

High & Low Bay

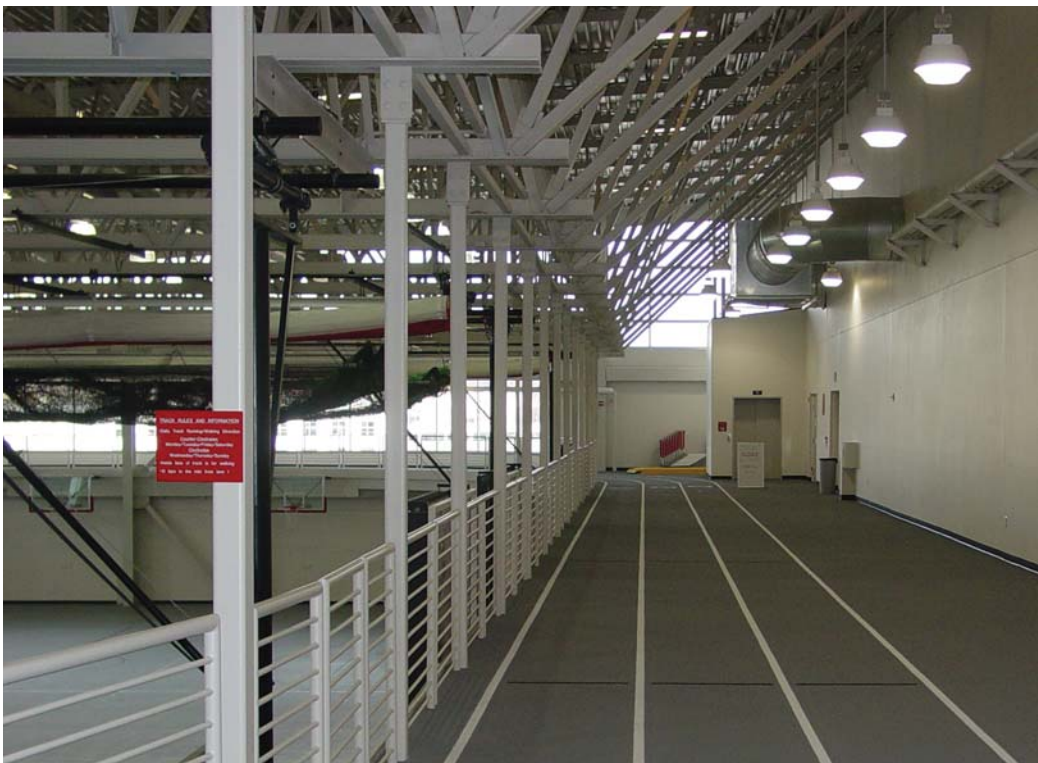
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The Ruud Lighting High & Low Bay line of products provides a complete range of fluorescent and HID fixtures that provide outstanding performance and value. In addition to typical industrial applications, these fixtures can be used in many other areas, including commercial and retail projects. That kind of practical versatility originates from outstanding optical efficiency and clean, functional design. All with Ruud Lighting dependability—it's what our customers count on. Both our Linear Fluorescent High Bay and HID fixture lines offer a variety of lamp choices and optical systems and optional 2-Level control for increased energy efficiency.



H Series 6-Lamp Linear Fluorescent High Bays, Page 54



FC Series Mini Low Bay, Page 86



Linear Fluorescent High Bay

The Linear Fluorescent fixtures are available with either T5HO or T8 lamps in 2-, 4- or 6-lamp configurations with a choice of optical systems. They provide comparable light levels with up to 50 percent energy savings over HID fixtures. We also have a new narrow distribution 24-inch wide 6-lamp design that complies with NFPA and Factory Mutual codes. A wet-listed 2-lamp model is also offered for lower mounting height applications.

EZ Bay Plus Series

We've taken our high-quality Die-Cast and EZ Bay® families of High and Low Bay industrial ballast housings and improved their performance and longevity in a redesigned, next-generation called the EZ Bay Plus™. This new die-cast housing design produces exceptional performance that makes our HID High and Low Bay fixtures an excellent choice for a wide range of commercial and retail applications. In addition, the housing's more robust construction ensures years of worry-free service.



High Bays

For HID High Bay applications, Ruud offers a choice of lamps, including pulse start metal halide (PSMH), metal halide (MH) or high pressure sodium (HPS) lamps. There are seven reflector systems available that include spun aluminum, acrylic prismatic or glass prismatic reflectors. Our wet-listed IP65-rated High Bay fixtures feature silicone fully gasketed housing and lens frame and all stainless steel hardware.

Low Bays

For low to medium ceiling heights, these fixtures provide uniform light distribution with low brightness. Their compact design and excellent optical distribution make them an ideal choice for industrial, commercial or retail applications. Low Bay fixtures are also available in wet-listed models.

Mini Industrial Lights

From smaller industrial spaces to mezzanines, the Ruud Lighting Mini Industrial fixtures are available with either refractor or prismatic lenses and lamp wattages up to 175 watts.



Linear Fluorescent High Bay

Ruud Lighting's Linear Fluorescent High Bay offers an exciting and unique alternative to HID high bay lighting. With a wide variety of lamp choices and optical systems, you can offer your customers comparable light levels, from 0 to 40 percent uplight with up to 50 percent energy savings!

For Commercial/Retail Applications, the Linear Fluorescent High Bay provides superior, uniform illumination at floor and on merchandise shelving. The 4100K color temperature and high color rendition for both the T8 and T5HO fluorescent lamps provide excellent white-light illumination and product recognition.

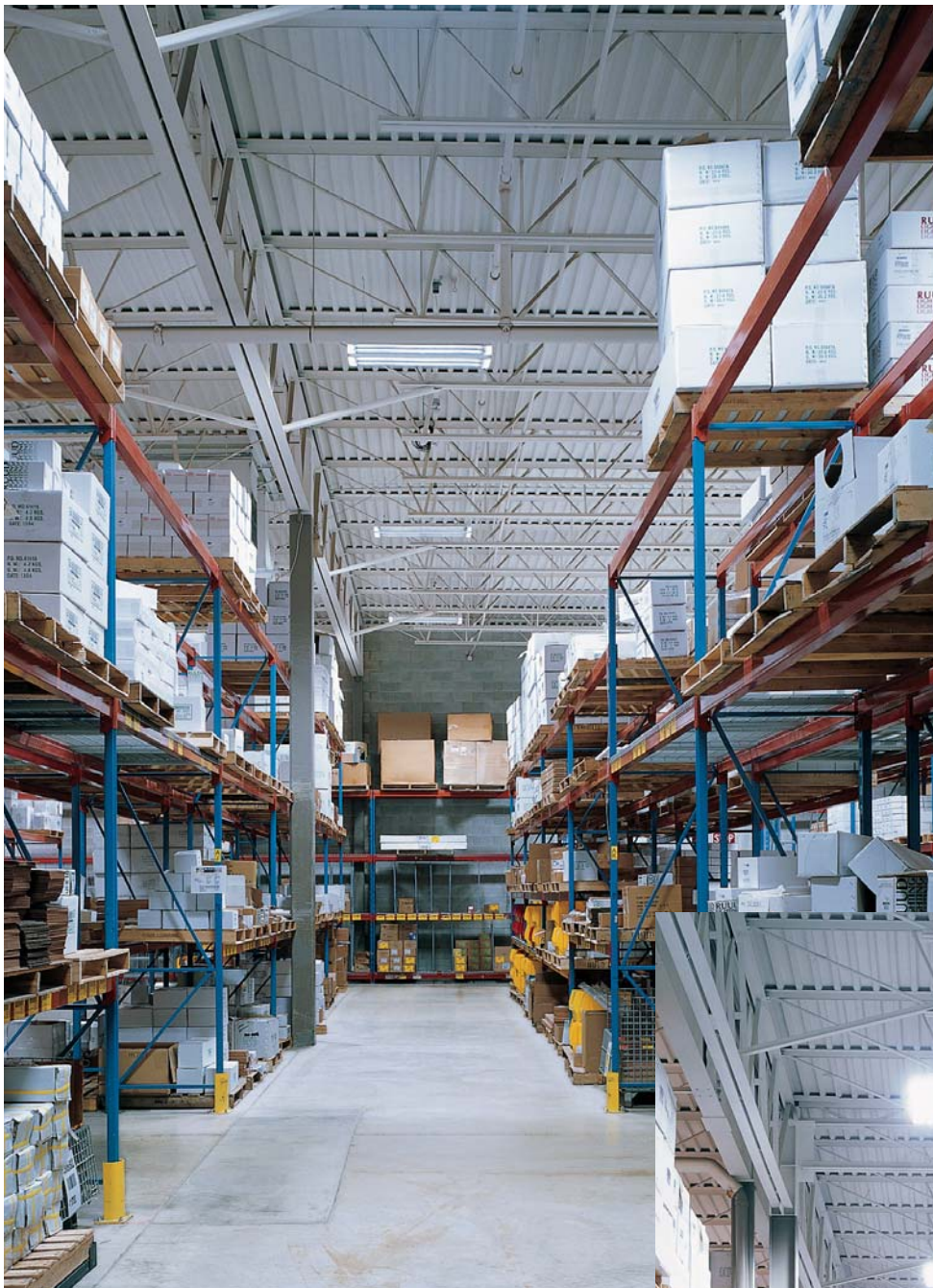


Compare the energy savings

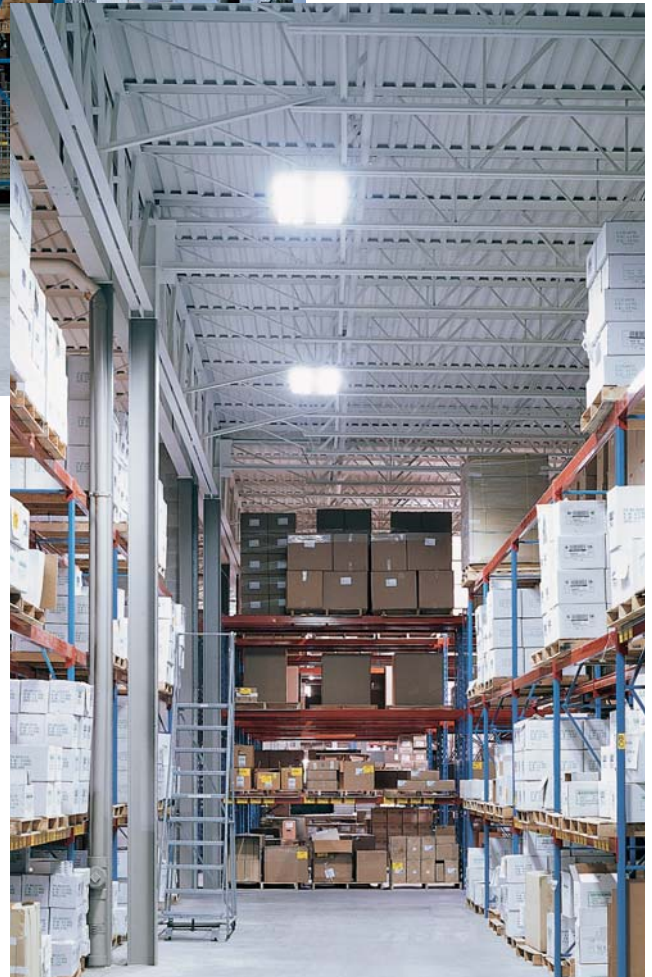
	400W Metal Halide (probe start)	Four lamp, 54W, T5HO Fluorescent
Initial Lamp Lumen Output	35,000	20,000
Mean Lamp Lumen Output @ 8,000 hrs.	21,000	19,000
Lamp Lumen Output @ rated life (20,000 hrs.)	15,750	18,000
Total System Wattage @ 277V	455	234
Annual Energy Cost Per Fixture *	\$145.60	\$74.88
Annual Saving	—	\$70.72
Fixture Cost	Lowest	Good

* based on 4,000 hours of annual usage @ \$0.08/kWh

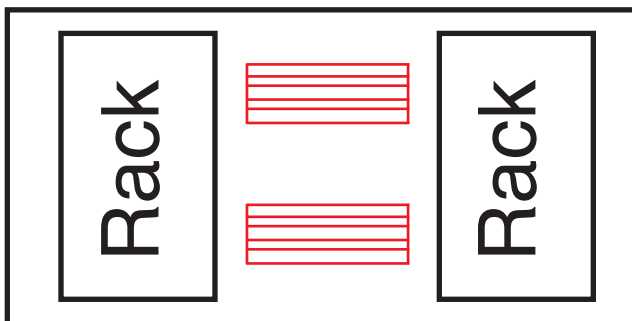
Additional savings can be achieved in warehouse installations using integrated 2-Level control.



In Warehouse/Industrial Applications, the Linear Fluorescent High Bay does an outstanding job of illuminating aisles and racking as well as open areas. Note how much glare is visible (shown below) when fixtures are mounted parallel to the aisle. When fixtures are mounted perpendicular to the aisle (shown left) vertical and horizontal light levels remain similar while glare is virtually eliminated due to the excellent cutoff achieved without louvers.



To reduce glare with excellent lamp image cutoff



mount Linear Fluorescent High Bay fixtures perpendicular to aisles

Linear Fluorescent High Bay

Choose from:

- Two-, four- or six-lamp T5HO or T8 fluorescent lamps
- Up to six optical system configurations
- Specular aluminum reflectors or in combination with acrylic prismatic reflectors for uplighting
- Optional integrated 2-Level control with 2-way control switch
- Wire-form hangers are included. An access cover is standard for 3/4" conduit and wire entry. Mounting Cable accessory available.
- Optional high reflectance white reflectors also available.



2 Lamp

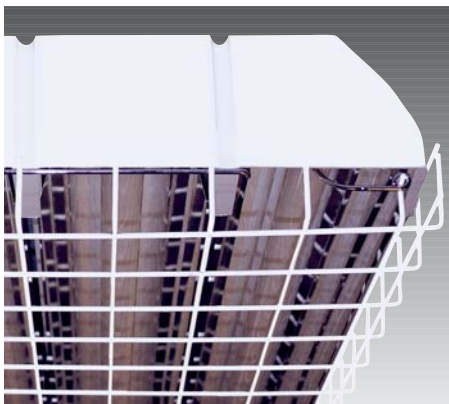


Patents Pending

4 Lamp



6 Lamp



**Wire Guard Accessory
(H-WG2, H-WG4 or H-WG6)**

Steel with white painted finish. Includes mounting hardware. Available for two-, four- or six-lamp models.



**Lens Kit Accessory
(H-LK4 or H-LK6)**

Clear acrylic lens with white painted steel end-covers. Available for four- or six-lamp models.



Skid-pack Shipping Containers

Available for larger, bulk orders to reduce site carton debris and improve overall job-site coordination. Two-lamp and four-lamp models come 20 per pack. Six-lamp models come 12 per pack.

Housing

The die-formed steel ballast housing is standard with our exclusive Colorfast DeltaGuard™ finish featuring an ultra-durable, white powder topcoat. The end-caps are made of rugged injection molded thermoplastic.

Mounting

Fixture includes two wire-form hangers. The H Series fixture can be ordered with our standard 6-foot cord and voltage specific, Locking-Type plug or with our optional EZ Connect® Modular Wiring 10-gauge or 12-gauge system. The fixture can also be ordered without cord. An access cover is standard for 3/4" conduit and wire entry. Mounting Cable accessory is available.

NOTE: Mount fixtures a minimum distance of 7-1/2" below ceiling.

Ballast

T5HO fixture is supplied with programmed-start electronic ballast to optimize lamp life that is Universal 120-through 277-volts. A 347- or 480-volt ballast is also available.

T8 fixture is supplied with a high-ballast-factor, instant start electronic ballast that is Universal 120- through 277-volts. T8 347-volt fixtures will utilize a normal ballast factor ballast (bf-1.0). Single lamp emergency ballast option available on 120-volt (-1) or 277-volt (-2) only and requires a 4-wire receptacle. (Lumens: T5HO 825; T8 700)

Reflectors

Fixture is available in a choice of super high efficiency specular aluminum reflectors or in combination with clear acrylic prismatic reflectors for up to 40-percent uplighting. Optional high reflectance white reflectors are also available. The Linear Fluorescent High Bay is available with Medium light distribution.

Lamps

T5HO fixture includes two, four or six, 54-watt fluorescent lamps with 85 CRI and 4100K color temperature (841). The T8 model is supplied with two, four or six, 32-watt fluorescent lamps with 78 CRI and 4100K color temperature (741). See order chart for other optional lamp CRI and color temperature choices.

2-Level

Optional 2-Level control is available with an integrated 360° motion sensor and is configurable for "all off" or "partial off" (120- through 277-volt) with external two-position switch. Two lamp and 347-volt fixtures supplied pre-wired for "all on/all off" operation. Time delay control is externally adjustable from 1/2 minute to 20 minutes. 2-Level not available in 480V. Hard wiring of individual ballasts possible for independent switching.

Testing

We subject our fixtures to a series of thermal tests, optimizing their performance and ensuring their longevity. Each fixture is also tested for proper operation before packing.

Label

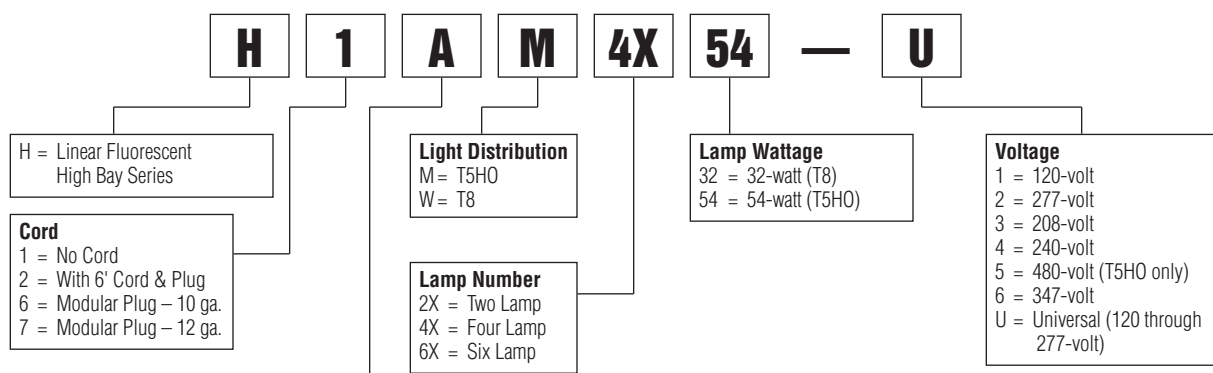
UL Listed in the U.S. and Canada for damp locations. See Ambient Temperature Limits below.

Shipping

Skid-pack shipping containers of 20 two-lamp or four-lamp fixtures and 12 six-lamp fixtures are standard. This makes it easier for you to receive or transport the Linear Fluorescent High Bays and eases your overall job-site coordination efforts.

Linear Fluorescent High Bay Catalog Number Logic

NOTE: See product pages for availability.

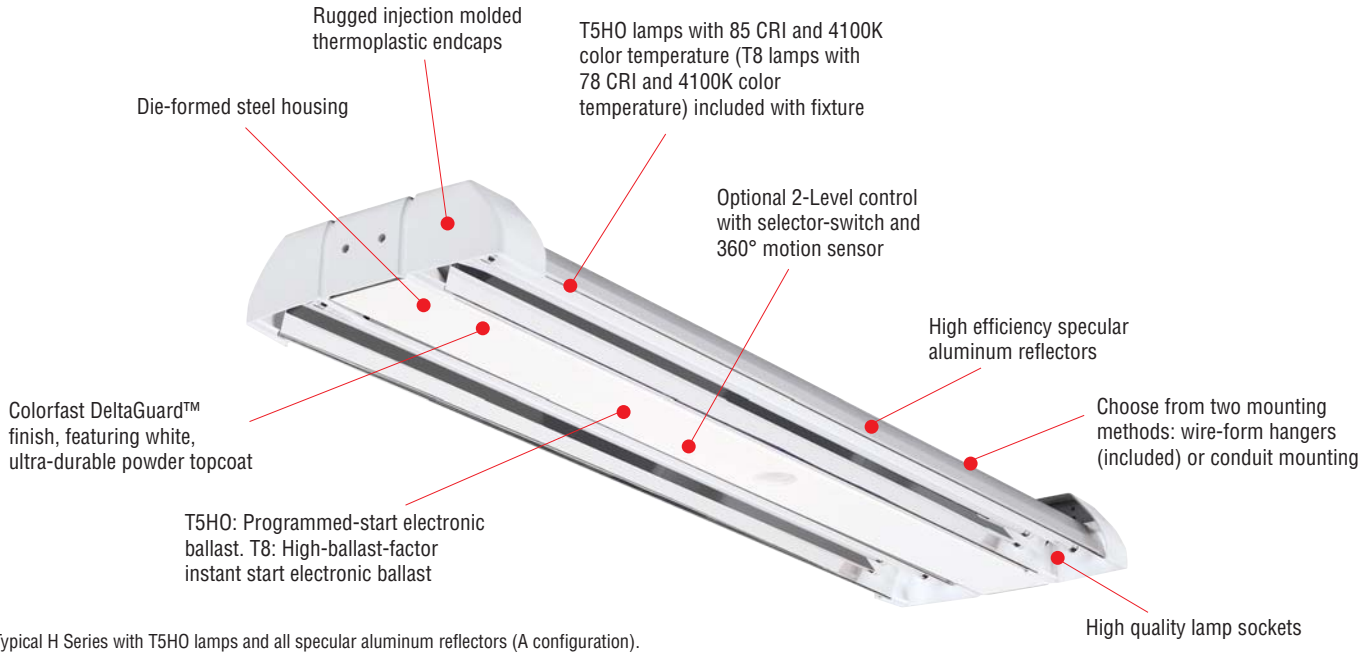


- Optical Configuration (see diagram)**
- A = Specular reflectors (two, four or six lamp)
 - B = Specular reflectors with two visible prismatic reflectors (four or six lamp)
 - C = Specular reflectors with two hidden prismatic reflectors (four or six lamp)
 - D = Specular reflectors with four visible prismatic reflectors (six lamp only)
 - E = Specular reflectors with four hidden prismatic reflectors (six lamp only)
 - F = Prismatic reflectors (two, four or six lamp)
 - G = Specular reflectors with one hidden prismatic reflector (four lamp only)
 - H = Prismatic reflectors with one hidden specular reflector (four lamp only)

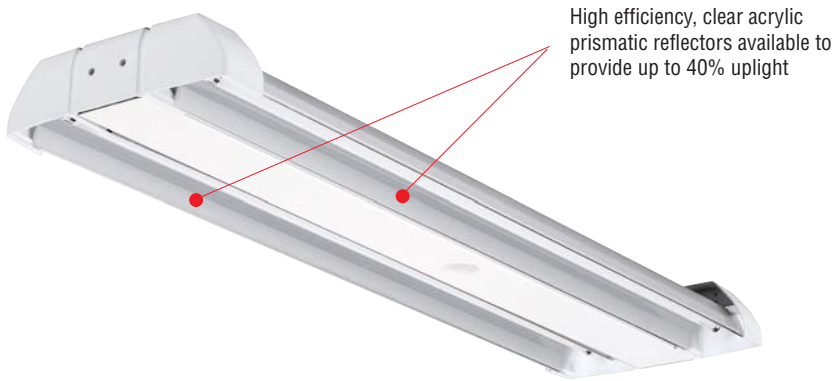
Ambient Temperature Limits (UL Rating)

Lamp	Standard Product	-EM Option
2 Lamp T5HO	55°C	45°C
2 Lamp T8	45°C	35°C
4 Lamp T5HO	55°C	45°C
4 Lamp T8	45°C	35°C
6 Lamp T5HO	45°C	35°C
6 Lamp T8	40°C	35°C

Linear Fluorescent High Bay-2 Lamp

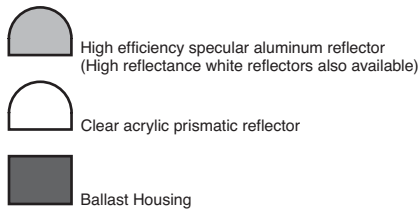
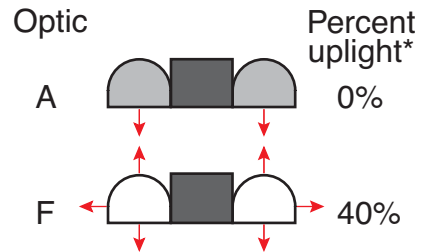


Typical H Series with T5HO lamps and all specular aluminum reflectors (A configuration).



H Series with T5HO lamps and two visible acrylic prismatic reflectors (F configuration)

Two Lamp – T5HO or T8



*Approximate uplight percentages. Contact our Applications Department for a detailed layout based upon your specific project.



Lamps Included!



Linear Fluorescent High Bay-2 Lamp

An efficient and versatile alternative over other fluorescent High Bay lighting products. The two-lamp H Series fixture is offered with either T5HO or T8 lamps and a choice of two optical system configurations in medium light distribution. The low profile high bay measures 49.25 inches (1252 mm) long by 12.5 inches (318 mm) wide by 3.5 inches (89 mm) high.

Housing

The die-formed steel housing is standard with our exclusive Colorfast DeltaGuard™ finish featuring an ultra-durable, white powder topcoat. The end-caps are made of durable injection molded thermoplastic.

Ballast

T5HO fixture is supplied with programmed-start electronic ballast to optimize lamp life that is Universal 120 through 277-volts. T8 fixture is supplied with a high-ballast-factor, instant start electronic ballast that is Universal 120- through 277-volts. T8 347-volt fixtures will utilize a normal ballast factor ballast (bf~1.0). Single lamp emergency ballast option available on 120-volt (-1) or 277-volt (-2) only and requires a 4-wire receptacle. (Lumens: T5HO 825; T8 700)

Reflectors

Fixture is available in a choice of super specular aluminum reflectors or clear acrylic prismatic reflectors. Optional high reflectance white reflectors also available. Fixture with acrylic prismatic reflectors should not be used in an environment where any concentrations of industrial cutting fluids are used.

Lamps

Fixture includes two, 54-watt T5HO fluorescent lamps with an 85 CRI and 4100K color temperature (841). The T8 model is supplied with two, 32-watt lamps with 78 CRI and 4100K color temperature (741).

2-Level

Optional 2-Level control is available with an integrated 360° motion sensor. Fixture is supplied pre-wired for "all on/all off" operation. Time delay is adjustable from 1/2 to 20 minutes. 2-Level not available for 480V.

Mounting

Fixture includes two wire-form hangers. The H Series fixture can be ordered with our standard 6-foot cord and voltage specific, Locking-Type plug or with our optional EZ Connect® Modular Wiring 10 gauge or 12 gauge cord. The fixture can also be ordered without cord. An access cover is standard for 3/4" conduit and wire entry.

Label

The High Bay is UL Listed in the U.S. and Canada for damp locations. Refer to page 49 for Ambient Temperature Limits.

Order Information

Wattage/ Lamp Type	Optical Config.*	Catalog Number without cord	Catalog Number with Cord & Plug
(2) 54W T5HO	A Medium	H1AM2X54-U	H2AM2X54-(a)
(2) 54W T5HO	F Medium	H1FM2X54-U	H2FM2X54-(a)
(2) 32W T8	A Medium	H1AW2X32-U	H2AW2X32-(a)
(2) 32W T8	F Medium	H1FW2X32-U	H2FW2X32-(a)

*Optic configuration choices. See chart on page 50

EZ Connect 6' 10 ga. Lighting Tap use H6 prefix

(add "A", "B" or "C" after H6 to denote phase)

EZ Connect 6' 12 ga. Lighting Tap use H7 prefix

See pages 96-99 for more information on our EZ Connect Modular Wiring System

Options: (Factory-installed)	Change Suffix To	Add After Suffix
(a) Ballast Choices		
120V	1	
277V	2	
208V	3	
240V	4	
480V (T5HO only)	5	
347V	6	
2-Level (120 - 277V & 347 only)		K
Emergency Ballast (120V & 277V only)	1 or 2	EM
85 CRI and 3500K lamps		835
78 CRI and 3500K lamps (T8 only)		735
85 CRI and 4100K lamps		841
High Reflectance White Reflector (A optical configuration only)		W

Accessories: (Field-installed)

Description	Catalog Number	
Wire Guard	H-WG2	
Locking-type Receptacle	120V	L5-15R
	120V (4-wire)	L14-20R
	208/240V	L6-15R
	277V	L7-15R
	277V (4-wire)	L16-20R
	347V	L37*20R
480V	L8-20R	

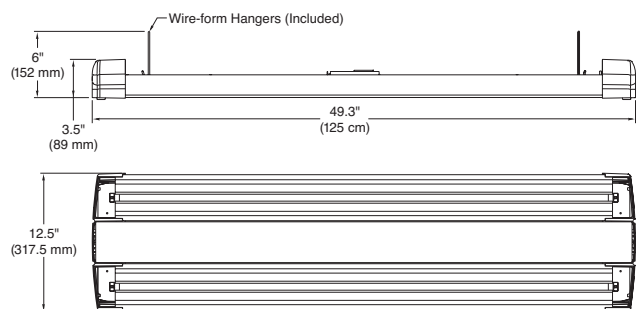
NOTE: EM option requires 4-wire receptacle

Mounting/Safety Cable with Hang-Fast (5/1.5m)

SC-5

NOTE: Order 2 if using cable for mounting

Catalog Number Logic/Voltage Suffix Key Page 49



Linear Fluorescent High Bay-4 Lamp

Rugged injection molded thermoplastic endcaps

T5HO lamps with 85 CRI and 4100K color temperature (T8 lamps with 78 CRI and 4100K color temperature) included with fixture

Die-formed steel housing

Optional 2-Level control with selector-switch and 360° motion sensor

High efficiency specular aluminum reflectors

Colorfast DeltaGuard™ finish, featuring white, ultra-durable powder topcoat

Choose from two mounting methods: wire-form hangers (included) or conduit mounting

T5HO: Programmed-start electronic ballast. T8: High-ballast-factor instant start electronic ballast

High quality lamp sockets

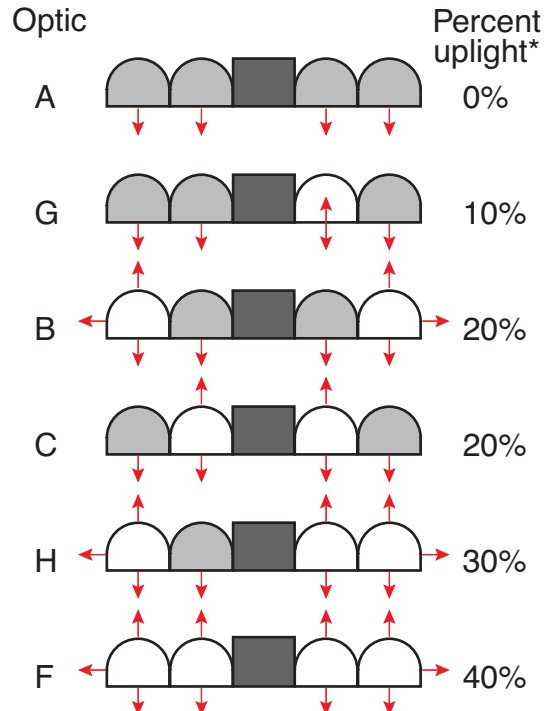
Typical H Series with T5HO lamps and all specular aluminum reflectors (A configuration).






