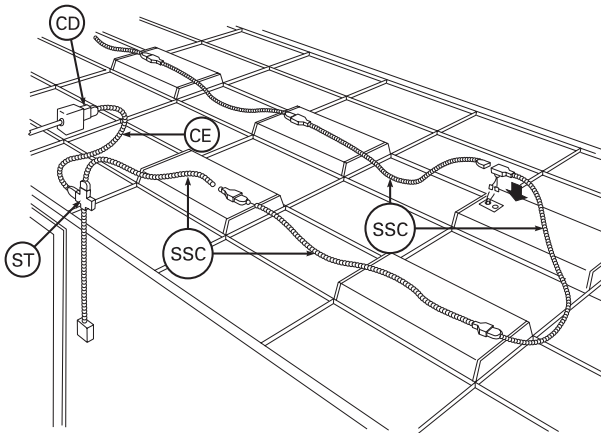
All exposed wiring has 5/8" prestripped solid-copper leads for easy installation on side-wired or back-wired devices.

Provides switched and unswitched power at each location.

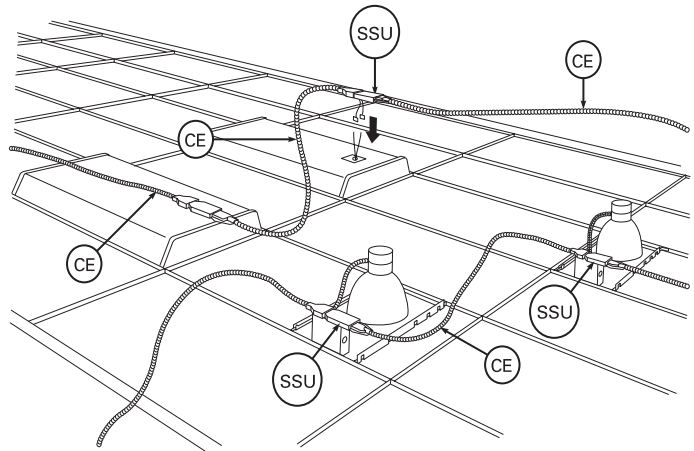
UL listed and CSA Certified.



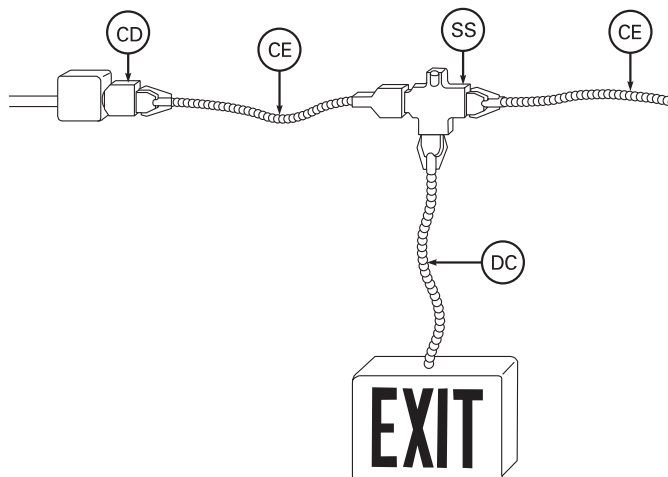
Reloc 820 Standard Selector Cables for Fluorescent Fixtures



Reloc 820 Standard Selector Units for Downlighting



Reloc 820 Drop Cable and Splitter Splice



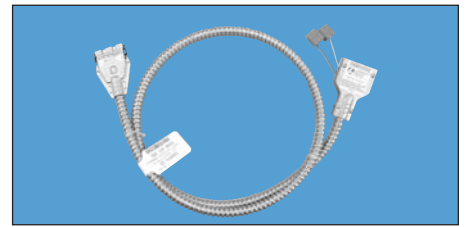
Male/female cable, provides power from fixture to fixture. Attaches to access plate or through 1/2-inch trade-size knockout.

Ordering Information

Example: **SSC 120 F U 11 CSA¹**

Family	Voltage	Number of conductors	Factory keying	Cable length (ft.)	Options
SSC	120 277 347	D Three E Four F Five	U	09, 11, 13, 15	2N Two circuit, two neutral; available with F conductor only G Ground lead with lug terminal* <small>* Required in Canada</small>

Standard Selector Cable **SSC**



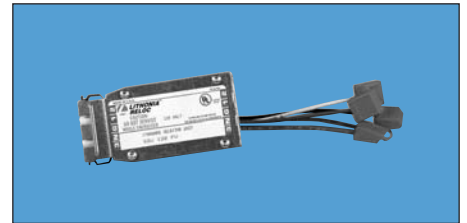
Male/female fixture adapter, provides power at the fixture. The SSU is fed power by the CE.

Ordering Information

Example: **SSU 120 F U CSA¹**

Family	Voltage	Number of conductors	Factory keying	Options
SSU	120 277 347	F Five <small>* All hot and neutral leads dropped to fixture.</small>	U	2N Two circuit, two neutral G Ground lead with terminal lug* <small>* Required in Canada</small>

Standard Selector Unit **SSU**



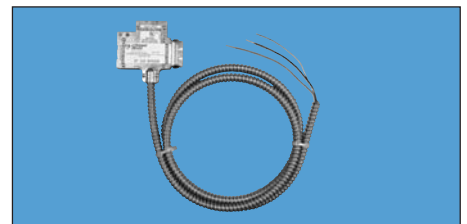
Introduces local switching to Reloc systems. Located above primary switch location, provides local switched power and unswitched power to be used as needed.

Ordering Information

Example: **ST 120 D1 P U 08 CSA¹**

Family	Voltage	Drop type	Factory keying	Drop length (ft.)	Options		
ST	120, 277, 347	P Protected	U	08	N Neutral provided in drop (available with D conductor only)		
<th>Number of conductors</th> <td colspan="4"> <th>Switching function</th> </td>		Number of conductors	<th>Switching function</th>				Switching function
D Three E Four F Five		1 Single level 2 Two level (D and E conductors only)					

Switching Tee **ST**



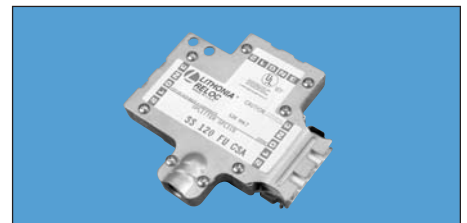
Used to split branch circuit into two directions in commercial or power applications.

Ordering Information

Example: **SS 120 F U CSA¹**

Family	Voltage	Number of conductors	Factory keying	Option
SS	120 277 347	F Five	U	IGW Isolated ground wire

Splitter Splice **SS**



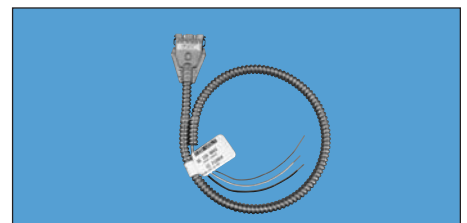
Allows a convenience power outlet or other device (clock, etc.) to become part of the Reloc system. Conventional pipe and wire not required to convey wiring.

Ordering Information

Example: **DC 120 E U 09 CSA¹**

Family	Voltage	Number of conductors	Factory keying	Cable length (ft.)	Options
DC	120 277 347	D Three E Four F Five	U	09, 15	IGW Isolated ground wire; available with E and F conductors only 2N Two circuit, two neutral; available with F conductor only

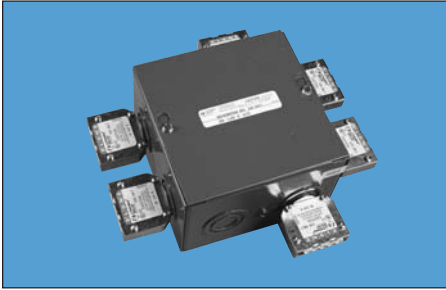
Drop Cable **DC**



NOTES:
1 Must add CSA suffix for certification.

Distribution Box

DB



Intended Use

The interface between Reloc and hardwiring in access floor applications. From the DB, circuits are fed in different directions for service fittings or other access floor power devices.

Features

Rated for use on 20-amp branch circuits. Pin-and-socket contacts.

All conductors are No.12 AWG copper with 90°C thermoplastic insulation rated at 600 volts.

Safety keying prevents accidental mating of components of different voltages. Color-coded labels for quick voltage identification.

Additional labeling properly denotes type and position of each conductor.

UL Listed only.

Ordering Information

Example: **DB 120 E 6CD**

Family	Voltage	Number of conductors	Number of circuit distributors ¹	Options
DB	120	D Three E Four F Five	4CD Four 6CD Six 8CD Eight ²	IGW Isolated ground wire; with E and F conductors only 2N Two circuit, two neutral; with F conductor only

NOTES:

- 1 Consult factory for optional Circuit Distributor requirements.
- 2 Sizes vary for Distribution Boxes requiring more than six Circuit Distributors.

FM



Floor Module

Intended Use

Provides complete connecting and disconnecting flexibility for data, communication and power in an access floor. When prewired with a RELOC interface, relocation of office work stations is as easy as moving partitions and floor panels.

Features

Easy to install or relocate in any access floor.

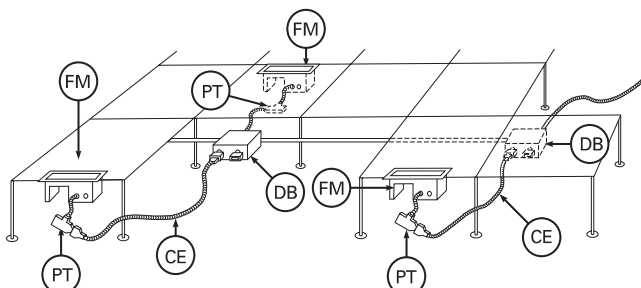
All cables and wires may be connected.

UL Listed only.

Ordering Information

Example: **FMI3 P B RQ**

Family ¹	Size	Power options	Data/communications options	Reloc wiring interface
FM	I1 5" x 6" (Two compartments) I3 10" x 6 x 5-1/4" (Five compartments)	P One power panel for one duplex receptacle (receptacle not included) P1 One prewired 20A duplex receptacle (one circuit) P2 One prewired 20A isolated ground duplex receptacle (one circuit) Y Custom design ²	(blank) None D Blank panel Z Custom design ²	(blank) None RQ Reloc interface, custom design ²
				Color ²
				B Black G Gray



NOTES:

- 1 120V only.
- 2 Consult factory for custom design options.

DISCHARGE LAMPS AND BALLASTS

Luminaires may utilize fluorescent or high intensity discharge sources that contain small amounts of mercury. New disposal labeling for these lamps includes the mercury identifier shown below to indicate that the lamp contains mercury and should be disposed of in accordance with local requirements.



Information sources regarding lamp recycling and disposal are included on the packaging of most mercury-containing lamps and also can be located at www.lamprecycle.org.

TECHNICAL SUPPORT FOR LAMP AND BALLAST SUPPLIERS

<i>Lamp Supplier</i>	<i>Phone</i>
GE.....	800-GE LAMPS
Philips	800-555-0050
SYLVANIA	800-255-5042
Venture	800-451-2606
<i>Ballast Supplier</i>	<i>Phone</i>
Advance Transformer Co.	800-372-3331, ext. 2
Aromat Corporation	888-427-6628
Denki Corporation of North America	800-908-8882
Future Wave Technologies Inc.....	508-460-3300
Howard Industries, Inc.	800-956-3456, ext. 1654
Lumisistemas	866-215-4441
Lutron Electronics Co., Inc.	800-523-9466
OSRAM SYLVANIA	800-654-0089, ext. 1
OSRAM SYLVANIA, Canada	905-673-6171
Radionic Industries, Inc.	773-804-0100
Robertson Worldwide	800-323-5633, ext. 5
Universal Lighting Technologies	800-225-5278, ext. 538
Venture Lighting International	800-451-2606

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All electric discharge lamps are characterized as negative resistance light sources. Therefore, they require support devices that limit the current when voltage is applied, to prevent the lamp from being destroyed. The ballast is the device limiting the current capability.

Additionally, the ballast provides the lamp with proper voltage to reliably start and operate the lamp throughout its rated service life. A transformer integral to the ballast circuit matches voltage required for the lamp to the available supply voltage.

Fluorescent and H.I.D. lamps exhibit several electrical characteristics that have important effects on ballasts. The following definitions will help explain those characteristics.

Starting Voltage

Fluorescent rapid-start lamps contain cathodes which are preheated by the ballast. A variety of fluorescent rapid start ballasts are available to produce reliable starting for specific ambient temperatures. Mercury vapor and most metal halide lamps incorporate integral starting electrodes which allow the lamps to start at relatively low voltages in ambient temperatures ranging above -20°F (-30°C).

High pressure sodium and low wattage (≤ 150 watts) metal halide lamps require separate electronic starting devices (called "ignitors") which deliver a high voltage pulse to establish the arc. HPS will start reliably above -40°F (-40°C) ambient temperatures. The pulse repeats each cycle with a maximum pulse width of 15 microseconds. Once the lamp arc is established, the ignitor drops out of the circuit.

Starting Current

This is the initial current available to the lamp during warm-up. If the current is incorrect, the lamp may not start or reach its rated operating performance. Rated lamp life may be affected.

Operating Current

Operating Current is the rated current flow under nominal operating conditions once the lamp arc has been established and is performing at rated levels. The starting current may differ from the operating current. Care should be taken to load circuits to the highest load conditions (amperes). Normal power factor ballasts have higher starting currents than operating. Low wattage (100 watts or less) metal halide and HPS lamps have the highest current demand during restrike (hot start).

Fluorescent lamp operating voltage remains relatively constant throughout rated life. Lamp life, ballast life, and light output may be affected if the operating voltage varies significantly from the voltage specified for the ballast. In general, fluorescent ballasts should be operated within $\pm 7\frac{1}{2}\%$ of their rated voltage.

Mercury vapor and metal halide lamp operating voltage remains relatively constant throughout rated life, although lamp manufacturing tolerances can allow for as much as $\pm 10\%$ variance from nominal. As a result, depending on the type of ballast being used, H.I.D. lamp wattage may vary considerably. High pressure sodium lamp operating voltage rises continually from initial installation until end of life.

HPS ballasts are designed to provide increased voltage requirement to the lamp through rated life. For example, a 400W HPS lamp normally starts at 100 volts and increases to 140 volts at end of life.

Operating Wattage

Fluorescent lamps operate at rated wattage if the supply voltage is nominal and the lamp is operating at an ambient temperature of 77°F (25°C). H.I.D. lamps operate at rated wattage only if the lamp voltage and supply voltage is nominal. Lamp wattage, light output, and lamp life may be affected if any conditions vary from nominal.

Crest Factor

Crest Factor is the ratio of peak to RMS (root mean square) current. For example, the crest factor of a true sine wave form is 1.41. Lamp manufacturers' published data is based on lamps operated on a standard reactor ballast with a 1.41 crest factor. Input voltage to a commercial ballast is a sine wave, but the secondary voltage wave shape in the inductive and capacitive type ballast is distorted, and their crest factors are higher than 1.41.

Tests indicate that ballasts with higher crest factors may result in depreciation of lumen output or reduced lamp life. In general, a maximum lamp current crest factor of 1.7 for fluorescent ballasts is recommended. H.I.D. constant wattage and constant wattage autotransformer ballasts have a crest factor of about 1.8. Metal halide and HPS ballasts approach 1.65. H.I.D. lamp recommendations suggest a maximum crest factor of 2.0 for mercury vapor and 1.8 for metal halide and HPS.

Power Factor

Power Factor (the phase between voltage and current) is the ratio of line watts to line volts x line amps, expressed in a percentage. A high power factor (HPF) ballast must have a power factor of at least 90% at nominal line voltage and lamp voltage. In most cases as the lamp and capacitors age, the power factor will drop below 90%. A normal power factor (NPF) ballast has a power factor below 90%, usually around 50%. NPF compact fluorescent ballasts can be as low as 28%.

A normal power factor ballast has almost twice the line current as a high power factor ballast, thereby requiring larger wire sizes, breakers, switches, etc. for the equivalent connected load. Some power utilities may assess a penalty charge for inefficient use of power due to low power factor equipment.

Radio Frequency Interference (RFI) and Electromagnetic Interference (EMI)

Electronic fluorescent ballasts generally operate at a frequency in excess of 20,000 Hz to optimize lamp efficacy. Electronic ballasts may feed back interference into the power system resulting in interference with sensitive electronic equipment such as communications or data processing equipment. High-quality electronic ballasts use filters and enclosures to reduce conducted and radiated EMI to acceptable limits as specified by the Federal Communications Commission (FCC).

Ballast Sound Ratings

Core and coil ballasts may produce a slight hum due to the magnetic action within the ballast. Fluorescent ballasts are sound rated by a letter code, A through D. An A sound rating is the quietest ballast and is typically recommended for commercial applications. Because solid state electronic ballasts do not contain a core and coil, they will generally operate quieter than magnetic ballasts.

Ballast Case Temperature

The ballast case temperature is affected by changes in ambient temperature and voltage increase. Fluorescent ballasts contain a Class P thermal switch which will disconnect the ballast if it exceeds 105°C. Excessive ambient temperature or voltage supply may significantly reduce the life of the ballast.

Harmonic Distortion

All ballasts generate harmonic currents of some magnitude in the electrical distribution system. The ratio of RMS (root mean square) harmonic current to the RMS fundamental current is the Total Harmonic Distortion or THD. THD is often used to assess the ability of a fluorescent electronic ballast to control harmonic currents. The ANSI standard for electronic ballasts specifies a maximum THD of 32%. Conventional magnetic ballasts are generally in the range of 10% to 20%. Most hybrid electronic ballasts (containing both electronic and electromagnetic components) fall into the area of 20% to 30% THD. Solid state electronic ballasts (containing virtually all electronic components) are usually less than 10%.

Ballast Regulation

This is the ability of a ballast to control lamp wattage when subjected to line voltage variation. Consideration should be given to line voltage variations expected on a given electrical system where H.I.D. lamps are used. Most new power distribution systems are designed to provide $\pm 3\%$ of nominal voltage. However, some systems, especially older ones, may have variances up to $\pm 10\%$ from nominal. Regulation characteristics for various ballast types are listed in the ballast data tables. Typically the cost of a ballast rises with the degree of regulation available. The better the regulation, the higher the cost.

Primary Dropout Voltage

All power distribution systems experience dips and peaks in line voltage as well as other transient conditions. Well-regulated systems seldom see voltage fluctuations of 20% or more. Be sure to check the primary dropout voltage rating on H.I.D. ballasts if voltage variations are of concern. Voltage dips in excess of this rating may cause the lamps to extinguish and recycle.