High efficiency, clear acrylic prismatic reflectors available to provide up to 40% uplight

H Series with T5HO lamps, specular aluminum reflectors and two visible acrylic prismatic reflectors (B configuration)

Four Lamp – T5HO or T8



-  High efficiency specular aluminum reflector (High reflectance white reflectors also available)
-  Clear acrylic prismatic reflector
-  Ballast Housing

*Approximate uplight percentages. Contact our Applications Department for a detailed layout based upon your specific project.



**Lamps
Included!**



Linear Fluorescent High Bay-4 Lamp

An efficient and versatile alternative over other fluorescent High Bay lighting products. The four-lamp H Series fixture is offered with either T5HO or T8 lamps and a choice of six optical system configurations in medium light distribution. The low profile high bay measures 49.25 inches (1252 mm) long by 21 inches (533 mm) wide by 3.5 inches (89 mm) high.

The Linear Fluorescent High Bay is a great choice for not only warehouse and industrial applications but also is a very attractive and efficient choice for commercial/retail projects.

Housing

The die-formed steel housing is standard with our exclusive Colorfast DeltaGuard™ finish featuring an ultra-durable, white powder topcoat. The end-caps are made of durable injection molded thermoplastic.

Ballast

T5HO fixture is supplied with programmed-start electronic ballast to optimize lamp life that is Universal 120 through 277-volts. T8 fixture is supplied with a high-ballast-factor, instant start electronic ballast that is Universal 120- through 277-volts. T8 347-volt fixtures will utilize a normal ballast factor ballast (bf~1.0). Single lamp emergency ballast option available on 120-volt (-1) or 277-volt (-2) only and requires a 4-wire receptacle. (Lumens: T5HO 825; T8 700)

Reflectors

Fixture is available in a choice of super specular aluminum reflectors or clear acrylic prismatic reflectors. Optional high reflectance white reflectors also available. Fixture with acrylic prismatic reflectors should not be used in an environment where any concentrations of industrial cutting fluids are used.

Lamps

Fixture includes four, 54-watt T5HO fluorescent lamps with an 85 CRI and 4100K color temperature (841). The T8 model is supplied with four, 32-watt lamps with 78 CRI and 4100K color temperature (741).

2-Level

Optional 2-Level control is available with an integrated 360° motion sensor and is configurable for "all off" or "partial off" (120- through 277-volt) with external two-way switch. 347-volt supplied pre-wired for "all on/all off" operation. Time delay is adjustable from 1/2 to 20 minutes. Hard wiring of individual ballasts possible for independent switching. 2-Level not available in 480V.

Mounting

Fixture includes two wire-form hangers. The H Series fixture can be ordered with our standard 6-foot cord and voltage specific, Locking-Type plug or with our optional EZ Connect® Modular Wiring 10 gauge or 12 gauge cord. The fixture can also be ordered without cord. An access cover is standard for 3/4" conduit and wire entry.

Label

The High Bay is UL Listed in the U.S. and Canada for damp locations. Refer to page 49 for Ambient Temperature Limits.

Order Information

Wattage/ Lamp Type	Optical Config.*	Catalog Number without cord	Catalog Number with Cord & Plug
(4) 54W T5HO	A Medium	H1AM4X54-U	H2AM4X54-(a)
(4) 54W T5HO	B Medium	H1BM4X54-U	H2BM4X54-(a)
(4) 54W T5HO	C Medium	H1CM4X54-U	H2CM4X54-(a)
(4) 54W T5HO	F Medium	H1FM4X54-U	H2FM4X54-(a)
(4) 54W T5HO	G Medium	H1GM4X54-U	H2GM4X54-(a)
(4) 54W T5HO	H Medium	H1HM4X54-U	H2HM4X54-(a)
(4) 32W T8	A Medium	H1AW4X32-U	H2AW4X32-(a)
(4) 32W T8	B Medium	H1BW4X32-U	H2BW4X32-(a)
(4) 32W T8	C Medium	H1CW4X32-U	H2CW4X32-(a)
(4) 32W T8	F Medium	H1FW4X32-U	H2FW4X32-(a)
(4) 32W T8	G Medium	H1GW4X32-U	H2GW4X32-(a)
(4) 32W T8	H Medium	H1HW4X32-U	H2HW4X32-(a)

*Optic configuration choices. See chart on page 52

EZ Connect 6' 10 ga. Lighting Tap use H6 prefix
(add "A", "B" or "C" after H6 to denote phase)

EZ Connect 6' 12 ga. Lighting Tap use H7 prefix

See pages 96-99 for more information on our EZ Connect Modular Wiring System

Options: (Factory-installed)	Change Suffix To	Add After Suffix
(a) Ballast Choices		
120V	1	
277V	2	
208V	3	
240V	4	
480V (T5HO only)	5	
347V	6	
2-Level (120 - 277V & 347V only)		K
Emergency Ballast (120V & 277V only)		EM
85 CRI and 3500K lamps		835
78 CRI and 3500K lamps (T8 only)		735
85 CRI and 4100K lamps		841
High Reflectance White Reflector (A, B, C, G & H optical configurations only)		W

Accessories: (Field-installed)

Description	Catalog Number	
Lens Kit (Flat Clear Acrylic)	H-LK4	
Wire Guard	H-WG4	
Locking-type Receptacle	120V	L5-15R
	120V (4-wire)	L14-20R
	208/240V	L6-15R
	277V	L7-15R
	277V (4-wire)	L16-20R
	347V	L37*20R
	480V	L8-20R

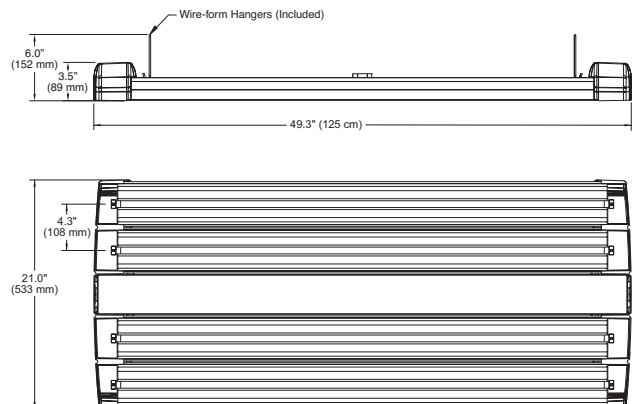
NOTE: EM option requires 4-wire receptacle

Mounting/Safety Cable with Hang-Fast (5/1.5m)

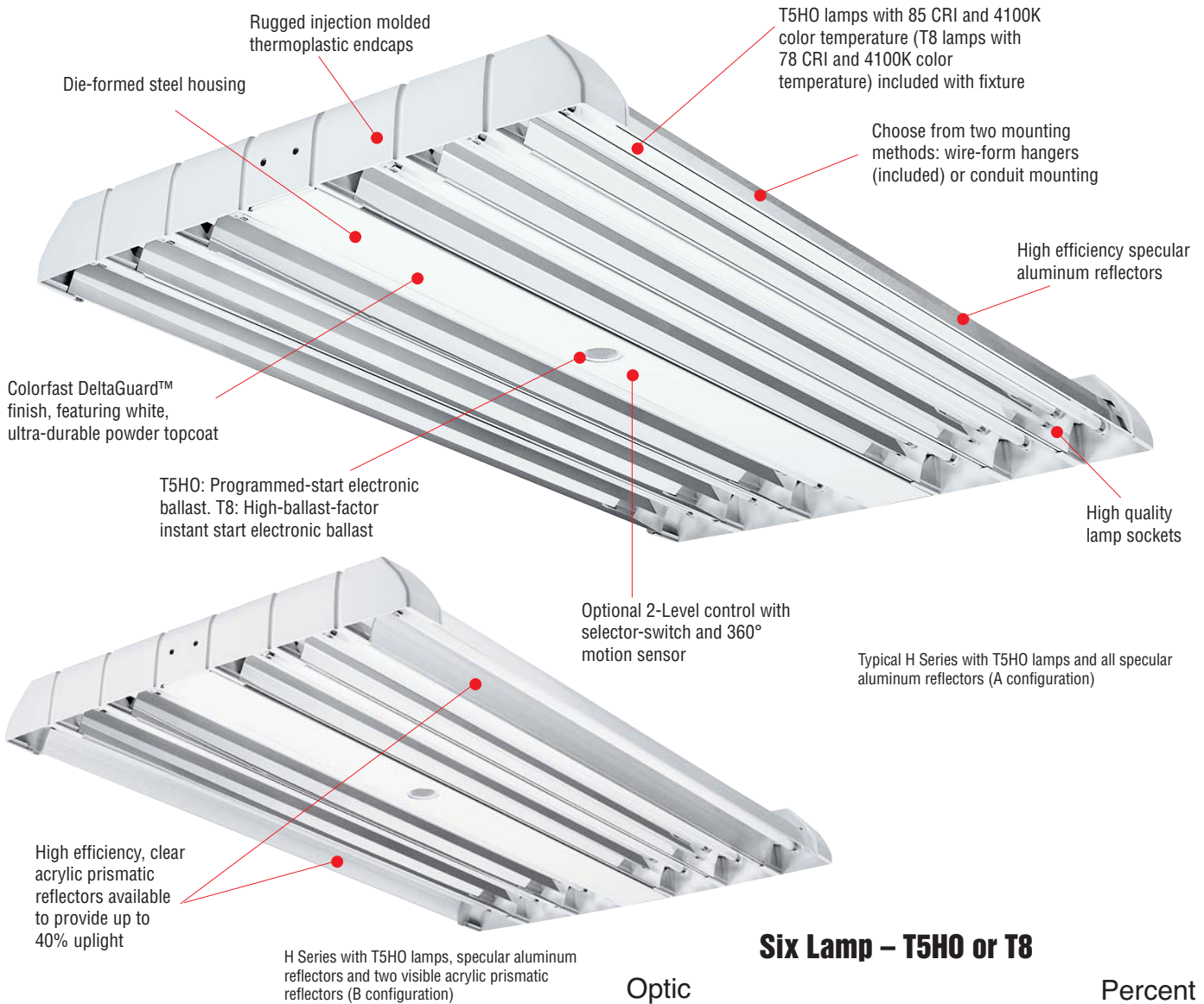
SC-5

NOTE: Order 2 if using cable for mounting

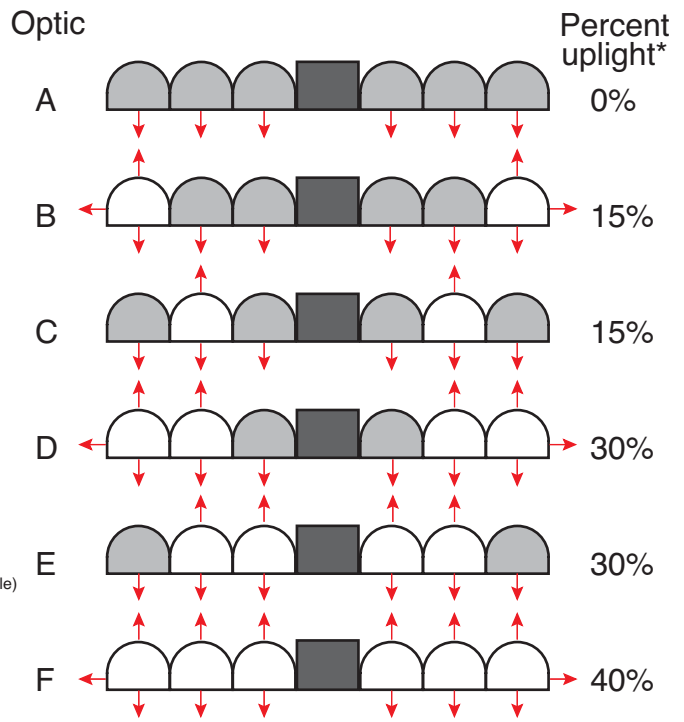
Catalog Number Logic/Voltage Suffix Key Page 49



Linear Fluorescent High Bay-6 Lamp



Six Lamp – T5HO or T8



*Approximate uplight percentages. Contact our Applications Department for a detailed layout based upon your specific project.

**Lamps
Included!**



Linear Fluorescent High Bay-6 Lamp

An efficient and versatile alternative over other fluorescent High Bay lighting products. The six-lamp H Series fixture is offered with either T5HO or T8 lamps and a choice of six optical system configurations in medium light distribution. The low profile high bay measures 49.25 inches (1252 mm) long by 29.5 inches (749 mm) wide by 3.5 inches (89 mm) high.

The Linear Fluorescent High Bay is a great choice for not only warehouse and industrial applications but also is a very attractive and efficient choice for commercial/retail projects.

Housing

The die-formed steel housing is standard with our exclusive Colorfast DeltaGuard™ finish featuring an ultra-durable, white powder topcoat. The end-caps are made of durable injection molded thermoplastic.

Ballast

Fixture with T5HO lamps is supplied with programmed-start electronic ballast to optimize lamp life that is Universal 120- through 277-volts.

T8 fixture is supplied with a high-ballast-factor instant start electronic ballast that is Universal 120- through 277-volts. T8 347-volt fixtures will utilize a normal ballast factor ballast (bf-1.0). Single lamp emergency ballast option available on 120-volt (-1) or 277-volt (-2) only and requires a 4-wire receptacle. (Lumens: T5HO 825; T8 700)

Reflectors

Fixture is available in a choice of super specular aluminum reflectors or clear acrylic prismatic reflectors. Optional high reflectance white reflectors also available. Fixture with acrylic prismatic reflectors should not be used in an environment where any concentrations of industrial cutting fluids are used.

Lamps

Fixture includes six, 54-watt T5HO fluorescent lamps with an 85 CRI and 4100K color temperature (841). The T8 model is supplied with six, 32-watt lamps with 78 CRI and 4100K color temperature (741).

2-Level

Optional 2-Level control is available with an integrated 360° motion sensor and is configurable for "all off" or "partial off" (120- through 277-volt) with external two-way switch. 347-volt supplied pre-wired for "all on/all off" operation. Time delay is adjustable from 1/2 to 20 minutes. Hard wiring of individual ballasts possible for independent switching. 2-Level not available in 480V.

Mounting

Fixture includes two wire-form hangers. The H Series fixture can be ordered with our standard 6-foot cord and voltage specific, Locking-Type plug or with our optional EZ Connect® Modular Wiring 10-gauge or 12-gauge cord. The fixture can also be ordered without cord. An access cover is standard for 3/4" conduit and wire entry.

Label

The High Bay is UL Listed in the U.S. and Canada for damp locations. Refer to page 49 for Ambient Temperature Limits.

Order Information

Wattage/ Lamp Type	Optical Config.*	Catalog Number Without Cord	Catalog Number With Cord & Plug
(6) 54W T5HO	A Medium	H1AM6X54-U	H2AM6X54-(a)
(6) 54W T5HO	B Medium	H1BM6X54-U	H2BM6X54-(a)
(6) 54W T5HO	C Medium	H1CM6X54-U	H2CM6X54-(a)
(6) 54W T5HO	D Medium	H1DM6X54-U	H2DM6X54-(a)
(6) 54W T5HO	E Medium	H1EM6X54-U	H2EM6X54-(a)
(6) 54W T5HO	F Medium	H1FM6X54-U	H2FM6X54-(a)
(6) 32W T8	A Medium	H1AW6X32-U	H2AW6X32-(a)
(6) 32W T8	B Medium	H1BW6X32-U	H2BW6X32-(a)
(6) 32W T8	C Medium	H1CW6X32-U	H2CW6X32-(a)
(6) 32W T8	D Medium	H1DW6X32-U	H2DW6X32-(a)
(6) 32W T8	E Medium	H1EW6X32-U	H2EW6X32-(a)
(6) 32W T8	F Medium	H1FW6X32-U	H2FW6X32-(a)

*Optic configuration choices. See chart on page 54

EZ Connect 6' 10 ga. Lighting Tap use H6 prefix
(add "A", "B" or "C" after H6 to denote phase)

EZ Connect 6' 12 ga. Lighting Tap use H7 prefix

See pages 96-99 for more information on our EZ Connect Modular Wiring System

Options: (Factory-installed)	Change Suffix To	Add After Suffix
(a) Ballast Choices		
120V	1	
277V	2	
208V	3	
240V	4	
480V (T5HO only)	5	
347V	6	
2-Level (120 - 277V & 347V only)		K
Emergency Ballast (120V & 277V only)	1 or 2	EM
85 CRI and 3500K lamps		835
78 CRI and 3500K lamps (T8 only)		735
85 CRI and 4100K lamps		841
High Reflectance White Reflector (A, B, C, D & E optical configurations only)		W

Accessories: (Field-installed)

Description	Catalog Number	
Lens Kit (Flat Clear Acrylic)	H-LK6	
Wire Guard	H-WG6	
Locking-type Receptacle	120V	L5-15R
	120V (4-wire)	L14-20R
	208/240V	L6-15R
	277V	L7-15R
	277V (4-wire)	L16-20R
	347V	L37*20R
	480V	L8-20R

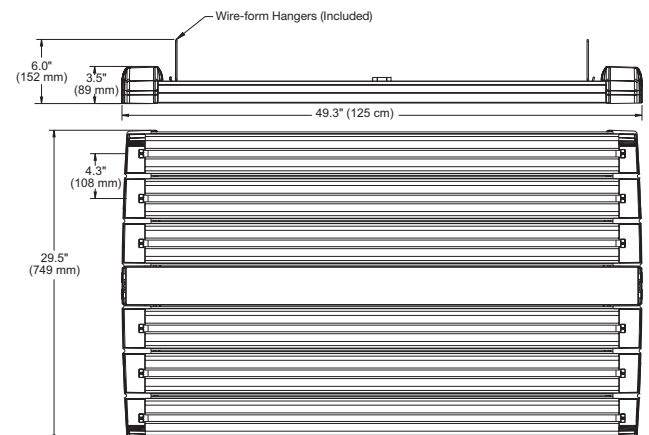
NOTE: EM option requires 4-wire receptacle

Mounting/Safety Cable with Hang-Fast (5/1.5mm)

SC-5

NOTE: Order 2 if using cable for mounting

Catalog Number Logic/Voltage Suffix Key Page 49



Linear Fluorescent High Bay–24" Narrow



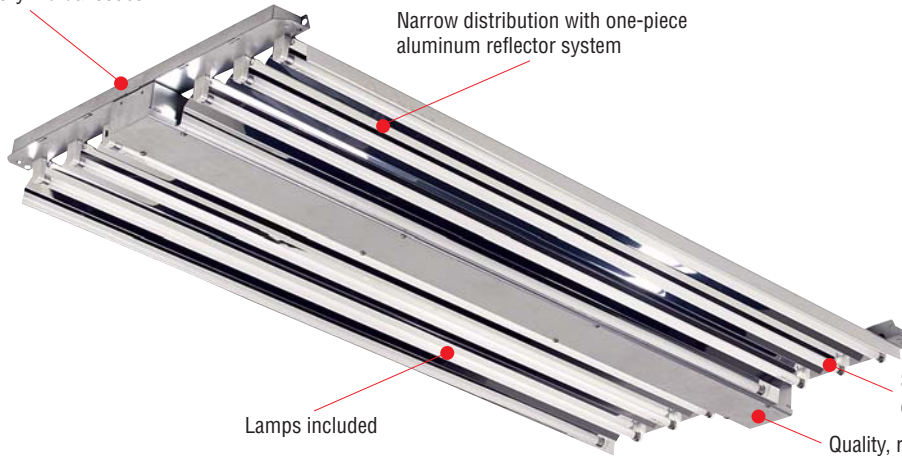
This new fixture is a narrow distribution version of Ruud's 6-lamp H Series Linear Fluorescent High Bay. The HN Series provides Ruud quality construction, ease of installation, long-lasting durability, high-efficiency performance and the energy savings of the H Series at a more economical cost.

In warehouse and industrial applications, this 24-inch wide Linear Fluorescent High Bay does an outstanding job of illuminating aisles and racking at typical 30-foot + mounting heights. Using the HN Series can reduce fixture counts by 20 to 25 percent in a typical aisle application. Consult our Application Engineering Department for assistance when evaluating fixture selection for your application.

The HN Series is suitable for use in applications with sprinkler systems installed in accordance with NFPA 13 or Factory Mutual codes.

24-inch wide design accommodates NFPA and Factory Mutual codes

Narrow distribution with one-piece aluminum reflector system

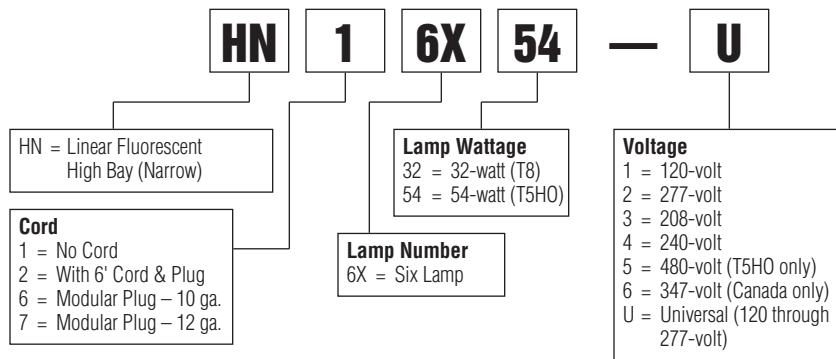


Lamps included

Six-lamp configuration in either T8 or T5HO lamps

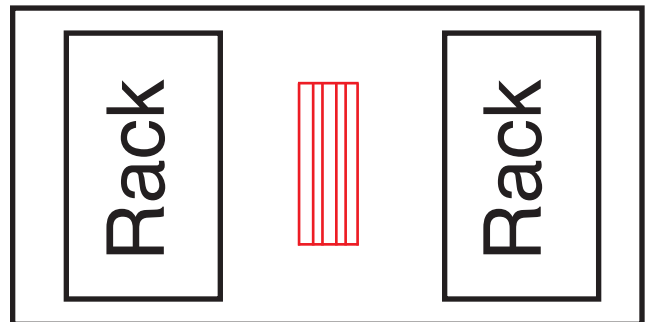
Quality, rugged construction provides durability

Linear Fluorescent–24" Narrow Catalog Number Logic



Ambient Temperature Limits (UL Rating)

Lamp	Standard Product	-EM Option
6 Lamp T5HO	45°C	35°C
6 Lamp T8	40°C	35°C



Mount 24" Narrow Linear Fluorescent High Bay fixtures parallel to aisles



Linear Fluorescent High Bay—24" Narrow

This new fixture is a narrow distribution version of Ruud's 6-lamp H Series Linear Fluorescent High Bay. This low profile fixture is 3.25 inches (83 mm) high and 24 inches (610 mm) wide and has six T5HO or T8 lamps.

Housing

Die-formed galvanized steel ballast housing and cover. Fixture has an access cover for 3/4-inch conduit and wire entry and is configured for hard wiring or cord & plug. Modular wiring is also available.

Ballast

Fixture with T5HO lamps is supplied with programmed-start electronic ballast to optimize lamp life that is Universal 120- through 277-volts. T8 fixture is supplied with a high ballast-factor instant start electronic ballast that is Universal 120- through 277-volts. T8 347-volt fixtures will utilize a normal ballast factor ballast (bF~1.0). Single lamp emergency ballast option available on 120-volt (-1) or 277-volt (-2) only and requires a 4-wire receptacle (Lumens: T5HO 825; T8 700).

Reflectors

This fixture is supplied with high-efficiency specular aluminum reflectors for narrow distribution.

Lamps

Fixture includes six, 54-watt T5HO fluorescent lamps with an 85 CRI and 4100K color temperature (841). The T8 model is supplied with six, 32-watt lamps with 78 CRI and 4100K color temperature (741).

2-Level

Optional 2-Level control is available with an integrated 360° motion sensor and is configurable for "all off" or "partial off" (120- through 277-volt) with external two-way switch. 347-volt supplied pre-wired for "all on/all off"

operation. Time delay is adjustable from 1/2 to 20 minutes. 2-Level not available in 480V. Hard wiring of individual ballasts possible for independent switching.

Mounting

Fixture includes two wire-form hangers. The HN Series fixture can be ordered with our standard 6-foot cord and voltage specific, Locking-Type plug or with our optional EZ Connect® Modular Wiring 10-gauge or 12-gauge cord. The fixture can also be ordered without cord. An access cover is standard for 3/4" conduit and wire entry.

Label

UL Listed in the U.S. and Canada as suitable for use in damp locations. UL elevated ambient temperature rated as follows: 15°C through 45°C (25°C is optimum).

Testing

We subject our fixtures to a series of thermal tests, optimizing their performance and ensuring their longevity. The fixture is tested for proper operation prior to packing.

Shipping

Skid-pack shipping containers of 13 fixtures are available. This makes it easier for you to receive or transport the Linear Fluorescent High Bay and eases your overall job-site coordination.

Order Information

Wattage/ Lamp Type	Catalog Number Without Cord	Catalog Number With Cord & Plug
(6) 54W T5HO	HN16X54-U	HN26X54-(a)
(6) 32W T8	HN16X32-U	HN26X32-(a)

EZ Connect 6' 10 ga. Lighting Tap use H6 prefix

(add "A", "B" or "C" after HN6 to denote phase)

EZ Connect 6' 12 ga. Lighting Tap use HN7 prefix

See pages 96–99 for more information on our EZ Connect Modular Wiring System

Options: (Factory-installed)	Change Suffix To	Add After Suffix
(a) Ballast Choices		
120V	1	
277V	2	
208V	3	
240V	4	
480V (T5HO only)	5	
347V	6	
2-Level (120 – 277V & 347V only)		K
Emergency Ballast (120V & 277V only)	1, 2	EM
85 CRI and 3500K lamps		835
78 CRI and 3500K lamps (T8 only)		735
85 CRI and 4100K lamps		841

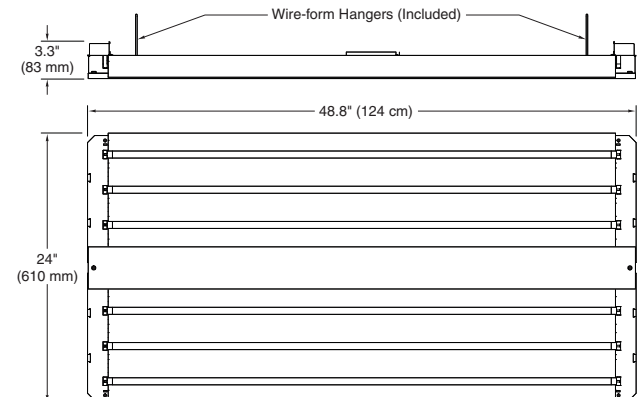
Accessories: (Field-installed)

Description	Catalog Number
Wire Guard	H-WG6N
Locking-type Receptacle	120V L5-15R
	120V (4-wire) L14-20R
	208/240V L6-15R
	277V L7-15R
	277V (4-wire) L16-20R
	347V L37*20R
	480V L8-20R

NOTE: EM option requires 4-wire receptacle

Mounting/Safety Cable with Hang-Fast (5/1.5m) SC-5

Catalog Number Logic/Voltage Suffix Key Page 56



Wet Listed Linear Fluorescent



Our durable HS and HT Series linear fluorescent fixtures safely illuminate wet listed locations for an affordable cost. The 2-lamp, 4-foot HS Series and 4-lamp, 8-foot HT Series linear fluorescent fixtures feature rugged, durable construction and are suitable for low to medium mounting heights where dust, dirt and humidity are present. These fixtures are ideal for canopies, dock areas, refrigerated areas, food processing and any other non-hazardous environment.

Sealed 1/2-inch entry points provided at each end of the housing for continuous feed

One-piece, molded, impact resistant, UV-stabilized, fiberglass-reinforced polyester fixture housing

Poured-in-place polyurethane gasket seals lens from moisture, insect ingress

Injection molded, high impact, UV stabilized, clear polycarbonate diffuser lens

HS Series 4-foot

T8 or T5HO lamps included with fixture

T5HO: Programmed start electronic ballast

T8: High ballast factor, instant start electronic ballast

Cold rolled steel reflector painted high reflectance white

Sealed 1/2-inch entry points provided at each end of the housing for continuous feed

One-piece, molded, impact resistant, UV-stabilized, fiberglass-reinforced polyester fixture housing

Poured-in-place polyurethane gasket seals lens from moisture, insect ingress

Injection molded high impact acrylic

HT Series 8-foot

Wet Listed Linear Fluorescent Catalog Number Logic

HS **1** **4** **V** **2X** **54** — **U**

HS = Slim Design Wet Listed Linear Fluorescent Series
HT = Wet Listed Linear Fluorescent Series

Cord
1 = No Cord
2 = With 6' Cord

Lamp Number
2X = Two Lamp
4X = Four Lamp (8' only)

Lamp Wattage
32 = 32-watt (T8)
54 = 54-watt (T5HO)

Voltage
1 = 120-volt
2 = 277-volt
3 = 208-volt
4 = 240-volt
5 = 480-volt (T5HO only)
6 = 347-volt (Canada only)
U = Universal (120 through 277-volt)

Diffuser
V = Injection Molded UV Stabilized Polycarbonate – Ribbed (4' only)
A = Injection Molded high impact acrylic – Ribbed (8' only)

Housing Length
4 = 4'
8 = 8'





**HS Series
4-foot**

**HT Series
8-foot**

Wet Listed Linear Fluorescent

Ruud Lighting's energy efficient industrial wet listed Linear Fluorescent fixtures are available in 2-lamp, 4-foot Slim Design HS Series and 4-lamp, 8-foot HT Series. Both fixtures feature rugged, durable construction and are suitable for low to medium mounting heights where dust, dirt, humidity or corrosive elements are present. These fixtures are ideal for canopies, dock areas, refrigerated areas, food processing and any other non-hazardous environment. The ballast tray requires no tools to remove for servicing and the retaining clips and two nylon safety straps provide easy hands-free wiring. Each fixture is provided with snap-on mounting brackets that eliminate any need for drilling holes into the top of the housing. These fixtures carry an IP65 rating.

Housing

The housing is a one-piece molded, impact resistant, UV stabilized, fiberglass reinforced polyester, with inverted "U" slot that allows the diffuser to nest tightly. Two 1/2-inch entry points are provided (one at each end of the housing) for continuous feed and are factory sealed with a silicone boot to keep water out.

Ballast

An energy-efficient, thermally-protected, Class P, high-power-factor, electronic ballast is used. The 54W T5HO ballast is programmed start while the 32W T8 ballasts are instant start. 347V T8 fixtures are supplied with a normal ballast factor ballast (bf=1.0). A cold-rolled painted steel ballast tray provides heat dissipation for the ballast. It requires no tools to remove for servicing and the ballast tray retaining clips and two nylon safety straps provide easy hands-free wiring.

Reflector and Lens

This fixture features a cold-rolled steel reflector painted high-reflectance white for improved optical performance. The diffuser lens of the HS Series is injection-molded, high-impact, UV-stabilized, clear polycarbonate secured with polycarbonate cam latches. The HT Series diffuser lens is made of injection-molded, high-impact acrylic

and secured with polycarbonate cam latches. Optional stainless steel latches are also available.

Lamps

Each fixture includes either two (HS Series) or four (HT Series) 54-watt T5HO fluorescent lamps with an 85 CRI and 4100K color temperature or two (HS Series) or four (HT Series) T8 32-watt lamps with 78 CRI and 4100K color temperature.

Mounting

Each fixture is provided with two snap-on mounting brackets that eliminate the need for drilling holes into the top of the housing. Alternatively, a fixture can be mounted directly to the ceiling by drilling two holes in the top of the housing. (Mounting hardware is supplied by others.) The HS1 Series is provided with factory-installed cast aluminum hub with 1/2-inch threaded conduit entry. The HS2 Series is provided with 6' of SEOW 3 conductor cord (#18AWG) factory installed and wired through one of the end openings.

Label

UL Listed in the U.S. and Canada as suitable for use in wet locations. Suitable for use in 35°C maximum ambient temperature and in refrigerated areas (0°F/-18°C) if operated continuously.

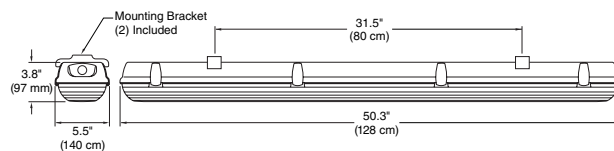
Order Information

Wattage/ Lamp Type	Catalog Number Without Cord	Catalog Number With Cord & Plug
(2) 54W T5HO 4'	HS14V2X54-U	HS24V2X54-U
(2) 32W T8 4'	HS14V2X32-U	HS24V2X32-U
(4) 54W T5HO 8'	HT18A4X54-U	HT28A4X54-U
(4) 32W T8 8'	HT18A4X32-U	HT28A4X32-U

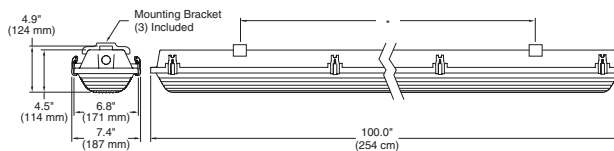
Options: (Factory-installed)	Change Suffix To	Add After Suffix
(a) Ballast Choices		
120V	1	
277V	2	
208V	3	
240V	4	
480V (T5HO only)	5	
347V (T5HO only)	6	
85 CRI and 3500K lamps		835
78 CRI and 3500K lamps (T8 only)		735
85 CRI and 4100K lamps		841
Individual Lamp Switching		B
Stainless Steel Latches		S
Fuse		F

Accessories: (Field-installed)	Catalog Number
Wet Location Fitting (1/2" conduit entry) (HS Series)	HS-WLF1/2
Aircraft Cable Mounting Kit (HS Series)	HS-ACMTK5
<i>(Includes two 5' aircraft cables and two bail hooks. Order 1 per 4' fixture)</i>	
Aircraft Cable Mounting Kit (HT Series)	HT-ACMTK5
<i>(Includes 3-5' aircraft cables and 3 bail hooks. Order one kit per 8' fixture)</i>	

Catalog Number Logic/Voltage Suffix Key Page 58



**HS Series
4-foot**



**HT Series
8-foot**

* Variable spacing to meet mounting surface needs

EZ Bay Plus Series

Performance and design are very important in all of our products. We create elegant and well-executed designs that maintain the high level of quality and performance you've come to expect from Ruud Lighting. We're also dedicated to continuous improvement of our products. That's why we've taken our high-quality Die-Cast Series and EZ Bay® Series families of High and Low Bay industrial ballast housings and improved their performance and longevity in a redesigned next-generation die-cast industrial housing called the EZ Bay Plus™.

This new housing design is even more efficient with exceptional performance that makes our High and Low Bay fixtures an excellent choice for a wide range of commercial and retail applications. In addition, the housing's more robust construction ensures years of worry-free service. The new EZ Bay Plus replaces all of the existing industrial series HID housings and it is compatible with all existing optical configurations and current options and accessories.

Hook, Cord and Plug or Hinged Splice Box for easy installation and maintenance

The hinged splice box is now even roomier to ease wiring access during installation. The box has two 3/4-inch and six 1/2-inch conduit knockouts on the sides and one 3/4-inch knockout and mounting holes for common junction boxes on the top.

Thermal chimney isolates ballast from capacitor and ignitor for longer life

Aluminum die-cast housing

High-power-factor, constant-wattage, autotransformer (CWA) ballast

4kv-rated porcelain lamp socket

Standard fixed medium distribution reflector mounting with optional adjustable neck housing for narrow to wide optical distributions (standard on 750 and 1000W)

HID lamp supplied with every fixture

Choice of nine reflector systems

Non-standard reduced envelope lamp not required



**IAP Series
Typical Cutaway**



Housing

The factor that most seriously affects the life of a luminaire's electrical components is heat. Ruud® housings are constructed from die-cast aluminum, which allows greater heat dissipation. The most significant housing design characteristic is the built-in thermal venting chimney. Cast into the housing, this chimney physically separates the ballast from the more heat sensitive capacitor and ignitor, and allows air to circulate and cool the electrical components. This patent-pending design feature prolongs the life of the ballast assembly and allows operation of Ruud fixtures in higher ambient temperatures.

Mounting Options

Hook, Cord & Plug (HCP) and Hinged Splice Box (HSB) for easy installation and maintenance. HSB mount features a larger wiring chamber with better

visibility. HCP mounts feature a quick-connect hook with retainer spring, a white 30" (762 mm) cord.

Reflector system

Whether it's a high-mount or low-mount fixture with a pulse start metal halide, metal halide or high pressure sodium lamp, all of our reflectors are designed for effective brightness control and high efficiency. Our reflector efficiencies are as high as 96 percent and generally above 80 percent.

To provide quick and easy field changes to light distribution patterns, many Ruud die-cast high-mount fixtures are available with optional adjustable lamp sockets. This offers great flexibility for narrow to wide distribution applications. Spacing criteria can range from less than 1:1 to more than 2:1.

Lamps

All Ruud High and Low Bay lights are priced and shipped complete with your choice of pulse start metal halide (PSMH), metal halide (MH) or high pressure sodium (HPS) lamps.

Testing and Certification

Ruud Lighting, like most manufacturers, invests a lot of time and money to obtain UL listings. While these labels indicate a product is in compliance with basic safety requirements, they do not guarantee exceptional lighting performance. To arrive at the optimum performance level, we contract with independent photometric laboratories to test all of our fixtures' optical systems.

We also subject all of our fixtures to a series of thermal tests to optimize the design and ensure product longevity. After the product is manufactured, it is computer tested. The electrical

characteristics of each fixture are verified before it is packaged and shipped.

Ballasts

Only the highest-quality, high-power-factor, constant wattage, energy-efficient ballasts find their way into Ruud fixtures. They are available in most voltages for 60Hz. In the U.S., ballast options include 120, 208, 240, 277 or 480 volts. In Canada, ballast options include 120, 277 and 347 volts.

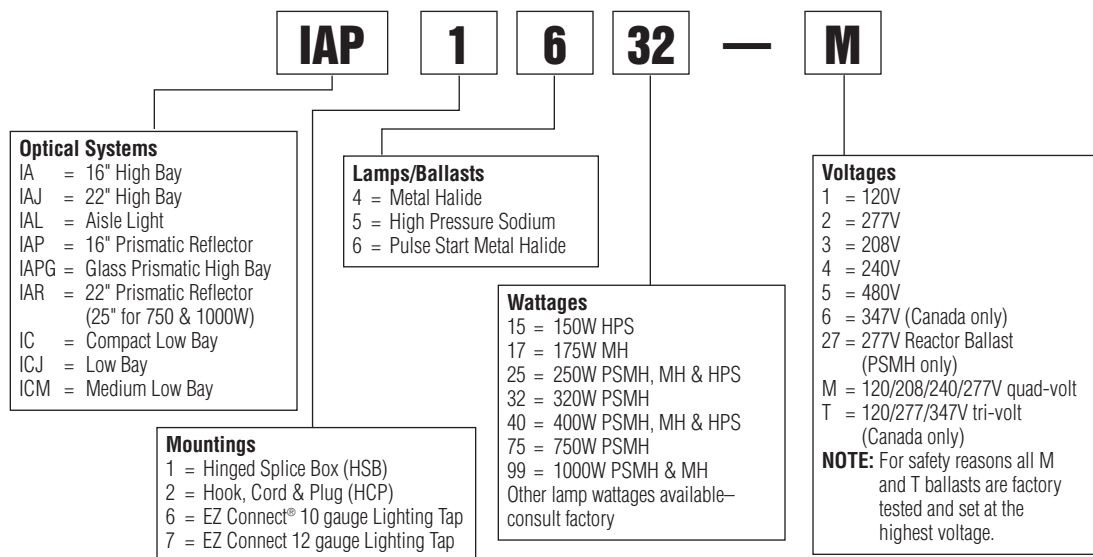
Shipping

Our new revised Skid-pack shipping containers for bulk packing make it easier for you to receive or transport the luminaires and eases your overall job-site coordination efforts. Each Skid-pack includes up to 24 sets of reflectors, lamps and ballast housings in a palletized package. All individual cartons on Skid-pack can be handled separately by a single person/installer.

EZ Bay Plus™ Series Catalog Number Logic

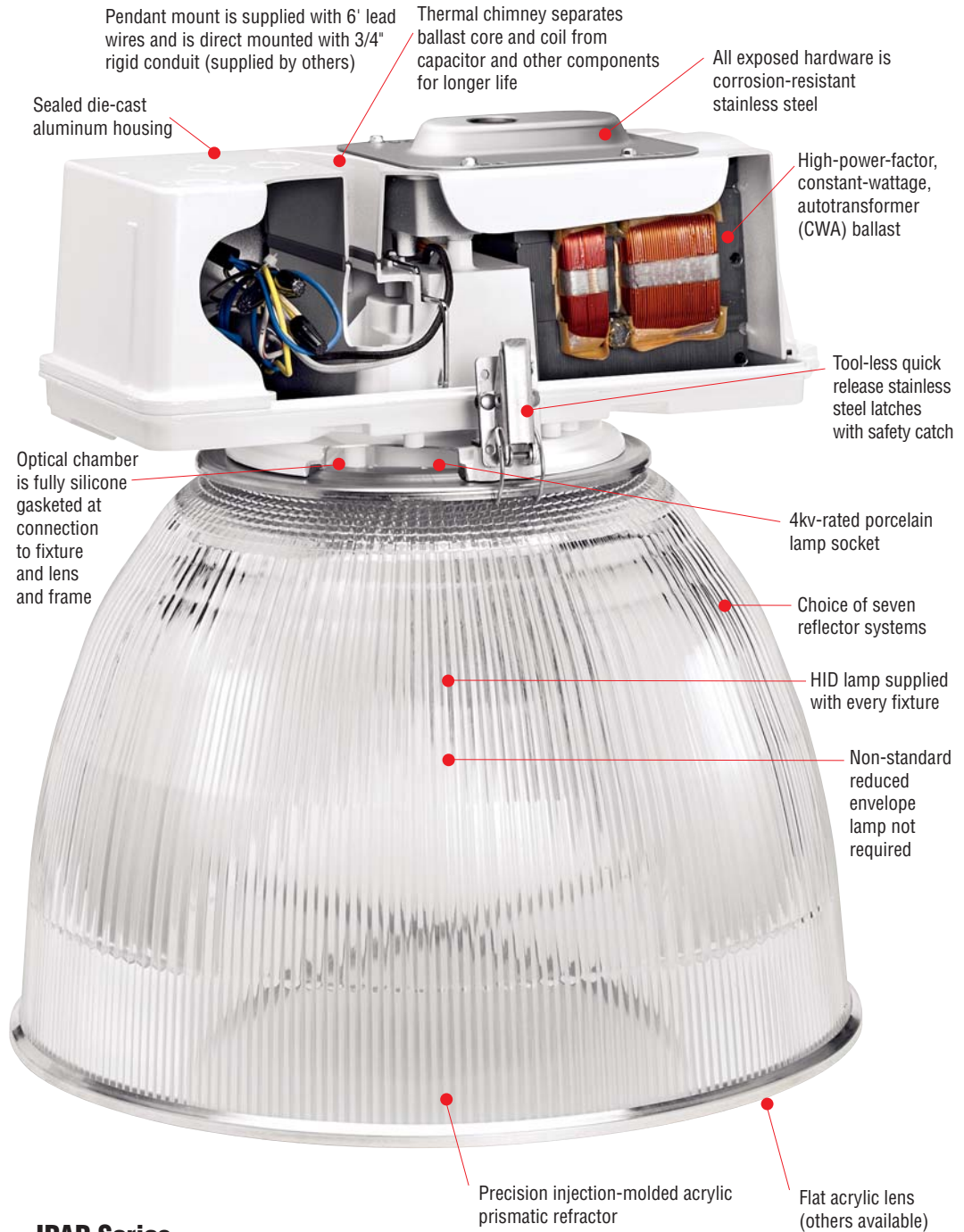
NOTE: See product pages for availability

Example shows a 16" Prismatic Reflector with Hinged Splice Box mount, 320W PSMH lamp and CWA Ballast.



EZ Bay Plus IP65-Rated Series

The new optional IP65-rated EZ Bay Plus™ next-generation die-cast industrial housing for High and Low Bay industrial luminaires features improved performance and longevity. The housing's more robust construction ensures years of worry-free service. This new IP65-rated housing design is even more efficient with exceptional performance that makes our High and Low Bay fixtures an excellent choice for a wide range of applications. The IP65-rated IA Series fixtures are ideal for illuminating produce-storage centers, warehouses, dairy barns and other commercial locations, including refrigeration zones, areas where misting occurs regularly, or those with dust infiltration. The IP65 fixtures are suitable for environments with heavy spray-downs.



**IPAP Series
Typical Cutaway**



Housing

The sturdy, sealed die-cast aluminum housing, which encloses the electrical components, is our new EZ Bay Plus Series housing. The new housing is more efficient with more robust construction for improved performance and longevity. All exposed hardware is made of corrosion-resistant stainless steel.

Mounting Options

Eyebolt and Cord includes heavy-duty steel eyebolt standard 30" (610 mm) white cord (plug by others). Fixed Pendant mount includes 6' lead wires and is direct mounted to housing with 3/4" rigid conduit (by others).

Reflector Systems

The IP65-rated fixture reflectors are adapted from the IA, IAJ, IAP, IAR, IC, ICJ and ICM products. The reflectors are totally enclosed with full silicone gasketing at connection to fixture and between lens and frame. The reflector is held to the ballast compartment with tool-less quick release stainless steel latches with safety catch. Drop prismatic refractors are precision injection-molded acrylic. Flat acrylic and glass lenses are available on some fixtures.

Lamps

All Ruud® High and Low Bay fixtures are priced and shipped complete with your choice of pulse start metal halide (PSMH), metal halide (MH) or high pressure sodium (HPS) lamps in wattages from 150 to 400.

Ballasts

We use high-quality, high-power-factor ballasts. Constant-wattage autotransformer (CWA) ballasts are available for all Wet-Listed Low Bay fixtures regardless of voltage or lamp type. In the U.S., ballast options include 120, 208, 240, 277 or 480 volts. In Canada, ballast options include 120, 277 and 347 volts.

Testing and Certification

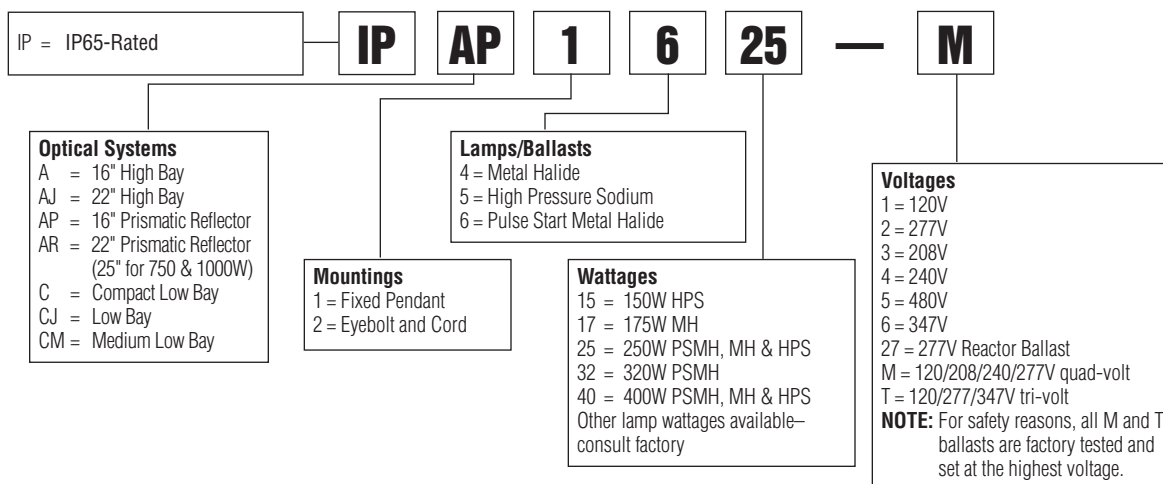
Ruud Lighting, like most manufacturers, invests a lot of time and money to obtain UL listings. While these labels indicate a product is in compliance with basic safety requirements, they do not guarantee exceptional lighting performance. To arrive at the optimum performance level, we contract with independent photometric laboratories to test all of our fixtures' optical systems.

We also subject all of our fixtures to a series of thermal tests to optimize the design and ensure product longevity. After the product is manufactured, it is computer tested. The electrical characteristics of each fixture are verified before it is packaged and shipped.

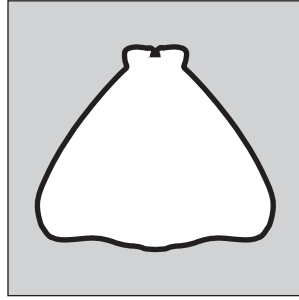
IP65-Rated EZ Bay Plus™ Series Catalog Number Logic

NOTE: See product pages for availability.

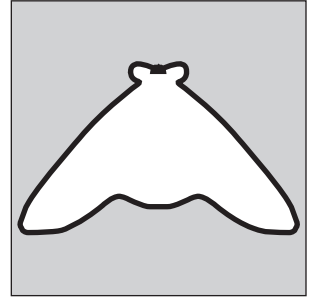
Example shows a 16" Prismatic Reflector with Fixed Pendant mount, 250W PSMH lamp and CWA Ballast.



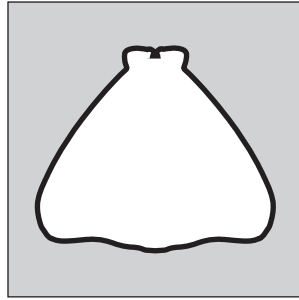
High Bay Optical Systems



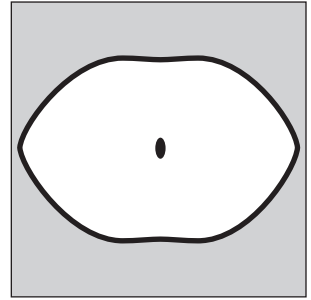
Acrylic Prismatic 16" IAP Series (Page 66)



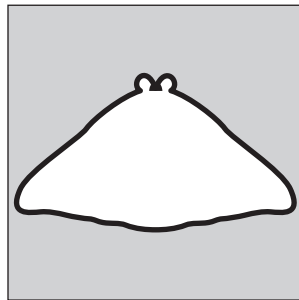
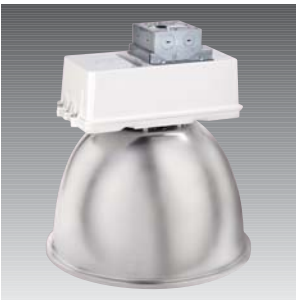
Acrylic Prismatic 22" IAR Series (Page 70)



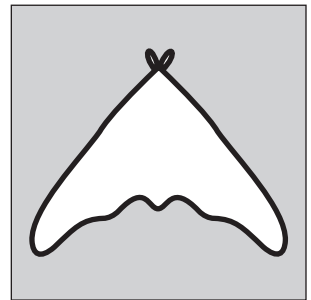
Glass Prismatic 16" IAPG Series (Page 68)



Aisle Light IAL Series (Page 78)

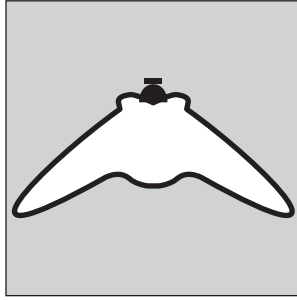


Aluminum Reflector 16" IA Series (Page 72)

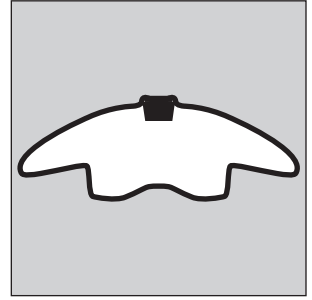


Aluminum Reflector 22" IAJ Series (Page 74)

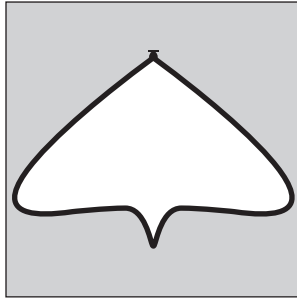
Low Bay Optical Systems



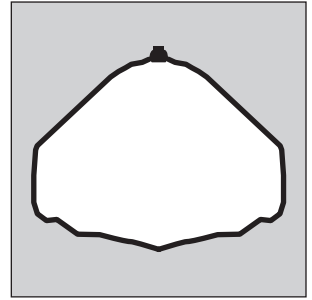
Prismatic Reflector 12" FP Series (Page 87)



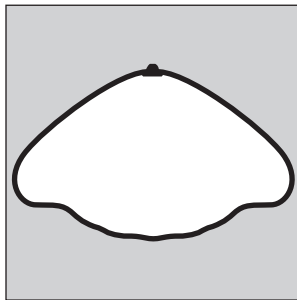
Mini Refractor 9.75" F Series (Page 88)



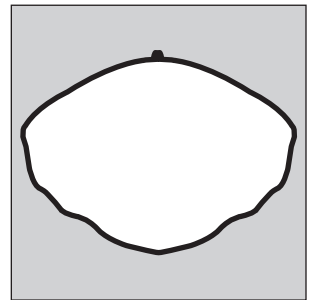
Aluminum Reflector 8.7" D Series (Page 89)



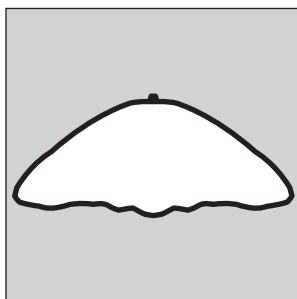
Aluminum Reflector 16" FC Series (Page 86)



Aluminum Reflector 22" ICM Series (Page 82)



Aluminum Reflector 16" IC Series (Page 80)



Aluminum Reflector 28" ICJ Series (Page 84)

Lamp Included!



IAP Series

16" Prismatic Reflector

Reflector

The IAP Series reflector measures 16.2 inches in diameter. The clear, acrylic prismatic reflector provides more than 90 percent efficiency and approximately 15 percent uplight. All enclosed rated lamps are standard with a clear, flat acrylic lens enclosure. Optional adjustable steel neck housing holds the reflector to the ballast housing and provides multiple socket positions for wide to narrow distributions. Fixture should not be used in an environment where any concentrations of industrial cutting fluids are used.

Wet-Listed Fixture Option

Optional wet-listed IP65-rated fixture housing and lens frame is fully silicone gasketed. Fixture includes flat acrylic lens. Optic can be opened with tool-less, quick release latches. All exposed hardware is stainless steel. 250 watts max.

Ballast

The sturdy, die-cast aluminum housing, which encloses the electrical components, is our new EZ Bay Plus Series housing. A thermal chimney separates the ballast core and coil from the capacitor and other components and allows socket heat to escape fixture, thereby extending their useful life. High-power-factor, constant-wattage auto-transformer ballast options are available in 120, 208, 240, 277, 347 or 480 volts.

High-power-factor CWA quad-volt (120/208/240/277V) or CWA tri-volt (120/277/347V) ballasts are standard with HSB Mount.

Lamps

Fixture includes mogul-base lamp; coated for PSMH and MH, clear for HPS. Available in 250, 320 or 400W open-rated PSMH; 175, 250 or 400W MH; 150, 250 or 400W HPS. Fixtures supplied with pulse start system (PSMH) feature open-rated lamps and open-rated sockets. Non-open-rated lamps and sockets supplied when ordering luminaires with MH and a bottom enclosure. **NOTE:** Do not use any enclosure with any wattage higher than 250 watts.

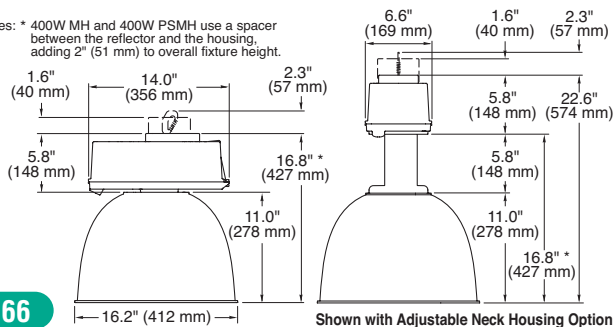
Mountings

Hinged Splice Box (HSB); (Fixed Pendant mount for IP65); Hook, Cord & Plug (HCP); (Eyebolt and Cord mount for IP65). Refer to page 90 for more information. See pages 96–99 for more information on our EZ Connect® Modular Wiring System.

Labels

UL Listed in U.S. and Canada for damp and wet (IP65-rated fixture option) locations and for a minimum elevated ambient temperature of 40°C; most wattages higher – See Technical Data Sheet TD-12 on our web site.

Notes: * 400W MH and 400W PSMH use a spacer between the reflector and the housing, adding 2" (51 mm) to overall fixture height.



Shown with Adjustable Neck Housing Option

Order Information

Wattage/ Lamp Type	Catalog Number HSB Mount	Catalog Number HCP Mount
250W PSMH	IAP1625-MO	IAP2625-(a)O
320W PSMH	IAP1632-MO	IAP2632-(a)O
400W PSMH	IAP1640-MO	IAP2640-(a)O
175W MH	IAP1417-ME	IAP2417-(a)E
250W MH	IAP1425-ME	IAP2425-(a)E
400W MH	IAP1440-M	IAP2440-(a)
150W HPS	IAP1515-M	IAP2515-(a)
250W HPS	IAP1525-M	IAP2525-(a)
400W HPS	IAP1540-M	IAP2540-(a)

For Wet-Listed IP65 option use IP prefix to replace I and add E lens suffix.

Example: IPAP1625-ME

**S-rated lamp—specify Open-rated lamp if required (see Options)

ED28 reduced envelope lamp standard on 320W PSMH

Other lamp wattages available—consult factory

EZ Connect 10 ga. Lighting Tap use IAP6 prefix

(add "A", "B" or "C" after IAP6 to denote phase).