Example: F32T8 LPPM730 J25

	Wattage Length/Bulb Designation	Manufacturer LPG = GE LPS = SYLVANIA LPP = Philips	Color/ Job Pack Designation															
			CW	CWX	WW	WWW	2700	3000	3500	4100	5000	6500	7500	DAY				
Linear Fluorescent	F13T5	LPP	CW															
	F13T5	LPS	CW J24		WW J24													
	F17T8	LPG						730 J24 830 J24	735 J24 835 J24 SP35 J24	741 J24 841 J24	850 J24							
	F17T8	LPS					827 J30		735 J30 835 J30 M735 J30 M835EX J30	741 J30 841 J30								
	F17T8	LPP						TL830 J25		TL741 J25 TL841 J25								
	F25T8	LPG						730 J24 830 J24	735 J24 SP35 J24 SX35 J24	741 J24 SX41 J24								
	F25T8	LPS					827 J30		M735 J30 M835EX J30	M741 J30 M841EX J30								
	F25T8	LPP						TL730 J25 TL830 J25	TL735 J25 TL835 J25	TL741 J25 TL841 J25								
	F30T12	LPG							SX35 J24									
	F32T8	LPG						ME730EX J36		M741EX J36 ME741EX J36		SP65 J36						
	F32T8	LPS					827 J30	730 J30 830 J30 M730 J30	735 J30 835 J30 835EX J30 M735 J30 M835 J30 M835EXS J30	741 J30 841 J30 M741 J30 M841 J30 M81EX J30 M841EXS J30	850 J30							
	F32T8	LPP						M730 J25 M830 J25 TL930 J25	M735 J25 M835 J25	M741 J25 M741EX J25 M841 J25 M841EX J25 M841EXL J25	TL950 J25							
	F39T5HO	LPS							835 J40									
	F40T12	LPG		ESCW J30					SP35 J30									
	F40T12	LPP							ME730S J30	M835 J25								
	F40T12	LPS		ESCW J30														
	F48T12HO	LPG		J24					SP35 J24									
	F48T12HO	LPS									D41 J30							
	F48T8HO	LPP							TL735 J24 TL835 J24									
	F54T5HO	LPG									841 J40							
	F54T5HO	LPS						830 J40	835 J40	841 J40								
	F54T5HO	LPP							835 J40									
	F96T12	LPS							ESD35 J15									
	F96T12HO	LPG		CT J15					SP35 J15									
	F96T12HO	LPS		ESCW J15														
	F96T8	LPG							SP35 J24									
F96T8	LPS							835 J24	841 J24									
F96T8HO	LPG							SP35 J24 SX35 J24										
F96T8HO	LPP							735 J24 835 J24	841 J24									
F96T8HO	LPS							735 J24 835 J24	841 J24									
U Lamps	FB31T8	LPS						830 J15	835 J15 835EX J15	841 J15								
	FB32T8	LPG							SP35 J12 SX35 J12									
	FB32T8	LPP						M830 J20	TL835 J20									
	FB32T8	LPS						730 J16	735 J16 835 J16	741 J16								
	FB40T12	LPS		ESCW J12														
Compact Fluor.	FCF18	LPG						SX30 J40										
	FCF39	LPG							SX35 J40									
	FCF40	LPG							SX35 J36	SX41 J36								
	FCF40	LPP							TL835 J25	TL841 J25								
	FCF40	LPS						830 J10	835 J10	841 J10								
	FCF55	LPS						830 J10	835 J10	841 J10								

NOTES:

- The table above shows those lamps commonly available through Lithonia Lighting. Please contact your Lithonia representative or your lamp manufacturer for other lamps available from these manufacturers.
- Performance for these lamps will vary, contact your lamp supplier for specific performance information.
- Many lamps meet the Federal EPA TCLP test and are available from several lamp manufacturers. Consult your lamp manufacturer for availability.
- Jxx refers to the number of lamps in a single job pack.

Generic Electronic Ballast Option

Lithonia Lighting maintains in its distribution centers and selected field warehouses the industry's largest and broadest inventory of luminaires with popular electronic ballasts. If ballast quality, performance and availability are a concern, but you have no vendor preference, specify Lithonia's generic electronic ballast option. This ensures you an electronic ballast that meets or exceeds ANSI standards for high-frequency electronic ballasts. Ballasts are from nationally-recognized manufacturers with established warranty and service programs.

Specify **GEB** for ballasts with less than 20%THD. Specify **GEB10IS**, **GEB10RS** and **GEB10PS** for ballasts with less than 10%THD. Multi-volt option (**MVOLT**) currently is available in *less than 10% THD ballasts* only. GEB10IS is standard MVOLT.

GEB/GEB10_ Specifications

- UL Listed. CSA Certified. Thermally protected Class P, non-PCB ballast.
- Minimum line transient as shown in IEE587, Category A and ANSI-62.41.
- Ballast circuit type: instant or rapid start, series or parallel wired.
- Ballast operation: 120V nominal (108V-132V) 60Hz, 277V nominal (249V-305V) 60

Hz, MVOLT (108V-305V) 50Hz or 60Hz, or 347V nominal (312V-381V) 60Hz.

- Ballast meets 1988 Federal Efficacy Standard (Law 100-357) where applicable.
- Meets FCC rules/regulations Part 18, 15J for EMI / RFI.
- Minimum lamp starting temperatures: 0°F (-17.8°C) for T5, T5HO, and T8 lamps, 50°F (10°C) for rapid start T8 and T12 standard lamps and 60°F (15.6°C) for T12 energy-saving lamps.
- Power factor equal to or greater than .95.
- Maximum lamp crest factor 1.7.
- Minimum 5-year ballast manufacturer's warranty.
- Ballasts meet all requirements of ANSI C82.11.

To order, add designation to fixture catalog number. Example: 2SP8 G 3 32 A12 **MVOLT 1/3 GEB10IS**

Voltage	Configuration	Type
120, 277, 347, MVOLT ¹	(blank) Standard (see box at lower right) 1/3 One 3-lamp ballast 1/4 One 4-lamp ballast	GEB ≤20 THD GEB10IS ≤10 THD, instant start, multi-volt GEB10RS ≤10 THD, rapid start GEB10PS ≤10 THD, program start ²

NOTES:

- 1 120-277V. Must specify GEB10IS.
- 2 Available for standard T5 and T5HO lamps in 347V or MVOLT only.
- 3 IS = instant start, RS = rapid start.
- 4 S = series, P = parallel. Slimline = series lead or lead lag.
- 5 Single ballast operating all lamps in 3-lamp or 4-lamp configuration.

GEB/GEB10_ Performance

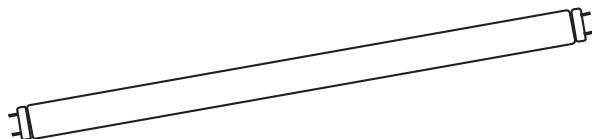
	Lithonia lamp descr.	Lamp type	Lamp wattage	No. of lamps operated	Max. ANSI Watts	Min. ballast factor	Circuit type ³	Circuit wiring ⁴	Sound rating
GEB10IS only	U31	24" T8 U(1 5/8")		1	32				
	U316	24" T8 U(6")	Std	2	59	0.85	IS	P	A
	32	48" T8		3 ⁵	88				
				4 ⁵	113				
U31	24" T8 U(1 5/8")		1	39					
GEB and GEB10RS	U316	24" T8 U(6")	Std	2	62	0.85	IS or RS	S or P	A
	32	48" T8		3 ⁵	95				
				4 ⁵	114				
	40	48" T12	Std	1	38				
	U40	24" T12 U(6")		2	74				
	U403	24" T12 U(3")		3 ⁵	110				
GEB and GEB10IS	CF 40	24" TT5	Std	2	70	0.85	IS	P	A
	96	96" T8	Std	3 ⁵	101				
	96T8HO	96" T8	Std	2	160				
GEB10PS	54T5HO	48" T5HO	Std	1	62	1.10	PS	S	A
				2	121				
	28T5	48" T5	Std	1	33				
				2	66				
GEB only	96	96" T12	Std	2	140	0.85	IS	Slimline ⁴	B
	ES		ES		116				
GEB only	96HO	96" T12 HO	Std	2	209	0.85	RS	S	B
	ES		ES		178				

Lithonia Standard Ballast Configurations

1-lamp fixtures: One 1-lamp ballast
 2-lamp fixtures: One 2-lamp ballast
 3-lamp fixtures: One 1-lamp ballast, one 2-lamp ballast
 4-lamp fixtures: Two 2-lamp ballasts

Fluorescent Ballasts¹

Fluorescent ballasts are designed to meet the electrical requirements of a specific type of lamp. Preheat, Slimline Instant Start and Rapid Start are commonly used ballasts. Preheat and Rapid Start ballasts provide a starting current to heat the lamp electrodes before the lamp is ignited. Slimline Instant Start ballasts ignite the lamp by providing a high initial voltage between the lamp electrodes. A larger autotransformer is required for these ballasts to create the high starting voltage. Since fluorescent systems are generally used indoors, fluorescent ballasts incorporate a thermal protective device (Class P switch) to prevent a fire hazard if the ballast should overheat.



Magnetic Ballast Data

Lamp Type	Power Factor	Minimum Starting	Primary Voltage ²	Operating Current	Input Wattage
Preheat – Trigger Start					
(1) F15WT8, T12	HPF	10°C/50°F -18°C/0°F	120 277	0.27 0.12	32
(2) F15WT8, T12	HPF	-18°C/0°F	120 277	0.47 0.20	53 56
Slimline and Instant Start					
(1) F48T12	HPF	-18°C/0°F	120 277	0.55 0.24	61
(2) F48T12	HPF	10°C/50°F	120 277	0.85 0.37	102
(1) F72, F96T12	HPF	-18°C/0°F	120 277	0.85 0.35	100
(2) F96T12	HPF	10°C/50°F	120 277	1.35 0.60	158
Rapid Start					
(1) F25T8	HPF	10°C/50°F	120 277	0.30 0.12	33
(2) F25T8	HPF	10°C/50°F	120 277	0.55 0.24	65
(1) F30T12	HPF	10°C/50°F	120 277	0.40 0.18	46 48
(2) F30T12	HPF	10°C/50°F	120 277	0.68 0.30	81
(1) F32T8	HPF	10°C/50°F	120 277	0.32 0.14	37
(2) F40T8	HPF	10°C/50°F	120 277	0.61 0.26	71
(1) F40T12 (34 watt)	HPF	16°C/60°F	120 277	0.38 0.16	43
(2) F40T12 (34 watt)	HPF	16°C/60°F	120 277	0.63 0.27	72
(1) F40T10, T12	HPF	10°C/50°F	120 277	0.43 0.19	50
(2) F40T10, T12	HPF	10°C/50°F	120 277	0.73 0.32	86
800mA – High Output					
(1) F48T12HO	HPF	10°C/-20°F	120 277	0.75 0.32	85 80
(2) F48T12HO	HPF	10°C/-20°F	120 277	1.30 0.56	145
(1) F72 or F96T12HO	HPF	-28°C/-20°F	120 277	1.15 0.50	135
(2) F96T12HO	HPF	-28°C/-20°F	120 277	2.05 0.88	237
1500mA – Very High Output/Power Groove					
(1) F96PG/VHO/SHO	HPF	-28°C/-20°F	120 277	3.30 1.35	375
T5 Twin Fluorescent					
(1) FT24W, 27W	HPF	10°C/50°F	120 277	0.28 0.12	32
(2) FT24W, 27W	HPF	10°C/50°F	120 277	0.58 0.25	66
(1) FT36W, 39W	HPF	10°C/50°F	120 277	0.44 0.19	51
(2) FT36W, 39W	HPF	10°C/50°F	120 277	0.76 0.34	88
(1) FT40W	HPF	10°C/50°F	120 277	0.40 0.18	45 46
(2) FT40W	HPF	10°C/50°F	120 277	0.69 0.32	82

NOTES:

- 1 All data based on magnetic ballasting. For information regarding operation of electronic ballasts, consult ballast manufacturer's technical data.
- 2 For 347V or other voltages, consult factory.

Fluorescent Magnetic (60Hz) Ballasts

Type of Ballast	Type of Measurement	Equipment Required	Testing Procedure
Preheat	<i>Starting Current and Operating Current</i>	Ammeter (0–1 amp scale)	Measure amps between lamp and colored high-voltage secondary ballast lead.
	<i>Starting Voltage</i>	Voltmeter (0–300V scale)	Remove lamp. 1-lamp: Measure voltage between red lead and white lead. 2-lamp: Measure voltage between a red lead and white lead; between blue lead and white lead.
Rapid Start	<i>Starting Voltage</i>	Voltmeter (0-1000V scale)	Measure voltage between a blue lead and highest-reading red lead.
	<i>Filament Voltage</i>	Voltmeter (0-1000V scale)	1-lamp: Measure voltage between two red leads; between two blue leads. 2-lamp: Measure voltage between two red leads; between two blue leads; between two yellow leads.
800mA	<i>Starting Voltage</i>	Voltmeter (0-1000V scale)	Measure voltage between a blue lead and highest-reading red lead.
	<i>Filament Voltage</i>	Voltmeter (0-1000V scale)	1-lamp: Measure voltage between two red leads; between two blue leads. 2-lamp: Measure voltage between two red leads; between two blue leads; between two yellow leads.
1500mA	<i>Starting Voltage</i>	Voltmeter (0-1000V scale)	Measure voltage between a blue lead and highest-reading red lead.
	<i>Filament Voltage</i>	Voltmeter	1-lamp: Measure voltage between two red leads; between two blue leads. 2-lamp: Measure voltage between two red leads; between two blue leads; between two yellow leads.
Slimline	<i>Starting Voltage</i>	Voltmeter (electrostatic or high-voltage type, 0-1000V scale)	Remove lamp. Measure voltage between primary and secondary leads of each lamp as indicated below. For series-sequence ballast, red lead must be in position while measuring starting voltage of remaining lamp. 1-lamp: Measure between red lead and white lead. 2-lamp (series): Measure between red lead and white lead. Insert lamp in red and white position and measure between blue lead and black lead. 2-lamp (lead lag): Measure between red lead and white lead; between blue lead and white lead.
InstantStart	<i>Starting Voltage</i>	Voltmeter (electrostatic or high-voltage type, 0-1000V scale)	Remove lamp. Measure voltage between primary and secondary leads of each lamp as indicated below. For series-sequence ballast, red lead must be in position while measuring starting voltage of remaining lamp. 1-lamp: Measure between red lead and white lead. 2-lamp (series): Measure between red lead and white lead. Insert lamp in red and white position and measure between blue lead and black lead. 2-lamp (lead lag): Measure between red lead and white lead; between blue lead and white lead.

Example: **F18DTT/35 4PIN GE**

Type	Wattage	Lamp	Color	Pin	Manufacturer
F Fluorescent	7, 9, 13, 18, 22, 26, 28, 32, 42, 57, 70	TT Twin tube DTT Double twin-tube TRT Triple tube	27 30 35 41	(blank) 2-pin lamp 4PIN 4-pin lamp	GE General Electric SY OSRAM SYLVANIA PH Philips

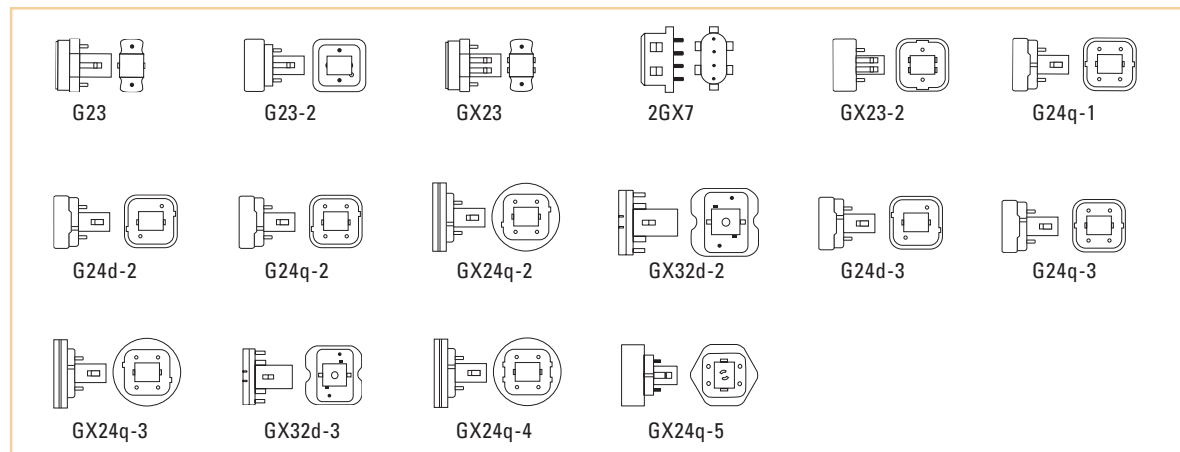
Availability of Compact Fluorescent Lamps

■ = Available

Wattage/ Lamp Type	Color				Pin		Base Configuration
	27	30	35	41	2-pin	4-pin	
7TT	■ ^{1,2,3}		■ ^{1,2,3}	■ ^{1,2,3}	■		G23
9TT	■ ^{1,2,3}		■ ^{1,2,3}	■ ^{1,2,3}	■		G23
9DTT	■ ^{1,2}	■ ²	■ ²	■ ¹	■		G23-2
13TT	■ ^{1,2,3}	■ ^{1,2,3}	■ ^{1,2,3}	■ ^{1,2,3}	■		GX23
13TT	■ ²	■ ²		■ ²		■	2GX7
13DTT	■ ^{1,2,3}	■ ^{1,2,3}	■ ^{1,2,3}	■ ^{1,2,3}	■		GX23-2
13DTT	■ ^{1,2,3}	■ ^{1,2,3}	■ ^{1,2,3}	■ ^{1,2,3}		■	G24q-1
18DTT	■ ^{1,2,3}	■ ^{1,2,3}	■ ^{1,2,3}	■ ^{1,2,3}	■		G24d-2
18DTT	■ ^{1,2,3}	■ ^{1,2,3}	■ ^{1,2,3}	■ ^{1,2,3}		■	G24q-2
18TRT	■ ^{1,2,3}	■ ^{1,2,3}	■ ^{1,2,3}	■ ^{1,2,3}		■	GX24q-2
22DTT	■ ³				■		GX32d-2
26DTT	■ ^{1,2,3}	■ ^{1,2,3}	■ ^{1,2,3}	■ ^{1,2,3}	■		G24d-3
26DTT	■ ^{1,2,3}	■ ^{1,2,3}	■ ^{1,2,3}	■ ^{1,2,3}		■	G24q-3
26TRT	■ ^{1,2,3}	■ ^{1,2,3}	■ ^{1,2,3}	■ ^{1,2,3}		■	GX24q-3
28DTT	■ ³				■		GX32d-3
32TRT	■ ^{1,2,3}	■ ^{1,2,3}	■ ^{1,2,3}	■ ^{1,2,3}		■	GX24q-3
42TRT	■ ^{1,2,3}	■ ^{1,2,3}	■ ^{1,2,3}	■ ^{1,2,3}		■	GX24q-4
57TRT	■ ²	■ ²	■ ²	■ ²		■	GX24q-5
70TRT	■ ²	■ ²	■ ²	■ ²		■	GX24q-5

NOTES:

- 1 Available from General Electric
- 2 Available from OSRAM SYLVANIA
- 3 Available from Philips