EZ Connect 12 ga. Lighting Tap use IAP7 prefix

See pages 96–99 for more information on our EZ Connect Modular Wiring System

(n/a on IP65-rated fixtures)

Options: (Factory-installed)	Change Suffix To	Add After Suffix
------------------------------	---------------------	---------------------

Ballast choices for Hinged Splice Box (HSB) models

277V Reactor Ballast (PSMH only)	27	
480V	5	
Tri-volt (120/277/347V)	T	

(a) Ballast choices for Hook, Cord & Plug (HCP) models

277V Reactor Ballast (PSMH only)	27	
120V, 277V, 208V, 240V or 480V	1, 2, 3, 4 or 5	
347V	6	

Prismatic Drop Acrylic Lens (250W HPS max.) (IP65 fixture option) (n/a with "W") † A

Prismatic Drop Acrylic Lens (175 & 250W MH only) (n/a with "W") change "E" to "A"

Prismatic Drop Acrylic Lens (250W PSMH max.) (n/a with "W") change "O" to "A"

Flat Acrylic Lens (standard on 175 & 250W MH and IP65 fixtures) (250W HPS max.) † E

Flat Acrylic Lens (PSMH) change "O" to "E"

Conical Acrylic Drop Lens (250W HPS max.) (IP65 fixture option) (n/a with "W") † Y

Conical Acrylic Drop Lens (175 & 250W MH only) (n/a with "W") change "E" to "Y"

Conical Acrylic Drop Lens (250W PSMH max.) (n/a with "W") change "O" to "Y"

Single Fuse (277V Reactor, 120V, 277V or 347V)	27, 1, 2 or 6	F
Dual Fuse (208V, 240V or 480V) (n/a Canada)	3, 4 or 5	F
2-Level (120V or 277V) †	1 or 2	G
2-Level Integrated Sensor (250, 320 & 400W PSMH, 250 & 400W MH)	1, 2, 3, 4, 5 or 6	K

Adjustable Neck Housing N

Open-rated Lamp (standard on PSMH) (400W MH only) O

Optical Chamber Air Filter (250W max) (use only with "A", "E" or "Y") B

Quartz Standby (delay-relay type) (includes 100W Q lamp) (n/a 277V Reactor) † Q

Wire Guard (use only with "E" lens) (see Accessories for fixture with no lens) W

Accessories: (Field-installed)

Description	120V	Catalog #
Locking-type Receptacle	120V	L5-15R
	120V 2-Level	L14-20R
	208/240V	L6-15R
	277V	L7-15R
	277V 2-Level	L16-20R
	347V	L37*20R
	480V	L8-20R

Power Hook (for use with HCP mount) PH-(a) (1, 2, 3, 4 or 5)

(120V, 277V, 208V, 240V or 480V)

Power Hook (for use with 2-Level & HCP mount) (120V or 277V) PH-(a) (1G or 2G)

Power Hook (for use with HCP mount) PH*6

NOTE: Specify PH-2 for 277V Reactor

Safety Cable with Hang-Fast (5/1.5 m) † SC-5

Wire Guard (for fixture with no lens) WG-AP

Wire Guard with Relamp Opening (for fixture with no lens) WG-AP/OC

† Available for use on IP65 fixtures.

Catalog Number Logic/Voltage Suffix Key	Page 61
Mountings, Options & Accessories	Pages 90–91
2-Level Option (250, 320 or 400W PSMH, 250 or 400W MH)	Pages 92–95
EZ Connect Modular Wiring System	Pages 96–99

16" Prismatic Reflector

Metal Halide

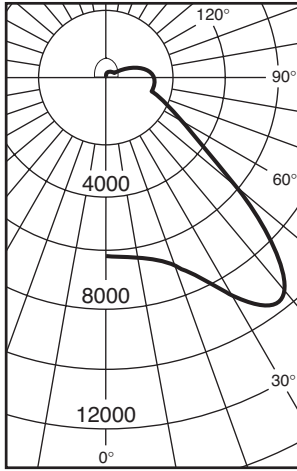
Lamp: 400 Watt (Coated) – 36,000 lumens

Lens: None

Socket Position: Medium

Test Distance: 26' (8 m)

Certified Test Report: Lighting Sciences Inc. No. LSI 11408



Efficiency: 90.9% SC = 1.7
S/MH = 2.0

Angle	Mean CP	Lumens
0	6213	
5	6343	607
15	6664	1907
25	7541	3543
35	9389	5802
45	8643	6389
55	3872	3677
65	1863	1954
75	1500	1604
85	1537	1674
95	1524	1651
105	1352	1423
115	1081	1066
125	729	658
135	455	366
145	404	253
155	288	130
165	53	22
175	20	2
180	14	

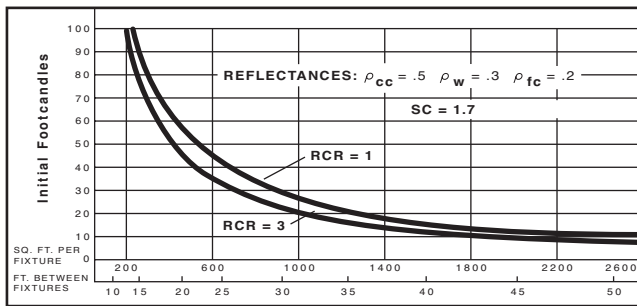
Zone	Lumens	%Lamp	%Fixture
0-30	6056	16.82	18.51
0-40	11858	32.94	36.23
0-60	21924	60.90	66.99
0-90	27155	75.43	82.98
40-90	15297	42.49	46.74
60-90	5231	14.53	15.98
90-180	5571	15.48	17.02
0-180	32727	90.91	100.00

Angle	CD/SQ M
45°	73528
55°	33301
65°	16713
75°	14531
85°	16728

Coefficients of Utilization

Effective Floor Cavity Reflectance = .20

CC	80				70				50				30				10			
	WALL	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10		
RCR	0	1.05	1.05	1.05	1.05	1.00	1.00	1.00	1.00	0.92	0.92	0.92	0.85	0.85	0.85	0.79	0.79	0.79		
	1	0.95	0.91	0.87	0.83	0.91	0.87	0.84	0.80	0.80	0.78	0.75	0.74	0.72	0.70	0.69	0.67	0.65		
2	0.87	0.80	0.74	0.69	0.84	0.77	0.72	0.67	0.71	0.67	0.63	0.66	0.63	0.60	0.61	0.59	0.56			
3	0.80	0.71	0.64	0.58	0.76	0.68	0.62	0.57	0.64	0.58	0.54	0.59	0.55	0.51	0.55	0.51	0.48			
4	0.74	0.63	0.56	0.50	0.70	0.61	0.55	0.49	0.57	0.51	0.47	0.53	0.48	0.45	0.50	0.46	0.42			
5	0.68	0.57	0.49	0.43	0.65	0.55	0.47	0.42	0.51	0.45	0.40	0.48	0.43	0.39	0.45	0.40	0.37			
6	0.62	0.50	0.43	0.37	0.59	0.49	0.42	0.36	0.46	0.39	0.35	0.43	0.37	0.33	0.40	0.35	0.32			
7	0.57	0.45	0.37	0.32	0.54	0.43	0.36	0.31	0.41	0.34	0.30	0.38	0.32	0.28	0.36	0.31	0.27			
8	0.52	0.40	0.32	0.27	0.50	0.39	0.32	0.27	0.36	0.30	0.26	0.34	0.29	0.25	0.32	0.27	0.24			
9	0.48	0.36	0.28	0.23	0.46	0.35	0.28	0.23	0.32	0.26	0.22	0.30	0.25	0.21	0.29	0.24	0.20			
10	0.44	0.32	0.25	0.20	0.42	0.31	0.24	0.20	0.29	0.23	0.19	0.27	0.22	0.18	0.26	0.21	0.17			



Quick Calculator:

Use this chart to determine the number and spacing of 16" Prismatic Reflector lights with 36,000 lumens, phosphor-coated 400W MH lamp and socket in MEDIUM distribution position. Determine number and spacing for other wattages by using these multipliers:

175W MH 0.389 250W MH 0.57 400W MH* 1.11

*40,000 lumen "Super" 400W MH

Lamp Included!



IAPG Series

Glass Prismatic High Bay

Glass Prismatic Reflector

The high-performance optics of our Glass Prismatic Reflector luminaires are suited for a wide variety of applications where heavy concentration of industrial cutting fluids are used as well as commercial or retail applications. Especially effective in areas with light color ceilings, the product's upright light reduces the "dark cavity effect" commonly found in other fixtures. A space illuminated by a Ruud® Prismatic Reflector appears larger than when illuminated by a conventional high bay.

Reflector

The IAPG Series glass reflector measures 15.3 inches in diameter. The clear, glass prismatic reflector provides more than 90 percent efficiency and approximately 15 percent uplight. The 175- and 250-watt MH fixtures are standard with a glass lens enclosure.

Ballast

The sturdy, die-cast aluminum housing, which encloses the electrical components, is our new EZ Bay Plus Series housing. A thermal chimney separates the ballast core and coil from the capacitor and other components and allows socket heat to escape fixture,

thereby extending their useful life. High-power-factor, constant-wattage auto-transformer ballast options are available in 120, 208, 240, 277, 347 or 480 volts. High-power-factor CWA quad-volt (120/208/240/277V) or CWA tri-volt (120/277/347V) ballasts are standard with HSB Mount.

Lamps

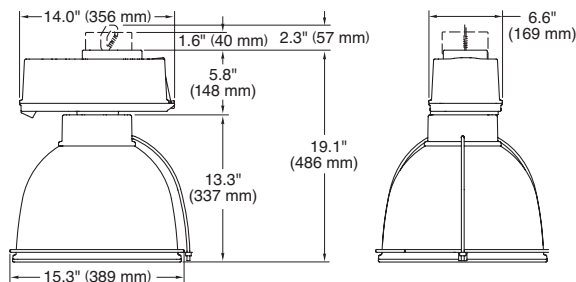
Fixture includes mogul-base lamp; coated for PSMH and MH, clear for HPS. Available in 250, 320 or 400W open-rated PSMH; 175, 250 or 400W MH; 150, 250 or 400W HPS. Fixtures supplied with pulse start system (PSMH) feature open-rated lamps and open-rated sockets.

Mountings

Hinged Splice Box (HSB); Hook, Cord & Plug (HCP). Refer to page 90 for more information. See pages 96–99 for more information on our EZ Connect® Modular Wiring System.

Labels

UL Listed in U.S. and Canada for damp locations and for a minimum elevated ambient temperature of 50°C; most wattages higher – See Technical Data Sheet TD-12 on our web site.



Order Information

Wattage/ Lamp Type	Catalog Number HSB Mount	Catalog Number HCP Mount
250W PSMH	IAPG1625-MO	IAPG2625-(a)O
320W PSMH	IAPG1632-MO	IAPG2632-(a)O
400W PSMH	IAPG1640-MO	IAPG2640-(a)O
175W MH	IAPG1417-ME	IAPG2417-(a)E
250W MH	IAPG1425-ME	IAPG2425-(a)E
400W MH	IAPG1440-M	IAPG2440-(a)E
150W HPS	IAPG1515-M	IAPG2515-(a)
250W HPS	IAPG1525-M	IAPG2525-(a)
400W HPS	IAPG1540-M	IAPG2540-(a)

ED28 reduced envelope lamp standard on 320W PSMH

Other lamp wattages available—consult factory

EZ Connect 10 ga. Lighting Tap use IAPG6 prefix

(add "A", "B" or "C" after IAPG6 to denote phase).

EZ Connect 12 ga. Lighting Tap use IAPG7 prefix

See pages 96–99 for more information on our EZ Connect Modular Wiring System

Options: (Factory-installed)	Change Suffix To	Add After Suffix
Description		
Ballast choices for Hinged Splice Box (HSB) models		
277V Reactor Ballast (PSMH only)	27	
480V	5	
Tri-volt (120/277/347V)	T	

(a) Ballast choices for Hook, Cord & Plug (HCP) models

277V Reactor Ballast (PSMH only)	27	
120V, 277V, 208V, 240V or 480V	1, 2, 3, 4 or 5	
347V	6	
Clear Flat Glass Lens (Standard on 175 & 250W MH)		E
Clear Flat Glass Lens (PSMH only)		change "O" to "E"
Single Fuse (277V Reactor, 120V, 277V or 347V)	27, 1, 2 or 6	F
Dual Fuse (208V, 240V or 480V) (n/a Canada)	3, 4 or 5	F
2-Level (120V or 277V)	1 or 2	G
(250, 320, or 400W PSMH, 250 or 400W MH) (consult factory for other voltages)		
2-Level Integrated Sensor	1, 2, 3, 4, 5 or 6	K
(250, 320, or 400W PSMH, 250 or 400W MH)		
Open-rated Lamp (standard on 250-400W PSMH)		O
Quartz Standby (delay-relay type) (includes 100W Q lamp) (n/a 277V Reactor)		Q

Accessories: (Field-installed)

Description	Catalog #
Locking-type Receptacle	120V L5-15R
	120V 2-Level L14-20R
	208/240V L6-15R
	277V L7-15R
	277V 2-Level L16-20R
	347V L37*20R
	480V L8-20R

Power Hook (for use with HCP mount) PH-(a) (1, 2, 3, 4 or 5)

(120V, 277V, 208V, 240V or 480V)

Power Hook (for use with 2-Level & HCP mount) (120V or 277V) PH-(a) (1G or 2G)

Power Hook (for use with HCP mount) PH*6

NOTE: Specify PH-2 for 277V Reactor

Safety Cable with Hang-Fast (5'/1.5 m) (standard) SC-5

Catalog Number Logic/Voltage Suffix Key	Page 61
Mountings, Options & Accessories	Pages 90–91
2-Level Option (250, 320 or 400W PSMH, 250 or 400W MH)	Pages 92–95
EZ Connect Modular Wiring System	Pages 96–99

Glass Prismatic High Bay

Pulse Start Metal Halide

Lamp: 400 Watt (Coated) – 40,000 lumens

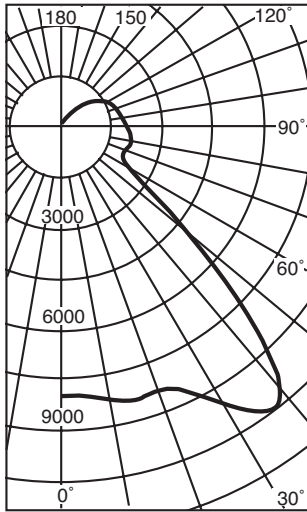
Lens: None

Socket Position: Medium

Test Distance: 26' (8 m)

Certified Test Report:

Lighting Sciences Inc. No. LSI 17962



Efficiency = 92.6%; SC = 1.5; S/MH = 1.8

Candlepower Summary

Angle	Mean CP	Lumens
0	8016	
5	8081	791
15	8464	2383
25	8675	4075
35	10323	6366
45	7748	5889
55	3208	3021
65	2039	2073
75	2131	2239
85	2079	2260
95	1894	2070
105	1779	1880
115	1638	1616
125	1327	1189
135	910	708
145	491	318
155	232	114
165	138	41
175	127	12
180	134	

Zonal Lumens and Percentages

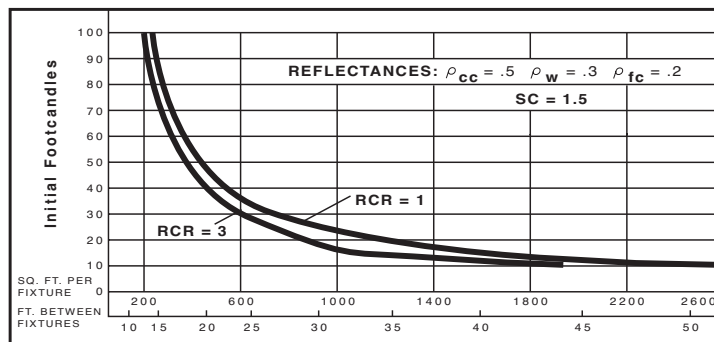
Zone	Lumens	% Lamp	% Fixture
0-30	7248	18.12	19.57
0-40	13613	34.03	36.75
0-60	22523	56.31	60.80
0-90	29095	72.74	78.55
40-90	15481	38.70	41.79
60-90	6571	16.43	17.74
90-180	7947	19.87	21.45
0-180	37042	92.61	100.00

Angle	Cd/sq. m
45°	79294
55°	32685
65°	21325
75°	23629
85°	25345

Coefficients of Utilization

Effective Floor Cavity Reflectance = 0.20

CC	80				70				50				30				10			
	WALL	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10		
RCR	0	1.06	1.06	1.06	1.06	1.01	1.01	1.01	1.01	0.92	0.92	0.92	0.84	0.84	0.84	0.76	0.76	0.76		
	1	0.95	0.91	0.87	0.83	0.91	0.87	0.83	0.79	0.79	0.76	0.74	0.72	0.70	0.68	0.66	0.64	0.62		
2	0	0.87	0.80	0.74	0.69	0.83	0.77	0.71	0.66	0.70	0.66	0.62	0.64	0.61	0.58	0.59	0.56	0.53		
	3	0.80	0.71	0.64	0.58	0.76	0.68	0.62	0.56	0.63	0.57	0.53	0.57	0.53	0.50	0.53	0.49	0.46		
	4	0.74	0.64	0.56	0.50	0.71	0.61	0.54	0.49	0.56	0.51	0.46	0.52	0.47	0.44	0.48	0.44	0.41		
5	0	0.68	0.57	0.49	0.44	0.65	0.55	0.48	0.42	0.51	0.45	0.40	0.47	0.42	0.38	0.43	0.39	0.36		
	6	0.63	0.51	0.44	0.38	0.60	0.49	0.42	0.37	0.46	0.40	0.35	0.42	0.37	0.33	0.39	0.35	0.31		
	7	0.58	0.46	0.38	0.33	0.55	0.44	0.37	0.32	0.41	0.35	0.31	0.38	0.33	0.29	0.35	0.31	0.27		
8	0	0.53	0.41	0.34	0.29	0.51	0.40	0.33	0.28	0.37	0.31	0.27	0.35	0.29	0.25	0.32	0.27	0.24		
	9	0.49	0.37	0.30	0.25	0.47	0.36	0.29	0.24	0.33	0.27	0.23	0.31	0.26	0.22	0.29	0.24	0.21		
	10	0.45	0.34	0.26	0.22	0.44	0.32	0.26	0.21	0.30	0.24	0.20	0.28	0.23	0.19	0.26	0.21	0.18		



QUICK CALCULATOR: Use this chart to determine the number and spacing of Glass Prismatic Reflector lights with 40,000 lumen, phosphor-coated 400W PSMH lamp and socket in MEDIUM distribution position. Determine number and spacing for other wattages by using these multipliers:

250W PSMH	0.57	350W PSMH	0.84
320W PSMH	0.77	400W MH	0.85

Lamp Included!



IAR Series

22" Prismatic Reflector

Reflector

The AR Series reflector measures 22.4 or 25 (750 & 1000W) inches in diameter. The clear, prismatic acrylic reflector provides more than 90 percent efficiency and approximately 15 percent uplight. The 250-watt MH fixture is standard with a clear, flat acrylic lens enclosure. Fixture should not be used in an environment where any concentrations of industrial cutting fluids are used. Optional adjustable steel neck housing holds the reflector to the ballast housing and provides multiple socket positions for wide to narrow distributions (standard on wattages 750 or greater).

Wet-Listed Fixture Option

Optional wet-listed IP65-rated fixture housing and lens frame is fully silicone gasketed. Fixture includes flat acrylic lens. Optic can be opened with tool-less, quick release latches. All exposed hardware is stainless steel. 400 watts max.

Ballast

The sturdy, die-cast aluminum housing, which encloses the electrical components, is our new EZ Bay Plus Series housing. A thermal chimney separates the ballast core and coil from the capacitor and other components and allows socket heat to escape fixture,

thereby extending their useful life. High-power-factor, constant-wattage auto-transformer ballast options are available in 120, 208, 240, 277, 347 or 480 volts. High-power-factor CWA quad-volt (120/208/240/277V) or CWA tri-volt (120/277/347V) ballasts are standard with HSB Mount.

Lamps

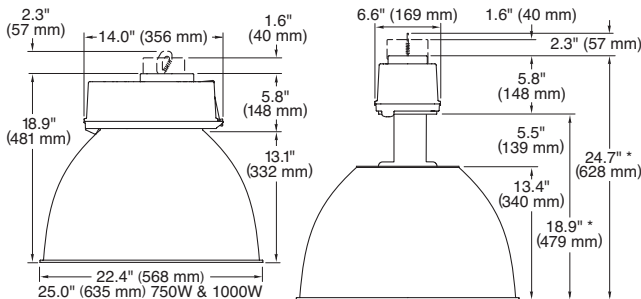
Fixture includes mogul-base lamp; coated for PSMH and MH, clear for HPS. Available in 250, 320 or 400W (open-rated) or 750 PSMH; 250, 400 or 1000W MH; 250 or 400W HPS. Non-open rated lamps and sockets supplied when ordering luminaires with MH or a lens enclosure. **NOTE:** Do not use any enclosure with 750- or 1000-watt lamps.

Mountings

Hinged Splice Box (HSB); (Fixed Pendant mount for IP65); Hook, Cord & Plug (HCP); (Eyebolt and Cord mount for IP65). See pages 96–99 for more information on our EZ Connect® Modular Wiring System.

Labels

UL Listed in U.S. and Canada for damp and wet (IP65-rated fixture option) locations and for a minimum elevated ambient temperature of 40°C; most wattages higher – See Technical Data Sheet TD-12 on our web site.



Shown with Adjustable Neck Housing Option

Notes: * 1000W MH uses spacer between the reflector and the housing, adding 2" (51 mm) to overall fixture height.

Order Information

Wattage/ Lamp Type	Catalog Number HSB Mount	Catalog Number HCP Mount
250W PSMH	IAR1625-MO	IAR2625-(a)O
320W PSMH	IAR1632-MO	IAR2632-(a)O
400W PSMH	IAR1640-MO	IAR2640-(a)O
750W PSMH*	IAR1675-MN	IAR2675-(a)N
250W MH	IAR1425-ME	IAR2425-(a)E
400W MH	IAR1440-M	IAR2440-(a)
1000W MH	IAR1499-MN	IAR2499-(a)MN
250W HPS	IAR1525-M	IAR2525-(a)
400W HPS	IAR1540-M	IAR2540-(a)

For Wet-Listed IP65 option use IP prefix to replace I and add E lens suffix.

Example: IPAR1625-ME

* S-rated lamp—Open rated not available; wattage too high for enclosure.

** S-rated lamp—specify Open-rated lamp if required (see Options)

⚡ ED28 reduced envelope lamp standard on 320W PSMH

Other lamp wattages available—consult factory

EZ Connect 10 ga. Lighting Tap use IAR6 prefix

(add "A", "B" or "C" after IAR6 to denote phase).

EZ Connect 12 ga. Lighting Tap use IAR7 prefix

See pages 96–99 for more information on our EZ Connect Modular Wiring System

(n/a on IP65-rated fixtures)

Options: (Factory-installed)	Change Suffix To	Add After Suffix
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Ballast choices for Hinged Splice Box (HSB) models		
277V Reactor Ballast (PSMH only)		27
480V		5
Tri-volt (120/277/347V)		T

(a) Ballast choices for Hook, Cord & Plug (HCP) models		
277V Reactor Ballast (PSMH only)		27
120V, 277V, 208V, 240V or 480V		1, 2, 3, 4 or 5
347V		6

Prismatic Drop Acrylic Lens (400W HPS max.) (IP65 fixture) (n/a with "W") †		A
Prismatic Drop Acrylic Lens (250W MH only) (n/a with "W")		change "E" to "A"
Prismatic Drop Acrylic Lens (PSMH only) (n/a with "W")		change "O" to "A"

Flat Acrylic Lens (standard on 250W MH) †		E
(included with IP65 fixtures option) (400W max.)		
Flat Acrylic Lens (PSMH only) (400W max.)		change "O" to "E"

Conical Acrylic Drop Lens (400W HPS max.) (IP65 fixtures option) (n/a with "W") †		Y
Conical Acrylic Drop Lens (250W MH only) (n/a with "W")		change "E" to "Y"
Conical Acrylic Drop Lens (PSMH only) (n/a with "W")		change "O" to "Y"

Single Fuse (277V Reactor, 120V, 277V or 347V)		27, 1, 2 or 6
Dual Fuse (208V, 240V or 480V) (n/a Canada)		3, 4 or 5

2-Level (120V or 277V) †		1 or 2
(250, 320, or 400W PSMH, 250 or 400W MH) (consult factory for other voltages)		

2-Level Integrated Sensor		1, 2, 3, 4, 5 or 6
(250, 320 & 400W PSMH, 250 & 400W MH)		

Adjustable Neck Housing (standard on wattages 750 or greater)		N
Open-rated Lamp (standard on 250-400W PSMH)		O
Optical Chamber Air Filter (400W max.) (use only with "A", "E" or "Y")		B

Quartz Standby (delay-relay type) (includes 100W Q lamp) (n/a 277V Reactor) †		Q
Wire Guard (use only with "E" lens) (n/a 750 & 1000W)		W

(see Accessories for fixtures with no lens)		
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Accessories: (Field-installed)		
Description		Catalog #

Locking-type Receptacle	120V	L5-15R
	120V 2-Level	L14-20R
	208/240V	L6-15R
	277V	L7-15R
	277V 2-Level	L16-20R
	347V	L37*20R
	480V	L8-20R

Power Hook (for use with HCP mount) (120V, 277V, 208V, 240V or 480V)		PH-(a) (1, 2, 3, 4 or 5)
Power Hook (for use with 2-Level & HCP mount) (120V or 277V)		PH-(a) (1G or 2G)
Power Hook (for use with HCP mount)		PH*6

NOTE: Specify PH-2 for 277V Reactor		
Safety Cable with Hang-Fast (5'/1.5 m) †		SC-5
Wire Guard (for fixture with no lens) (n/a 750 & 1000W)		WG-AR
Wire Guard with Relamp Opening (for fixture with no lens) (n/a 750 & 1000W)		WG-AR/OC

† Available for use on IP65 fixtures.		
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Catalog Number Logic/Voltage Suffix Key	Page 61
Mountings, Options & Accessories	Pages 90–91
2-Level Option (250, 320 or 400W PSMH, 250 or 400W MH)	Pages 92–95
EZ Connect Modular Wiring System	Pages 96–99

22" Prismatic Reflector

Metal Halide

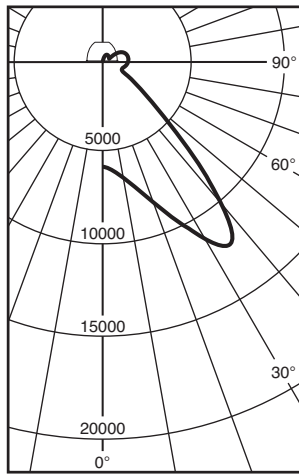
Lamp: 400 Watt (Coated) – 36,000 lumens

Lens: None

Socket Position: Medium

Test Distance: 26' (8 m)

Certified Test Report: Independent Testing Laboratories Inc. No. ITL 37107



Efficiency: 96.4% SC = 1.7

Candlepower Summary

Angle	Mean CP	Lumens
0	5413	
5	5642	551
15	6616	1918
25	9149	4262
35	12340	7572
45	8074	6338
55	3123	2830
65	1198	1292
75	1308	1379
85	1523	1661
95	1660	1811
105	1600	1693
115	1312	1309
125	887	901
135	608	476
145	562	349
155	544	253
165	567	158
175	425	43
180	407	

Zonal Lumens and Percentages

Zone	Lumens	%Lamp	%Fixture
0-30	6731	18.7	19.4
0-40	14303	39.7	41.2
0-60	23471	65.2	67.6
0-90	27805	77.2	80.1
90-120	4813	13.4	13.9
90-130	5613	15.6	16.2
90-150	6438	17.9	18.6
90-180	6892	19.1	19.9
0-180	34697	96.4	100.0

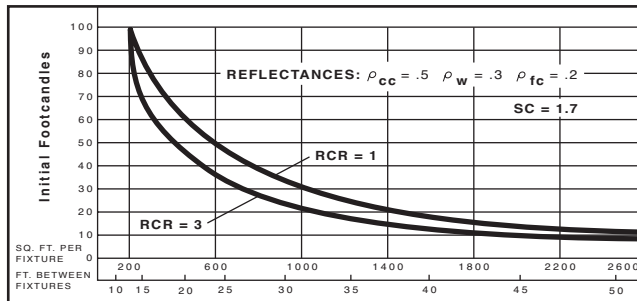
Luminance Data

Angle	Average (fL)
45	18344
55	6815
65	2461
75	2614
85	3053

Coefficients of Utilization

Effective Floor Cavity Reflectance = .20

CC	80				70				50				30				10			
	WALL	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10		
RCR	0	1.10	1.10	1.10	1.10	1.05	1.05	1.05	1.05	0.96	0.96	0.96	0.88	0.88	0.88	0.81	0.81	0.81		
	1	1.01	0.96	0.92	0.89	0.96	0.92	0.89	0.85	0.85	0.82	0.79	0.78	0.75	0.73	0.71	0.70	0.68		
2	0.93	0.86	0.80	0.75	0.89	0.82	0.77	0.72	0.76	0.71	0.68	0.70	0.66	0.63	0.64	0.62	0.59			
3	0.85	0.76	0.69	0.64	0.82	0.73	0.67	0.62	0.68	0.63	0.58	0.63	0.59	0.55	0.58	0.55	0.52			
4	0.79	0.69	0.61	0.55	0.75	0.66	0.59	0.54	0.61	0.56	0.51	0.57	0.52	0.49	0.53	0.49	0.46			
5	0.73	0.62	0.54	0.48	0.70	0.59	0.52	0.47	0.55	0.49	0.45	0.52	0.46	0.42	0.48	0.44	0.40			
6	0.67	0.55	0.47	0.42	0.64	0.53	0.46	0.41	0.50	0.43	0.39	0.46	0.41	0.37	0.43	0.39	0.35			
7	0.61	0.49	0.41	0.36	0.59	0.48	0.40	0.35	0.44	0.38	0.33	0.41	0.36	0.32	0.39	0.34	0.30			
8	0.57	0.44	0.36	0.31	0.54	0.43	0.35	0.30	0.40	0.33	0.29	0.37	0.32	0.28	0.35	0.30	0.26			
9	0.52	0.39	0.32	0.26	0.50	0.38	0.31	0.26	0.36	0.29	0.25	0.33	0.28	0.24	0.31	0.26	0.23			
10	0.48	0.35	0.28	0.23	0.45	0.34	0.27	0.22	0.32	0.25	0.21	0.30	0.24	0.20	0.28	0.23	0.19			



Quick Calculator:

Use this chart to determine the number and spacing of 22" Prismatic Reflector lights with 36,000 lumen, phosphor-coated 400W MH lamp and socket in MEDIUM distribution position. Determine number and spacing for other wattages by using these multipliers:

250W MH 0.57 400W MH* 1.11 1000W MH 3.05

*40,000 lumen "Super" 400W MH

Lamp Included!



IA Series

16" High Bay

Reflector

The IA Series aluminum reflector measures 16.6 inches in diameter and is designed to control glare while providing approximately 80 percent efficiency. All enclosed rated lamps are standard with a tempered-glass lens enclosure. Optional adjustable steel neck housing holds the reflector to the ballast housing and provides multiple socket positions for wide to narrow distributions (standard on wattages 750 or greater).

Wet-Listed Fixture Option

Optional wet-listed IP65-rated fixture housing and lens frame is fully silicone gasketed. Fixture includes flat glass lens. Optic can be opened with tool-less, quick release latches. All exposed hardware is stainless steel. 400 watts max.

Ballast

The sturdy, die-cast aluminum housing, which encloses the electrical components, is our new EZ Bay Plus Series housing. A thermal chimney separates the ballast core and coil from the capacitor and other components and allows socket heat to escape fixture, thereby extending their useful life. High-power-factor, constant-wattage auto-transformer ballast options are available in 120, 208, 240, 277, 347 or 480 volts. High-power-factor CWA quad-volt

(120/208/240/277V) or CWA tri-volt (120/277/347V) ballasts are standard with HSB Mount.

Lamps

Fixture includes mogul-base lamp. Available in 250, 320, 400 (open-rated), 750 or 1000W PSMH; 175, 250 or 400 MH; 150, 250 or 400 HPS. Fixtures supplied with pulse start system (PSMH) feature open-rated lamps and open-rated sockets. 175W and 250W MH units include a lens assembly consisting of a clear, flat tempered glass lens and top collar which encloses the reflector system. A glass lens enclosure is available for other wattages.

Mountings

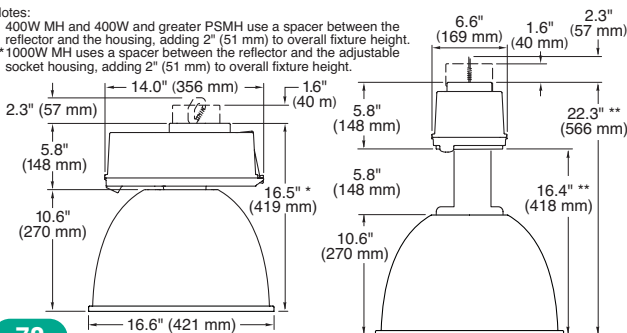
Hinged Splice Box (HSB); (Fixed Pendant mount for IP65); Hook, Cord & Plug (HCP); (Eyebolt and Cord mount for IP65). Refer to page 90 for more information. See pages 96–99 for more information on our EZ Connect® Modular Wiring System.

Labels

UL Listed in U.S. and Canada for damp and wet (IP65-rated fixture option) locations and for a minimum elevated ambient temperature of 45°C; most wattages higher – See Technical Data Sheet TD-12 on our web site.

Notes:

* 400W MH and 400W and greater PSMH use a spacer between the reflector and the housing, adding 2" (51 mm) to overall fixture height.
 **1000W MH uses a spacer between the reflector and the adjustable socket housing, adding 2" (51 mm) to overall fixture height.



Shown with Adjustable Neck Housing Option

Order Information

Wattage/ Lamp Type	Catalog Number HSB Mount	Catalog Number HCP Mount
250W PSMH	IA1625-MO	IA2625-(a)O
320W PSMH	IA1632-MO	IA2632-(a)O
400W PSMH	IA1640-MO	IA2640-(a)O
750W PSMH*	IA1675-MN	IA2675-(a)N
1000W PSMH	IA1699-MEN	IA2699-(a)EN
175W MH	IA1417-ME	IA2417-(a)E
250W MH	IA1425-ME	IA2425-(a)E
400W MH**	IA1440-M	IA2440-(a)
1000W MH**	IA1499-MN	IA2499-(a)N
150W HPS	IA1515-M	IA2515-(a)
250W HPS	IA1525-M	IA2525-(a)
400W HPS	IA1540-M	IA2540-(a)

For Wet-Listed IP65 option use IP prefix to replace I and add E lens suffix.

Example: IPA1625-ME

* S-rated lamp—Open rated not available, specify enclosed if required (see Options)

** S-rated lamp—specify Open-rated lamp if required (see Options)

⚡ ED28 reduced envelope lamp standard on 320W PSMH

Other lamp wattages available—consult factory

EZ Connect 10 ga. Lighting Tap use IA6 prefix

(add "A", "B" or "C" after IA6 to denote phase).

EZ Connect 12 ga. Lighting Tap use IA7 prefix

See pages 96–99 for more information on our EZ Connect Modular Wiring System

(n/a on IP65-rated fixtures)

Options: (Factory-installed)	Change Suffix To	Add After Suffix
Ballast choices for Hinged Splice Box (HSB) models		
277V Reactor Ballast (PSMH only)	27	
480V	5	
Tri-volt (120/277/347V)	T	
(a) Ballast choices for Hook, Cord & Plug (HCP) models		
277V Reactor Ballast (PSMH only)	27	
120V, 277V, 208V, 240V or 480V	1, 2, 3, 4 or 5	
347V	6	
Flat Glass Lens (1000W max.) †		E
(standard on 175 & 250W MH and IP65 fixtures) (400W max.)		
Flat Glass Lens (250-400W PSMH only)		change "O" to "E"
Flat Glass Lens (standard on 1000W PSMH ⚡) (for 750W PSMH, 1000W MH)		E
⚡ BT37 reduced envelope lamp required only if enclosed		
Single Fuse (277V Reactor, 120V, 277V or 347V)	27, 1, 2 or 6	F
Dual Fuse (208V, 240V or 480V) (n/a Canada)	3, 4 or 5	F
⚡ 2-Level (120V or 277V) †	1 or 2	G
(250, 320 or 400W PSMH, 250 or 400W MH) (consult factory for other voltages)		
⚡ 2-Level Integrated Sensor	1, 2, 3, 4, 5 or 6	K
(250, 320 & 400W PSMH, 250 & 400W MH)		
Adjustable Neck Housing (standard on wattages 750W or greater)		N
Open-rated Lamp (standard on 250-400W PSMH) (400-1000W MH only)		O
Optical Chamber Air Filter (use only with "E" lens)		B
Quartz Standby (delay-relay type) (includes 100W Q lamp) (n/a 277V Reactor) †		Q
Wire Guard (for 750W PSMH, 175-1000W MH, 150-400W HPS)		W
(use only with "E" lens) (see Accessories for fixture with no lens)		

Accessories: (Field-installed)	Description	Catalog #
Cylindrical Shroud		CS-40()
(not for use with "K" option) (specify WH--white or BZ--bronze) (400W max.)		
Locking-type Receptacle	120V	L5-15R
	120V 2-Level	L14-20R
	208/240V	L6-15R
	277V	L7-15R
	277V 2-Level	L16-20R
	347V	L37*20R
	480V	L8-20R
Power Hook (for use with HCP mount) (120V, 277V, 208V, 240V or 480V)	PH-(a) (1, 2, 3, 4 or 5)	
Power Hook (for use with 2-Level & HCP mount) (120V or 277V)	PH-(a) (1G or 2G)	
Power Hook (for use with HCP mount)	PH*6	
NOTE: Specify PH-2 for 277V Reactor		
Safety Cable with Hang-Fast (5/1.5 m) †	SC-5	
Wire Guard (for fixture with no lens)	WG-A	
Wire Guard with Relamp Opening (for fixture with no lens)	WG-A/OC	

† Available for use on IP65 fixtures.

Catalog Number Logic/Voltage Suffix Key Page 61
 Mountings, Options & Accessories Pages 90–91
 2-Level Option (250, 320 or 400W PSMH, 250 or 400W MH) Pages 92–95
 EZ Connect Modular Wiring System Pages 96–99

16" High Bay

Metal Halide

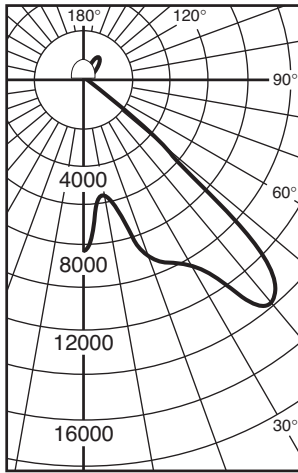
Lamp: 400 Watt (Clear) – 34,000 lumens

Lens: None

Socket Position: Medium

Test Distance: 26' (8 m)

Certified Test Report: Lighting Sciences Inc. No. LSI 2675



Efficiency: 77.18% SC = 1.6

Candlepower Summary

Angle	Mean CP	Lumens
0	8239	
5	6272	629
15	6421	1911
25	9559	4370
35	11551	7396
45	11564	8084
55	1638	1977
65	429	465
75	80	104
85	19	23
95	7	9
105	12	13
115	17	19
125	47	49
135	193	194
145	960	560
155	856	380
165	143	57
175	32	4
180	30	

Zonal Lumens and Percentages

Zone	Lumens	%Lamp	%Fixture
0-30	6909	20.32	26.33
0-40	14305	42.07	54.52
0-60	24365	71.66	92.86
0-90	24957	73.41	95.11
40-90	10652	31.33	40.60
60-90	592	1.74	2.26
90-180	1281	3.77	4.89
0-180	26239	77.18	100.00

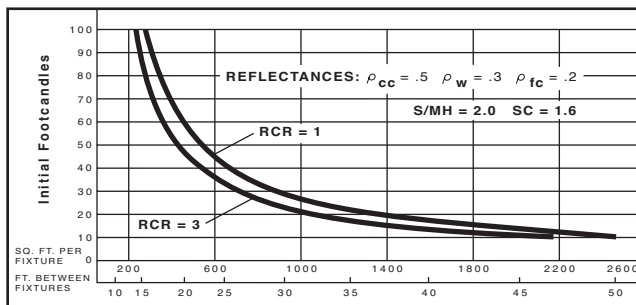
Luminance Data

Angle	Average (fL)
45	34701
55	6058
65	2151
75	654
85	466

Coefficients of Utilization

Effective Floor Cavity Reflectance = .20

CC	80			70			50			30			10				
	70	50	30	10	70	50	30	10	50	30	10	50	30	10			
WALL																	
RCR																	
1	0.86	0.83	0.81	0.78	0.83	0.81	0.79	0.77	0.77	0.75	0.74	0.73	0.72	0.71	0.70	0.69	0.68
2	0.80	0.76	0.72	0.69	0.78	0.74	0.70	0.68	0.71	0.68	0.65	0.68	0.66	0.63	0.65	0.63	0.62
3	0.74	0.68	0.64	0.60	0.72	0.67	0.63	0.59	0.64	0.61	0.58	0.62	0.59	0.56	0.60	0.57	0.55
4	0.69	0.62	0.57	0.53	0.68	0.61	0.56	0.52	0.59	0.54	0.51	0.57	0.53	0.50	0.55	0.52	0.49
5	0.64	0.56	0.50	0.46	0.62	0.55	0.50	0.46	0.53	0.48	0.45	0.51	0.47	0.44	0.50	0.46	0.43
6	0.59	0.50	0.44	0.40	0.58	0.49	0.44	0.40	0.48	0.43	0.39	0.46	0.42	0.39	0.45	0.41	0.38
7	0.54	0.45	0.39	0.35	0.53	0.44	0.39	0.34	0.43	0.38	0.34	0.41	0.37	0.33	0.40	0.36	0.33
8	0.50	0.40	0.34	0.30	0.48	0.39	0.34	0.30	0.38	0.33	0.29	0.37	0.32	0.29	0.36	0.32	0.28
9	0.45	0.36	0.29	0.25	0.44	0.35	0.29	0.25	0.34	0.28	0.25	0.33	0.28	0.24	0.32	0.27	0.24
10	0.41	0.31	0.25	0.21	0.40	0.31	0.25	0.21	0.30	0.24	0.21	0.29	0.24	0.21	0.28	0.23	0.20



Quick Calculator:

Use this chart to determine the number and spacing of High Bay lights with clear 400W MH lamp and socket in MEDIUM distribution position. Determine number and spacing for other wattages by using these multipliers:

175W MH 0.39 250W MH 0.57 400W MH* 1.11 1000W MH 3.05

*40,000 lumen "Super" 400W MH

Lamp Included!



IAJ Series

Shown with Adjustable Neck Housing

22" High Bay (HID)

Reflector

The IAJ Series aluminum reflector measures 22.7 inches in diameter and is designed to control glare while providing approximately 80 percent efficiency. 1000-watt PSMH fixture is standard with a tempered glass lens enclosure. Optional adjustable steel neck housing holds the reflector to the ballast housing and provides multiple socket positions for wide to narrow distributions (standard on wattages 750 or greater).

Wet-Listed Fixture Option

Optional wet-listed IP65-rated fixture housing and lens frame is fully silicone gasketed. Fixture includes flat glass lens. Optic can be opened with tool-less, quick release latches. All exposed hardware is stainless steel. 400 watts max.

Ballast

The sturdy, die-cast aluminum housing, which encloses the electrical components is our new EZ Bay Plus Series housing. A thermal chimney separates the ballast core and coil from the capacitor and other components and allows socket heat to escape fixture, thereby extending their useful life. High-

power-factor, constant-wattage auto-transformer ballast options are available in 120, 208, 240, 277, 347 or 480 volts. High-power-factor CWA quad-volt (120/208/240/277V) or CWA tri-volt (120/277/347V) ballasts are standard with HSB Mount.

Lamps

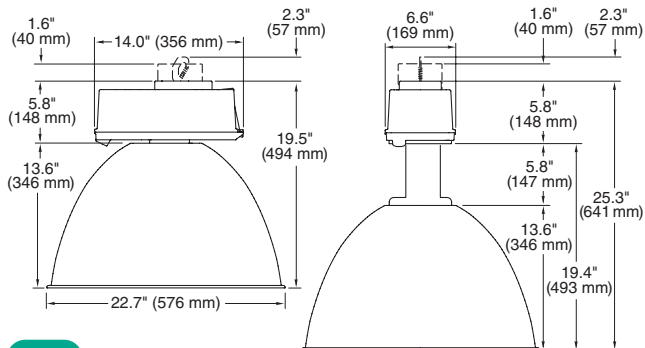
Fixture includes mogul-base lamp. Available in 320, 400W open-rated PSMH, 750 or 1000W PSMH; 400 or 1000W MH; 400W HPS. 1000-watt PSMH available only with an enclosure.

Mountings

Hinged Splice Box (HSB); (Fixed Pendant mount for IP65); Hook, Cord & Plug (HCP); (Eyebolt and Cord mount for IP65). Refer to page 90 for more information. See pages 96–99 for more information on our EZ Connect® Modular Wiring System.

Labels

UL Listed in U.S. and Canada for damp and wet (IP65-rated fixture option) locations and for a minimum elevated ambient temperature of 45°C; most wattages higher – See Technical Data Sheet TD-12 on our web site.



Shown with Adjustable Neck Housing Option

Order Information

Wattage/ Lamp Type	Catalog Number HSB Mount	Catalog Number HCP Mount
320W PSMH	IAJ1632-MO	IAJ2632-(a)O
400W PSMH	IAJ1640-MO	IAJ2640-(a)O
750W PSMH*	IAJ1675-M	IAJ2675-(a)N
1000W PSMH	IAJ1699-MEN	IAJ2699-(a)EN
400W MH**	IAJ1440-M	IAJ2440-(a)
1000W MH**	IAJ1499-MN	IAJ2499-(a)N
400W HPS	IAJ1540-M	IAJ2540-(a)

For Wet-Listed IP65 option use IP prefix to replace I and add E lens suffix.

Example: IPAJ1632-ME

* S-rated lamp—Open rated not available, specify enclosed if required (see Options)

** S-rated lamp—specify Open-rated lamp if required (see Options)

ED28 reduced envelope lamp standard on 320W PSMH

Other lamp wattages available—consult factory

EZ Connect 10 ga. Lighting Tap use IAJ6 prefix

(add "A", "B" or "C" after IAJ6 to denote phase).

EZ Connect 12 ga. Lighting Tap use IAJ7 prefix

See pages 96–99 for more information on our EZ Connect Modular Wiring System

Options: (Factory-installed)	Change Suffix To	Add After Suffix
Ballast choices for Hinged Splice Box (HSB) models		
277V Reactor Ballast (PSMH only)	27	
480V	5	
Tri-volt (120/277/347V)	T	

(a) Ballast choices for Hook, Cord & Plug (HCP) models

277V Reactor Ballast (PSMH only)	27	
120V, 277V, 208V, 240V or 480V	1, 2, 3, 4 or 5	
347V	6	
Flat Glass Lens (standard on 1000W PSMH) (Required on IP65) †		E
Flat Glass Lens (320 & 400W PSMH only)		change "O" to "E"
Single Fuse (277V Reactor, 120V, 277V or 347V)	27, 1, 2 or 6	F
Dual Fuse (208V, 240V or 480V) (n/a Canada)	3, 4 or 5	F
2-Level (120V or 277V) †	1 or 2	G
(320 or 400W PSMH, 400W MH) (consult factory for other voltages)		
2-Level Integrated Sensor	1, 2, 3, 4, 5 or 6	K
(320 & 400W PSMH, 400W MH)		
Adjustable Neck Housing (standard on wattages 750W or greater)		N
Open-rated Lamp (standard on 320-400W PSMH) (400 & 1000W MH only)		O
Optical Chamber Air Filter (use only with "E" lens)		B
Quartz Standby (delay-relay type) (includes 100W Q lamp) (n/a 277V Reactor) †		Q
Wire Guard (use only with "E" lens)		W

(See Accessories for fixture with no lens)

Accessories: (Field-installed)	Description	Catalog #
Locking-type Receptacle	120V	L5-15R
	120V 2-Level	L14-20R
	208/240V	L6-15R
	277V	L7-15R
	277V 2-Level	L16-20R
	347V	L37*20R
	480V	L8-20R

Power Hook (for use with HCP mount) (120V, 277V, 208V, 240V or 480V)	PH-(a) (1, 2, 3, 4 or 5)
Power Hook (for use with 2-Level & HCP mount) (120V or 277V)	PH-(a) (1G or 2G)
Power Hook (for use with HCP mount)	PH*6

NOTE: Specify PH-2 for 277V Reactor

Safety Cable with Hang-Fast (5/1.5 m) †	SC-5
Wire Guard (for fixture with no lens)	WG-AJ
Wire Guard with Relamp Opening (for fixture with no lens)	WG-AJ/OC

† Available for use on IP65 fixtures.

Catalog Number Logic/Voltage Suffix Key	Page 61
Mountings, Options & Accessories	Pages 90–91
2-Level Option (250, 320 or 400W PSMH, 250 or 400W MH)	Pages 92–95
EZ Connect Modular Wiring System	Pages 96–99

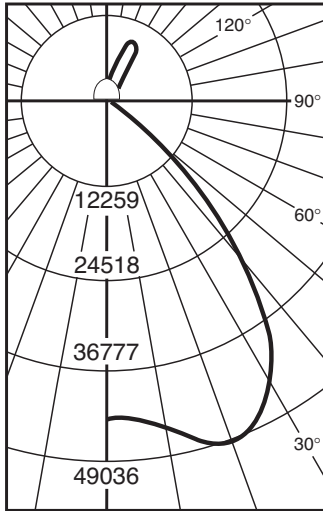
22" High Bay

Metal Halide

Lamp: 1000 Watt (Clear) – 115,000 lumens

Lens: None

Socket Position: Medium



Efficiency = 78.2%; SC = 1.3; S/MH = 1.4

Candlepower Summary

Angle	Mean CP
0	43566
5	44185
15	46317
25	45599
35	36717
45	17526
55	3536
65	997
75	313
85	54
95	12
105	36
115	81
125	55
135	319
145	4100
155	8142
165	4666
175	564
180	302

Zonal Lumens and Percentages

Zone	Lumens	% Lamp	% Fixture
0-30	39229	34.1	43.6
0-40	62408	54.3	69.4
0-60	79818	69.4	88.8
0-90	81276	70.7	90.4
90-120	123	.1	.1
90-130	188	.2	.2
90-150	3339	2.9	.2
90-180	8610	7.5	9.6
0-180	89887	78.2	100.0

Luminance Data

Angle	Average (FL)
45°	41051
55°	8463
65°	2518
75°	865
85°	171

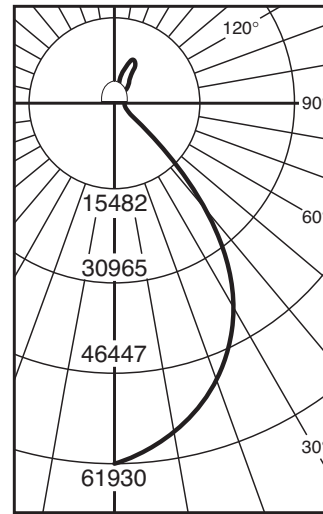
22" High Bay

Metal Halide

Lamp: 1000 Watt (Clear) – 115,000 lumens

Lens: None

Socket Position: Narrow



Efficiency = 78.4%; SC = 1.1; S/MH = 1.1

Candlepower Summary

Angle	Mean CP
0	61930
5	60479
15	54236
25	46817
35	33329
45	14057
55	2805
65	837
75	219
85	41
95	0
105	55
115	65
125	62
135	1198
145	5446
155	8446
165	4553
175	727
180	157

Zonal Lumens and Percentages

Zone	Lumens	% Lamp	% Fixture
0-30	43468	37.8	48.2
0-40	64570	56.1	71.6
0-60	78664	68.4	87.2
0-90	79906	69.5	88.6
90-120	133	0.1	0.1
90-130	227	0.2	0.3
90-150	4769	4.1	0.3
90-180	10262	8.9	11.4
0-180	90168	78.4	100.0

Luminance Data

Angle	Average (FL)
45°	32637
55°	6643
65°	2088
75°	595
85°	127

Coefficients of Utilization

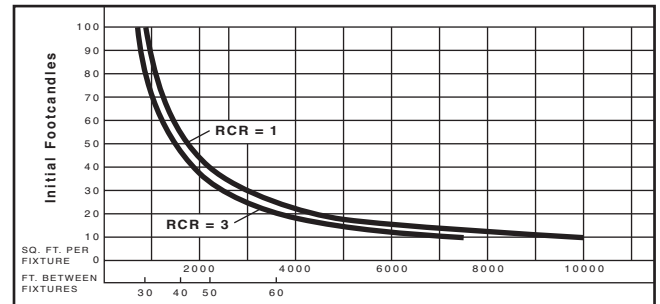
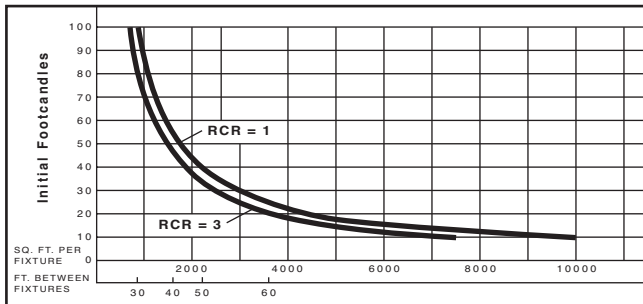
Effective Floor Cavity Reflectance = 0.20

RC	80				70				50				30				10				0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																					
0	0.91	0.91	0.91	0.91	0.88	0.88	0.88	0.88	0.83	0.83	0.83	0.78	0.78	0.78	0.73	0.73	0.73	0.71			
1	0.86	0.83	0.81	0.79	0.83	0.81	0.79	0.77	0.76	0.75	0.73	0.72	0.71	0.70	0.68	0.67	0.66	0.65			
2	0.80	0.76	0.72	0.69	0.78	0.74	0.70	0.68	0.70	0.67	0.65	0.67	0.64	0.62	0.63	0.62	0.60	0.58			
3	0.75	0.69	0.64	0.61	0.73	0.67	0.63	0.60	0.64	0.61	0.58	0.61	0.58	0.56	0.59	0.56	0.54	0.53			
4	0.70	0.63	0.58	0.54	0.68	0.62	0.57	0.53	0.59	0.55	0.52	0.56	0.53	0.50	0.54	0.51	0.49	0.47			
5	0.66	0.58	0.52	0.48	0.64	0.57	0.52	0.48	0.54	0.50	0.47	0.52	0.48	0.45	0.50	0.47	0.44	0.43			
6	0.61	0.53	0.47	0.43	0.60	0.52	0.47	0.43	0.50	0.45	0.42	0.48	0.44	0.41	0.46	0.43	0.40	0.39			
7	0.57	0.49	0.43	0.39	0.56	0.48	0.43	0.39	0.46	0.42	0.38	0.45	0.41	0.38	0.43	0.39	0.37	0.35			
8	0.54	0.45	0.40	0.36	0.52	0.44	0.39	0.36	0.43	0.38	0.35	0.41	0.37	0.34	0.40	0.36	0.34	0.32			
9	0.51	0.42	0.36	0.33	0.49	0.41	0.36	0.32	0.40	0.35	0.32	0.38	0.34	0.31	0.37	0.34	0.31	0.30			
10	0.48	0.39	0.34	0.30	0.46	0.38	0.33	0.30	0.37	0.32	0.29	0.36	0.32	0.29	0.35	0.31	0.29	0.27			

Coefficients of Utilization

Effective Floor Cavity Reflectance = 0.20

RC	80				70				50				30				10				0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																					
0	0.91	0.91	0.91	0.91	0.88	0.88	0.88	0.88	0.82	0.82	0.82	0.77	0.77	0.77	0.72	0.72	0.72	0.69			
1	0.86	0.84	0.81	0.79	0.83	0.81	0.79	0.77	0.76	0.75	0.73	0.72	0.71	0.69	0.68	0.67	0.66	0.64			
2	0.81	0.76	0.73	0.70	0.78	0.74	0.71	0.68	0.70	0.68	0.65	0.66	0.64	0.63	0.63	0.61	0.60	0.58			
3	0.76	0.70	0.65	0.62	0.73	0.68	0.64	0.61	0.65	0.61	0.59	0.62	0.59	0.57	0.59	0.56	0.55	0.53			
4	0.71	0.64	0.59	0.55	0.69	0.63	0.58	0.54	0.60	0.56	0.53	0.57	0.54	0.51	0.55	0.52	0.50	0.48			
5	0.67	0.59	0.54	0.50	0.65	0.58	0.53	0.49	0.55	0.51	0.48	0.53	0.49	0.47	0.51	0.48	0.46	0.44			
6	0.63	0.55	0.49	0.45	0.61	0.53	0.48	0.45	0.51	0.47	0.44	0.49	0.46	0.43	0.47	0.44	0.42	0.40			
7	0.59	0.50	0.45	0.41	0.57	0.49	0.44	0.41	0.48	0.43	0.40	0.46	0.42	0.39	0.44	0.41	0.38	0.37			
8	0.55	0.47	0.42	0.38	0.54	0.46	0.41	0.38	0.44	0.40	0.37	0.43	0.39	0.36	0.41	0.38	0.35	0.34			
9	0.52	0.44	0.38	0.35	0.51	0.43	0.38	0.35	0.41	0.37	0.34	0.40	0.36	0.33	0.39	0.35	0.33	0.32			
10	0.49	0.41	0.36	0.32	0.48	0.40	0.35	0.32	0.39	0.34	0.31	0.38	0.34	0.31	0.36	0.33	0.30	0.29			



Lamp Included!



ZAR Series

22" Prismatic Reflector (CFL)

Ruud's state-of-the-art engineering, tooling and assembly techniques used in the High Bay series have been tapped once again to create this addition to the EZ Bay Series. This compact fluorescent high bay is offered with 4, 6 or 8 lamp configurations and a variety of wattages. The high-performance optics of our Prismatic Reflector luminaires make them suitable for a wide variety of industrial, commercial and retail applications or other spaces where constant visual color rendering is essential. Especially effective in areas with light color ceilings, the product's upright reduces the "dark cavity effect" commonly found with similar competitive fixtures.

Reflector/Light Distribution

Our Patented Internal Convex Reflector redirects center lumen output from vertical lamps for greater efficiency. The prismatic reflector produces horizontal, vertical and uplight illumination with low brightness (glare) while the fixed-lamp position provides wide light distribution. The high heat, clear acrylic reflector measures 22.7 inches (576 mm) in diameter. Lens enclosures are available as a factory-installed option for all models. Available enclosures include Prismatic Drop Acrylic Lens (catalog suffix "A"), Flat Acrylic Lens (catalog suffix "E") and Conical Lens (catalog suffix "Y") styles. Fixture should not be used in an environment where any industrial cutting fluids are used.

Housing

The thermally vented housing allows for cool ballast operation to provide high ambient temperature installation and operation. The durable, steel housing is standard with our exclusive Colorfast

DeltaGuard™ finish, featuring an E-coat epoxy primer and white ultra-durable powder topcoat. This finish also coats the inside of the housing, improving both heat dissipation and corrosion resistance qualities.

Ballast

Ballasts are 90°C max temperature rated for product robustness. Vented socket plate provides lamp chamber air circulation for cooler lamp temperatures during operation. Fixtures are supplied with a universal voltage 120 through 277 volts high-power-factor programmed-start electronic ballast for optimal lamp life. A 347-volt ballast is also available.

Lamps

The ZAR Series accommodates 4, 6 or 8, 4-pin compact fluorescent (CFL) 26, 32 or 42W lamps. A 57W lamp fixture is only available with 4 lamps. Fixture utilizes twist lock sockets for secure lamp retention. Lamps are available in various color temperatures for ease of retrofit color matching or visual design intent.

Mountings

Hinged Splice Box (HSB) and Hook, Cord & Plug (HCP); please refer to page 90 for information on these mountings.

Labels

UL and cUL Listed for damp locations. ANSI lamp-wattage label supplied, visible during relamping.

Photometric Data

Consult factory.