Electronic Ballasts

Power Factor >98%, THD<10%, flicker-free starting, 4-pin lamp

Wattage/ Lamp Type	No. of lamps	Starting temp.			Electrical Information					
					120V		277V		347V	
		120V	277V	347V	Input watts	Max. amps	Input watts	Max. amps	Input watts	Max. amps
13TT	2	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	30	0.25	29	0.11	N/A	N/A
13DTT	1	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	18	0.15	18	0.07	18	0.06
	2	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	32	0.27	32	0.12	33	0.10
18DTT, 18TRT	1	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	22	0.16	22	0.07	21	0.06
	2	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	40	0.30	40	0.13	38	0.11
26DTT, 26TRT	1	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	28	0.25	28	0.11	31	0.09
	2	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	56	0.49	56	0.21	57	0.17
32TRT	1	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	36	0.32	36	0.14	36	0.11
	2	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	69	0.58	69	0.26	62	0.19
42TRT	1	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	48	0.42	48	0.18	50	0.15
	2	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	94	0.78	94	0.33	80	0.25
57TRT	1	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	59	0.50	59	0.21	61	0.18
	2	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	118	1.00	118	0.42	122	0.36
70TRT	1	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	75	0.63	75	0.27	74	0.21

Electromagnetic Ballasts

Power Factor – Normal = 50%, High ≥90%, 2-pin lamp

Wattage/ Lamp type	No. of lamps	Power Factor	Starting temp.			Electrical Information					
						120V		277V		347V	
			120V	277V	347V	Input watts	Max. amps	Input watts	Max. amps	Input watts	Max. amps
7TT	1	Normal	0°F (-18°C)	N/A	N/A	9	0.19	N/A	N/A	N/A	N/A
	2	Normal	0°F (-18°C)	N/A	N/A	18	0.38	N/A	N/A	N/A	N/A
9TT	1	Normal	25°F (-4°C)	N/A	N/A	10	0.19	N/A	N/A	N/A	N/A
	2	Normal	25°F (-4°C)	N/A	N/A	20	0.38	N/A	N/A	N/A	N/A
9TT	1	High	25°F (-4°C)	0°F (-18°C)	N/A	11	0.20	13	0.18	N/A	N/A
	2	High	25°F (-4°C)	0°F (-18°C)	N/A	18	0.25	17	0.16	N/A	N/A
13TT, 13DTT	1	Normal	32°F (0°C)	0°F (-18°C)	N/A	17	0.44	16	0.35	N/A	N/A
	2	Normal	32°F (0°C)	0°F (-18°C)	N/A	34	0.88	32	0.70	N/A	N/A
13TT, 13DTT	1	High	32°F (0°C)	0°F (-18°C)	32°F (0°C)	16	0.36	24	0.30	22	0.30
	2	High	32°F (0°C)	0°F (-18°C)	32°F (0°C)	35	0.44	27	0.35	35	0.15
18DTT	1	Normal	50°F (10°C)	50°F (10°C)	N/A	25	0.48	22	0.27	N/A	N/A
	2	Normal	50°F (10°C)	50°F (10°C)	N/A	50	0.96	44	0.54	N/A	N/A
18DTT	1	High	50°F (10°C)	50°F (10°C)	15°F (-9°C)	23	0.35	23	0.27	24	0.25
	2	High	50°F (10°C)	50°F (10°C)	15°F (-9°C)	44	0.73	42	0.28	48	0.50
22DTT	1	High	0°F (-18°C)	N/A	N/A	26	0.62	N/A	N/A	N/A	N/A
	2	High	0°F (-18°C)	N/A	N/A	52	1.24	N/A	N/A	N/A	N/A
26DTT	1	Normal	50°F (10°C)	50°F (10°C)	N/A	33	0.67	31	0.33	N/A	N/A
	2	Normal	50°F (10°C)	50°F (10°C)	N/A	66	1.34	62	0.66	N/A	N/A
26DTT	1	High	50°F (10°C)	50°F (10°C)	25°F (-4°C)	28	0.41	32	0.38	36	0.25
	2	High	50°F (10°C)	50°F (10°C)	25°F (-4°C)	50	0.42	58	0.32	72	0.50
28DTT	1	High	-20°F (-29°C)	N/A	N/A	32	0.84	N/A	N/A	N/A	N/A
	2	High	-20°F (-29°C)	N/A	N/A	64	1.68	N/A	N/A	N/A	N/A

	Wattage	ANSI	Base – number	Beam bulb type	Burning position	Coated	Manufacturer ¹	Lithonia Cat. No. ²
Metal Halide ³	50M	M110	MED-ED17		Universal	Yes	PH, GE, VE	MH50M/C/U
	70M	M98	MED-ED17		Universal	Yes	PH, GE, VE	MH70M/C/U
	100M	M90	MED-ED17		Universal	Yes	PH, GE, VE	MH100M/C/U
	150M	M102	MED - ED17		Universal	No	PH, GE, SY, VE	MH150M/U
	175M	M137 or M152	MOG - ED28		Base up	Yes	PH, GE, VE	MS175BU PSL
	175M	M137 or M152	MOG - ED28		Base up	No	GE, VE	MS175C/BU PSL
	200M	M136	MOG - ED28		Universal	Yes	VE	MS200U PSL
	200M	M136	MOG - ED28		Universal	No	VE	MS200C/U PSL
	250M	M138 or M153	MOG - ED28		BU-HOR	Yes	VE	MS250C/BUH PSL
	250M	M138 or M153	MOG - ED28		BU-HOR	No	VE	MS250BUH PSL
	250M	M138 or M153	MOG - ED28		Base up	Yes	GE, SY	MS250C/BU PSL
	250M	M138 or M153	MOG - ED28		Base up	No	PH, GE, SY	MS250BU PSL
	300M	M151	MOG - ED28		Vertical +/- 15°	Yes	VE	MS300R/C BUD PSL
	300M	M151	MOG - ED28		Vertical +/- 15°	No	VE	MS300R/BUD PSL
	320M	M132 or M154	MOG - ED28		Universal	Yes	PH	MS320R/C/U PSL PH
	320M	M132 or M154	MOG - ED28		Universal	No	PH	MS320R/U PSL PH
	320M	M132 or M154	MOG - ED28		Vertical +/- 15°	Yes	GE, VE	MS320R/BU PSL
	320M	M132 or M154	MOG - ED28		Vertical +/- 15°	No	GE, VE	MS320R/C BU PSL
	320M	M132 or M154	MOG - ED28		BU-HOR	Yes	SY	MS320R/C BU PSL SY
	320M	M132 or M154	MOG - ED28		BU-HOR	No	SY	MS320R/BU PSL SY
	350M	M131	MOG - ED37		Universal	Yes	PH, GE, VE	MS350C/BUD PSL
	350M	M131	MOG - ED37		Universal	No	PH, GE, VE	MS350/BUD PSL
	400M	M135 or M155	MOG - ED37		Base up	Yes	PH, GE, SY, VE	MS400C/BU PSL
	400M	M135 or M155	MOG - ED37		Base up	No	PH, GE, SY, VE	MS400BU PSL
	450M	M144	MOG - ED37		Base up	Yes	VE	MS450C/BU PSL
	450M	M144	MOG - ED37		Base up	No	VE	MS450BU PSL
	750M	M149	MOG - BT37		Base up	Yes	GE	MS750C/BU PSL
	750M	M149	MOG - BT37		Base up	No	GE	MS750BU PSL
	750M	M149	MOG - BT37		BU-HOR	No	SY	MS750BUH PSL
	875M	TBD	MOG - BT37		Base up	No	VE	MS875R/BU PSL
1000M	M141	MOG - BT37		Universal	No	SY	MS1000R/U PSL	
1000M	M141	MOG - BT37		Base up	No	PH, SY, VE	MS1000R/BU PSL	
1500M	M48	MOG-BT56		BU-HOR	No	PH, GE, SY	MH1500BUH	
1500M	M48	MOG-BT56		BD	No	PH, GE, SY	MH1500BD	
Metal Halide ⁴	50M	M110	MED-ED17		Universal	Yes	PH, SY, VE	MP50M/C/U
	70M	M98	MED-ED17		Universal	Yes	PH, GE, SY, VE	MP70M/C/U
	100M	M90	MED-ED17		Universal	Yes	PH, GE, SY, VE	MP100M/C/U
	150M	M102	MED-ED17		Universal	Yes	SY	MP150M/C/U
	175M	M57	MOG - ED28		Base up	Yes	SY	MP175C/BU
	175M	M57	MOG - ED28		Base up	No	PH, SY	MP175BU
	200M	M136	MOG - ED28		Vertical +/- 15°	Yes	VE	MP200C/BUD PSL
	200M	M136	MOG - ED28		Vertical +/- 15°	No	VE	MP200BUD PSL
	250M	M58	MOG - ED28		Base up	Yes	SY	MP250C/BU
	250M	M58	MOG - ED28		Base up	No	PH, SY	MP250BU
	250M	M138 or M153	MOG - ED28		Base up	Yes	VE	MP250C/BU PSL
	250M	M138 or M153	MOG - ED28		Base up	No	VE	MP250BU PSL
	300M	M151	MOG - ED28		Vertical +/- 15°	Yes	VE	MP300R/C BU PSL
	300M	M151	MOG - ED28		Vertical +/- 15°	No	VE	MP300R/BU PSL
	320M	M132 or M154	MOG - ED28		Base up	Yes	GE, SY, VE	MP320R/C BU PSL
	320M	M132 or M154	MOG - ED28		Base up	No	GE, SY, VE	MP320R/BU PSL
	350M	M131	MOG - ED37		Vertical +/- 15°	Yes	VE	MP350C/BUD PSL
	350M	M131	MOG - ED37		Vertical +/- 15°	No	VE	MP350BUD PSL
	350M	M131	MOG - ED37		Base up	Yes	GE, SY	MP350C/BU PSL
	350M	M131	MOG - ED37		Base up	No	GE, SY	MP350BU PSL
	400M	M59	MOG - ED37		Universal	Yes	PH, GE, SY, VE	MH400C/U
	400M	M59	MOG - ED37		Universal	No	PH, GE, SY, VE	MH400U
	400M	M59	MOG - ED37		Base up	Yes	PH, GE, SY	MP400C/BU
	400M	M59	MOG - ED37		Base up	No	PH, GE, SY	MP400BU
	400M	M135 or M155	MOG - ED37		Base up	Yes	PH, GE, SY, VE	MP400C/BU PSL
	400M	M135 or M155	MOG - ED37		Base up	No	PH, GE, SY, VE	MP400BU PSL
	450M	M144	MOG - ED37		Base up	Yes	VE	MP450C/BU PSL
	450M	M144	MOG - ED37		Base up	No	VE	MP450BU PSL
	1000M	M47	MOG - BT56		Base up	Yes	SY	MP1000C/BU
	1000M	M47	MOG - BT56		Base up	No	SY	MP1000BU
1000M	M47	MOG - BT56		Universal	Yes	PH, GE, SY, VE	MH1000C/U	
1000M	M47	MOG - BT56		Universal	No	PH, GE, SY, VE	MH1000U	

NOTES:

1 GE = General Electric; SY = OSRAM SYLVANIA; PH = Philips; VE = Venture
 2 To specify a manufacturer, add manufacturer to item number. Ex: MC100M/CU GE.

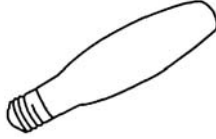
3 For use in enclosed rated fixtures only.
 4 For use in open or enclosed rated fixtures.

	Wattage	ANSI	Base – number	Beam bulb type	Burning position	Coated	Manufacturer ¹	Lithonia Cat. No. ²
Metal Halide PAR Lamps	70M	M98	MED-PAR38	Spot	Universal	No	PH, GE, SY, VE	MP70P38S
	70M	M98	MED-PAR38	Flood	Universal	No	PH, GE, SY, VE	MP70P38F
	70M	M98	MED-PAR38	Wide Flood	Universal	No	GE, SY, VE	MP70P38W
	100M	M90	MED-PAR38	Spot	Universal	No	PH, GE, SY, VE	MP100P38S
	100M	M90	MED-PAR38	Flood	Universal	No	PH, GE, SY, VE	MP100P38F
	100M	M90	MED-PAR38	Wide Flood	Universal	No	GE, SY, VE	MP100P38W
	150M	M102	MED-PAR38	Spot	Universal	No	GE, SY	MP150P38S
	150M	M102	MED-PAR38	Flood	Universal	No	GE, SY	MP150P38F
Color-Corrected Ceramic Metal Halide ³	70M	M98	MED-ED17		Universal	Yes	PH, GE	MC70M/CU
	100M	M90	MED-ED17		Universal	Yes	PH, GE	MC100M/CU
	150M	M102	MED-ED17		Universal	Yes	PH	MC150M/CU
Color-Corrected Ceramic Metal Halide ⁴	70M	M98	MED-ED17		Universal	Yes	PH	MPC70M/CU
	100M	M90	MED-ED17		Universal	Yes	PH	MPC100M/CU
	150M	M102	MED-ED17		Universal	Yes	PH	MPC150M/CU
	400M	M135 or M155	MOG-ED37		Base up	Yes	GE	MPC400C/BU LP940
	400M	M135 or M155	MOG-ED37		Base up	No	GE	MPC400/BU LP940
Color-Corrected Ceramic Metal Halide PAR Lamps	35M	M130	MED-PAR20	Spot	Universal	No	PH	MPC35P20S
	35M	M130	MED-PAR20	Flood	Universal	No	PH	MPC35P20F
	35M	M130	MED-PAR30	Spot	Universal	No	PH	MPC35P30S
	35M	M130	MED-PAR30	Flood	Universal	No	PH	MPC35P30F
	70M	M98	MED-PAR30	Spot	Universal	No	PH, GE	MPC70P30S
	70M	M98	MED-PAR30	Flood	Universal	No	PH, GE	MPC70P30F
	70M	M98	MED-PAR38	Spot	Universal	No	PH, GE	MPC70P38S
	70M	M98	MED-PAR38	Flood	Universal	No	PH, GE	MPC70P38F
	70M	M98	MED-PAR38	Wide Flood	Universal	No	PH	MPC70P38W
	100M	M90	MED-PAR38	Spot	Universal	No	PH, GE	MPC100P38S
	100M	M90	MED-PAR38	Flood	Universal	No	PH, GE	MPC200P38F
	100M	M90	MED-PAR38	Wide Flood	Universal	No	PH	MPC100P38W
	High Pressure Sodium	35S	S76	MED-ED17		Universal	Yes	PH, GE, SY
35S		S76	MED-ED17		Universal	No	PH, GE, SY	LU35M
50S		S68	MED-ED17		Universal	Yes	PH, GE, SY	LU50M/C
50S		S68	MED-ED17		Universal	No	PH, GE, SY	LU50M
50S		S68	MOG-ED23.5		Universal	Yes	PH, GE, SY	LU50C
50S		S68	MOG-ED23.5		Universal	No	PH, GE, SY	LU50
70S		S62	MED-ED17		Universal	Yes	PH, GE, SY	LU70M/C
70S		S62	MED-ED17		Universal	No	PH, GE, SY	LU70M
70S		S62	MOG-ED23.5		Universal	Yes	PH, GE, SY	LU70C
70S		S62	MOG-ED23.5		Universal	No	PH, GE, SY	LU70
100S		S54	MED-ED17		Universal	Yes	PH, GE, SY	LU100M/C
100S		S54	MED-ED17		Universal	No	PH, GE, SY	LU100M
100S		S54	MOG-ED23.5		Universal	Yes	PH, GE, SY	LU100C
100S		S54	MOG-ED23.5		Universal	No	PH, GE, SY	LU100
150S		S55	MED-ED17		Universal	Yes	PH, GE, SY	LU150M/C
150S		S55	MED-ED17		Universal	No	PH, GE, SY	LU150M
150S		S55	MOG-ED23.5		Universal	Yes	PH, GE, SY	LU150C
150S		S55	MOG-ED23.5		Universal	No	PH, GE, SY	LU150
200S		S66	MOG-BT18		Universal	Yes	PH, GE, SY	LU200C
200S		S66	MOG-BT18		Universal	No	PH, GE, SY	LU200
250S		S50	MOG-BT28		Universal	Yes	PH, SY	LU250C
250S		S50	MOG-BT28		Universal	No	PH, GE, SY	LU250
310S		S67	MOG-BT18		Universal	No	PH, GE, SY	LU310
400S		S51	MOG-BT37		Universal	Yes	PH, GE, SY	LU400C
400S		S51	MOG-BT37		Universal	No	PH, GE, SY	LU400
600S		S106	MOG-T15		Universal	No	PH, GE, SY	LU600
750S		S111	MOG-ED37		Universal	No	PH, GE, SY	LU750
1000S	S52	MOG-E25		Universal	No	PH, GE, SY	LU1000	
White Son High Pressure Sodium	35SDW	S99	PG12-T10		Universal	No	PH	WS35P
	50SDW	S104	MED-ED17		Universal	Yes	PH	WS50M/C
	50SDW	S104	PG12-T10		Universal	No	PH	WS50P
	100SDW	S105	MED-ED17		Universal	Yes	PH	WS100M/C
	100SDW	S105	PG12-T10		Universal	No	PH	WS100P

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Ballast Data – High Pressure Sodium

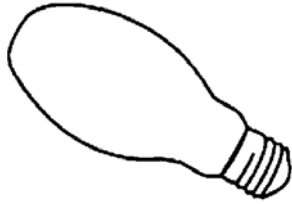
High Intensity Discharge



High pressure sodium ballasts require a magnetic circuit to produce the open-circuit voltage and control the lamp operating current, and a special electronic starting circuit. The electronic starting

circuit applies a high voltage pulse across the lamp to initiate the arc. The pulse continues to fire at each half cycle until the arc is established, at which time it shuts off.

Wattage	ANSI Code	Ballast Type	Power Factor	Wiring Diagram	Regulation LineV=LampW	Minimum Starting Ambient	Primary Voltage	Dropout Voltage	Starting Current	Operating Current	Open-Circuit Current	Input Wattage	
35	S76	R	NPF	H1	+/-5%=+/-12%	-40C/-40F	120	95	1.35	0.84	NIL	46	
	S76	R	HPF	H2	+/-5%=+/-12%	-40C/-40F	120	95	0.78	0.38	0.68	46	
50	S68	R	NPF	H1	+/-5%=+/-12%	-40C/-40F	120	95	1.80	1.18	NIL	62	
	S68	R	HPF	H2	+/-5%=+/-12%	-40C/-40F	120	95	0.95	0.55	1.00	62	
	S68	HX	HPF	H5	+/-5%=+/-12%	-40C/-40F	120/277	95/225	0.65/0.30	0.61/0.26	1.24/0.44	66	
70	S62	R	NPF	H1	+/-5%=+/-12%	-40C/-40F	120	95	2.10	1.60	NIL	83	
	S62	R	HPF	H2	+/-5%=+/-12%	-40C/-40F	120	95	0.90	0.75	1.30	83	
	S62	HX	HPF	H5	+/-5%=+/-12%	-40C/-40F	120/277	95/225	0.90/0.35	0.82/0.36	1.40/0.70	94	
	S62	HX	HPF	H4	+/-5%=+/-12%	-40C/-40F	208	155	0.50	0.48	0.90	94	
	S62	HX	HPF	H4	+/-5%=+/-12%	-40C/-40F	240	180	0.44	0.41	0.80	94	
	S62	HX	HPF	H4	+/-5%=+/-12%	-40C/-40F	347	275	0.25	0.29	0.60	94	
	S62	HX	HPF	H4	+/-5%=+/-12%	-40C/-40F	480	385	0.21	0.20	0.40	94	
	S62	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	120/277	90/208	0.90/0.40	0.90/0.40	0.20/0.09	95	
	S62	CWI	HPF	H6	+/-10%=+/-10%	-40C/-40F	120/240	90/180	0.50/0.25	0.86/0.43	0.50/0.25	95	
	S62	CWI	HPF	H6	+/-10%=+/-10%	-40C/-40F	208	156	0.30	0.50	0.30	95	
	S62	MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	120/240	85/165	0.45/0.20	0.90/0.50	0.60/0.30	103	
	100	S54	R	NPF	H1	+/-5%=+/-12%	-40C/-40F	120	95	3.10	2.10	NIL	117
		S54	R	HPF	H2	+/-5%=+/-12%	-40C/-40F	120	95	1.50	1.05	1.80	117
		S54	HX	HPF	H5	+/-5%=+/-12%	-40C/-40F	120/277	96/222	1.30/0.60	1.14/0.49	2.20/0.95	130
S54		HX	HPF	H4	+/-5%=+/-12%	-40C/-40F	208	166	0.75	0.65	1.30	130	
S54		HX	HPF	H4	+/-5%=+/-12%	-40C/-40F	240	192	0.65	0.57	1.10	130	
S54		HX	HPF	H4	+/-5%=+/-12%	-40C/-40F	347	275	0.45	0.39	0.70	130	
S54		HX	HPF	H4	+/-5%=+/-12%	-40C/-40F	480	385	0.35	0.28	0.60	130	
S54		CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	120/277	90/208	0.80/0.35	1.20/0.50	0.65/0.25	138	
S54		CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	480	360	0.20	0.30	0.15	138	
S54		CWI	HPF	H6	+/-10%=+/-10%	-40C/-40F	120/240	90/180	0.70/0.35	1.22/0.61	0.70/0.35	130	
S54		CWI	HPF	H6	+/-10%=+/-10%	-40C/-40F	208	156	0.40	0.70	0.40	130	
S54		MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	120/240	75/150	1.00/0.50	1.20/0.60	0.44/0.22	138	
S54		MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	277	185	0.21	0.60	0.45	138	
S54		MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	480	330	0.12	0.30	0.25	138	
150	S55	R	NPF	H1	+/-5%=+/-12%	-40C/-40F	120	95	4.50	3.20	NIL	171	
	S55	R	HPF	H2	+/-5%=+/-12%	-40C/-40F	120	95	2.25	1.50	2.40	171	
	S55	HX	HPF	H5	+/-5%=+/-12%	-40C/-40F	120/277	96/222	2.00/0.88	1.66/0.72	3.00/1.30	189	
	S55	HX	HPF	H4	+/-5%=+/-12%	-40C/-40F	208	166	1.15	0.96	1.65	189	
	S55	HX	HPF	H4	+/-5%=+/-12%	-40C/-40F	240	192	1.00	0.83	1.45	189	
	S55	HX	HPF	H4	+/-5%=+/-12%	-40C/-40F	347	280	0.53	0.57	1.00	189	
	S55	HX	HPF	H4	+/-5%=+/-12%	-40C/-40F	480	385	0.50	0.44	0.72	189	
	S55	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	120/277	90/208	0.96/0.42	1.70/0.70	0.96/0.42	190	
	S55	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	480	360	0.24	0.50	0.24	190	
	S55	CWI	HPF	H6	+/-10%=+/-10%	-40C/-40F	120/240	90/180	0.90/0.45	1.76/0.88	1.00/0.50	190	
	S55	CWI	HPF	H6	+/-10%=+/-10%	-40C/-40F	208	156	0.50	1.01	0.60	190	
	S55	MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	120/240	75/150	1.40/0.70	1.70/0.90	1.60/0.80	196	
	S55	MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	277	160	0.60	0.75	0.75	196	
	S55	MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	480	300	0.35	0.40	0.40	196	
200	S66	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	120	80	1.50	2.20	1.25	245	
	S66	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	208	130	0.92	1.25	0.75	245	
	S66	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	240	160	0.75	1.10	0.75	245	
	S66	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	277	180	0.66	0.95	0.60	245	
	S66	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	347	220	0.55	0.75	0.38	245	
	S66	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	480	300	0.41	0.56	0.35	245	
	S66	MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	120/240	55/110	0.80/0.40	2.20/1.10	1.50/0.75	255	
	S66	MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	480	220	0.20	0.55	0.38	255	
	250	S50	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	120	90	1.75	2.50	1.70	300
		S50	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	208	156	1.00	1.50	1.00	300
S50		CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	240	180	0.85	1.30	0.80	300	
S50		CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	277	208	0.75	1.10	0.75	300	
S50		CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	347	260	0.75	0.90	0.70	300	
S50		CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	480	360	0.44	0.65	0.46	310	
S50		CWI	HPF	H6	+/-10%=+/-10%	-40C/-40F	120/240	90/180	1.20/0.60	2.75/1.38	1.50/0.75	300	
S50		CWI	HPF	H6	+/-10%=+/-10%	-40C/-40F	208	156	0.70	1.60	0.87	300	
S50		MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	120/240	55/110	1.00/0.50	2.70/1.45	1.80/0.90	310	
S50		MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	277	120	0.45	1.20	0.75	310	
S50		MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	480	240	0.25	0.70	0.45	310	
310		S67	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	120	90	1.70	3.40	1.80	365
		S67	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	208	156	0.89	1.95	1.00	365
		S67	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	240	180	0.85	1.70	0.90	365
	S67	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	277	208	0.75	1.45	0.80	365	
	S67	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	347	260	0.41	0.90	0.45	365	
	S67	MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	120/240	40/80	1.30/0.75	3.30/1.70	1.20/0.60	380	
	S67	MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	480	175	0.37	0.90	0.30	380	
400	S51	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	120	90	3.30	3.90	2.00	465	
	S51	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	208	156	1.80	2.25	1.20	465	
	S51	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	240	180	1.60	1.95	0.95	465	
	S51	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	277	208	1.40	1.70	0.85	465	
	S51	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	347	260	1.10	1.36	0.70	465	
	S51	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	480	360	0.75	1.00	0.60	467	
	S51	CWI	HPF	H6	+/-10%=+/-10%	-40C/-40F	120/240	90/180	2.00/1.00	4.20/2.10	2.00/1.00	465	
	S51	CWI	HPF	H6	+/-10%=+/-10%	-40C/-40F	208	156	1.15	2.40	1.15	465	
	S51	CWI	HPF	H6	+/-10%=+/-10%	-40C/-40F	480	330	0.68	0.93	0.46	446	
	S51	MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	120/240	45/90	2.00/1.00	4.20/2.10	2.20/1.10	490	
	S51	MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	277	105	0.85	1.80	0.95	490	
	S51	MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	480	180	0.50	1.10	0.55	490	
	600	S106	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	120	65	5.20	5.50	3.00	670
		S106	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	208	110	3.00	3.30	1.75	670
S106		CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	240	130	2.60	2.90	2.60	670	
S106		CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	277	140	2.15	2.50	1.40	665	
S106		CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	347	160	1.70	2.00	1.10	665	
S106		CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	480	250	1.20	1.43	0.75	665	
750	S111	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	120	90	6.70	7.12	3.00	840	
	S111	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	208	156	3.85	4.10	1.75	840	
	S111	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	240	180	3.35	3.56	1.60	840	
	S111	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	277	208	3.00	3.10	1.50	840	
	S111	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	347	260	2.30	2.50	1.20	840	
	S111	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	480	360	1.65	1.80	0.90	840	
1000	S52	CWA	HPF	H3	+/-10%=+/-10%	-40C/-40F	120	90					



Metal halide lamps are available in two varieties: PROBE START lamps, which rely on a high lamp current crest factor, a high ballast open-circuit voltage and a starting electrode to initiate the arc; and PULSE START lamps, which contain no starting electrode and rely on an ignitor in the ballast to initiate the arc.

HAZARD WARNING – USE OF METAL HALIDE LAMPS

These lamps can cause serious skin burn and eye inflammation from ultraviolet radiation if the outer envelope of the lamp is broken or punctured and the arc-tube continues to operate. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken are commercially available.

Wattage	ANSI Code	Ballast Type	Power Factor	Wiring Diagram	Regulation LineV=LampW	Minimum Starting Ambient	Primary Voltage	Dropout Voltage	Starting Current	Operating Current	Open-Circuit Current	Input Wattage
50	M110	R	NPF		+/-5%=+/-12%	-30C/-20F	277	190	.068	0.62	NIL	62
	M110	R	HPF	M5	+/-5%=+/-12%	-30C/-20F	277	190	0.35	0.22	0.55	62
	M110	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	120/277	90/208	0.60/0.25	0.66/0.28	1.00/0.45	72
	M110	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	208	150	0.51	0.35	0.67	67
	M110	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	240	175	0.47	0.30	0.57	67
	M110	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	347	220	0.17	0.20	0.55	67
70	M98	R	NPF		+/-5%=+/-12%	-30C/-20F	277	190	1.15	.90	NIL	85
	M98	R	HPF	M5	+/-5%=+/-12%	-30C/-20F	277	190	0.50	0.32	0.80	85
	M98	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	120/277	90/208	0.55/0.25	0.85/0.37	1.90/0.80	88
	M98	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	208	156	0.30	0.49	1.00	88
	M98	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	240	180	0.25	0.42	0.90	88
	M98	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	347	260	0.20	0.30	0.65	88
100	M90	R	HPF	M5	+/-5%=+/-12%	-30C/-20F	277	190	0.70	0.45	1.05	118
	M90	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	120/277	90/208	1.15/0.50	1.15/0.50	2.60/1.15	130
	M90	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	208	156	0.66	0.66	1.50	130
	M90	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	240	180	0.58	0.58	1.30	130
	M90	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	347	260	0.40	0.40	1.00	130
	M90	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	480	340	0.30	0.30	0.55	132
150	M90	SCWA	HPF	M4	+/-10%=+/-10%	-30C/-20F	120/277	60/140	0.80/0.35	1.20/0.50	1.05/0.45	128
	M102	LLRPSL	HPF	M5	+/-5%=+/-12%	-30C/-20F	277	170	0.70	0.63	1.50	173
	M102	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	120/277	90/208	0.95/0.42	1.60/0.70	3.65/1.58	185
	M102	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	208	156	0.55	0.90	2.10	185
	M102	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	240	180	.50	.80	1.80	185
	M102	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	347	260	0.65	0.55	1.25	185
150	M102	SCWA	HPF	M4	+/-10%=+/-10%	-30C/-20F	120/277	90/210	1.15/0.50	1.75/0.80	1.40/0.60	189
	M102	SCWA	HPF	M4	+/-10%=+/-10%	-30C/-20F	347	260	0.40	0.70	0.50	189
	M57 or H39	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	120	60	1.30	1.80	1.80	213
	M57 or H39	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	208	105	0.74	1.10	1.10	213
	M57 or H39	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	240	120	0.64	0.90	0.85	213
	M57 or H39	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	277	140	0.53	0.80	0.80	213
	M57 or H39	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	347	180	0.36	0.62	0.62	213
	M57 or H39	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	480	220	0.27	0.45	0.51	213
	M137	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	120	60	1.10	1.80	1.70	208
	M137	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	208	105	0.58	1.10	1.10	208
	M137	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	240	120	0.51	0.90	0.85	208
	M137	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	277	140	0.45	0.80	0.80	208
200	M137	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	347	185	0.40	0.70	0.60	220
	M137	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	480	220	0.25	0.50	0.45	210
	M137	RLB	HPF	M6	+/-10%=+/-3%	-40C/-40F	120	84	1.0	2.00	1.25	220
	M137	RLB	HPF	M6	+/-10%=+/-3%	-40C/-40F	277	195	0.43	0.87	0.54	220
	M137	RLB	HPF	M6	+/-10%=+/-3%	-40C/-40F	347	243	0.35	0.70	0.43	220
	M137	RLB	HPF	M6	+/-10%=+/-3%	-40C/-40F	480	336	0.25	0.50	0.31	220
	M136	LLRPSL	HPF	M5	+/-5%=+/-12%	-40C/-40F	277	180	1.00	0.80	1.30	218
	M136	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	120	80	1.15	2.20	1.80	232
	M136	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	208	140	0.65	1.25	1.25	232
	M136	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	240	160	0.55	1.10	1.10	232
	M136	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	277	180	0.49	0.95	0.90	232
	M136	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	347	215	0.55	0.77	0.75	232
M136	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	480	240	0.19	0.50	0.43	232	
M136	RLB	HPF	M6	+/-10%=+/-3%	-40C/-40F	277	138	0.60	0.90	0.50	244	
250	M58 or H37	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	120	65	1.35	2.60	2.04	294
	M58 or H37	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	208	105	0.72	1.50	1.48	294
	M58 or H37	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	240	125	0.65	1.30	1.22	294
	M58 or H37	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	277	150	0.44	1.12	1.12	294
	M58 or H37	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	347	190	0.35	0.85	1.05	294
	M58 or H37	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	480	260	0.25	0.65	0.65	294
	M58 or H37	CWI	HPF	M3	+/-10%=+/-10%	-30C/-20F	120/240	60/120	0.90/0.45	2.66/1.33	2.00/1.00	295
	M58 or H37	CWI	HPF	M3	+/-10%=+/-10%	-30C/-20F	208	105	0.50	1.54	1.20	295
	M138	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	120	60	1.96	2.50	1.85	288
	M138	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	208	115	1.13	1.45	1.07	288
	M138	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	240	133	0.98	1.25	0.92	288
	M138	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	277	153	0.85	1.10	0.80	288
	M138	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	347	180	0.45	0.95	0.75	298
	M138	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	480	220	0.21	0.57	0.48	298
	M138	RLB	HPF	M6	+/-10%=+/-3%	-40C/-40F	120	85	1.00	2.80	2.31	298
	M138	RLB	HPF	M6	+/-10%=+/-3%	-40C/-40F	240	165	0.50	1.38	1.15	298
	M138	RLB	HPF	M6	+/-10%=+/-3%	-40C/-40F	277	195	0.43	1.20	1.00	298
	M138	RLB	HPF	M6	+/-10%=+/-3%	-40C/-40F	347	243	0.35	0.95	0.80	298
M138	RLB	HPF	M6	+/-10%=+/-3%	-40C/-40F	480	336	0.25	0.70	0.58	298	
320	M132	LLRPSL	HPF	M5	+/-5%=+/-12%	-40C/-40F	277	180	1.45	1.30	1.90	342
	M154/M132	LLSCWA	HPF	M7	(+/-)10% = (+/-)10%	-40C/-40F	120	67	2.04	2.96	1.95	350
	M154/M132	LLSCWA	HPF	M7	(+/-)10% = (+/-)10%	-40C/-40F	208	114	1.16	1.69	1.09	350
	M154/M132	LLSCWA	HPF	M7	(+/-)10% = (+/-)10%	-40C/-40F	240	135	1.01	1.48	0.97	350
	M154/M132	LLSCWA	HPF	M7	(+/-)10% = (+/-)10%	-40C/-40F	277	156	0.88	1.27	0.84	350
	M132	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	120	90	3.30	3.30	1.60	368
	M132	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	208	155	1.90	1.90	1.00	368
	M132	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	240	180	1.60	1.70	0.80	368
	M132	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	277	208	1.40	1.40	0.70	368
	M132	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	347	175	0.95	1.15	1.10	368
	M132	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	480	240	0.63	0.80	0.65	368