Order Information

Wattage/ Lamp Type	Catalog Number HSB Mount	Catalog Number HCP Mount
(4) 26W CFL	ZAR14X26-U	ZAR24X26-(a)
(6) 26W CFL	ZAR16X26-U	ZAR26X26-(a)
(8) 26W CFL	ZAR18X26-U	ZAR28X26-(a)
(4) 32W CFL	ZAR14X32-U	ZAR24X32-(a)
(6) 32W CFL	ZAR16X32-U	ZAR26X32-(a)
(8) 32W CFL	ZAR18X32-U	ZAR28X32-(a)
(4) 42W CFL	ZAR14X42-U	ZAR24X42-(a)
(6) 42W CFL	ZAR16X42-U	ZAR26X42-(a)
(8) 42W CFL	ZAR18X42-U	ZAR28X42-(a)
(4) 57W CFL	ZAR14X57-U	ZAR24X57-(a)

Options: (Factory-installed)	Change Suffix To	Add After Suffix
------------------------------	---------------------	---------------------

Ballast choices for Hinged Splice Box (HSB) models

120-277V Universal (standard)		
120/277V Dual Volt (D = EM only)	D, 1 or 2	
(1 or 2 = EM or dimming option only)		

(a) Ballast choices for Hook, Cord & Plug (HCP) models

120-277V Universal	U	
120/277V Dual Volt	D	
120 Volt (EM, dimming only)	1	
277 Volt (EM, dimming only)	2	
347 Volt (no dimming or EM)	6	

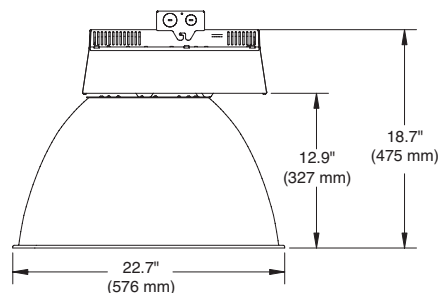
Prismatic Drop Acrylic Lens (n/a with "W")		A
Flat Acrylic Lens		E
Conical Lens (n/a with "W")		Y
Single Fuse (specify voltage, 120V, 277V or 347V)	1, 2 or 6	F
Dual Fuse (specify voltage, 208V or 240V) (n/a Canada)	3 or 4	F
2-Level Integrated Sensor (specify voltage 120V, 277V or 347V)	1, 2 or 6	K
Emergency Battery Pack (specify voltage) (750 Lumen)	1, 2 or D	EM
(Overall fixture height will change, consult factory)		
Power Line Dimming Ballast (1 ballast per 2 lamps)	1 or 2	P
(Advance Mark X) (specify voltage)		
32W or less (4 lamp only)		
42W or any 6 or 8 lamp, consult factory		
Wire Guard (use only with "E" lens)		W

Mountings, Options & Accessories	Pages 90-91
2-Level Option	Pages 92-95

Ambient Temperature Limits (ZAR Series) (UL Rating)

Lamp	Open	Enclosed
4 x 26	50°C (35°C*)	50°C (40°C*)
4 x 32	50°C (30°C*)	50°C (35°C*)
4 x 42	50°C	50°C
4 x 57	50°C	40°C
6 x 26	50°C	50°C
6 x 32	50°C	50°C
6 x 42	50°C	50°C
8 x 26	50°C	45°C
8 x 32	45°C	40°C
8 x 42	40°C	35°C

* with "P" option



Lamp Included!



ZAJ Series

22" High Bay (CFL)

Ruud's state-of-the-art engineering, tooling and assembly techniques used in the High Bay series have been tapped once again to create this addition to the EZ Bay Series. This compact fluorescent high bay is offered with 4, 6 or 8 lamp configurations and a variety of wattages. The bright-dip anodized finish of the AJ Series hydroformed aluminum reflector assures a high level of reflectivity, producing efficient light levels.

Reflector/Light Distribution

The aluminum reflector redirects center lumen output from vertical lamps for greater efficiency and produces vertical illumination with low brightness (glare) while the fixed-lamp position provides wide light distribution. The reflector measures 22.7 inches (576 mm) in diameter. Lens enclosures are available as a factory-installed option for all models. Available enclosures include Prismatic Drop Acrylic Lens (catalog suffix "A"), Flat Acrylic Lens (catalog suffix "E") and Conical Lens (catalog suffix "Y") styles.

Housing

The thermally vented housing allows for cool ballast operation to provide high ambient temperature installation and operation. The durable, steel housing is standard with our exclusive Colorfast DeltaGuard™ finish, featuring an E-coat epoxy primer and white ultra-durable powder topcoat. This finish also coats the inside of the housing, improving both heat dissipation and corrosion resistance qualities.

Ballast

Ballasts are 90°C max temperature rated for product robustness. Vented socket plate provides lamp chamber air circulation for cooler lamp temperatures during operation. Fixtures are supplied with a universal voltage 120 through 277 volts high-power-factor programmed-start electronic ballast for optimal lamp life. A 347-volt ballast is also available.

Lamps

The ZAJ Series accommodates 4, 6 or 8, 4-pin compact fluorescent (CFL) 26, 32 or 42W lamps. A 57W lamp fixture is only available with 4 lamps. Fixture utilizes twist lock sockets for secure lamp retention. Lamps are available in various color temperatures for ease of retrofit color matching or visual design intent.

Mountings

Hinged Splice Box (HSB) and Hook, Cord & Plug (HCP); please refer to page 90 for information on these mountings.

Labels

UL and cUL Listed for damp locations. ANSI lamp-wattage label supplied, visible during relamping.

Photometric Data

Consult factory.

Order Information

Wattage/ Lamp Type	Catalog Number HSB Mount	Catalog Number HCP Mount
(4) 26W CFL	ZAJ14X26-U	ZAJ24X26-(a)
(6) 26W CFL	ZAJ16X26-U	ZAJ26X26-(a)
(8) 26W CFL	ZAJ18X26-U	ZAJ28X26-(a)
(4) 32W CFL	ZAJ14X32-U	ZAJ24X32-(a)
(6) 32W CFL	ZAJ16X32-U	ZAJ26X32-(a)
(8) 32W CFL	ZAJ18X32-U	ZAJ28X32-(a)
(4) 42W CFL	ZAJ14X42-U	ZAJ24X42-(a)
(6) 42W CFL	ZAJ16X42-U	ZAJ26X42-(a)
(8) 42W CFL	ZAJ18X42-U	ZAJ28X42-(a)
(4) 57W CFL	ZAJ14X57-U	ZAJ24X57-(a)

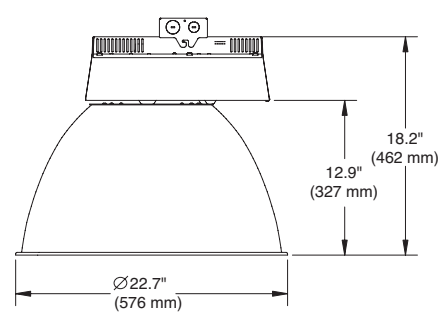
Options: (Factory-installed)	Change Suffix To	Add After Suffix
Description		
Ballast choices for Hinged Splice Box (HSB) models		
120-277V Universal (standard)		
120/277V Dual Volt (D = EM only)	D, 1 or 2	
(1 or 2 = EM or dimming option only)		
347V (no dimming or EM)	6	
(a) Ballast choices for Hook, Cord & Plug (HCP) models		
120-277V Universal		
120/277V Dual Volt	D	
120 Volt (EM, dimming only)	1	
277 Volt (EM, dimming only)	2	
347 Volt (no dimming or EM)	6	
Prismatic Drop Acrylic Lens (n/a with "W")		A
Flat Acrylic Lens		E
Conical Lens (n/a with "W")		Y
Single Fuse (specify voltage, 120V, 277V or 347V)	1, 2 or 6	F
Dual Fuse (specify voltage, 208V or 240V) (n/a Canada)	3 or 4	F
2-Level Integrated Sensor (specify voltage 120V, 277V or 347V)	1, 2 or 6	K
Emergency Battery Pack (specify voltage) (750 Lumen)	1, 2 or D	EM
(Overall fixture height will change, consult factory)		
Power Line Dimming Ballast (1 ballast per 2 lamps) (Advance Mark X) (specify voltage)	1 or 2	P
32W or less (4 lamp only)		
42W or any 6 or 8 lamp, consult factory		
Wire Guard (For use w/flat acrylic lens)		W

Mountings, Options & Accessories Pages 90–91
 2-Level Option Pages 92–95

Ambient Temperature Limits (ZAJ Series)

Lamp	Open	Enclosed
4 x 26	50°C (35°C*)	50°C (40°C*)
4 x 32	50°C (30°C*)	50°C (35°C*)
4 x 42	50°C	50°C
4 x 57	50°C	50°C
6 x 26	50°C	50°C
6 x 32	50°C	50°C
6 x 42	40°C	35°C
8 x 26	50°C	45°C
8 x 32	40°C	35°C
8 x 42	40°C	35°C

* with "P" option



Lamp Included!



IAL Series

Aisle Light

Designed specifically to illuminate both tall, vertical surfaces and traffic areas below, the Aisle Light is perfect for sites where items are stored in multi-level pallet racks, such as warehouses and big box retailers. The unique oval design of the metalized, thermal-formed reflector reduces hot spots and distracting "scallop" of light on the racks near each fixture. Instead, uniform light grazes the vertical surfaces, increasing visibility, which in turn promotes safety and productivity. Optional adjustable steel neck housing holds the reflector to the ballast housing and provides multiple socket positions for wide to narrow distributions.

Reflector

The IAL Series metalized, thermal-formed, elliptical-shaped reflector measures 23.2 inches long and its narrow 17.2-inch cross section produces a wide light distribution that allows for significant, cost-saving spacings between fixtures (approximately 20 percent).

Ballast

The sturdy, die-cast aluminum housing, which encloses the electrical components, is our new EZ Bay Plus Series housing. A thermal chimney separates the ballast core and coil from

the capacitor and other components and allows socket heat to escape fixture, thereby extending their useful life. High-power-factor, constant-wattage auto-transformer ballast options are available in 120, 208, 240, 277, 347 or 480 volts. High-power-factor CWA quad-volt (120/208/240/277V) or CWA tri-volt (120/277/347V) ballasts are standard with HSB Mount.

Lamps

The IAL Series accommodates coated, mogul-base 250-, 320- or 400-watt open-rated PSMH; 250- or 400-watt MH lamps; 250- or 400-watt HPS. Reduced envelope lamps supplied as noted in ordering information.

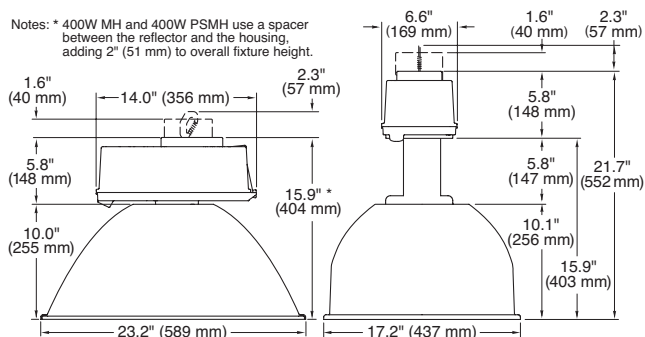
Mountings

Hinged Splice Box (HSB); Hook, Cord & Plug (HCP). Refer to page 90 for more information. See pages 96–99 for more information on our EZ Connect® Modular Wiring System.

Labels

UL Listed in U.S. and Canada for damp locations and for a minimum elevated ambient temperature of 50°C; most wattages higher – See Technical Data Sheet TD-12 on our web site.

Notes: * 400W MH and 400W PSMH use a spacer between the reflector and the housing, adding 2" (51 mm) to overall fixture height.



Shown with Adjustable Neck Housing Option

Order Information

Wattage/ Lamp Type	Catalog Number HSB Mount	Catalog Number HCP Mount
250W PSMH	IAL1625-MO	IAL2625-(a)O
320W PSMH	IAL1632-MO	IAL2632-(a)O
400W PSMH	IAL1640-MO	IAL2640-(a)O
250W MH	IAL1425-ME	IAL2425-(a)E
400W MH	IAL1440-M	IAL2440-(a)
250W HPS	IAL1525-M	IAL2525-(a)
400W HPS	IAL1540-M	IAL2540-(a)

** S-rated lamp—specify Open-rated lamp if required (see Options)

ED28 reduced envelope lamp standard on 320W PSMH

Other lamp wattages available—consult factory

EZ Connect 10 ga. Lighting Tap use IAL6 prefix

(add "A", "B" or "C" after IAL6 to denote phase).

EZ Connect 12 ga. Lighting Tap use IAL7 prefix

See pages 96–99 for more information on our EZ Connect Modular Wiring System

Options: (Factory-installed)	Change Suffix To	Add After Suffix
Description		
Ballast choices for Hinged Splice Box (HSB) models		
277V Reactor Ballast (PSMH only)	27	
480V	5	
Tri-volt (120/277/347V)	T	
(a) Ballast choices for Hook, Cord & Plug (HCP) models		
277V Reactor Ballast (PSMH only)	27	
120V, 277V, 208V, 240V or 480V	1, 2, 3, 4 or 5	
347V	6	

Flat Glass Lens (standard on 250W MH)		E
Flat Glass Lens (PSMH only)		change "O" to "E"
Single Fuse (277V Reactor, 120V, 277V or 347V)	27, 1, 2 or 6	F
Dual Fuse (208V, 240V or 480V) (n/a Canada)	3, 4 or 5	F
2-Level (120V or 277V)	1 or 2	G
(250, 320 or 400W PSMH, 250 or 400W MH) (consult factory for other voltages)		
2-Level Integrated Sensor	1, 2, 3, 4, 5 or 6	K
(250, 320 & 400W PSMH, 250 & 400W MH)		
Adjustable Neck Housing		N
Open-rated Lamp (standard on 250–400 PSMH) (400 MH only)		O
Quartz Standby (delay-relay type) (includes 100W Q lamp) (n/a 277V Reactor)		Q

Accessories: (Field-installed)	Description	Catalog #
Locking-type Receptacle	120V	L5-15R
	120V 2-Level	L14-20R
	208/240V	L6-15R
	277V	L7-15R
	277V 2-Level	L16-20R
	347V	L37*20R
	480V	L8-20R

Power Hook (for use with HCP mount) PH-(a) (1, 2, 3, 4 or 5)

(120V, 277V, 208V, 240V or 480V)

Power Hook (for use with 2-Level & HCP mount) (120V or 277V) PH-(a) (1G or 2G)

Power Hook (for use with HCP mount) PH*6

NOTE: Specify PH-2 for 277V Reactor

Safety Cable with Hang-Fast (5/1.5 m) SC-5

Steady-Lock for cable or chain SL-C

Steady-Lock for eyebolt (Included with HCP models) SL-E

Catalog Number Logic/Voltage Suffix Key Page 61

Mountings, Options & Accessories Pages 90–91

2-Level Option (250, 320, or 400W PSMH, 250 or 400W MH) Pages 92–95

EZ Connect Modular Wiring System Pages 96–99



Elliptical-Shaped Reflector

Aisle Light

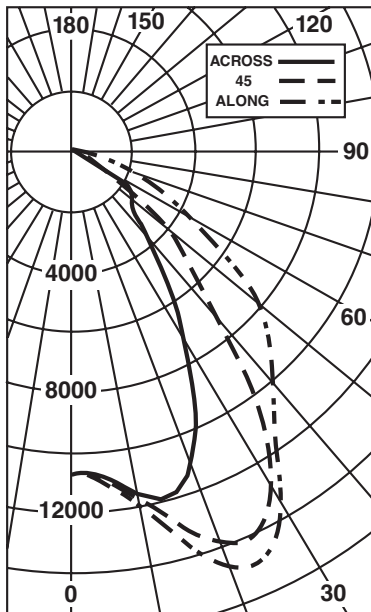
Pulse Start Metal Halide

Lamp: 320 Watt (Coated) – 30,600 lumens

Lens: None

Test Distance: 26' (8 m)

Certified Test Report: Lighting Sciences Inc.
No. LSI 16663



Candlepower Summary

Angle	Along	22.5	45	67.5	Across	Lumens
0	10678	10678	10678	10678	10678	
5	11041	10988	10944	10954	10875	1089
10	11972	11834	11647	11648	11530	
15	13353	13146	12706	12252	11922	3604
20	14623	14550	13814	12181	11108	
25	14847	14999	14092	11259	9349	5917
30	13401	13654	12842	9448	7366	
35	11357	11267	10459	7265	5618	5826
40	10023	9096	7659	5166	4176	
45	9039	7223	5560	3592	2938	4366
50	7860	5537	4085	2908	2568	
55	6251	3965	2838	2466	2427	3006
60	4524	2472	1582	1771	1960	
65	3285	1546	649	777	1002	1330
70	2355	949	228	221	811	
75	1415	454	51	27	35	350
80	357	71	13	7	7	
85	61	17	8	5	0	24
90	0	0	0	0	0	

Zonal Lumens and Percentages

Zone	Lumens	% Lamp	% Luminaire
0-30	10609	34.67	41.59
0-40	16435	53.71	64.42
0-60	23807	77.80	93.32
0-90	2551	83.37	100.00
40-90	9076	29.66	35.58
60-90	1703	5.57	6.68
90-180	0	.00	.00
0-180	25511	83.37	100.00

Angle	Along	45	Across
45	70762	43689	23086
55	60331	27491	23509
65	43026	8525	13171
75	30264	1092	753
85	3861	515	0

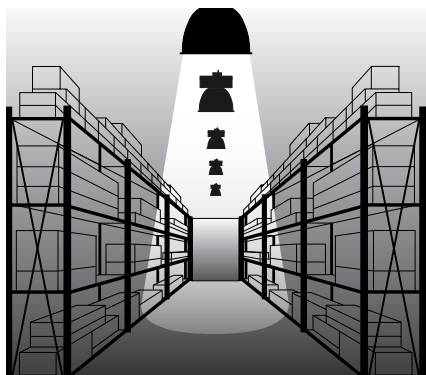
Efficiency = 83.4%; SC = 1.5 (Along, 1.1 Across); S/MH = 1.1

Coefficients of Utilization

Effective Floor Cavity Reflectance = 0.20

CC	80				70				50				30				10				0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
WALL																					
RCR																					
0	0.99	0.99	0.99	0.99	0.97	0.97	0.97	0.97	0.93	0.93	0.93	0.89	0.89	0.89	0.85	0.85	0.85	0.83			0.83
1	0.94	0.91	0.88	0.86	0.91	0.89	0.87	0.85	0.85	0.84	0.82	0.82	0.81	0.80	0.79	0.78	0.77	0.76			0.76
2	0.88	0.83	0.79	0.76	0.86	0.82	0.78	0.75	0.79	0.76	0.73	0.76	0.74	0.72	0.74	0.72	0.70	0.69			0.69
3	0.82	0.76	0.71	0.67	0.80	0.74	0.70	0.66	0.72	0.68	0.65	0.70	0.67	0.64	0.68	0.66	0.63	0.62			0.62
4	0.77	0.69	0.64	0.60	0.75	0.68	0.64	0.59	0.67	0.62	0.59	0.64	0.61	0.58	0.63	0.60	0.57	0.56			0.56
5	0.72	0.64	0.58	0.53	0.70	0.63	0.57	0.53	0.61	0.56	0.53	0.59	0.55	0.52	0.58	0.55	0.51	0.50			0.50
6	0.67	0.58	0.52	0.48	0.66	0.57	0.52	0.48	0.56	0.51	0.47	0.55	0.50	0.47	0.54	0.50	0.46	0.45			0.45
7	0.62	0.53	0.47	0.43	0.61	0.52	0.47	0.42	0.51	0.46	0.42	0.55	0.45	0.42	0.49	0.45	0.42	0.40			0.40
8	0.58	0.49	0.43	0.38	0.57	0.48	0.42	0.38	0.47	0.42	0.38	0.46	0.41	0.38	0.45	0.41	0.38	0.36			0.36
9	0.54	0.45	0.39	0.34	0.53	0.44	0.38	0.34	0.43	0.38	0.34	0.42	0.37	0.34	0.42	0.37	0.34	0.33			0.33
10	0.51	0.41	0.35	0.31	0.50	0.41	0.35	0.31	0.40	0.35	0.31	0.39	0.34	0.31	0.38	0.34	0.31	0.29			0.29

Conventional High Bay



Ruud® Aisle Light



Lamp
Included!

IC Series

Compact Low Bay

The compact size and efficient optical performance of the Compact Low Bay make it an ideal choice for low to medium mounting heights. It is ideal for many typical industrial applications as well as for commercial and retail sites.

Wet-Listed Fixture Option

Wet-listed IP65-rated fixture housing and lens frame is fully silicone gasketed. Fixture includes acrylic drop lens. Optic can be opened with tool-less, quick release latches. All exposed hardware is stainless steel. The optional IP65-rated fixtures are ideal for illuminating produce storage centers, warehouses, dairy barns and other commercial locations including refrigeration zones, areas where misting occurs regularly, or those with dust infiltration. The IP65-rated fixtures are suitable for environments with heavy spray-downs.

Reflector

The Compact Low Bay reflector measures 16.6 inches in diameter and is totally enclosed and gasketed. A Dacron® breather gasket is installed between the lens and reflector. An improved, high-reflectance, ultra-durable white powder paint provides a durable finish, while improving heat dissipation and distribution. Reflector efficiency in excess of 76 percent provides a spacing criterion of 1.6. IP65-rated fixture reflectors are totally enclosed with full silicone gasketing at connection to fixture and between standard acrylic drop refractor lens and frame.

Refractor Lens

The acrylic refractor is injection molded with a prismatic design to soften and disperse light from the reflector. This

optical system is designed to maximize efficiency and distribution while controlling glare. This lens is held in place by an aluminum support ring, which clips to the reflector. One clip is secured to the reflector to support the lens for ease when relamping. An optional polycarbonate refractor is available for installations where the fixture is at risk of impact, such as in a gymnasium.

Ballast

The sturdy, die-cast aluminum housing, which encloses the electrical components, is our new EZ Bay Plus Series housing. A thermal chimney separates the ballast core and coil from the capacitor and other components and allows socket heat to escape fixture, thereby extending their useful life. High-power-factor, constant-wattage auto-transformer ballast options are available in 120, 208, 240, 277, 347 or 480 volts. High-power-factor CWA quad-volt (120/208/240/277V) or CWA tri-volt (120/277/347V) ballasts are standard with HSB Mount.

Lamps

Fixture includes mogul-base lamp. Available in 250, 320 or 400W PSMH; 175, 250 or 400W MH; 150, 250 or 400W HPS.

Mountings

Hinged Splice Box (HSB); (Fixed Pendant mount for IP65); Hook, Cord & Plug (HCP); (Eyebolt and Cord mount for IP65). See pages 96–99 for more information on our EZ Connect® Modular Wiring System.

Labels

UL Listed in U.S. and Canada for damp and wet (IP65-rated fixture option) locations and for a minimum elevated ambient temperature of 40°C; most wattages higher – See Technical Data Sheet TD-12 on our web site.

Order Information

Wattage/ Lamp Type	Catalog Number HSB Mount	Catalog Number HCP Mount
250W PSMH	IC1625-M	IC2625-(a)
320W PSMH	IC1632-M	IC2632-(a)
400W PSMH	IC1640-M	IC2640-(a)
175W MH	IC1417-M	IC2417-(a)
250W MH	IC1425-M	IC2425-(a)
400W MH	IC1440-M	IC2440-(a)
150W HPS	IC1515-M	IC2515-(a)
250W HPS	IC1525-M	IC2525-(a)
400W HPS	IC1540-M	IC2540-(a)

For Wet-Listed IP65 option use IP prefix to replace I. Example: IPC1625-M

ED28 reduced envelope lamp standard on 320W PSMH

Other lamp wattages available—consult factory

EZ Connect 10 ga. Lighting Tap use IC6 prefix

(add "A", "B" or "C" after IC6 to denote phase).

EZ Connect 12 ga. Lighting Tap use IC7 prefix

See pages 96–99 for more information on our EZ Connect Modular Wiring System.

(n/a on IP65-rated fixtures)

Options: (Factory-installed)	Change Suffix To	Add After Suffix
Description		
Ballast choices for Hinged Splice Box (HSB) models		
277V Reactor Ballast (PSMH only)	27	
480V	5	
Tri-volt (120/277/347V)	T	

(a) Ballast choices for Hook, Cord & Plug (HCP) models

277V Reactor Ballast (PSMH only)	27	
120V, 277V, 208V, 240V or 480V	1, 2, 3, 4 or 5	
347V	6	
Polycarbonate Drop Prismatic Lens †		V
Single Fuse (277V Reactor, 120V, 277V or 347V)	27, 1, 2 or 6	F
Dual Fuse (208V, 240V or 480V) (n/a Canada)	3, 4 or 5	F
2-Level (120V or 277V) †	1 or 2	G
(250, 320 or 400W PSMH, 250 or 400W MH) (consult factory for other voltages)		
2-Level Integrated Sensor	1, 2, 3, 4, 5 or 6	K
(250, 320 & 400W PSMH, 250 & 400W MH)		
Quartz Standby (delay-relay type) (includes 100W Q lamp) (n/a 277V Reactor) †		Q

Accessories: (Field-installed)

Description	Catalog Number	
Locking-type Receptacle	120V	L5-15R
	120V 2-Level	L14-20R
	208/240V	L6-15R
	277V	L7-15R
	277V 2-Level	L16-20R
	347V	L37*20R
480V	L8-20R	

Power Hook (for use with HCP mount) PH-(a) (1, 2, 3, 4 or 5)

(120V, 277V, 208V, 240V or 480V)

Power Hook (for use with 2-Level & HCP mount) (120V or 277V) PH-(a) (1G or 2G)

Power Hook (for use with HCP mount) PH*6

NOTE: Specify PH-2 for 277V Reactor.

Safety Cable with Hang-Fast (5/1.5 m) † SC-5

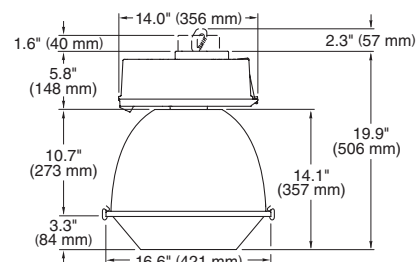
† Available for use on IP65 fixtures.

Catalog Number Logic/Voltage Suffix Key Page 61

Mountings, Options & Accessories Pages 90–91

2-Level Option (250, 320, or 400W PSMH, 250 or 400W MH) Pages 92–95

EZ Connect Modular Wiring System Pages 96–99



Compact Low Bay

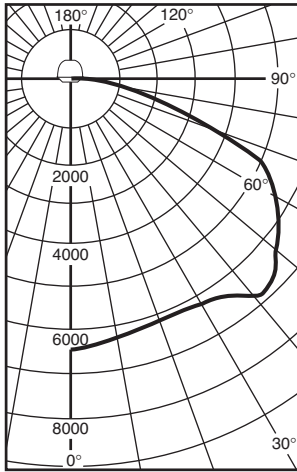
Metal Halide

Lamp: 400 Watt (Clear) – 36,000 lumens

Lens: Drop Prismatic Acrylic

Test Distance: 26' (8 m)

Certified Test Report: Independent Testing Laboratories Inc. No. ITL 36898



Efficiency: 76.3% SC = 1.6

Angle	Mean CP	Lumens
0	6418	
5	6331	601
15	6149	1742
25	6127	2838
35	6336	4028
45	6605	5081
55	5888	5271
65	4876	4677
75	1862	2062
85	595	679
95	190	216
105	158	167
115	92	87
125	11	20
135	0	0
145	0	0
155	0	0
165	0	0
175	0	0

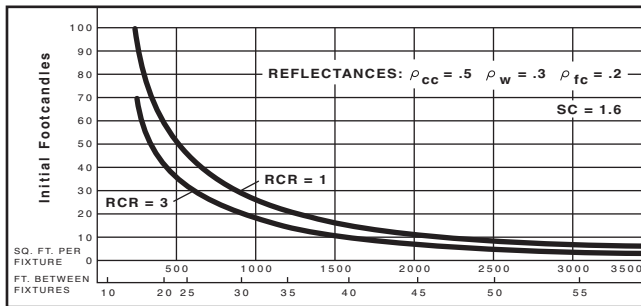
Zone	Lumens	%Lamp	%Fixture
0-30	5181	14.40	18.90
0-40	9209	25.60	33.50
0-60	19561	54.30	71.20
0-90	26979	74.90	98.20
90-120	470	1.30	1.70
90-130	489	1.40	1.80
90-150	489	1.40	1.80
90-180	489	1.40	1.80
0-180	27468	76.30	100.00

Angle	Average (fL)
45	25306
55	25211
65	24503
75	11755
85	5262

Coefficients of Utilization

Effective Floor Cavity Reflectance = .20

CC	80				70				50			30			10		
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
WALL																	
RCR																	
0	0.91	0.91	0.91	0.91	0.88	0.88	0.88	0.88	0.84	0.84	0.84	0.80	0.80	0.80	0.77	0.77	0.77
1	0.82	0.79	0.75	0.72	0.80	0.77	0.74	0.71	0.73	0.71	0.68	0.70	0.68	0.66	0.67	0.65	0.64
2	0.75	0.68	0.63	0.58	0.73	0.67	0.62	0.58	0.64	0.60	0.56	0.61	0.58	0.55	0.59	0.56	0.53
3	0.68	0.59	0.53	0.48	0.66	0.58	0.52	0.47	0.56	0.50	0.46	0.53	0.49	0.45	0.51	0.47	0.44
4	0.62	0.52	0.45	0.40	0.60	0.51	0.45	0.40	0.49	0.43	0.39	0.47	0.42	0.38	0.45	0.41	0.38
5	0.56	0.46	0.39	0.33	0.54	0.45	0.38	0.33	0.43	0.37	0.32	0.41	0.36	0.32	0.40	0.35	0.31
6	0.51	0.40	0.33	0.28	0.49	0.39	0.33	0.28	0.38	0.32	0.27	0.36	0.31	0.27	0.35	0.30	0.27
7	0.46	0.35	0.28	0.23	0.45	0.35	0.28	0.23	0.33	0.27	0.23	0.32	0.27	0.23	0.31	0.26	0.22
8	0.43	0.32	0.25	0.20	0.41	0.31	0.25	0.20	0.30	0.24	0.20	0.29	0.24	0.20	0.28	0.23	0.19
9	0.39	0.28	0.22	0.17	0.38	0.28	0.22	0.17	0.27	0.21	0.17	0.26	0.21	0.17	0.25	0.20	0.17
10	0.36	0.26	0.19	0.15	0.35	0.25	0.19	0.15	0.24	0.19	0.15	0.24	0.18	0.15	0.23	0.18	0.14



Quick Calculator:

Use this chart to determine the number and spacing of Compact Low Bay lights with clear 400W MH lamp. Determine number and spacing for other wattages by using these multipliers:

175W MH 0.39 250W MH 0.57 400W MH* 1.11

*40,000 lumen "Super" 400W MH

Lamp Included!



ICM Series

Medium Low Bay

The 22-inch Medium Low Bay, our midsized low bay luminaire, provides diffuse light distribution without glare, making it ideal for low mounting heights where high illumination levels are needed.