Wattage	ANSI Code	Ballast Type	Power Factor	Wiring Diagram	Open Regulation LineV=LampW	Minimum Starting Ambient	Primary Voltage	Dropout Voltage	Starting Current	Operating Current	Circuit Current	Input Wattage	
350	M131	LLRPSL	HPF	M5	+/-5%=+/-12%	-40C/-40F	277	200	2.00	1.50	2.10	375	
	M131	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	120	60	3.60	3.70	1.80	400	
	M131	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	208	105	2.10	2.10	1.10	400	
	M131	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	240	120	1.80	1.80	0.90	400	
	M131	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	277	140	1.60	1.60	0.80	400	
	M131	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	347	175	1.00	1.25	1.05	400	
400	M131	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	480	240	0.75	0.90	0.65	400	
	M59 or H33	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	120	60	2.50	4.00	3.20	452	
	M59 or H33	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	208	105	1.40	2.30	1.80	458	
	M59 or H33	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	240	120	1.20	2.00	1.60	458	
	M59 or H33	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	277	140	1.00	1.75	1.50	458	
	M59 or H33	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	347	175	1.20	1.40	1.05	460	
	M59 or H33	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	480	240	0.60	1.00	0.90	465	
	M59 or H33	CWI	HPF	M3	+/-10%=+/-10%	-30C/-20F	120	60	1.30	4.20	4.10	465	
	M59 or H33	CWI	HPF	M3	+/-10%=+/-10%	-30C/-20F	208	104	0.75	2.45	2.40	465	
	M59 or H33	CWI	HPF	M3	+/-10%=+/-10%	-30C/-20F	240	120	0.65	2.10	2.05	465	
	M59 or H33	CWI	HPF	M3	+/-10%=+/-10%	-30C/-20F	277	138	0.60	1.70	1.80	462	
	M59 or H33	CWI	HPF	M3	+/-10%=+/-10%	-30C/-20F	347	174	0.50	1.35	1.45	462	
	M59 or H33	CWI	HPF	M3	+/-10%=+/-10%	-30C/-20F	480	200	0.60	1.00	0.90	458	
	M135	LLRPSL	HPF	M5	+/-5%=+/-12%	-40C/-40F	277	200	2.10	1.70	2.10	425	
	M155/M135	LLSCWA	HPF	M7	(+/-)10% = (+/-)10%	-40C/-40F	120	60	3.16	3.80	2.10	434	
	M155/M135	LLSCWA	HPF	M7	(+/-)10% = (+/-)10%	-40C/-40F	208	104	1.78	2.10	1.20	434	
	M155/M135	LLSCWA	HPF	M7	(+/-)10% = (+/-)10%	-40C/-40F	240	120	1.58	1.90	1.07	434	
	M155/M135	LLSCWA	HPF	M7	(+/-)10% = (+/-)10%	-40C/-40F	277	138	1.38	1.65	0.92	434	
	M135	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	120	90	3.30	4.00	2.30	456	
	M135	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	208	155	2.00	2.30	1.90	456	
	M135	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	240	180	1.75	2.10	1.60	456	
	M135	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	277	208	1.40	1.80	0.90	456	
	M135	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	347	175	1.20	1.40	0.95	456	
	M135	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	480	240	0.85	1.00	0.63	456	
	M135	SCWI	HPF	M4	+/-10%=+/-10%	-40C/-40F	120	60	1.30	4.20	3.80	455	
	M135	SCWI	HPF	M4	+/-10%=+/-10%	-40C/-40F	208	104	0.75	2.40	2.20	455	
	M135	SCWI	HPF	M4	+/-10%=+/-10%	-40C/-40F	240	120	0.65	2.10	1.90	455	
	M135	RLB	HPF	M6	+/-10%=+/-3%	-40C/-40F	120	65	1.85	4.00	2.40	465	
	M135	RLB	HPF	M6	+/-10%=+/-3%	-40C/-40F	208	113	1.10	2.30	1.40	465	
	M135	RLB	HPF	M6	+/-10%=+/-3%	-40C/-40F	240	130	0.95	2.00	1.20	465	
	M135	RLB	HPF	M6	+/-10%=+/-3%	-40C/-40F	277	150	0.70	1.70	1.25	465	
	M135	RLB	HPF	M6	+/-10%=+/-3%	-40C/-40F	347	185	0.55	1.40	0.90	465	
	M135	RLB	HPF	M6	+/-10%=+/-3%	-40C/-40F	480	250	0.40	1.00	0.70	465	
	450	M144	LLRPSL	HPF	M5	+/-5%=+/-12%	-40C/-40F	277	200	2.25	1.90	2.35	480
		M144	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	120	75	2.70	4.44	2.68	508
		M144	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	208	130	1.56	2.56	1.67	508
M144		SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	240	150	1.35	2.22	1.44	508	
M144		SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	277	170	1.17	1.92	1.25	508	
M144		SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	347	220	1.45	1.60	0.30	505	
M144		SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	480	270	1.00	1.10	0.25	514	
M144		RLB	HPF	M6	+/-10%=+/-3%	-40C/-40F	277	110	0.70	2.00	1.25	530	
750		MXXX	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	120	80	5.80	7.00	6.00	825
		MXXX	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	208	150	3.30	4.00	3.50	825
	MXXX	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	240	160	2.90	3.50	3.10	825	
	MXXX	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	277	185	2.50	3.00	2.70	825	
	MXXX	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	347	230	2.00	2.45	2.20	825	
	MXXX	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	480	320	1.50	2.00	1.50	825	
1000	M47 or H36	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	120	65	5.70	9.20	6.00	1080	
	M47 or H36	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	208	145	3.40	5.30	3.50	1080	
	M47 or H36	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	240	170	2.90	4.60	3.00	1080	
	M47 or H36	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	277	195	2.50	4.00	2.60	1080	
	M47 or H36	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	347	245	1.30	3.20	2.50	1080	
	M47 or H36	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	480	335	1.50	2.30	1.60	1080	
	M47 or H36	CWI	HPF	M3	+/-10%=+/-10%	-30C/-20F	208	125	1.65	5.30	3.25	1080	
	M47 or H36	CWI	HPF	M3	+/-10%=+/-10%	-30C/-20F	240	145	1.30	4.80	3.20	1080	
	M141	SCWA	HPF	M7	+/-10%=+/-10%	-30C/-20F	120	84	7.80	9.20	4.50	1080	
	M141	SCWA	HPF	M7	+/-10%=+/-10%	-30C/-20F	208	146	4.00	5.30	2.70	1080	
	M141	SCWA	HPF	M7	+/-10%=+/-10%	-30C/-20F	240	168	3.70	4.60	2.30	1080	
	M141	SCWA	HPF	M7	+/-10%=+/-10%	-30C/-20F	277	194	3.20	4.00	2.20	1080	
	M141	SCWA	HPF	M7	+/-10%=+/-10%	-30C/-20F	347	230	2.25	3.20	1.75	1075	
	M141	SCWA	HPF	M7	+/-10%=+/-10%	-30C/-20F	480	320	1.65	2.35	1.30	1080	
1500	M48	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	120	80	9.00	14.00	6.60	1610	
	M48	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	208	140	5.20	8.00	3.85	1610	
	M48	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	240	160	4.50	7.00	3.45	1610	
	M48	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	277	185	3.85	6.00	3.05	1610	
	M48	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	347	230	4.60	4.80	1.70	1610	
	M48	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	480	320	2.25	3.50	1.65	1610	

Important Metal Halide Lamp Information

Certain metal halide lamps require the use of a suitably enclosed luminaire and/or must be operated in accordance with specific guidelines that have been established by the lamp manufacturer.

NFPA 70B, "Recommended Practice for Electrical Equipment Maintenance," Section 15-5.2, states, "Metal halide lamps are constructed of an outer bulb with an internal arc tube made of quartz. The arc tube operates under high pressure at very high temperatures – as high as approximately 1,100 degrees Celsius. The arc tube and outer bulb can unexpectedly rupture if the lamp is misapplied. In continuously operating systems (24 hours a day, 7 days a week), lamps should be turned off once per week for at least 15 minutes. Failure to do this increases the risk of rupture."

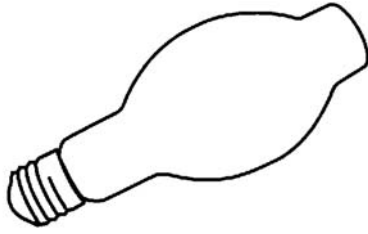
Reference Standards – "American National Standard for Electric Lamps – High Intensity Discharge Lamps, Methods of Designation," ANSI C78.380, Annex B, defines E, S and O type lamps.

Lamps classified as **E type** are to be used only in suitably-rated enclosed luminaires.

Lamps classified as **S type** may be used in open luminaires in certain applications when operated in the specified near vertical position. This category of lamps is limited only to certain lamps in the 350W to 1000W range.

Lamps classified as **O type**, with quartz arc tubes, comply with "American National Standard for Electric Lamps – Metal Halide Lamps, Methods of Measuring Characteristics," ANSI Standard C78.387, for containment testing and may be used in open luminaires.

To determine the appropriate selection of a metal halide lamp, refer to all of the lamp manufacturer's warning and cautionary statements regarding the use of the lamp in your specific application.




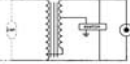
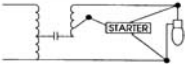
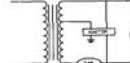
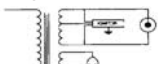
Mercury vapor lamps from 175 watts through 1000 watts will operate satisfactorily on equivalent-wattage probe start metal halide ballasts.

For electrical characteristics of these wattages, see metal halide ballast information.

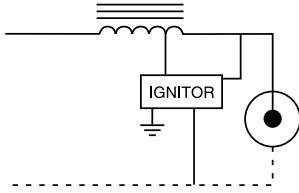
HAZARD WARNING – USE OF MERCURY VAPOR LAMPS

These lamps can cause serious skin burns and eye inflammation from ultraviolet radiation if the outer envelope of the lamp is broken or punctured and the arc-tube continues to operate. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken are commercially available.

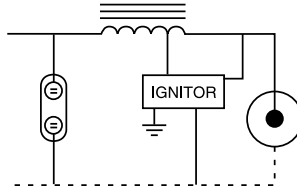
Wattage	Open ANSI Code	Ballast Type	Power Factor	Wiring Diagram	Regulation LineV=LampW	Minimum Starting Ambient	Primary Voltage	Dropout Voltage	Starting Current	Operating Current	Circuit Current	Input Wattage
50	H46	HX	NPF	M1 less cap	+/-5%=+/-12%	-30C/-20F	120	80	2.10	1.50	0.25	74
	H46	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	120/277	60/138	0.60/0.25	0.70/0.30	0.25/0.11	74
75	H43	HX	NPF	M1 less cap	+/-5%=+/-12%	-30C/-20F	120	102	2.60	1.60	0.30	96
	H43	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	120/277	64/145	0.80/0.35	0.90/0.40	0.50/0.22	93
100	H38 or H44	HX	NPF	M1 less cap	+/-5%=+/-12%	-30C/-20F	120	90	3.60	2.10	0.50	125
	H38 or H44	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	120	65	0.68	1.05	0.52	123
	H38 or H44	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	208	110	0.44	0.60	0.36	125
	H38 or H44	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	240	130	0.39	0.52	0.31	125
	H38 or H44	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	277	150	0.34	0.45	0.28	125
	H38 or H44	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	347	180	0.38	0.38	0.22	125
	H38 or H44	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	480	230	0.26	0.26	0.16	120
	H38 or H44	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F						

Ballast Type	Available Input Voltage	Maximum Input Current	Power Factor	Regulation (+/- Input Voltage = +/- Lamp Wattage)	Input Watts Loss	Crest Factor
High Pressure Sodium						
Reactor 	50W, 70W, 100W, and 150W; 120V only	Higher than operating	50% NPF Standard 90% + HPF Optional	+/- 5% = +/- 12%	LOW	1.4 to 1.5
High-Reactance Autotransformer 	50W; 120V or 277V 70W, 100W, and 150W; 120V, 277V, or 347V	Higher than operating	90% + HPF	+/- 5% = +/- 12%	MEDIUM	1.5
Constant Wattage Autotransformer (CWA) 	70W, 100W and 150W; 120V or 277V 200W, 250W, 310W, 400W 600W, 750W, and 1000W; 120V, 277V, or 347V	Operating	90% + HPF	+/- 10% = +/- 10%	MEDIUM to HIGH	1.7 to 1.8
Constant Wattage Isolated (CWI) 	70W, 100W, 150W, 250W, and 400W; 120V, 208V, or 240V	Operating	90% + HPF	+/- 10% = +/- 10%	MEDIUM to HIGH	1.7 to 1.8
Magnetic Regulator (MRB) 	70W; 120V or 240V 100W, 150W, 250W, and 400W; 120V, 240V, 277V or 480V 200W and 310W; 120V, 240V, or 480V	Operating	90% + HPF	+/- 10% = +/- 3%	HIGH	1.7 to 1.8

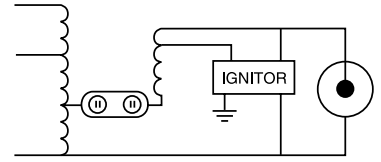
High Pressure Sodium



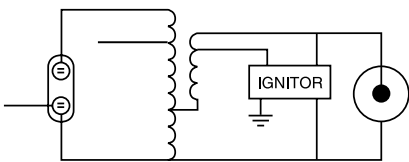
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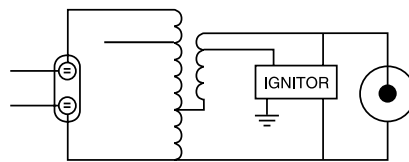
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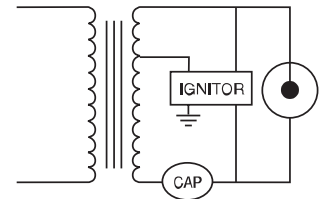
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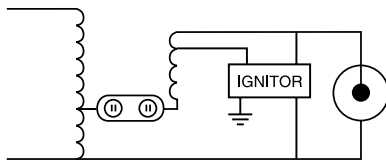
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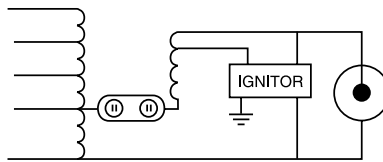
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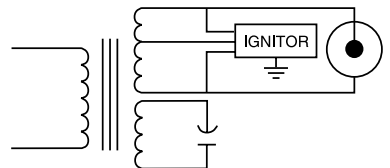
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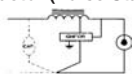
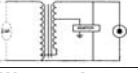
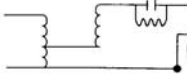
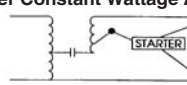
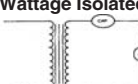
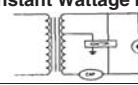
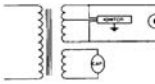
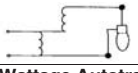
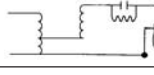
H7



H8



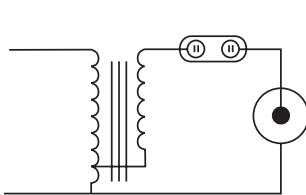
H9

Ballast Type	Available Input Voltage	Maximum Input Current	Power Factor	Regulation (+/- Input Voltage = +/- Lamp Wattage)	Input Watts Loss	Crest Factor
Metal Halide						
Linear Reactor (Pulse Start) 	50W, 70W, 100W, 150W, 200W, 320W, 350W, 400W, AND 450W; 277V only	Higher than operating	90% + HPF	+/- 5% = +/- 12%	LOW	1.4 to 1.5
High-Reactance Autotransformer (Pulse Start) 	50W; 120V or 277V 70W, 100W, and 150W; 120V, 277V, or 347V	Higher than operating	90% + HPF	+/- 5% = +/- 12%	MEDIUM	1.5
Constant Wattage Autotransformer (CWA) 	175W, 250W, 400W, and 1000W; 120V, 277V, or 347V	Operating	90% + HPF	+/- 10% = +/- 10%	MEDIUM to HIGH	1.7 to 1.8
Super Constant Wattage Autotransformer (SCWA) (Pulse Start) 	100W; 120V or 277V 150W; 120V, 277V or 347V 175W; 120V, or 347V 200W, 250W, 320W, 350W, 400W and 450W; 120V, 277V, or 347V	Operating	90% + HPF	+/- 10% = +/- 10%	MEDIUM to HIGH	1.6
Constant Wattage Isolated (CWI) 	250W; 120V, 208V, or 240V 400W; 120V, 208V, 240V, 277V or 347VV 1000W; 208V or 240V	Operating	90% + HPF	+/- 10% = +/- 10%	MEDIUM to HIGH	1.7 to 1.8
Super Constant Wattage Isolated (SCWI) (Pulse Start) 	400W; 120V, 208V, or 240V	Operating	90% + HPF	+/- 10% = +/- 10%	MEDIUM to HIGH	1.6
Regulated Lag (RLB) (Pulse Start) 	175W; 120V, 277V, 347V, or 480V 200W and 450W; 277V only 250W and 400W; 120V, 240V, 277V, 347V, or 480V	Operating	90% + HPF	+/- 10% = +/- 3%	HIGH	1.6
Mercury Vapor						
High-Reactance Autotransformer 	50W, 75W, 100W, 175W, 250W; 120V only	Higher than operating	50% NPF Standard	+/- 5% = +/- 12%	MEDIUM	1.5
Constant Wattage Autotransformer (CWA) 	50W, 75W and 1000W; 120V, or 277V 100W, 175W, 250W, and 400W; 120V, 277V, or 347V	Operating	90% + HPF	+/- 10% = +/- 5%	MEDIUM to HIGH	1.7 to 1.8

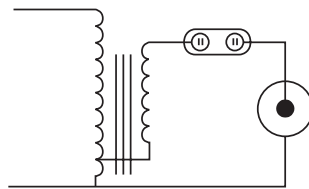
NOTE: Ungrounded power distribution systems may carry transient line voltages under fault conditions. Because high transients can cause premature ballast and lamp failures, it is not recommended that luminaires be operated on any 480V or other ungrounded systems.

The ballast serves four basic functions: 1) Transforms the line voltage to the required lamp operating voltage; 2) Limits the lamp operating current; 3) Provides the open-circuit starting voltage characteristics required to start the lamp; and 4) Regulates the lamp wattage for a variation in power supply input voltage.

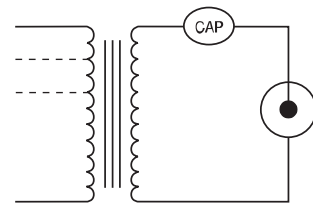
Metal Halide/Mercury Vapor



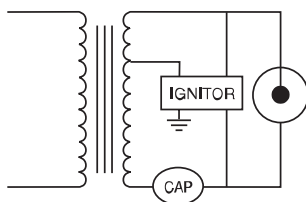
M1



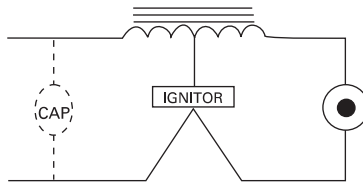
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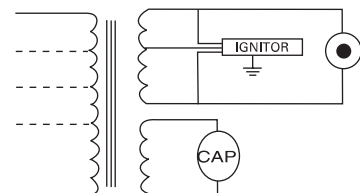
M3



M4



M5



M6

Note:
For M7 Super CWA Pulse Start Circuit Diagram, see H7 HPS
Circuit Diagram

1. H.I.D. Open-Circuit and Short-Circuit Test Limits

	Lamp		RMS Voltage	Secondary short circuit current Amps
	Wattage	ANSI Number		
Mercury ballasts	50	H46	225-255	0.85-1.15
	75	H43	225-255	0.95-1.70
	100	H38	225-255	1.10-2.00
	175	H39	225-255	2.00-3.60
	250	H37	225-255	3.00-3.80
	400	H33	225-255	4.40-7.90
	2-400 (ILO)	2-H33	225-255	4.40-7.90
	2-400 (Series)	2-H33	475-525	4.20-5.40
	700	H35	405-455	3.90-5.85
	1000	H36	405-455	5.70-9.00
Metal halide ballasts	70	M85	210-250	0.85-1.30
	100	M90	250-300	1.15-1.76
	150	M81	220-260	1.75-2.60
	175	M57	285-320	1.50-1.90
	250	M80	230-270	2.90-4.30
	250	M58	285-320	2.20-2.85
	400	M59	285-320	3.50-4.50
	2-400 (ILO)	2-M59	285-320	3.50-4.50
	2-400 (Series)	2-M59	600-665	3.30-4.30
	1500	M47	400-445	4.80-6.15
	M48	400-445	7.40-9.60	
High pressure sodium ballasts*	35	S76	110-130	0.85-1.45
	50	S68	110-130	1.50-2.30
	70	S62	110-130	1.60-2.90
	100	S54	110-130	2.45-3.80
	150	S55	110-130	3.50-5.40
	150	S56	200-250	2.00-3.00
	200	S66	200-230	2.50-3.70
	250	S50	175-225	3.00-5.30
	310	S67	155-190	3.80-5.70
	400	S51	175-225	5.00-7.60
1000	S52	420-480	5.50-8.10	
Low pressure sodium ballasts	18	L69	300-325	0.30-0.40
	35	L70	455-505	0.52-0.78
	55	L71	455-505	0.52-0.78
	90	L72	455-525	0.80-1.20
	135	L73	645-715	0.80-1.20
	180	L74	645-715	0.80-1.20

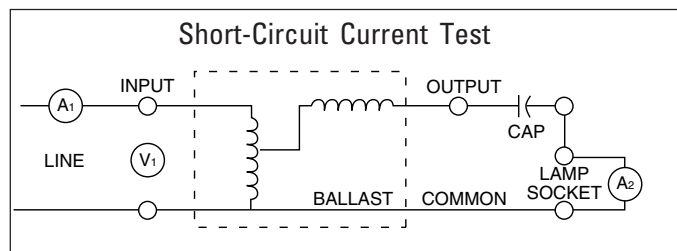
* CAUTION: Always disconnect the ignitor before measuring the output voltage of high pressure sodium ballasts. High voltage starting pulses can damage commonly used multi-meters.

2. H.I.D. Short-Circuit Lamp Current

To ensure the ballast is delivering the proper current under lamp starting conditions, a measurement may be taken by connecting an ammeter between the lamp socket center pin and the socket shell with rated input voltage applied to the ballast. If available, a socket adapter may be used.

1. Energize ballast with proper rated input voltage.
2. Measure current with ammeter at A₁ and A₂ as shown below.
3. Readings must be within test limits shown above.

When using a clamp-on ammeter for this measurement, be certain the meter is not near the magnetic field of the ballast or any steel member which might distort the magnetic field.



When short-circuit lamp current test results in high, low or no reading:

Further checks should be made to determine whether cause is attributable to improper supply voltage, shorted or open capacitor or inoperative ballast. Checks may be made as follows:

- **Supply Voltage Check**

Measure line voltage. If ballast is multi-voltage unit make certain input voltage connection is made to proper input voltage terminal or lead.

- **Capacitor Check**

Verify capacitor rating is as required and shown on ballast label.

- **Ballast Check**

Perform open-circuit voltage test to ensure operation within the RMS range shown in the table to the left.

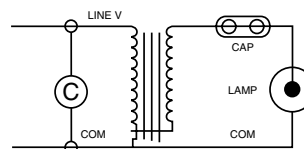
3. H.I.D. Ballast Continuity Testing

Continuity of Primary Coil

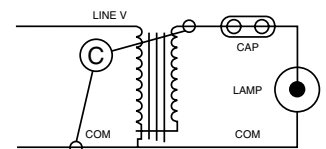
1. Disconnect ballast from power supply and discharge the capacitor.
2. Check for continuity of ballast primary coil between input leads.

Continuity of Secondary Coil

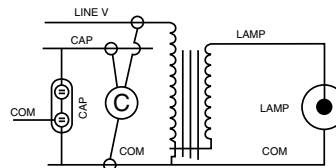
1. Disconnect ballast from power supply and discharge the capacitor.
2. Check for continuity of ballast secondary coil between lamp and common leads.



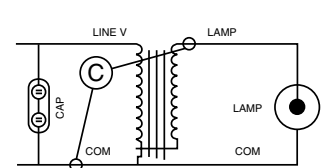
Between Common and Line Leads.



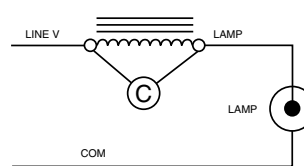
Between Common and Capacitor Leads.



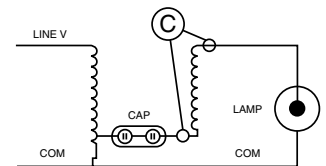
Between Line and Lamp Leads.



Between Common and Lamp Leads.



Between Common and Capacitor Leads.



Between Common and Lamp Leads.

NOTE: Information compiled by Advance Transformer Co. and reprinted with permission.

TECHNICAL AND DESIGN CONSIDERATIONS

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Definitions

Luminaire – A complete lighting unit consisting of lamp or lamps, the parts designed to distribute the light (fixture housing) and any necessary starting components (ballasts).

Photometrics – A photometric test measures the quantity and direction of light emitted from a luminaire. Photometrics refers to the measured values.

Luminous Intensity – Measured in a photometric test to describe the intensity of light in a particular direction. Measured in *candelas*.

Luminous Flux – The flow of light from a lamp or luminaire. Measured in *lumens*.

Illuminance – The flow of light onto a surface. Expressed in *footcandles* (English units) or *lux* (metric units).

Luminous Efficacy – Quantifies lumens produced per unit of power (watts) consumed. Can be used to evaluate the energy efficiency of a lamp or a luminaire. Measured in *lumens per watt*.

Luminaire Efficacy Rating (LER) – A metric used to describe the energy efficiency of lighting products. This value, listed on many product specification sheets, consists of a prefix indicating the product category and a number indicating lumens per watt or LER.

Luminous Efficiency – Total lumen output of a luminaire expressed as a percent of rated bare-lamp lumens (as determined by photometric tests). Luminous efficiency quantifies only the amount of light emitted from a luminaire. It does not describe the quality of the light from the luminaire.

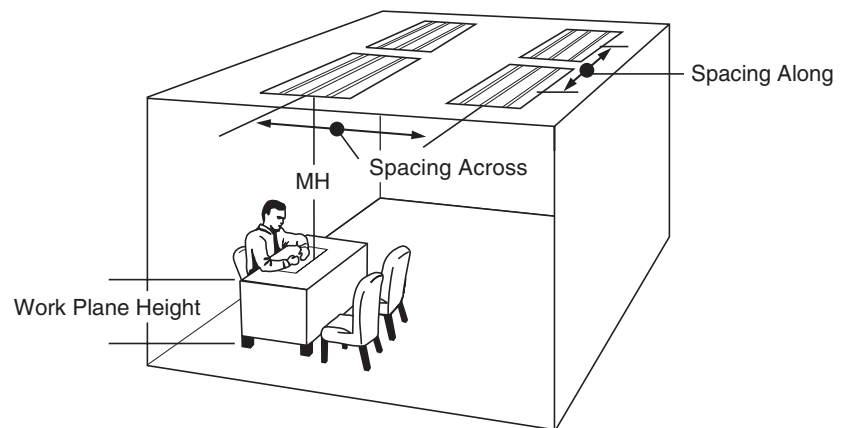
Work Plane – A horizontal surface where visual tasks are performed. The work plane is typically *ground level* for outdoor applications and *2.5 feet* for office applications (corresponding with desk height). In some cases, a work plane may be vertical, such as a library stack or warehouse rack.

Coefficient of Utilization (CU) – The percent of rated bare-lamp lumens that exit the fixture and reach the work plane. The CU accounts for light directly from the luminaire as well as light reflected off the room surfaces. The CU value is used in lighting calculations to estimate light levels or the quantity of luminaires needed. The CU is determined from a photometric test and is typically published on product catalog sheets in a tabular form.

Spacing to Mounting Height Ratio (S/MH) – A value, calculated from photometric data, that is used to estimate how far apart luminaires mounted in a row can be spaced to maintain uniform illuminance on the work plane. The spacing criterion value is multiplied by the luminaire mounting height above the work plane to estimate an acceptable spacing. For luminaires mounted in a rectangular array, the spacing criterion provides a better indication of the spacing required to achieve uniform illuminance.

Spacing Criterion (SC)

A value, calculated from photometric data, that is used to estimate how far apart luminaires can be spaced to maintain uniform illuminance on the work plane. The spacing criterion value is multiplied by the luminaire mounting height above the work plane to estimate an acceptable center-to-center luminaire spacing.

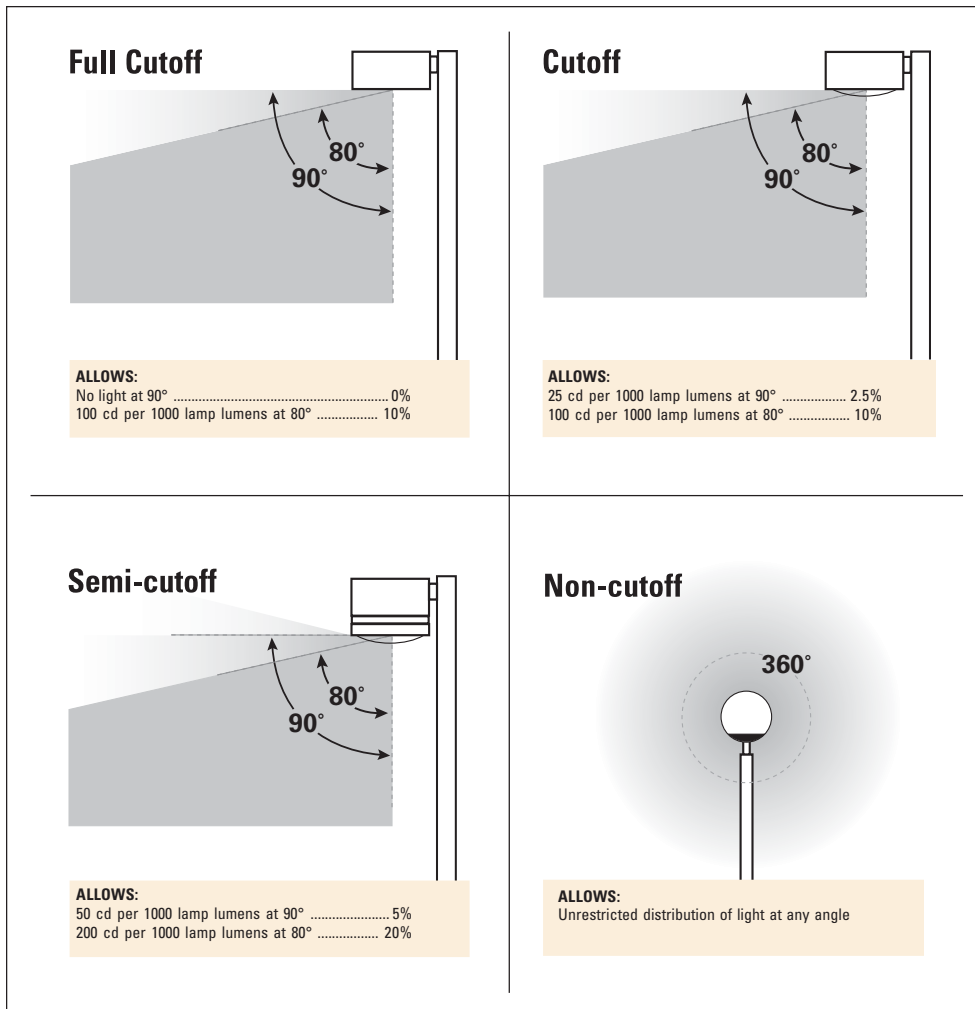


$$\text{Luminaire Spacing} = \text{Spacing Criterion} \times \text{mounting height above work plane (MH)}$$

LUMINAIRE CLASSIFICATIONS FOR CONTROLLING GLARE

The Illuminating Engineering Society of North America (IESNA, or IES) provides classifications for luminaires according to their glare control and high-angle brightness. These classifications include: Full Cutoff, Cutoff, Semi-cutoff and Non-cutoff.

Classification	Definition	Benefits	Limitations
Full Cutoff	Zero intensity at or above horizontal (90° above nadir) and limited to a value not exceeding 10% of lamp lumens at 80° above nadir. Often referred to as “fully shielded.”	Limits spill light onto adjacent property, reduces glare. No light is emitted directly from the luminaire into the sky.	May reduce pole spacing to maintain uniformity and increase pole and luminaire quantities.
Cutoff	Intensity at 90° (horizontal) no more than 2.5% of lamp lumens, and no more than 10% of lamp lumens at 80°.	Small increase in high angle light allows increased pole spacing.	May allow some uplight from luminaire. Small overall impact on sky glow.
Semi-Cutoff	Intensity at 90° (horizontal) no more than 5% of lamp lumens and no more than 20% at 80°.	High angle light accents taller vertical surfaces such as buildings. Most light is still directed downward.	Little control of light at property line. Potential for increased glare when using high wattage luminaires. Typically directs more light into the sky than cutoff.
Non-Cutoff	No limitations on light distribution at or above 90°.	Uniform luminous surfaces such as internally illuminated signs or globes. Wattage should be limited. Suitable for sportslighting or other applications where luminaires are tilted due to limitations in pole locations.	Location and aiming are critical. Most likely of all categories to produce offensive brightness and sky glow.



Acuity Brands Lighting Group is a leader in providing energy-effective lighting solutions and we are actively involved in programs focused on preserving natural resources. Effective lighting provides the right amount of light, at the right place, at the right time. Information available at the **Energy Information Center**, www.lithonia.com/energy, can help you locate energy and environmental information, identify energy-effective lighting products and access information about sustainable design.

Energy Codes



One of the most referenced energy standards for lighting is the ASHRAE / IESNA standard 90.1. This standard is an application standard with criteria for maximum allowed power density defined for specific applications, and includes requirements for switching and controls. U.S. states are expected to adopt a state energy standard at least as stringent as the 1999 version of ASHRAE / IESNA Standard 90.1 by 2004. To obtain a copy of the lighting portion of the 90.1 standard, contact the Illuminating engineering Society (www.iesna.org).

Regional Energy Codes

Various states, provinces and municipalities have developed regional energy codes to design building codes customized for the needs of their specific region. For instance, California utilizes Title 24 as their building standard to address the demanding energy conservation requirements for their state. Information on various state energy management programs and regional codes can be referenced at the Energy Information Center.

Energy Programs



Energy Star – promotes energy-efficient products through a labeling program. Products that meet the Energy Star performance attributes are approved to use the Energy Star logo. For lighting, the Energy Star program includes exit signs and residential light fixtures.

Rebuild America – a program managed by the U.S. Department of Energy that provides assistance to municipalities interested in upgrading the energy efficiency of their facilities. Acuity Brands Lighting Group is an active business partner with the Rebuild America program, helping to identify lighting solutions that increase visual quality and energy effectiveness.

Sustainable Design

US Green Building Council – LEED



Acuity Brands Lighting Group is a corporate member of the US Green Building Council – USGBC. The USGBC is a leading organization in developing certification criteria for building construction meeting specific levels of sustainable attributes. The Leadership in Energy Efficient Design (LEED) certification program defines specific attributes for building design to comply with sustainable design strategies. For lighting, these strategies include lighting designs that surpass the ASHRAE / IESNA Standard 90.1 power density requirements, incorporation of daylighting, utilization of full cutoff site lighting, incorporation of control systems, using products made from recycled content or that are recyclable, and minimizing waste on the construction site. A wide array of products are available from the Acuity Brands Lighting Group to help support construction focused on meeting LEED certification.

Luminaire Efficacy Rating (LER)

The Energy Policy Act of 1992 requires that the lighting industry develop a rating for luminaires that allows designers to compare the energy efficiency of lighting products.

Luminaire Efficacy Rating (LER) has been developed by the National Manufacturer's Association (NEMA) and approved by the National Lighting Collaborative to fulfill the requirements for the Energy Policy Act.

The Collaborative represents a broad spectrum of industry professionals including manufacturers, industry associations, government, designers and energy conservation groups.

This rating has already begun to be incorporated on Lithonia specification sheets and catalog information. NEMA document LE5 describes the calculation of LER as:

$$\text{LER} = \frac{\text{EFF} \times \text{TLL} \times \text{BF}}{\text{Input Watts}}$$

Lith
where

- EFF = luminaire efficiency
- TLL = # lamps per luminaire X rated lumens per lamp
- BF = ballast factor
- Input Watts = total system watts of the luminaire

This results in a lumens-per-watt rating that can be used to compare the energy efficiency of various products.

The initial implementation of rating luminaires covers categories of common fluorescent 4' and 8' luminaires, downlights and H.I.D. industrial luminaires. In addition to the LER value, a prefix indicating the type of source and general category of luminaire (such as FL for Fluorescent Lensed, FP for Fluorescent Parabolic or HO for H.I.D. Open Industrial) ensures that comparisons can be made among similar products.

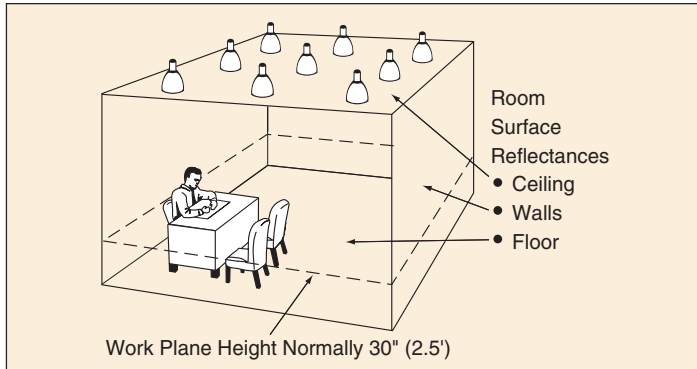
As part of the Lithonia Lighting commitment to quality, our laboratory has been accredited by the National Voluntary Laboratory Accreditation Program (NVLAP), administered by the National Institute of Standards and Technology (NIST).

The Lithonia Lighting photometric laboratory is NVLAP-accredited for the scope of accreditation under NVLAP Lab Code 200007-0. NVLAP accreditation is based on an assessment of a laboratory's quality system, technical qualifications and competence to perform tests in accordance with specific test methods.

Our accreditation is under the NVLAP Energy Efficient Lighting Products Program. For a complete listing of the scope of accreditation, go to the website: ts.nist.gov/ts/htdocs/210/214/scopes/2000070.htm

Well-balanced illumination is the signature of quality lighting design. Whether lighting for visual task performance or for aesthetic appeal, calculations are the mechanism through which quality design is achieved. The following methods are instrumental in designing and evaluating potential systems.

The Lumen Method



The lumen method is used when an average horizontal illuminance level is desired. It is based on the fundamental equation for illuminance, or

$$\text{Illuminance} = \frac{\text{Luminous flux in lumens}}{\text{Area}}$$

The general lumen method equation, also known as the zonal cavity method, is:

$$E_{\text{ave}} = \frac{(\# \text{Luminaires}) (\# \text{Lamps}) (\# \text{Lumens}) (\text{CU}) (\text{LLF})}{\text{Room Length} \times \text{Room Width}}$$

Average horizontal work plane illuminance (fc or lux)

An alternate form via algebraic manipulation is:

$$\# \text{ of Luminaires Required} = \frac{(E_{\text{ave}} \text{ desired}) (L) (W)}{(\# \text{Lamps}) (\# \text{Lumens}) (\text{CU}) (\text{LLF})}$$

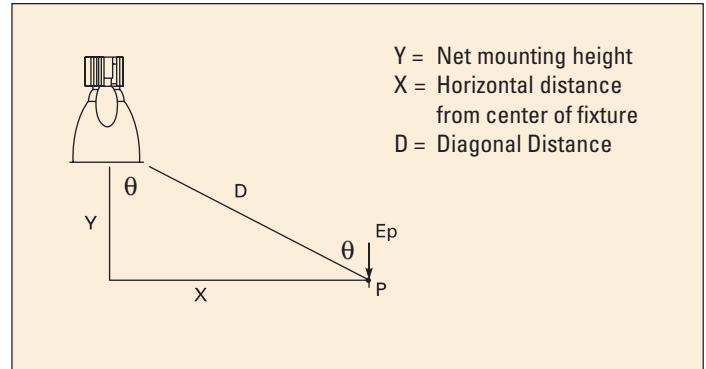
The *coefficient of utilization* is based on the photometric distribution of the luminaire and the geometry and surface reflectances of the space. It is typically less than 1.0 and represents the percentage of the total lamp lumens that ultimately reach the horizontal work plane (see figure above). Pre-calculated values can be found on the appropriate product's specification sheet.

The *light loss factor* accounts for decreased light output over time. It addresses variations from test conditions, equipment operating characteristics, depreciating lamp lumen output, dirt buildup, material degradation and ballast factor.

This calculation method is valid for an empty rectangular room geometry, a uniform layout of lighting equipment and uniform luminance on room surfaces.

The Visual® Lumen Method Tool is lighting design software that provides step-by-step guidance through the Lumen Method calculation, as described in the IESNA handbook. It is included with both the Visual Basic and Professional Editions, and is available from Acuity Brands Lighting Group at www.visualightingsoftware.com.