Wet-Listed Fixture Option

Optional wet-listed IP65-rated fixture housing and lens frame is fully silicone gasketed. Fixture includes acrylic drop lens. Optic can be opened with tool-less, quick release latches. All exposed hardware is stainless steel. The optional IP65-rated fixtures are ideal for illuminating produce storage centers, warehouses, dairy barns and other commercial locations including refrigeration zones, areas where misting occurs regularly, or those with dust infiltration. The IP65-rated fixtures are suitable for environments with heavy spray-downs.

Reflector

Our exclusive Colorfast DeltaGuard™ finish, coating both the inner and outer surfaces of the ICM Series reflector creates a highly reflective lighting surface and assists in heat dissipation. The ICM reflector is completely gasketed, both at the point the reflector is attached to the ballast housing and to the refractor where a Dacron® breather gasket is installed. This feature reduces dirt contamination, extending lamp life and performance. Of our three low bay sizes, the ICM Series is the mid-size model with a spun aluminum reflector measuring 22.7 inches (577 mm) in diameter.

Refractor Lens

The prismatic design of the acrylic refractor lens disperses light evenly and

controls glare. The lens secures to the reflector by a support ring and clip system. One clip remains attached to the reflector, holding the refractor lens while lamping the luminaire.

Ballast

The sturdy, die-cast aluminum housing, which encloses the electrical components, is our new EZ Bay Plus Series housing. A thermal chimney separates the ballast core and coil from the capacitor and other components and allows socket heat to escape fixture, thereby extending their useful life. High-power-factor, constant-wattage auto-transformer ballast options are available in 120, 208, 240, 277, 347 or 480 volts. High-power-factor CWA quad-volt (120/208/240/277V) or CWA tri-volt (120/277/347V) ballasts are standard with HSB Mount.

Lamps

Fixture includes clear, mogul-base lamps in: 250, 320 or 400W PSMH, 175, 250 or 400W MH and 150, 250 or 400W HPS.

Mountings

Hinged Splice Box (HSB); (Fixed Pendant mount for IP65); Hook, Cord & Plug (HCP); (Eyebolt and Cord mount for IP65).

Labels

UL Listed in U.S. and Canada for damp and wet locations (IP65-rated fixture option) and for a minimum elevated ambient temperature of 45°C; most wattages higher – See Technical Data Sheet TD-12 on our web site.

Order Information

Wattage/ Lamp Type	Catalog Number HSB Mount	Catalog Number HCP Mount
250W PSMH	ICM1625-M	ICM2625-(a)
320W PSMH	ICM1632-M	ICM2632-(a)
400W PSMH	ICM1640-M	ICM2640-(a)
175W MH	ICM1417-M	ICM2417-(a)
250W MH	ICM1425-M	ICM2425-(a)
400W MH	ICM1440-M	ICM2440-(a)
150W HPS	ICM1515-M	ICM2515-(a)
250W HPS	ICM1525-M	ICM2525-(a)
400W HPS	ICM1540-M	ICM2540-(a)

For Wet-Listed IP65 option use IP prefix to replace I. Example: IPCM1625-M

ED28 reduced envelope lamp standard on 320W PSMH

Other lamp wattages available—consult factory

EZ Connect 10 ga. Lighting Tap use ICM6 prefix (add "A", "B" or "C" after ICM6 to denote phase).

EZ Connect 12 ga. Lighting Tap use ICM7 prefix

See pages 96–99 for more information on our EZ Connect Modular Wiring System. (n/a on IP65-rated fixtures)

Options: (Factory-installed)	Change Suffix To	Add After Suffix
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Ballast choices for Hinged Splice Box (HSB) models		
277V Reactor Ballast (PSMH only)	27	
480V	5	
Tri-volt (120/277/347V)	T	

(a) Ballast choices for Hook, Cord & Plug (HCP) models		
277V Reactor Ballast (PSMH only)	27	
120V, 277V, 208V, 240V or 480V	1, 2, 3, 4 or 5	
347V	6	

Polycarbonate Drop Prismatic Lens †		V
Single Fuse (277V Reactor, 120V, 277V or 347V)	27, 1, 2 or 6	F
Dual Fuse (208V, 240V or 480V) (n/a Canada)	3, 4 or 5	F
2-Level (120V or 277V) †	1 or 2	G
(250, 320 or 400W PSMH, 250 or 400W MH) (consult factory for other voltages)		
2-Level Integrated Sensor	1, 2, 3, 4, 5 or 6	K
(250, 320 & 400W PSMH, 250 & 400W MH)		
Quartz Standby (delay-relay type) (includes 100W Q lamp) (n/a 277V Reactor) †		Q

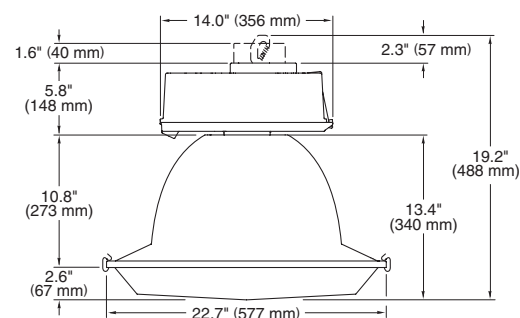
Accessories: (Field-installed)		
Description		Catalog Number
Locking-type Receptacle	120V	L5-15R
	120V 2-Level	L14-20R
	208/240V	L6-15R
	277V	L7-15R
	277V 2-Level	L16-20R
	347V	L37*20R
Power Hook (for use with HCP mount)	480V	L8-20R

Power Hook (for use with HCP mount) (120V, 208V, 240V, or 480V)	PH-(a) (1, 2, 3, 4 or 5)
Power Hook (for use with 2-Level & HCP mount) (120V or 277V)	PH-(a) (1G or 2G)
Power Hook (for use with HCP mount)	PH*6

NOTE: Specify PH-2 for 277V Reactor.
Safety Cable with Hang-Fast (5/1.5 m) † SC-5

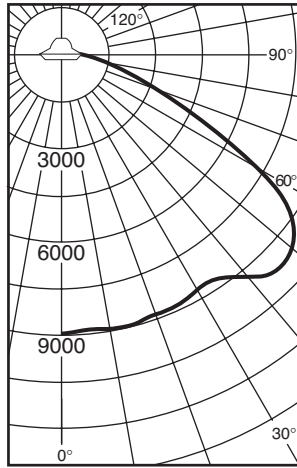
† Available for use on IP65 fixtures.

Catalog Number Logic/Voltage Suffix Key Page 61
 Mountings, Options & Accessories Pages 90–91
 2-Level Option (250, 320 or 400W PSMH, 250 or 400W MH) Pages 92–95
 EZ Connect Modular Wiring System Pages 96–99



Medium Low Bay

Lamp: 400-Watt PSMH (Clear) – 44,000 lumens



Efficiency: 82.9% SC = 1.5

Candlepower Summary

Angle	Mean CP	Lumens
0	8994	
5	8884	863
15	8973	2531
25	8823	4064
35	8762	5560
45	9671	7387
55	8659	7544
65	4387	4466
75	1838	2001
85	852	950
95	360	405
105	145	186
115	324	306
125	250	205
135	0	2
145	0	0
155	0	0
165	0	0
175	0	0
180	0	0

Zonal Lumens and Percentages

Zone	Lumens	%Lamp	%Fixture
0-30	7458	16.95	20.45
0-40	13018	29.59	35.70
0-60	27949	63.52	76.63
0-90	35366	80.38	96.97
40-90	22348	50.79	61.28
60-90	7417	16.86	20.34
90-180	1103	2.51	3.03
0-180	36470	82.89	100.00

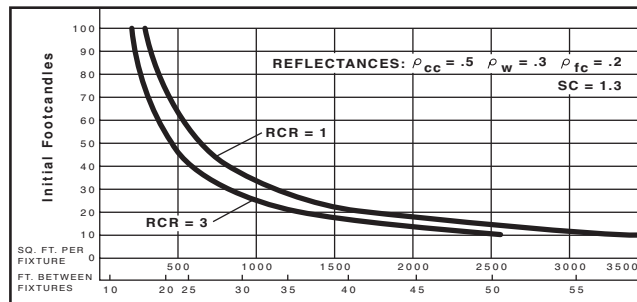
Luminance Data

Angle	Average (fL)
45°	17395
55°	17945
65°	11124
75°	6245
85°	4597

Coefficients of Utilization

Effective Floor Cavity Reflectance = .20

CC	80			70			50			30			10				
	WALL	70	50	30	10	70	50	30	10	50	30	10	50	30	10		
RCR	0	0.98	0.98	0.98	0.98	0.96	0.96	0.96	0.96	0.91	0.91	0.91	0.86	0.86	0.86		
	1	0.90	0.86	0.82	0.79	0.87	0.84	0.81	0.78	0.80	0.77	0.75	0.76	0.74	0.72	0.73	0.71
2	0.82	0.75	0.70	0.65	0.80	0.74	0.69	0.64	0.70	0.66	0.62	0.67	0.64	0.61	0.64	0.62	0.59
3	0.75	0.66	0.59	0.54	0.72	0.65	0.58	0.54	0.62	0.57	0.52	0.59	0.55	0.51	0.57	0.53	0.50
4	0.68	0.59	0.51	0.46	0.66	0.57	0.51	0.45	0.55	0.49	0.45	0.53	0.48	0.44	0.51	0.46	0.43
5	0.62	0.52	0.44	0.39	0.60	0.51	0.43	0.38	0.48	0.42	0.38	0.47	0.41	0.37	0.45	0.40	0.36
6	0.57	0.46	0.38	0.33	0.55	0.45	0.37	0.32	0.43	0.37	0.32	0.41	0.36	0.31	0.40	0.35	0.31
7	0.52	0.40	0.33	0.28	0.50	0.39	0.32	0.27	0.38	0.31	0.27	0.36	0.31	0.26	0.35	0.30	0.26
8	0.48	0.36	0.29	0.24	0.46	0.35	0.28	0.23	0.34	0.28	0.23	0.33	0.27	0.23	0.31	0.26	0.22
9	0.44	0.32	0.25	0.20	0.42	0.32	0.25	0.20	0.30	0.24	0.20	0.29	0.24	0.20	0.28	0.23	0.19
10	0.40	0.29	0.22	0.18	0.39	0.28	0.22	0.17	0.27	0.21	0.17	0.27	0.21	0.17	0.26	0.20	0.17



Quick Calculator:

Use this chart to determine the number and spacing of Medium Low Bay lights with clear 400W PSMH lamp. Determine number and spacing for other wattages by using these multipliers:

250W PSMH 0.57 320W PSMH 0.75

Lamp Included!



ICJ Series

Low Bay

A larger diameter reflector and lens disperse light over a greater surface area and reduce fixture brightness. The Low Bay provides efficient, symmetric light distribution for warehouses, aisle lighting and applications where high illumination levels are required.

Wet-Listed Fixture Option

Optional wet-listed IP65-rated fixture housing and lens frame is fully silicone gasketed. Fixture includes acrylic drop lens. Optic can be opened with tool-less, quick release latches. All exposed hardware is stainless-steel. The optional IP65-rated fixtures are ideal for illuminating produce storage centers, warehouses, dairy barns and other commercial locations including refrigeration zones, areas where misting occurs regularly, or those with dust infiltration. The IP65-rated fixtures are suitable for environments with heavy spray-downs.

Reflector

The Low Bay reflector measures 28.6 inches in diameter and is totally enclosed and gasketed, both at the point the reflector is attached to the ballast housing and to the refractor where a Dacron® breather gasket is installed. This feature reduces dirt contamination, extending lamp life and performance. An improved, high-reflectance, ultra-durable white powder paint provides a durable finish, while improving heat dissipation and distribution. A high reflector efficiency of nearly 84 percent provides a spacing criterion of up to 2.0.

Refractor Lens

The acrylic refractor is molded with a prismatic design to soften and disperse light from the reflector. This optical

system is designed to maximize efficiency and distribution while controlling glare. This lens is held in place by an aluminum support ring, which clips to the reflector. One clip is secured to the reflector to support the lens for ease when relamping.

Ballast

The sturdy, die-cast aluminum housing, which encloses the electrical components, is our new EZ Bay Plus Series housing. A thermal chimney separates the ballast core and coil from the capacitor and other components and allows socket heat to escape fixture, thereby extending their useful life. High-power-factor, constant-wattage auto-transformer ballast options are available in 120, 208, 240, 277, 347 or 480 volts. High-power-factor CWA quad-volt (120/208/240/277V) or CWA tri-volt (120/277/347V) ballasts are standard with HSB Mount.

Lamps

Fixture includes mogul-base lamp. Available in 250, 320 or 400W PSMH; 175, 250 or 400W MH; 150, 250 or 400W HPS.

Mountings

Hinged Splice Box (HSB); (Fixed Pendant mount for IP65); Hook, Cord & Plug (HCP); (Eyebolt and Cord mount for IP65). See pages 96–99 for more information on our EZ Connect® Modular Wiring System.

Labels

UL Listed in U.S. and Canada for damp and wet (IP65-rated fixture option) locations and for a minimum elevated ambient temperature of 55°C; most wattages higher – See Technical Data Sheet TD-12 on our web site.

Order Information

Wattage/ Lamp Type	Catalog Number HSB Mount	Catalog Number HCP Mount
250W PSMH	ICJ1625-M	ICJ2625-(a)
320W PSMH	ICJ1632-M	ICJ2632-(a)
400W PSMH	ICJ1640-M	ICJ2640-(a)
175W MH	ICJ1417-M	ICJ2417-(a)
250W MH	ICJ1425-M	ICJ2425-(a)
400W MH	ICJ1440-M	ICJ2440-(a)
150W HPS	ICJ1515-M	ICJ2515-(a)
250W HPS	ICJ1525-M	ICJ2525-(a)
400W HPS	ICJ1540-M	ICJ2540-(a)

For Wet-Listed IP65 option use IP prefix to replace I. Example: IPCJ1625-M

ED28 reduced envelope lamp standard on 320W PSMH

Other lamp wattages available—consult factory

EZ Connect 10 ga. Lighting Tap use ICJ6 prefix

(add “A”, “B” or “C” after ICJ6 to denote phase).

EZ Connect 12 ga. Lighting Tap use ICJ7 prefix

See pages 96–99 for more information on our EZ Connect Modular Wiring System.

(n/a on IP65-rated fixtures)

Options (Factory-installed)	Change Suffix To	Add After Suffix
Description		
Ballast choices for Hinged Splice Box (HSB) models		
277V Reactor Ballast (PSMH only)	27	
480V	5	
Tri-volt (120/277/347V)	T	

(a) Ballast choices for Hook, Cord & Plug (HCP) models

277V Reactor Ballast (PSMH only)	27	
120V, 277V, 208V, 240V or 480V	1, 2, 3, 4 or 5	
347V	6	
Single Fuse (277V Reactor, 120V, 277V or 347V)	27, 1, 2 or 6	F
Dual Fuse (208V, 240V or 480V) (n/a Canada)	3, 4 or 5	F
2-Level (120V or 277V) †	1 or 2	G
(250, 320 or 400W PSMH, 250 or 400W MH) (consult factory for other voltages)		
2-Level Integrated Sensor	1, 2, 3, 4, 5 or 6	K
(250, 320 & 400W PSMH, 250 & 400W MH)		
Quartz Standby (delay-relay type) (includes 100W Q lamp) (n/a 277V Reactor) †		Q

Accessories: (Field-installed)

Description	Catalog Number
Locking-type Receptacle	120V L5-15R
	120V 2-Level L14-20R
	208/240V L6-15R
	277V L7-15R
	277V 2-Level L16-20R
	347V L37*20R
	480V L8-20R

Power Hook (for use with HCP mount) PH-(a) (1, 2, 3, 4 or 5)

(120V, 277V, 208V, 240V or 480V)

Power Hook (for use with 2-Level & HCP mount) (120V or 277V) PH-(a) (1G or 2G)

Power Hook (for use with HCP mount) PH*6

NOTE: Specify PH-2 for 277V Reactor.

Safety Cable with Hang-Fast (5/1.5 m) † SC-5

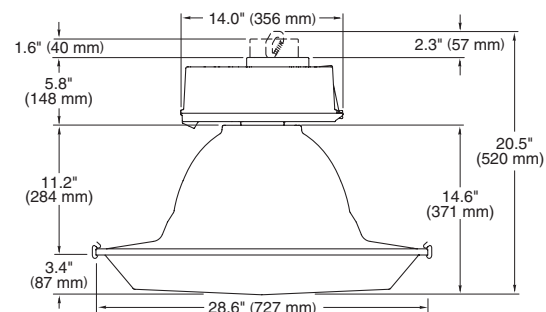
† Available for use on IP65 fixtures.

Catalog Number Logic/Voltage Suffix Key Page 61

Mountings, Options & Accessories Pages 90–91

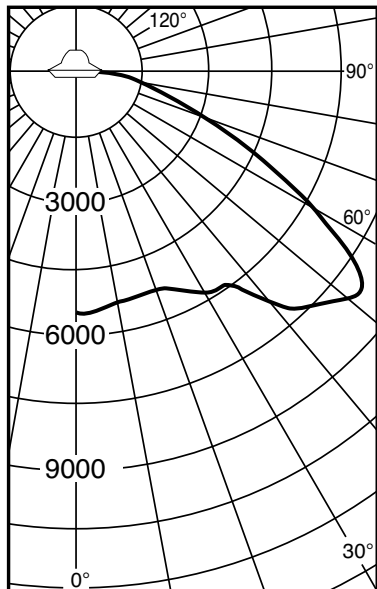
2-Level Option (250, 320 or 400W PSMH, 250 or 400W MH) Pages 92–95

EZ Connect Modular Wiring System Pages 96–99



Low Bay

Lamp: 400-Watt MH (Clear) – 36,000 lumens
 Lens: Prismatic Drop Lens
 Test Distance: 26' (8 m)
 Certified Test Report: Lighting Sciences, Inc.
 No. LSI 14957



Efficiency = 82.2%; SC = 1.9; S/MH = 1.9

Candlepower Summary

Angle	Mean CP	Lumens
0	5334	
5	5296	508
15	5130	1454
25	5271	2463
35	5675	3680
45	7199	5571
55	7723	6659
65	4565	4567
75	2276	2437
85	1143	1287
95	510	601
105	205	227
115	112	111
125	25	25
135	0	0
145	0	0
155	0	0
165	0	0
175	0	0
180	0	0

Zonal Lumens and Percentages

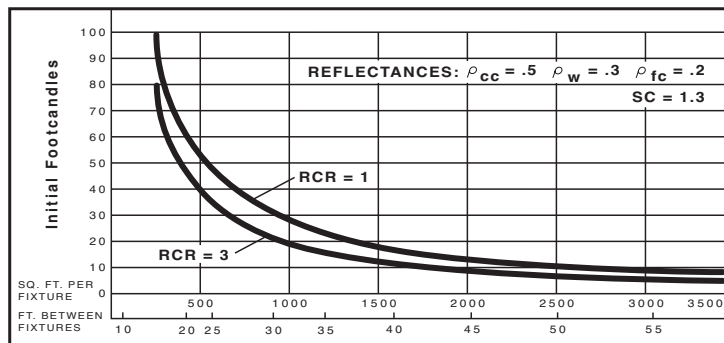
Zone	Lumens	% Lamp	% Luminaire
0-30	4424	12.29	14.95
0-40	8104	22.51	27.39
0-60	20334	56.48	68.72
0-90	28625	79.51	96.74
40-90	20520	57.00	69.35
60-90	8290	23.03	28.02
90-180	965	2.68	3.26
0-180	29590	82.20	100.00

Angle	Mean Cd./sq. M
45	27055
55	33619
65	24495
75	16577
85	13587

Coefficients of Utilization

Effective Floor Cavity Reflectance = 0.20

CC	80				70				50				30				10				0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	0.97	0.97	0.97	0.97	0.95	0.95	0.95	0.95	0.90	0.90	0.90	0.85	0.85	0.85	0.81	0.81	0.81	0.80			
1	0.88	0.83	0.79	0.76	0.85	0.81	0.78	0.74	0.77	0.74	0.71	0.73	0.71	0.69	0.70	0.68	0.66	0.64			
2	0.79	0.72	0.66	0.61	0.77	0.70	0.64	0.60	0.66	0.62	0.58	0.63	0.60	0.56	0.61	0.57	0.54	0.52			
3	0.71	0.62	0.55	0.49	0.69	0.60	0.54	0.48	0.57	0.52	0.47	0.55	0.50	0.46	0.52	0.48	0.45	0.43			
4	0.65	0.54	0.46	0.40	0.63	0.53	0.46	0.40	0.50	0.44	0.39	0.48	0.43	0.38	0.46	0.41	0.37	0.35			
5	0.59	0.47	0.39	0.33	0.56	0.46	0.38	0.33	0.44	0.37	0.32	0.42	0.36	0.32	0.40	0.35	0.31	0.29			
6	0.53	0.41	0.33	0.27	0.51	0.40	0.33	0.27	0.38	0.32	0.27	0.37	0.31	0.26	0.35	0.30	0.26	0.24			
7	0.48	0.36	0.28	0.23	0.46	0.35	0.28	0.22	0.33	0.27	0.22	0.32	0.26	0.21	0.31	0.25	0.21	0.19			
8	0.44	0.32	0.24	0.19	0.43	0.31	0.24	0.19	0.30	0.23	0.19	0.29	0.23	0.18	0.27	0.22	0.18	0.16			
9	0.41	0.29	0.21	0.16	0.39	0.28	0.21	0.16	0.27	0.20	0.16	0.26	0.20	0.15	0.24	0.19	0.15	0.13			
10	0.37	0.26	0.18	0.14	0.36	0.25	0.18	0.14	0.24	0.18	0.13	0.23	0.17	0.13	0.22	0.17	0.13	0.11			



QUICK CALCULATOR: Use this chart to determine the number and spacing of Low Bay lights with 36,000 lumen, 400W MH clear lamp. Determine number and spacing for other wattages by using these multipliers:

175W MH 0.39 250W MH 0.57 400W MH* 1.11

*40,000 lumens "Super" 400W MH

Lamp Included!



FC Series

Mini Low Bay

The FC Series is part of our line of Mini Industrial Lights designed for low mounting heights.

Reflector/Refractor

The completely enclosed and gasketed reflector is finished with a white ultra-durable powder paint. An acrylic drop prismatic refractor lens disperses the light while reducing apparent brightness.

Housing

Die-cast aluminum housing features a thermal air-isolation chamber separating the ballast from the capacitor and ignitor to reduce component operating temperature and extend useful life. The housing is standard with our exclusive Colorfast DeltaGuard™ finish featuring an E-coat epoxy primer and white ultra-durable powder topcoat.

Ballast

In the U.S., 70- and 100-watt MH fixtures are standard with a high-power-factor dual-volt (120/277V) ballast; in Canada a tri-volt ballast (120/277/347V) is used. The 175-watt MH and 150W PSMH SSB and direct mounts are standard with a quad-volt high-power-factor ballast. The 175-watt MH HCP mount and HPS fixtures are standard with a 120-volt high-power-factor ballast. Ballast options for these fixtures include 208, 240, 277 and 347 volts. The 150W PSMH is available with a 277V Reactor ballast.

Lamps

The FC Series accommodates clear, medium-base lamps; 150-watt PSMH; 70-, 100- or 175-watt MH; 70-, 100- or 150-watt HPS.

Mountings

Three mounting methods are available: Slide Splice Box (SSB), for pendant mounting with rigid conduit. Slide Splice Box mounting configuration provides a removable steel electrical box that can be installed prior to mounting the fixture using 3/4-inch conduit for pendant mounting and three knockouts for 1/2-inch conduit for surface wiring. The box attaches to the top of ballast housing by a slide mechanism and is held in place by a fastener. Hook, Cord & Plug (HCP) provides a heavy-duty steel hanger with safety lock spring to suspend fixture from a ceiling and 30-inch (610 mm) cord with NEMA Locking-Type plug. Direct Mount for installation over a recessed junction box. Refer to page 90 for details on these mountings. If surface wiring is required, use the Direct Mount with the ESB-7WH Surface Mounting Box accessory.

Labels

FC Series fixtures are UL Listed in U.S. and Canada for damp locations.

Order Information

Wattage/ Lamp Type	SSB Mount	HCP Mount	Direct Mount
150W PSMH	FC1615-M	FC2615-(a)	FC3615-M
70W MH	FC1407-D	FC2407-(a)	FC3407-D
100W MH	FC1410-D	FC2410-(a)	FC3410-D
175W MH	FC1417-M	FC2417-1	FC3417-M
70W HPS	FC1507-1	FC2507-1	FC3507-1
100W HPS	FC1510-1	FC2510-1	FC3510-1
150W HPS	FC1515-1	FC2515-1	FC3515-1

Options (Factory-installed)	Change Suffix To	Add After Suffix
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Ballast choices for Slide Splice Box (SSB) and Direct models		
277V Reactor Ballast (PSMH only)		27
Quad-volt (120/208/240/277V) (70W & 100W MH only)		M
Quad-volt (120/208/240/277V) (HPS only)		M
Tri-volt (120/277/347V) (PSMH & 175W MH only)		T
Tri-volt (120/277/347V) (70 & 100W MH only)		T
Tri-volt (120/277/347V) (HPS only)		T

(a) Ballast choices for Hook, Cord & Plug (HCP) models		
277V Reactor Ballast (PSMH only)		27
120V, 277V, 208V or 240V (PSMH & 175W MH only)		1, 2, 3 or 4
120V or 277V (70 & 100W MH only)		1 or 2
208V or 240V (70 & 100W MH only)		3 or 4
277V, 208V or 240V (HPS only)		2, 3 or 4
347V (PSMH & 175W MH only)		6
347V (70 & 100W MH only)		6
347V (HPS only)		6

Poly Lens or Refractor		V
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Accessories: (Field-installed)

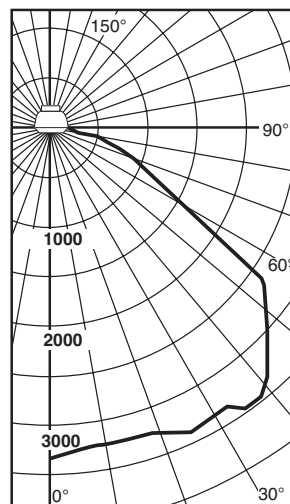
Description		Catalog Number
Locking-type Receptacle	120V	L5-15R
	208/240V	L6-15R
	277V	L7-15R
	347V	L37*20R

Power Hook (for use with HCP mount) (120V, 277V, 208V or 240V)	PH-(a) (1, 2, 3 or 4)
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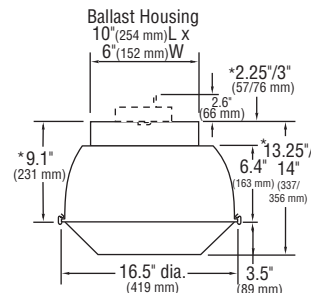
Power Hook (for use with HCP mount)	PH*6
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Surface Mounting Box (for use with Direct Mounted fixtures)	ESB-7WH
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Catalog Number Logic/Voltage Suffix Key	Page 61
Mountings, Options & Accessories	Pages 90-91



175-Watt MH (Clear) – 14,000 lumens
Efficiency: 83.8%, SC = 1.6



*Dimension varies with voltage and lamp type (consult factory).

Lamp
Included!



FP Series

Mini Prismatic

The FP Series is part of our line of Mini Industrial Lights designed for low mounting heights.

Reflector

Reflector is precision injection molded acrylic. Etched and anodized aluminum internal reflector adds support to prismatic reflector while improving photometric distribution. 175-watt MH units are provided with a clear, domed acrylic lens (optional with all other wattages).

Housing

Die-cast aluminum housing features a thermal air-isolation chamber separating the ballast from the capacitor and ignitor to reduce component operating temperature and extend useful life. The housing is standard with our exclusive Colorfast DeltaGuard™ finish featuring an E-coat epoxy primer and white ultra-durable powder topcoat.

Ballast

In the U.S., 70- and 100-watt MH fixtures are standard with a high-power-factor dual-volt (120/277V) ballast; in Canada a tri-volt ballast (120/277/347V) is used. The 175-watt MH and 150W PSMH SSB and direct mount fixtures are standard with a quad-volt high-power-factor ballast. The 175-watt MH HCP mount and HPS fixtures are standard with a 120-volt high-power-factor ballast. Ballast options for these fixtures include 208, 240, 277 and 347 volts. The 150W PSMH is available with a 277V Reactor ballast.

Lamps

The FP Series accommodates medium base lamps; coated 150-watt open-rated PSMH; coated 70- or 100-watt open-rated MH; coated 175-watt MH; clear 70-, 100- or 150-watt HPS lamps. Non open-rated lamps and sockets supplied when ordering luminaires with PSMH or MH and a bottom enclosure.

Mountings

Three mounting methods are available: Slide Splice Box (SSB), for pendant mounting with rigid conduit. Slide Splice Box mounting configuration provides a removable steel electrical box that can be installed prior to mounting the fixture using 3/4-inch conduit for pendant mounting and three knockouts for 1/2-inch conduit for surface wiring. The box attaches to the top of ballast housing by a slide mechanism and is held in place by a fastener. Hook, Cord & Plug (HCP) provides a heavy-duty steel hanger with safety lock spring to suspend fixture from a ceiling and 30-inch (610 mm) cord with NEMA Locking-Type plug. Direct Mount for installation over a recessed junction box. Refer to page 90 for details on these mountings. If surface wiring is required, use the Direct Mount with the ESB-7WH Surface Mounting Box accessory.

Labels

FP Series fixtures are UL Listed in U.S. and Canada for damp locations.