The Point Method



The point method is used to determine the specific illuminance at a point in space. These calculations are invaluable for analyzing the variations in illuminance over a region. Based on spatial geometry, the point method equation, also known as the inverse square and cosine laws, is:

$$E_p = \frac{I_p}{D^2} \text{ Cosine } \theta$$

Horizontal illuminance at point P

Luminous intensity in the direction of point P

Distance from source to point P

The *luminous intensity* is found in a luminaire's photometric report, and the distance is computed using a standard geometric formula. Referring to the figure above, the formula for the diagonal distance D is:

$$D = \sqrt{X^2 + Y^2}$$

Because light is additive, the total direct point illuminance is simply the sum of the individual contributions from each luminaire or source.

The point method as presented here does not account for light that is reflected from room surfaces.

While point illuminance can be calculated using the inverse square cosine law, this method does not account for light that is reflected from room surfaces or shadows from obstructions. Visual® software from Acuity Brands Lighting Group is a collection of lighting calculation tools and powerful 3D modeling software engineered to simplify the design process and provide a comprehensive analysis for advanced lighting projects. The Visual Professional Edition is a comprehensive lighting analysis tool designed for demanding interior and exterior applications. The Professional Edition combines an intuitive user interface with the latest advances in radiosity theory to provide efficient and highly accurate analysis of complex modeling environment, resulting in an intuitive and powerful design experience. A trial edition of Visual software can be obtained from www.visualightingsoftware.com.

Most lighting installations provide reliable service for many years with no maintenance except for routine cleaning and lamp replacement. If a malfunction does occur, use the information below to diagnose and correct the problem. *Disconnect the power before servicing any lighting system.* Do not perform service while the fixture is engaged. Contact the Lithonia Customer Service Department if you need further assistance.

The following is a list of common malfunctions, possible causes and appropriate corrective action.

Lamp Will Not Start

Incorrect lamp or ballast – Check fixture label against lamp type. Check lamp and ballast ANSI numbers to ensure they match. Check that lamp is in proper burning position (Metal Halide).

Lamp is improperly seated in socket – Back out lamp and retighten. Check pin connection with socket. H.I.D.: Check to see if center contact of socket is compressed. If so, disconnect fixture from power supply and bend contact into position with a screwdriver.

Incorrect or loose wiring – Disconnect from power. Check wiring connections. H.I.D.: Connect fixture lead marked with proper voltage to voltage supply lead. 120V, 277V and 347V: Connect lead marked COM to neutral supply. 208V, 240V and 480V: Connect lead marked COM to other voltage supply lead.

Lamp at or near end of life – Replace with new lamp. H.I.D. arc tubes will blacken near end of life. Mercury and metal halide lamps will produce low light output and may exhibit intermittent starting. Metal halide will suffer severe color changes. High pressure sodium lamps will exhibit normal starting but will turn on and off (cycle) during operation. The envelope of a high pressure sodium lamp may develop a brownish discoloration. Low pressure sodium lamps will operate at nearly full light output but starting will become impossible at end of life.

Photoelectric control defective – Disconnect button type cell from circuit or replace NEMA twist-lock cell with shorting cap, test fixture. If lamp starts, replace PE control.

Line or ballast output voltage low – Check line voltage at the fixture. Check open circuit voltage. See page 603 for H.I.D. ballasts.

Ballast burned out – Check circuit continuity. See page 592 for fluorescent ballasts. See page 603 for H.I.D. ballasts.

Starter circuit failure – Replace lamp with known good lamp. If lamp fails to start, replace starter.

Improper ambient temperature – Check ballast or fixture rating against existing environmental conditions. Fluorescent lamps experience starting problems when the ambient temperature is below 50°F. Mercury and metal halide will start above -20°F and high pressure sodium above -40°F.

Incorrect or loose wiring – Disconnect from power. Check wiring connections.

Slow or Erratic Starting

Lamp at or near end of life – Replace with new lamp. H.I.D. arc tubes will blacken near end of life. Mercury and metal halide lamps will produce low light output and may exhibit intermittent starting. Metal halide will suffer severe color changes. High pressure sodium lamps will exhibit normal starting but will turn on and off (cycle) during operation. The envelope of a high pressure sodium lamp may develop a brownish discoloration. Low pressure sodium lamps will operate at nearly full light output but starting will become impossible at end of life.

Line or ballast output voltage low – Check line voltage at the fixture. Check open circuit voltage. See page 603 for H.I.D. ballasts.

Line voltage varies – Check incoming voltage with recording voltmeter (if this is the problem, check other equipment on the same circuit).

Incorrect lamp or burning position – Check fixture label against lamp type. Check lamp and ballast ANSI numbers to ensure they match. Check for proper lamp operating position (metal halide).

Improper ambient temperature – Check ballast or fixture rating against existing environmental conditions. Fluorescent lamps experience starting problems when ambient temperature is below 50°F. Mercury and metal halide will start above -20°F and high pressure sodium above -40°F.

Hard-starting lamp – Replace with new lamp if delay is lengthy.

Incorrect or loose wiring – Disconnect from power. Check wiring connections.

Ballast near or at end of life – Test ballast. See page 592 for fluorescent ballasts.

Blinking, “Snaking” or Flickering (Fluorescent)

New lamp may need to be seasoned – Turn fixture on and off several times at 30-minute intervals.

Ambient temperature too low – If ambient temperature is below 50°F, change to ballast rated for conditions.

Significant air movement across lamps – Check for fans or air conditioning blowing across lamps.

Incorrect or loose wiring – Disconnect from power. Check wiring connections.

Line voltage varies – Check voltage supply. See page 592 for fluorescent ballasts.

Cycling (Lamp Turns On and Off)

Line voltage varies – Check voltage supply.

Faulty insulation detector (recessed fixtures) – Bypass to verify or move insulation if in contact. Insulation must be kept at least 3" from the side and 1/2" from the top of the fixture.

High Intensity Discharge:

Lamp at end of life or defective HPS lamp – Replace with new lamp.

PE control receives reflected light – Cover PE control and test fixture.

Incorrect lamp or ballast – Compare fixture and lamp labels for matching wattage and source. Compare fixture and system voltage rating.

Ballast output voltage low – Check line voltage at fixture. Check open circuit voltage. See page 603 for H.I.D. ballasts.

Incorrect lamp operating position (metal halide) – Check lamp specifications for proper operating position.

Fluorescent:

Incorrect or loose wiring – Disconnect from power. Check wiring connections.

Ballast is operating too hot – Check for high ambient temperatures, ventilate or suspend fixture.

Ballast near or at end of life – Test ballast. See page 592 for fluorescent ballasts.

Reduced Light Output

Improper ambient temperature – Fluorescent: Check for ambient temperature significantly above or below 77°F.

Air movement across lamps – Fluorescent: Check for fans or air conditioning blowing across lamps.

Lamp at or near end of life – Replace with new lamp. H.I.D. arc tubes will blacken near end of life. Mercury and metal halide lamps will produce low light output and may exhibit intermittent starting. Metal halide will suffer severe color changes. High pressure sodium lamps will exhibit normal starting, but will turn on and off (cycle) during operation. The envelope of a high pressure sodium lamp may develop a brownish discoloration. Low pressure sodium lamps will operate at nearly full light output but starting will become impossible at end of life.

Incorrect or loose wiring – Disconnect from power. Check wiring connections.

Ballast near or at end of life – Test ballast. See page 592 for fluorescent ballasts. See page 603 for H.I.D. ballasts.

Short Lamp Life

Incorrect lamp or ballast – Compare fixture label against lamp type. Check lamp and ballast ANSI numbers to ensure they match. Check that lamp is in proper burning position.

Line voltage or ballast output voltage low – Check line voltage at fixture. Check open circuit voltage. See page 603 for H.I.D. ballasts.

Lamp operates less than 10 hours per start – Rated lamp life is based on 10 hours of operation per start. General rule for expected lamp life is: 50% reduction in burn time per start results in 25% reduction in lamp life.

Faulty lamp – Replace with new lamp.

Radio Interference (Fluorescent)

Interference from electronic equipment – Move electronic equipment at least 10 feet away from lamps. Install radio frequency shielding. Install radio interference filter. Improve equipment grounding. Install shielded and grounded radio antenna.

Blown Fuses or Tripped Circuit Breaker (H.I.D.)

Improper fuses installed in fixture – Check fuses to fixture manufacturer's specification. Replace if incorrect.

Overloaded circuit – Verify that total circuit load is less than circuit rating.

Shorted (grounded) fixtures – Check with shorted (grounded) test. If shorted, replace fixture. See page 603 for H.I.D. ballasts.

The IEC (International Electrotechnical Commission) uses the term “International Protection” or IP to define the environmental protection of an enclosure. This is described in IEC Standard 529. The

IP rating system designates, by means of a two-digit number, the degree of protection against ingress of dust and moisture. The first digit defines the level of protection against solid objects, while the sec-

ond digit defines the level of protection against moisture. The higher the digit, the greater is the level of protection.

First Digit Degree of protection against solid objects	Second Digit Degree of protection against water
0 Non-protected	0 Non-protected
1 Protected against a solid object greater than 50mm such as a hand	1 Protected against water dripping vertically
2 Protected against a solid object greater than 12mm such as a finger	2 Protected against dripping water when incident up to 15° from vertical
3 Protected against a solid object greater than 2.5mm such as a wire or a tool	3 Protected against water spraying at an angle of up to 60°
4 Protected against a solid object greater than 1.0mm such as a wire or thin strip	4 Protected against water splashing from any direction
5 Dust-protected. Prevents ingress of dust sufficient to cause harm	5 Protected against jets of water from any direction
6 Dust-tight. No dust ingress jets of water. Prevents ingress sufficient	6 Protected against heavy seas or powerful jets in harmful quantities
	7 Protected against harmful ingress of water when immersed between a depth of 150mm and 1 meter
	8 Protected against submersion. Suitable for continuous immersion in water

Protection Against Moisture

UL and CSA define several levels of protection against moisture damage to a luminaire. These definitions describe the space in which the luminaire is intended to operate without damage to the electrical or mechanical components from the environment. These definitions cover pure water protection only, not damage protection from acidic or alkaline conditions.

Dry Location – A location not normally subject to dampness, but may include a location subject to

temporary dampness as in the case of a building under construction, provided that ventilation is adequate to prevent an accumulation of moisture.

Damp Location – An exterior or interior location that is normally or periodically subject to condensation of moisture in, on, or adjacent to electrical equipment, and includes partially protected locations.

Wet Location – A location in which water may drip, splash, or flow on or against electrical equipment.

A wet location fixture is constructed so that water cannot enter or accumulate in the wireway, lampholders or other electrical parts. Wet location does not mean *hosedown*. A rating for low-pressure (100psi) or high-pressure (200psi) hosedown is an additional option.

Hazardous Areas

Hazardous areas are locations where atmospheres may be exposed to the release of flammable dusts, vapors, or gases in explosive concentrations. The National Electrical Code requires that these areas be classified and sets rules for the types of luminaires that may be installed in them. Luminaires are typed in Article 500 of the NEC as Class I, Class II, and Class III locations. All electrical equipment must be tested and listed (or approved)

by class, division and group for use in each respective area. The hazardous materials defined in each of these classifications are; Class I; Flammable gases or vapors, Class II; Combustible dust, and Class III; Combustible fibers or flyings. Each class is subdivided into two divisions depending on the likelihood that the hazard will be present. Division 1 applies to an area where the hazardous condition would normally exist, while Division 2 applies to an

area where there is a potential for the hazardous condition to exist.

Each classification is also subdivided by groups representing the types of gas, or dust that will or might be present. Gases fall into Groups A, B, C, or D. Dusts fall into Groups E, F or G. There is no group subdivision for fibers or flyings.

Environmental Constraints

Lighting equipment must be chosen from the listing for the class, group, and division of the hazardous material present in the areas where they are to be

used. Improper application of a luminaire can result in fire or explosion, which could cause serious injury or death to the occupants. Classification of

these areas within a plant must be made prior to selection of the light source and luminaire type.

Class	Division	Group
I Gas	1. Area where gases or vapors are normally present 2. Area where gases or vapors are handled or stored but are normally confined	A. Acetylene B. Hydrogen C. Ethyl ether etc. D. Gasoline, natural gas etc.
II Dust	1. Area where combustible dust is always present 2. Area where combustible dust may be present	E. Metal dust F. Carbon black, coal dust etc. G. Flour or grain
III Fibers	1. Production areas 2. Handling or storage areas	Atmospheres containing wood, textile or synthetic fibers

Food Processing

Sanitation is a critical part of the food processing industry. Because of this, a thorough cleaning and sanitizing program must be incorporated into the food production process. High-pressure washdown with hot water and/or sanitation chemicals may approach 1000-psi nozzle pressure. Lighting fixtures must be designed and manufactured so as not to leak, corrode, harbor bacteria, or cause fires or electrical problems. Lamps must be protected so that if they break, glass or other materials shall not contaminate the food production area.

The National Sanitation Foundation (NSF) is a not-for-profit, independent, third party certifier of

products and systems for conformity with consensus and official regulations and specifications, industry standards, and product specific test protocols. NSF requires that all materials, which could come in contact with food products, meet the stringent requirements of the Federal Food, Drug, and Cosmetic Act (FDA). In order to determine its suitability for use in food processing and food handling areas, the equipment and the manufacturer must pass a stringent series of tests. NSF performs all tests in their own laboratories.

Lighting equipment falls under the NSF C-2 listing procedure (Special Equipment and/or devices). The C-2 procedure has protocols that analyze

the physical design of, the specific properties of each substance used in the manufacture of, and the fabrication of the fixture. In addition, NSF investigates the reliability of the manufacturer and the manufacturing process as it relates to the listed product.

There are three certifiable locations for equipment used in food processing.: Non-food Zone, Splash Zone and Food Zone. Only the first two are applicable to lighting fixtures. These zones are defined in the following NSF Table:

NSF Certification	Description Of Location/Use and Commentary	Typical Lighting Applications
Non-Food Zone	Areas where direct contact with food products during normal operations would not be expected. Equipment is located outside the normal washdown area. There is a concern that the fixture will add contamination to the protected space or food product (i.e. Cleanability - will the finish withstand cleaning, chipping paint, deteriorating paints or finishes, lens impact resistance, lamp glass breakage, etc.)	Kitchens; food storage; dry process areas; damp process areas - no drip possibility.
Splash Zone	Areas where direct contact with food products during normal operations would not be expected; however, the fixture may be situated such that liquids used in the processing or cleaning procedures, may splash, spill, or otherwise soil - either intentionally or inadvertently - the surface of the fixture. There then is the potential for dripping or draining onto other surfaces or even the process. Since these fixtures are often used in washdown areas, a Wet-Location listing is not sufficient. Fixtures must be tested to withstand high-pressure hose washdown. The concerns of Non-Food Zone also apply.	Wet or damp process areas; high pressure purging or decontamination used in the process; area using hose washdown
Food Zone	Areas where direct contact with food products is normally expected and surfaces from which the food may drip, drain, or splash back onto surfaces normally in contact with food. Equipment other than lighting fixtures typically require this certification (i.e. work tables, cutting boards, other direct contact equipment).	Category not typically used for lighting

A cleanroom is a room in which the concentration of airborne particles is controlled to specified limits. These particles can be in the form of dust, spores, vapors, skin flakes, hair fragments etc. If present in a sensitive environment, they can destroy or severely alter products being manufactured. To keep contamination to a minimum, a cleanroom must be designed and constructed according to very strict guidelines, and the lighting fixtures selected need to maintain the integrity of the space.

Cleanrooms are classified according to the number and size of particles found in a given cubic measure of space. Particle limits are set forth by Federal Standard 209E and, more recently, by ISO standards 14644-1 and 14644-2. Because these ISO

standards are international in scope and are directly impacted by ISO 9000 and ISO 14000 certification criteria, they are often accepted as replacing Federal Standard 209E classes. Both of these standards refer to the maximum allowable number of particles of a given diameter per cubic area of measure, but differ in describing both the size particle and the area of concentration. Also different under each system are procedures for testing and measuring these environments, both initially and for ongoing conformance.

In order to achieve a Class 1 or Class 10 (Federal Standard 209E) or ISO Class 3 or Class 4 level, laminar airflow design is incorporated into the cleanroom. Laminar airflow moves all air in a vertical or a horizontal pattern through the space. With

vertical airflow, the entire ceiling system consists of high-efficiency particulate air (HEPA) filters or ultra-low penetration air (ULPA) filters, which screen out 99.995% and 99.999% of the particles respectively. All incoming purified air moves in a vertical pattern through the ceiling, down to a raised, ducted floor, and back up through the outer walls. With horizontal laminar flow, the same principal is used with a horizontal pattern and filtered walls.

As the process in the cleanroom becomes less critical, greater quantities of particles may be present in the air without causing problems in the manufacturing process. Thus, the class of the cleanroom may be higher. Federal Standard 209E will determine the class of cleanroom required for the activity to be performed.

Federal Standard 209E

Cleanroom Class		Particle Size									
		.1 microns		.2 microns		.3 microns		.5 microns		5.0 microns	
		Airborne Particle Limits									
English	SI	(ft)	(m)	(ft)	(m)	(ft)	(m)	(ft)	(m)	(ft)	(m)
1	M1.5	35	1,240	7.5	265	3	106	1	35	–	
10	M2.5	350	12,400	75	2,650	30	1,060	10	353	–	
100	M3.5	–		750	26,500	300	10,600	100	3,530	–	
1,000	M4.5	–		–		–		1,000	35,300	7	247
10,000	M5.5	–		–		–		10,000	353,000	70	2,470
100,000	M6.5	–		–		–		100,000	3,530,000	700	24,700

ISO Classification Chart – Selected ISO airborne particulate cleanliness classes for cleanrooms and clean zones

Maximum concentration limits (particles/m ³ of air) for particles equal to and larger than the considered sizes below						
Classn. number	0.1 microns	0.2 microns	0.3 microns	0.5 microns	1.0 microns	5.0 microns
ISO 1	10	2	–	–	–	–
ISO 2	100	24	10	4	–	–
ISO 3	1,000	237	102	35	8	–
ISO 4	10,000	2,370	1,020	352	83	–
ISO 5	100,000	23,700	10,200	3,520	832	29
ISO 6	1,000,000	237,000	102,000	35,200	8,320	293
ISO 7	–	–	–	352,000	83,200	2,930
ISO 8	–	–	–	3,520,000	832,000	29,300
ISO 9	–	–	–	35,200,000	8,320,000	293,000

Lithonia Lighting Terms and Conditions of Sale, U.S.

For Shipments Within the United States

Effective March 1, 2003

TERMS

All Lithonia Lighting, a division of Acuity Lighting Group, Inc. ("Lithonia Lighting") Commercial and Industrial (C&I) products – 1% cash discount will be allowed on invoices paid by the 10th of the month following the month of billing. Payments made after the 10th are due on a net basis to the 25th (1% 10th prox, net 25th prox).

FREIGHT ALLOWANCE

Lithonia Lighting Commercial and Industrial (C&I) products may be combined on an order to qualify for freight allowance. Peerless, Peerlite, Hydrel and Antique Street Lamps products cannot be combined on an order with Lithonia C&I product or with any other brand to qualify for freight allowance.

For shipments outside the contiguous United States, contact factory for applicable terms & conditions.

All shipments are F.O.B. our plants, vendors, Distribution Centers or Field Warehouses:

All orders for Lithonia C&I product having a distributor price of \$1,000 or more for one consignee for one shipment qualify for freight allowance.

All Lithonia Lighting C&I orders having a distributor price less than \$1,000 will be assessed freight and handling charges.

Anchor bolts are included with Lithonia C&I poles. Pre-shipped anchor bolts having a distributor price of less than \$1,000 will be assessed freight and handling charges.

Warehouse orders can only consist of products carried in stock.

ALL SHIPMENTS – For all orders that qualify for freight allowance, we reserve the right to select the carrier and to route shipments at our discretion. We will ship in the manner selected by the customer provided the customer assumes any additional transportation costs.

TRANSPORTATION CLAIMS

Our equipment is tested for mechanical defects prior to shipping. Our packaging is regularly inspected by transportation authorities who assume responsibility for both apparent and concealed damages sustained by improper handling. Title passes to purchaser upon delivery by us to the carrier, and all claims for damages or shortages in transit shall be made by purchaser with delivering carrier. Bills of Lading marked with "Shippers Load and Count" do not constitute a transfer of liability for the freight or damages from the consignee to Lithonia Lighting.

PACKAGING

The company reserves the right to optimize packaging at our discretion. Some products may only be available in bulk package multiples or case quantities.

PRICES

Prices are subject to change without notice. In the event of a price increase, all accepted orders on hand will be filled at lower prices provided such orders are released for shipping prior to the effective date of the price increase. If the orders are not released for shipment prior to the price increase, the orders will be billed at prices in effect at the time of shipment. Special quoted orders that cannot be released for shipping prior to the price increase may be subject to an increase in price. Minimum billing for all product or parts orders is \$50 net. Prices do not include lamps unless so specified.

RETURN OF STOCK MERCHANDISE

No merchandise may be returned without prior written authorization from our Post-Sale department. Requests to return merchandise must be made with our agents for transmittal to the Post-Sale department within four (4) months from date of shipment by us. All returns must be shipped prepaid to the location designated on the return authorization. Credit will be issued based on the original invoice price,

or price in effect at time of return, whichever is lower, less a minimum disposition charge of 35% (to defray our cost of handling). All returned product must be in salable condition in order to qualify for credit. Return authorization will not be granted when the value of all items to be returned is less than \$300. All stock products containing time-sensitive components that have reached the end of their warranty or shelf life are not returnable. Outdated or phase-out stock products are also not returnable.

NON-RETURNABLE MERCHANDISE

All non-stocking, special, custom made and modified products are not returnable. All Lithonia C&I stock and non-stock poles are not returnable.

SERVICE AREA LIMITATION

The company reserves the right to refuse to make quotations, accept orders or make shipments to points of destination outside of the regular or assigned selling and service area of the distributor.

LIMITED WARRANTY

Lithonia Lighting warrants all products sold hereunder to be free from defect in manufacturing, under normal and proper storage, installation, and use, for a period of one (1) year from the date of shipment. Our guarantee liability extends only to the repair or replacement of the defective part, and no labor charges for correction of the defect by repair or replacement will be paid by Lithonia Lighting unless prior written authority has been granted by our Post-Sale department.

Lithonia Lighting shall not be liable for damages that result from deliveries that do not occur within a customer's specified time frame or for any delay or default in delivering products where occasioned by any cause beyond the control of Lithonia Lighting, including without limitation embargoes; shortages of labor, raw materials, or fuel; fires; floods; accidents; acts of war; or other similar causes.

Products from Lithonia Emergency Systems, except lamps and fuses, are warranted for a period of three (3) years with the following exceptions – AC Power Systems are warranted for 1 year. Warranty limitations the same as above.

All components of the KiloWatch System, consisting of the factory-installed electrical system inside the HID lighting fixtures, the external switching devices, and all KiloWatch modified lighting fixtures used in the KiloWatch System, are warranted for a period of five (5) years, warranty limitations the same as above.

All polycarbonate lens shielding supplied with Rough Service products is warranted against breakage for the lifetime of the product, warranty limitations same as above.

All HID Industrial lighting fixtures are warranted for a period of five (5) years, warranty limitations the same as above.

Anchor bolts must be installed using current factory-furnished templates.

Fluorescent Ballast Guarantee – Ballasts are those of recognized, responsible manufacturers. Orders calling for specified brand name or type ballast will be handled on a quotation basis only. Claims for defective ballasts found to be in warranty should be made directly to the ballast manufacturer through their local ballast service center or their field representative in order to expedite replacement. Lithonia Lighting is not responsible for any costs or expenses, including without limitation any labor charges for replacement of defective ballasts. Any such costs would be the responsibility of and must be authorized by the ballast manufacturer. Copies of each manufacturer's standard ballast replacement program are available upon request from Lithonia representatives or can be accessed via www.lithonia.com.

THE FOREGOING WARRANTY TERMS ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES. LITHONIA LIGHTING MAKES NO REPRESENTATIONS OR WARRANTIES EXCEPT AS EXPRESSLY SET FORTH IN THESE TERMS AND CONDITIONS, AND

LITHONIA LIGHTING EXPRESSLY DISCLAIMS ALL OTHER REPRESENTATIONS AND WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO DISTRIBUTOR OR SUPPLIER OF LITHONIA LIGHTING HAS THE AUTHORITY TO MODIFY OR AMEND THIS LIMITED WARRANTY.

LIMITATION OF LIABILITY:

The foregoing limited warranty provides the purchaser's sole and exclusive remedy relating to Lithonia Lighting's products. The total liability of Lithonia Lighting on any and all claims of any kind, whether in contract, warranty, tort (including negligence), strict liability or otherwise, arising out of or in connection with, or resulting from, Lithonia Lighting's performance or breach of the foregoing limited warranty or from Lithonia Lighting's sale, delivery, repair, or replacement of any products, or the furnishing of any services, shall in no event exceed the purchase price allocable to the specific product which gives rise to the claim, and any and all such liability shall terminate upon the expiration of the limited warranty set forth above. IN NO EVENT SHALL LITHONIA LIGHTING BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR PUNITIVE DAMAGES, EVEN IF INFORMED OF THE POSSIBILITY OF SUCH DAMAGES, WHETHER AS THE RESULT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE, STRICT LIABILITY, OR ANY OTHER THEORY.

CANCELLATION CHARGE

Orders for Distribution Center or Field Warehouse stocking items may be cancelled prior to shipping without charge. All other orders may not be cancelled unless we are reimbursed for work already performed and for special material purchased by our company. If an order is cancelled after shipment or if delivery is refused at destination, all warehousing, delivery, disposition and return costs will be charged to the customer.

GENERAL

Lithonia Lighting price sheets are not offers to sell, and possession of a price sheet does not entitle one to purchase. Lithonia Lighting shall not be bound to sell any products unless it shall (in its sole discretion) accept submitted purchase orders. Specifications are subject to change without notice. Consult factory for verification. The compliance of our product to individual project specifications and the approval for their use is not warranted by our company. If purchaser does not pay the purchase price within the time periods set forth above, Lithonia Lighting reserves the right to assess a finance charge on any unpaid, past due balance up to the maximum legal rate. If any amount due Lithonia Lighting is collected by, or attempted to be collected through an attorney at law, Lithonia Lighting shall be entitled to recover all collection expenses, including attorney's fees.

ACCEPTANCE

Acceptance of orders can be made only at our plants, Distribution Centers or Field Warehouses for warehouse orders on the basis of these terms and conditions of sale. Lithonia Lighting will not accept orders that require customer-furnished components.

ENTIRE AGREEMENT

Except as expressly agreed in writing signed by Lithonia Lighting, the terms and conditions stated above shall constitute the entire sales agreement between Lithonia Lighting and the purchaser. Any contrary or additional terms or conditions submitted by the purchaser (other than the description of the products being ordered and the requested quantities, shipping date, and shipping location contained in purchaser's purchase order) shall be deemed to be of no force or effect and are hereby rejected. Purchaser's submission of a purchase order shall indicate purchaser's acknowledgment of and agreement with these Terms and Conditions.

Lithonia Lighting reserves the right to change these Terms and Conditions of Sale without notice.

Lithonia Lighting Terms and Conditions of Sale, Canada

For Shipments Within Canada

Effective October 1, 2003

TERMS:

All Lithonia Lighting Canada, a division of Acuity Lighting Group, Inc. ("Lithonia Lighting") Commercial and Industrial (C&I) products payment terms are 2%-10 or Net 30 days. All invoices dated from the first to the 15th of the month are payable on the 25th of the same month. All invoices from the 15th to the 30th of the month are payable on the 10th of the following month. Alternatively, all invoices are due Net 30 days following invoice date.

FREIGHT ALLOWANCE:

Lithonia Lighting Canada Commercial and Industrial (C&I) products may be combined on an order to qualify for freight allowance. Peerless, Peerlite, Hydrel and Antique Street Lamps products cannot be combined on an order with Lithonia C&I product or with any other brand to qualify for freight allowance.

For shipments outside Canada, contact factory for applicable terms and conditions.

All shipments are F.O.B. our plants, vendors, Distribution Centers or Field Warehouses

All orders for Lithonia Canada C&I product having a distributor price of \$1,500 or more for one consignee for one release qualify for freight allowance. All orders shipping to Yukon, Northwest Territories, Labrador and northern regions will be shipped F.O.B. origin, freight collect.

All Lithonia Lighting Canada C&I orders having a distributor price less than \$1,500 will be assessed freight and handling charges.

Anchor bolts are included with Lithonia Canada C&I poles. Pre-shipped anchor bolts having a distributor price of less than \$1,500 will be assessed freight and handling charges.

Warehouse orders can only consist of products carried in stock.

ALL SHIPMENTS— For orders that qualify for freight allowance, we reserve the right to select the carrier and to route shipments at our discretion. We will ship in the manner selected by the customer provided the customer assumes any additional transportation costs.

TRANSPORTATION CLAIMS:

Our equipment is tested for malfunctions and defects prior to shipping. Our packaging is regularly inspected by transportation authorities who assume responsibility for both apparent and concealed damages sustained by improper handling. Title passes to purchaser upon delivery by us to carrier, and all claims for damages or shortages in transit shall be made by purchaser with delivering carrier. Bills of Lading marked with "Shippers Load and Count" do not constitute a transfer of liability for the freight or damages from the purchaser to Lithonia Lighting.

PACKAGING:

The company reserves the right to optimize packaging at our discretion. Some products may only be available in bulk package multiples or case quantities.

PRICES:

Prices are subject to change without notice. In the event of price increases, all accepted orders on hand will be filled at lower prices provided such orders are released from shipping prior to the effective date of the price increase. If the orders are not released for shipment prior to the price increase, the orders will be billed at prices in effect at the time of the shipment. Minimum billing for all product and parts orders is \$75 net. Prices do not include lamps unless so specified. Prices exclude all taxes.

RETURN OF STOCK MERCHANDISE:

No merchandise may be returned without prior written authorization from our Customer Care. Requests to return merchandise

must be made with our agents for transmittal to the Customer Care within four (4) months from date of shipment by us. All returns must be shipped prepaid to the location designated on the return authorization. Credit will be issued based on the original invoice price, or price in effect at time of return, whichever is lower, less a minimum disposition charge of 35% (to defray our cost of handling). All returned product must be in salable condition in order to qualify for credit. Return authorization will not be granted when the value of all items to be returned is less than \$300. All stock products containing time-sensitive components that have reached the end of their warranty or shelf life are not returnable. Outdated or phase-out stock products are also not returnable.

NON-RETURNABLE MERCHANDISE

All non-stocking, special, custom made, modified products, and parts are not returnable. All Lithonia C&I stock and non-stock poles are not returnable.

SERVICE AREA LIMITATION:

The company reserves the right to refuse to make quotations, accept orders or make shipments to points of destination outside of the regular or assigned selling and service area of the distributor.

LIMITED WARRANTY:

Lithonia Lighting Canada warrants all products sold hereunder to be free from defect in manufacturing, under normal and proper storage, installation, and use, for a period of one (1) year from the date of shipment. Our warranty liability extends only to the repair or replacement of the defective part and no labor charges for correction of the defect by repair or replacement will be paid by Lithonia Lighting Canada unless prior written authority has been granted by our Post-Sale department.

Lithonia Lighting shall not be liable for damages that result from deliveries that do not occur within a customer's specified time frame or for any delay or default in delivering products where occasioned by any cause beyond the control of Lithonia Lighting, including without limitation embargoes; shortages of labor, raw materials, or fuel; fires; floods; accidents; acts of war; or other similar causes.

Products from Lithonia Emergency Systems, except lamps and fuses, are warranted for a period of three (3) years, warranty limitations the same as above.

All components of the KiloWatch System, consisting of the factory-installed electrical system inside the HID lighting fixtures, the external switching devices, and all KiloWatch modified lighting fixtures used in the KiloWatch System, are warranted for a period of five (5) years, warranty limitations the same as above.

All polycarbonate lens shielding supplied with Rough Service products is warranted against breakage for the lifetime of the product, warranty limitations the same as above.

All HID Industrial lighting fixtures are warranted for a period of five (5) years, warranty limitations the same as above.

Anchor bolts must be installed using current factory-furnished templates.

Fluorescent Ballast Guarantee: Ballasts are those of recognized, responsible manufacturers. Orders calling for specified brand name or type ballast will be handled on a quotation basis only. Claims for defective ballast found to be in warranty should be made directly to the ballast manufacturer through their ballast service center of their field representative in order to expedite replacement. Lithonia Lighting is not responsible for any costs or expenses, including without limitation any labor charges for replacement of ballasts. Any such costs would be the responsibility of and must be authorized by the ballast manufacturer. Copies of each manufacturer's standard ballast replacement program are available upon request from Lithonia Lighting Canada representatives or can be accessed via www.lithonia.com.

THE FOREGOING WARRANTY TERMS ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES. LITHONIA LIGHTING MAKES NO REPRESENTATIONS OR WARRANTIES EXCEPT AS EXPRESSLY SET FORTH IN THESE TERMS AND CONDITIONS, AND LITHONIA LIGHTING EXPRESSLY DISCLAIMS ALL OTHER REPRESENTATIONS AND WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO DISTRIBUTOR OR SUPPLIER OF LITHONIA LIGHTING HAS THE AUTHORITY TO MODIFY OR AMEND THIS LIMITED WARRANTY.

LIMITATION OF LIABILITY:

The foregoing limited warranty provides the purchaser's sole and exclusive remedy relating to Lithonia Lighting's products. The total liability of Lithonia Lighting on any and all claims of any kind, whether in contract, warranty, tort (including negligence), strict liability or otherwise, arising out of or in connection with, or resulting from, Lithonia Lighting's performance or breach of the foregoing limited warranty or from Lithonia Lighting's sale, delivery, repair, or replacement of any products, or the furnishing of any services, shall in no event exceed the purchase price allocable to the specific product which gives rise to the claim, and any and all such liability shall terminate upon the expiration of the limited warranty set forth above. IN NO EVENT SHALL LITHONIA LIGHTING BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR PUNITIVE DAMAGES, EVEN IF INFORMED OF THE POSSIBILITY OF SUCH DAMAGES, WHETHER AS THE RESULT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE, STRICT LIABILITY) OR ANY OTHER THEORY.

CANCELLATION CHARGES:

Orders for Distribution Center or Field Warehouse stocking items may be cancelled prior to shipping without charge. All other orders may not be cancelled unless we are reimbursed for work already performed and for special material purchased by our company. If an order is cancelled after shipment or if delivery is refused at destination, all warehousing, delivery, disposition and return costs will be charged to the customer.

GENERAL:

Lithonia Lighting price sheets are not offers to sell and possession of a price sheet does not entitle one to purchase. Lithonia Lighting shall not be bound to sell any products unless it shall (in its sole discretion) accept submitted purchase orders. Specifications are subject to change without notice. Consult factory for verification. The compliance of our product to individual project specifications and the approval for their use is not warranted by our company. If purchaser does not pay the purchase price within the time periods set forth above, Lithonia Lighting reserves the right to assess a finance charge on any unpaid, past due balance up to the maximum legal rate. If any amount due Lithonia Lighting is collected by, or attempted to be collected through an attorney at law, Lithonia Lighting shall be entitled to recover all collection expenses, including attorney's fees.

ACCEPTANCE:

Acceptance of orders can be made only at our plants, Distribution Centers or Field Warehouses for warehouse orders on the basis of these terms and conditions of sale. Lithonia Lighting will not accept orders that require customer-furnished components.

ENTIRE AGREEMENT:

Except as expressly agreed in writing signed by Lithonia Lighting, the terms and conditions stated above shall constitute the entire sales agreement between Lithonia Lighting and the purchaser. Any contrary or additional terms or conditions submitted by the purchaser (other than the description of the products being ordered and the requested quantities, shipping date, and shipping location contained in purchaser's purchase order) shall be deemed to be of no force or effect and are hereby rejected. Purchaser's submission of a purchase order shall indicate purchaser's acknowledgment of and agreement with these Terms and Conditions.

Lithonia Lighting Canada reserves the right to change these Terms and Conditions of Sale without notice.

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A17 aluminum high bay optics	368	<i>Avante</i> direct/indirect lighting	24	Channels, fluorescent	68-69
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*A commitment to the industry
through lighting education.*



The Jim H. McClung Lighting Center is a state-of-the-art lighting education facility located in Conyers, GA. Named after Jim H. McClung, Chairman and CEO from 1976-2000, the Lighting Center is known as a leading resource for professional development. This 32,000 square-foot facility allows Acuity Brands Lighting Group to tailor training programs to specific customer needs.

The Lighting Center is designed to create optimal training environments in classroom settings, as well as to enable participants to experience products in specific hands-on applications. Interactive displays help visitors learn about new product technologies in an engaging environment.



Multi-day workshops and tours are offered specifically for lighting designers and specifiers, electrical distributors, contractors, utility customers and national retail accounts. Special Visitor Programs and tours of the Lighting Center also can be designed to focus on specific training requirements. Our facility, professional expertise and passion for lighting will make your educational program a memorable experience.

For information regarding programs, visit www.lithonia.com/lightingcenter, or contact your local sales representative to register for a course or schedule a visit.



Inspiring Brilliance

BESAL LIGHTING EDUCATION FUND

The Besal Lighting Education Fund is a trust established as a tribute to the leadership of, and to honor the memory of, the late Robert J. Besal, who was an executive leader at Lithonia Lighting. The Besal Fund was established to provide a continuing program to improve education in illuminating engineering. The Besal Fund is administered and invested by the Illuminating Engineering Society of North America (IESNA). The purpose of the Besal Fund is to encourage talented and committed students to pursue a career in lighting. From 1982 to 2003, the Besal Fund extended grants in excess of \$2.3 million for lighting education.



Inspiring Illumination

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The McClung Lighting Research Foundation was created to honor the contributions of and create a permanent legacy for Jim H. McClung. This newly established research foundation utilizes the Lighting Research Office (LRO) for independent research management and peer review. The Foundation encourages creative thinking, scientific exploration and new solutions to old problems. The Foundation is the first of its kind to provide grants to teachers, scientists and visionaries of the lighting industry ... those who will improve the human condition through lighting research in the new millennium.

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