Order Information

Wattage/ Lamp Type	SSB Mount	HCP Mount	Direct Mount
150W PSMH	FP1615-MO	FP2615-(a)O	FP3615-MO
70W MH	FP1407-DO	FP2407-(a)O	FP3407-DO
100W MH	FP1410-DO	FP2410-(a)O	FP3410-DO
175W MH	FP1417-MA	FP2417-1A	FP3417-MA
70W HPS	FP1507-1	FP2507-1	FP3507-1
100W HPS	FP1510-1	FP2510-1	FP3510-1
150W HPS	FP1515-1	FP2515-1	FP3515-1

Options (Factory-installed) Description	Change Suffix To	Add After Suffix
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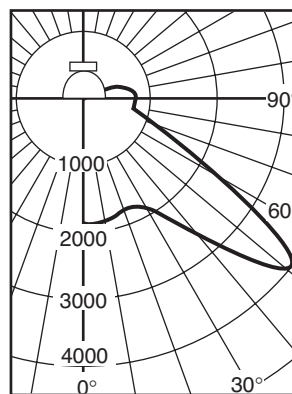
Ballast choices for Slide Splice Box (SSB) and Direct models		
277V Reactor Ballast (PSMH only)		27
Quad-volt (120/208/240/277V) (70 & 100W MH only)		M
Quad-volt (120/208/240/277V) (HPS only)		M
Tri-volt (120/277/347V) (PSMH & 175W MH only)		T
Tri-volt (120/277/347V) (70 & 100W MH only)		T
Tri-volt (120/277/347V) (HPS only)		T

(a) Ballast choices for Hook, Cord & Plug (HCP) models		
277V Reactor Ballast (PSMH only)		27
120V, 277V, 208V or 240V (PSMH & 175W MH only)		1, 2, 3 or 4
120V or 277V (70 & 100W MH only)		1 or 2
208V or 240V (70 & 100W MH only)		3 or 4
277V, 208V or 240V (HPS only)		2, 3 or 4
347V (PSMH & 175W MH only)		6
347V (70 & 100W MH only)		6
347V (HPS only)		6

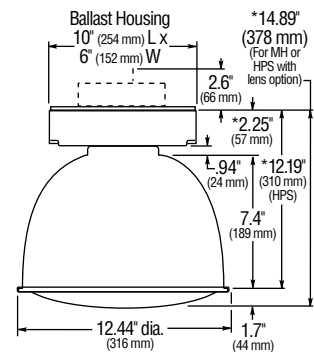
Acrylic Dome Lens (150W PSMH, 70 & 100W MH) (Standard on 175W MH)		change "O" to "A"
Acrylic Dome Lens (HPS only)		A
Polycarbonate Lens or Refractor (open)		V
Polycarbonate Dome Lens & Refractor		AV
Conical Lens (PSMH, 70 & 100W MH only)		change "O" to "Y"
Conical Lens (175W MH only)		change "A" to "Y"
Conical Lens (70-150W HPS only)		Y

Accessories: (Field-installed)		
Description		Catalog Number
Locking-type Receptacle	120V	L5-15R
	208/240V	L6-15R
	277V	L7-15R
	347V	L37*20R
Power Hook (for use with HCP mount) (120V, 277V, 208V or 240V)		PH-(a) (1, 2, 3 or 4)
Power Hook (for use with HCP mount)		PH*6
Surface Mounting Box (for use with Direct Mounted fixtures)		ESB-7WH

Catalog Number Logic/Voltage Suffix Key	Page 61
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175-Watt MH (Coated) – 15,000 lumens
Efficiency: 91.4%, SC = 2.3,
S/MH = 2.6



* Dimension varies with voltage and lamp type (consult factory).

Lamp
Included!

F Series

Mini Refractor

The F Series is part of our line of Mini Industrial Lights designed for low mounting heights.

Refractor

Open acrylic refractor lens is attached to the aluminum reflector with a V-band. Two NEMA optical types are available: Type II—a long and narrow distribution for aisle areas, and Type V—a symmetric distribution. (Type V is standard.) This fixture is typically used for warehouse and storage areas with average mounting heights of 10 to 15 feet.

Housing

Die-cast aluminum housing features a thermal air-isolation chamber separating the ballast from the capacitor and ignitor to reduce component operating temperature and extend useful life. The housing is standard with our exclusive Colorfast DeltaGuard™ finish featuring an E-coat epoxy primer and white ultra-durable powder topcoat.

Ballast

In the U.S., 70- and 100-watt MH fixtures are standard with a high-power-factor dual-volt (120/277V) ballast; in Canada a tri-volt ballast (120/277/347V) is used. The 150-watt PSMH SSB and direct mounts are standard with a quad-volt high-power-factor ballast. HPS fixtures are standard with a 120-volt high-power-factor ballast. Ballast options for these fixtures include 208, 240, 277 and 347 volts. The 150W PSMH is available with a 277V Reactor ballast.

Lamps

The F Series accommodates clear, medium-base lamps; 150-watt open-rated PSMH; 70- or 100-watt open-rated MH; 70-, 100- or 150-watt high HPS lamps.

Mountings

Three mounting methods are available: Slide Splice Box (SSB), for pendant mounting with rigid conduit. Slide Splice Box mounting configuration provides a removable steel electrical box that can be installed prior to mounting the fixture using 3/4-inch conduit for pendant mounting and three knockouts for 1/2-inch conduit for surface wiring. The box attaches to the top of ballast housing by a slide mechanism and is held in place by a fastener. Hook, Cord & Plug (HCP) provides a heavy-duty steel hanger with safety lock spring to suspend fixture from a ceiling and 30-inch (610 mm) cord with NEMA Locking-Type plug. Direct Mount for installation over a recessed junction box. Refer to page 90 for details on these mountings. If surface wiring is required, use the Direct Mount with the ESB-7WH Surface Mounting Box accessory.

Labels

F Series fixtures are UL Listed in U.S. and Canada for damp locations.

Order Information

Wattage/ Lamp Type	SSB Mount	HCP Mount	Direct Mount
150W PSMH	F1615-MSO	F2615-(a)SO	F3615-MSO
70W MH	F1407-DSO	F2407-(a)SO	F3407-DSO
100W MH	F1410-DSO	F2410-(a)SO	F3410-DSO
70W HPS	F1507-1S	F2507-1S	F3507-1S
100W HPS	F1510-1S	F2510-1S	F3510-1S
150W HPS	F1515-1S	F2515-1S	F3515-1S

Options (Factory-installed) Description	Change Suffix To	Add After Suffix
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Ballast choices for Slide Splice Box (SSB) and Direct models

277V Reactor Ballast (PSMH only)	27
Quad-volt (120/208/240/277V) (MH only)	M
Quad-volt (120/208/240/277V) (HPS only)	M
Tri-volt (120/277/347V) (PSMH only)	T
Tri-volt (120/277/347V) (MH only)	T
Tri-volt (HPS only)	T

(a) Ballast choices for Hook, Cord & Plug (HCP) models

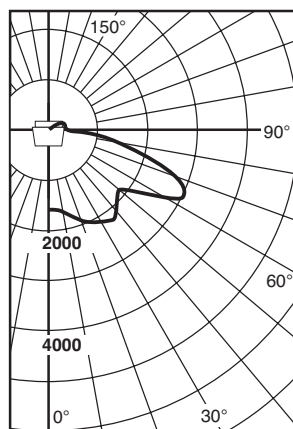
277V Reactor Ballast (PSMH only)	27
120V, 277V, 208V or 240V (PSMH only)	1, 2, 3 or 4
120V or 277V (MH only)	1 or 2
208V or 240V (MH only)	3 or 4
277V, 208V or 240V (HPS only)	2, 3 or 4
347V (PSMH only)	6
347V (MH only)	6
347V (HPS only)	6
Type II Distribution	change "S" to "A"

Accessories: (Field-installed)

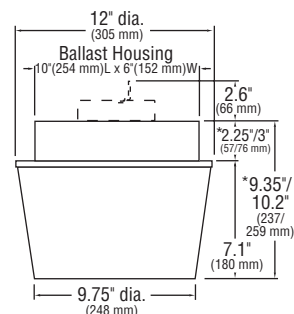
Description	Catalog Number
Locking-type Receptacle	120V
	208/240V
	277V
	347V
Power Hook (for use with HCP mount) (120V, 277V, 208V or 240V)	PH-(a) (1, 2, 3 or 4)
Power Hook (for use with HCP mount)	PH*6
Surface Mounting Box (for use with Direct Mounted fixtures)	ESB-7WH

Catalog Number Logic/Voltage Suffix Key Page 61

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150-Watt HPS (Clear) – 16,000 lumens
Efficiency: 89.1%, SC = 1.9



*Dimension varies with voltage and lamp type (consult factory).

Lamp Included!



D Series

Mini Reflector

The D Series is part of our line of Mini Industrial Lights designed for low mounting heights.

Reflector

Hydroformed aluminum reflector is finished by brightening and anodizing and attaches directly to ballast housing with screws.

Housing

Die-cast aluminum housing features a thermal air-isolation chamber separating the ballast from the capacitor and ignitor to reduce component operating temperature and extend useful life. The housing is standard with our exclusive Colorfast DeltaGuard™ finish featuring an E-coat epoxy primer and white ultra-durable powder topcoat.

Ballast

In the U.S., 70- and 100-watt MH fixtures are standard with a high-power-factor dual-volt (120/277V) ballast; in Canada a tri-volt ballast (120/277/347V) is used. The 150-watt PSMH SSB and direct mounts are standard with a quad-volt high-power-factor ballast. HPS fixtures are standard with a 120-volt high-power-factor ballast. Ballast options for these fixtures include 208, 240, 277 and 347 volts. The 150W PSMH is available with a 277V Reactor ballast.

Lamps

The D Series accommodates medium base lamps; coated 150-watt open-rated PSMH; coated 70- or 100-watt open-rated MH; clear 70-, 100- or 150-watt HPS.

Mountings

Three mounting methods are available: Slide Splice Box (SSB), for pendant mounting with rigid conduit. Slide Splice Box mounting configuration provides a removable steel electrical box that can be installed prior to mounting the fixture using 3/4-inch conduit for pendant mounting and three knockouts for 1/2-inch conduit for surface wiring. The box attaches to the top of ballast housing by a slide mechanism and is held in place by a fastener. Hook, Cord & Plug (HCP) provides a heavy-duty steel hanger with safety lock spring to suspend fixture from a ceiling and 30-inch (610 mm) cord with NEMA Locking-Type plug. Direct Mount for installation over a recessed junction box. Refer to page 90 for details on these mountings. If surface wiring is required, use the Direct Mount with the ESB-7WH Surface Mounting Box accessory.

Labels

D Series fixtures are UL Listed in U.S. and Canada for damp locations.

Order Information

Wattage/ Lamp Type	SSB Mount	HCP Mount	Direct Mount
150W PSMH	D1615-MO	D2615-(a)0	D3615-MO
70W MH	D1407-DO	D2407-(a)0	D3407-DO
100W MH	D1410-DO	D2410-(a)0	D3410-DO
70W HPS	D1507-1	D2507-1	D3507-1
100W HPS	D1510-1	D2510-1	D3510-1
150W HPS	D1515-1	D2515-1	D3515-1

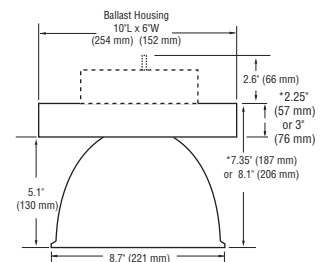
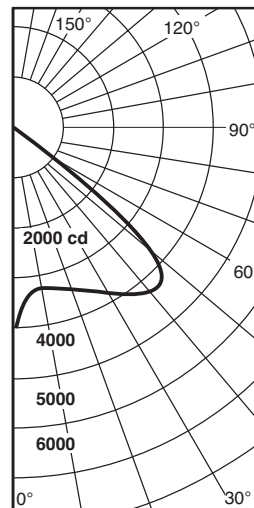
Options (Factory-installed) Description	Change Suffix To	Add After Suffix
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Ballast choices for Slide Splice Box (SSB) and Direct models	
277V Reactor Ballast (PSMH only)	27
Quad-volt (120/208/240/277V) (MH only)	M
Quad-volt (120/208/240/277V) (HPS only)	M
Tri-volt (120/277/347V) (PSMH only)	T
Tri-volt (120/277/347V) (MH only)	T
Tri-volt (HPS only)	T

(a) Ballast choices for Hook, Cord & Plug (HCP) models	
277V Reactor Ballast (PSMH only)	27
120V, 277V, 208V or 240V (PSMH only)	1, 2, 3 or 4
120V or 277V (MH only)	1 or 2
208V or 240V (MH only)	3 or 4
277V, 208V or 240V (HPS only)	2, 3 or 4
347V (PSMH only)	6
347V (MH only)	6
347V (HPS only)	6

Accessories: (Field-installed)		
Description	Catalog Number	
Locking-type Receptacle	120V	L5-15R
	208/240V	L6-15R
	277V	L7-15R
	347V	L37*20R
Power Hook (for use with HCP mount)	PH-(a) (1, 2, 3 or 4)	
(120V, 277V, 208V or 240V)		
Power Hook (for use with HCP mount)	PH*6	
Surface Mounting Box (for use with Direct Mounted fixtures)	ESB-7WH	

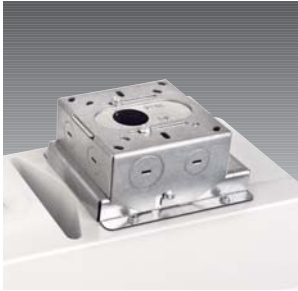
Catalog Number Logic/Voltage Suffix Key	Page 61
Mountings, Options & Accessories	Pages 90-91



150-Watt HPS (Coated) – 16,000 lumens
Efficiency: 77.9%, SC = 1.7

*Dimension varies with voltage and lamp type (consult factory).

Mountings, Options & Accessories



Hinged Splice Box (HSB Mount)

For EZ Bay Plus™ Series. Designed for surface or pendant mounting, the HSB has two 3/4" and six 1/2" knockouts on the sides and one 3/4" adjustable knockout and mounting holes for common junction boxes on top. The galvanized steel HSB is roomy, measuring 4"W x 4"L x 1.6"H (102 mm W x 102 mm L x 41 mm H).



Hook, Cord & Plug (HCP Mount)

For EZ Bay Plus™ Series. To suspend luminaire from a ceiling eye hanger (customer supplied), a quick connect hook with retainer spring is provided. Supplied with a 30-inch (762 mm) SJEOW 18/3 cord and a voltage-specific NEMA standard locking-type plug for appropriate voltage.



Slide Splice Box (SSB Mount)

For D, F, FC and FP Series. For either surface wiring or pendant mount from rigid conduit. A removable steel electrical box can be installed prior to mounting the fixture, using 3/4-inch conduit for pendant mounting (shown) and three 1/2-inch knockouts for surface wiring.



Hook, Cord & Plug (HCP Mount)

For D, F, FC and FP Series. To suspend fixture from a ceiling eye hanger (customer supplied), a quick connect hook with retainer spring is provided. Furnished with a 30-inch (762 mm) cord and NEMA standard locking-type plug for appropriate voltage.



Direct Mount

For D, F, FC and FP Series Mini Industrial fixtures. For installation over a recessed junction box. If surface wiring is required, use the Direct Mount with the ESB-7WH Surface Mounting Box accessory (see next page).



External Fuse

Single Fuse

Dual Fuse (n/a Canada)

Fusing can help troubleshoot a short or overload in the circuit. A single fuse is used for fixtures with a 120-, 277- or 347-volt ballast. A dual fuse is used for fixtures with a 208-, 240- or 480-volt ballast. Single-voltage ballast supplied (n/a on dual-volt, multi-volt or tri-volt). Add suffix "F" to the catalog number.



Delay-Relay Quartz Standby

Delay-relay, quartz standby option is available for all fixtures, except the Mini Industrials. After a momentary power interruption, the quartz standby supplies safety lighting until the HID lamp restrikes and reaches approximately 50 percent brightness. This option includes a 100-watt quartz lamp. Add suffix "Q" to the catalog number.



Optical Chamber Air Filter

For IA, IAJ, IAP and IAR Series. Helps prevent dirt contaminants from entering the optical chamber. The Dacron Polyester felt filter is installed in the top closure of the enclosure option; add suffix "B" to enclosure catalog number.



Dome Lens

For FP Series PSMH and HPS fixtures. Attaches easily with a V-band collar. Add suffix "A" to catalog number. 1.7 inches deep



Drop Prismatic Acrylic Lens

16" IAP Series

(250W max.) (3.2" deep)

22" IAR Series

(400W max.) (2.3" deep)

Add suffix "A" to the catalog number.



Flat Acrylic Lens

16" IAP Series (250W max.)

22" IAR Series (400W max.)

For 16-inch IAP Series fixtures (standard on 175- and 250-watt MH fixtures). It is also available for 22-inch IAR Series fixtures (standard on 250-watt MH). Add suffix "E" to the catalog number.



Conical Lens

IAP Series (n/a with "W" option)

(250W PSMH & HPS max.) (1.7" deep)

Add suffix "Y" to catalog number

IAP Series (n/a with "W" option)

(175 & 250W MH only) (1.7" deep)

Change suffix "E" to "Y"

IAR Series (n/a with "W" option)

(400W max.) (2" deep)

Add suffix "Y" to catalog number

FP Series (70-175W MH) (1.06" deep)

Change suffix "A" to "Y"

FP Series (PSMH & 70-150W HPS only)

(1.06" deep)

Add suffix "Y" to catalog number

Attaches easily with a V-band collar.

Mountings, Options & Accessories



2-Level Receptacle Shown

Power Hook

120V	PH-1
120V; 2-Level	PH-1G
277V	PH-2
277V; 2-Level	PH-2G
208V	PH-3
240V	PH-4
480V	PH-5
347V	PH*6

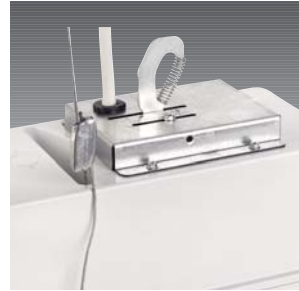
Use with Hook, Cord & Plug mounts. Provides three threaded knockouts for 1/2" conduit, an eye hanger to support the luminaire and a locking-type receptacle for appropriate voltage.



Locking-type Receptacle

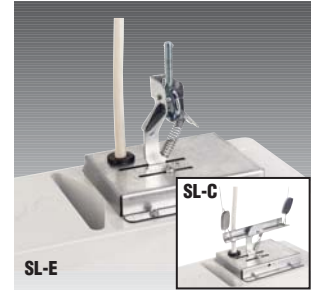
120V	L5-15R
120V; 2-Level	L14-20R
277V	L7-15R
277V; 2-Level	L16-20R
208/240V	L6-15R
480V	L8-20R
347V	L37*20R

A NEMA standard, locking-type receptacle is available for use with any Hook, Cord & Plug mount luminaire.



**Safety Cable with Hang-Fast
Catalog Number SC-5 (Galvanized)
Catalog Number SC-5C (Stainless Steel)**

5' (1.5 m) long safety cable with Hang-Fast provides added safety. Recommended for all Hook, Cord & Plug mount luminaires.



Steady-Lock

For cable or chain	SL-C
For eyebolt	SL-E

(Included with IAL Series HCP Models)

For IAL Series HCP models. The SL-E is included with the IAL Series HCP model.



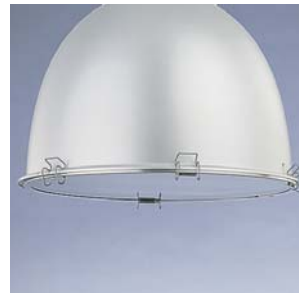
**Surface Mounting Box
Catalog Number ESB-7WH**

Die-cast aluminum, for use on all ceiling-mounted Mini Industrial fixtures where surface wiring is required. Five tapped and plugged knockouts are provided to feed 1/2-inch conduit. Size: 10"W x 6"H x 1.25"D.



**Cylindrical Shroud
Catalog Number CS-40**

Rolled steel shroud simply rests on the lower flange of the IA Series High Bay reflector. Specify either bronze or white finish. (n/a with "K" option). 400-watt max.



Flat Glass Lens (factory-installed)

IA Series
IAJ Series

A clear, tempered-glass lens in a gasketed steel frame simply clips onto the bottom of the reflector. Included top enclosure attaches to the reflector, reducing dirt contamination in the optical chamber. Standard on 175- and 250-watt MH and 1000-watt PSMH fixtures. Hardware included. Add suffix "E" to catalog number.



Wire Guard

IA Series	WG-A
IAJ Series	WG-AJ
IAP Series	WG-AP
IAR Series*	WG-AR

Steel guard attaches to reflector with V-band. Not for use with lens enclosures. Hardware included. Factory-installed option for 175- and 250-watt MH and 1000W PSMH fixtures, suffix "W."
*n/a 750 & 1000W



Wire Guard with Relamp Opening

IA Series	WG-A/OC
IAJ Series	WG-AJ/OC
IAP Series	WG-AP/OC
IAR Series*	WG-AR/OC

Relamp easily without removing the wire guard. Attaches to reflector with V-band. Not for use with lens enclosures. Hardware included.
*n/a 750 & 1000W

2-Level System

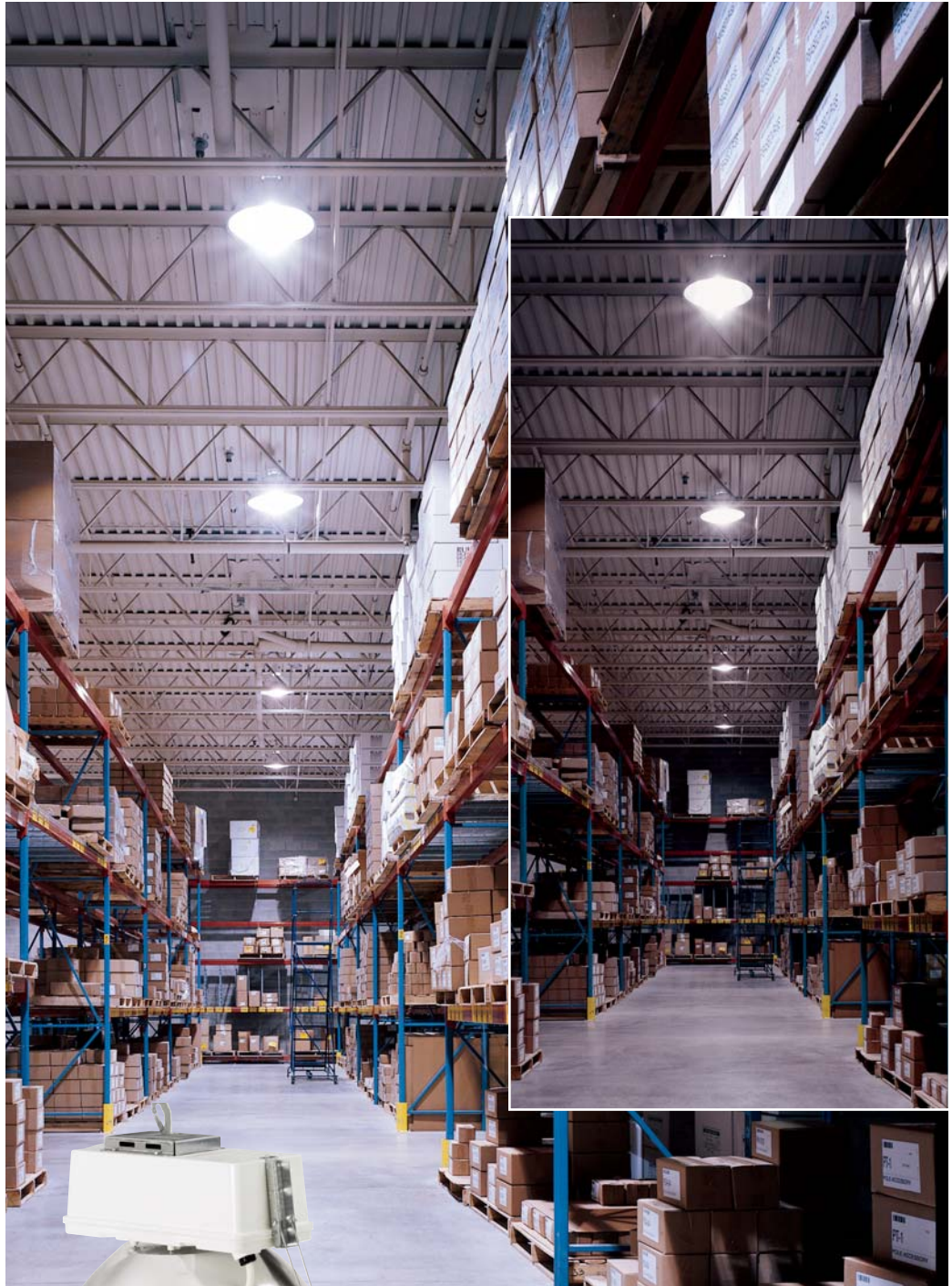
Simple Solutions

We've improved our 2-Level System by making it even better, less expensive and easier to install with our self-contained sensor unit.

Our system provides contractors with a choice:

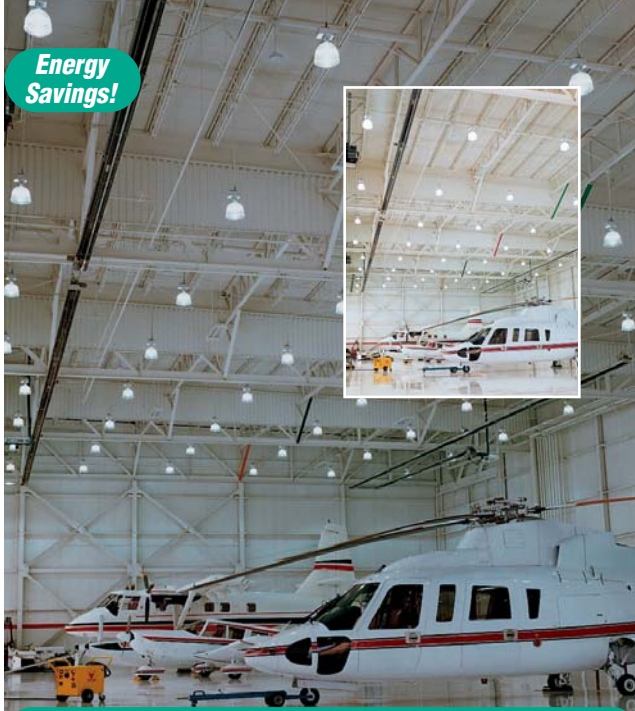
- A completely integrated system (K Option) that requires no additional wiring is available on any of our EZ Bay Plus™ High & Low Bay lights, providing 2-Level control of individual fixtures through an omni-directional 360° sensor.
- A system that can be customized for 2-Level control with use of separate motion sensors or through automatic, programmed or manual methods (G Option). It employs no cumbersome gadgetry or complex wiring, no transmitters or receivers. In fact, the only difference between our 2-Level fixtures and our conventional fixtures is an internal switching device and one control wire.

Either 2-Level system accommodates 250- and 400-watt metal halide or 250-, 320- or 400-watt pulse start metal halide lamps and can provide approximately 50 percent reduction in energy use per fixture.



RUUD
LIGHTING®

Energy Savings!



2-Level Lighting System

System Components

Fixtures

The 2-Level System is an option available on Ruud® High & Low Bay and Recessed fixtures that accommodate 250- and 400-watt, vertical base up metal halide and 250- through 400-watt pulse start metal halide lamps. For high pressure sodium, consult factory. A four-wire plug and cord is supplied on "G" option Hook, Cord & Plug fixtures.

Ballast

All of the 2-Level fixtures use standard ballasts with additional control gear. The 2-Level fixture option is available for phase to neutral voltages 120 or 277. For 208, 240, 347 or 480 volts, consult factory.

Integrated sensor with fixture (K option)

An omni-directional 360° sensor can be integrated into any EZ Bay fixture housing, providing easy installation and individual fixture control. No additional wiring is necessary. The sensor has a self-contained relay and has an adjustable time delay from 0.5 to 20 minutes.

Separate OMS Control Modules

Two occupancy sensor modules (OMS) are available. The OMS-UAISLE provides optimal coverage for aisle areas to be controlled. The OMS-U360 is an omnidirectional sensor that is designed for more individual control of one or two fixtures.

Sensor Operation

Both OMS control modules consist of a self-contained, passive infrared (PIR) occupancy sensor with fresnel lens and controls for time delay operation. A manual override switch is included in the OMS-UAISLE model. Both mount over a standard junction box (by others). The control wire from the fixtures to be switched is simply wired to a control module. When the sensor detects a change in the amount of heat emitted between the background and a human body, or other heat source, it activates the control line, sending voltage to each fixture. Almost instantly, the light level switches to full-rated wattage. After the area is vacated and the user-adjusted time delay expires, the unit will turn off the voltage supplied to the fixture, automatically switching it back to the energy-saving, low-wattage mode. The number of fixtures to be controlled is sufficient to support all typical wiring configurations. Damp or dry location only.

Alternative Control Systems

Alternative switching mechanisms can be used, however the system must ensure the control wires remain high for at least 20 minutes each time the circuit (fixtures) are energized. The "switching mechanism" (supplied by customer) or an OMS (available from Ruud Lighting) with the IR sensor disabled (by masking the sensor window) should ensure the control wires remain high for at least 20 minutes each time the circuit (fixtures) are energized.

Order Information

2-Level Option "G" (requires separate Sensor Module)

2-Level Option "K" (integrated sensor with fixture)

Series	See Page #	2-Level Available	Metal Halide		Pulse Start Metal Halide		
			250W	400W	250W	320W	400W
IA	72	G or K	X	X	X	X	X
IAJ	74	G or K	X	X	X	X	X
IAL	78	G or K	X	X	X	X	X
IAP	66	G or K	X	X	X	X	X
IAPG	68	G or K	X	X	X	X	X
IAR	70	G or K	X	X	X	X	X
IC	80	G or K	X	X	X	X	X
ICJ	84	G or K	X	X	X	X	X
ICM	82	G or K	X	X	X	X	X

Series	See Page #	2-Level Available	Compact Fluorescent			
			26W	32W	42W	57W
ZAJ (CFL)	77	K	X	X	X	X
ZAR (CFL)	76	K	X	X	X	X

Recessed Series	See Page #	2-Level Available	Metal Halide		Pulse Start Metal Halide		
			250W	400W	250W	320W	400W
AA	329	G	X	X	X	X	X
SA	329	G	—	—	X	X	X

Sensor Modules		Catalog Number	
Occupancy Sensor Module for Aisles		OMS-UAISLE	
— Low Temp		OMS-UAISLELT	
Omni-directional Occupancy Sensor Module		OMS-U360	
— Low Temp		OMS-U360LT	

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 Wiring Diagram, Sensor Coverage Patterns Page 95

Additional Controls

Additional OMS-UAISLE or OMS-U360 sensors, or remote sensors (by others), may be installed at various points along the system.

Control Options

In addition to using our control modules, 2-Level equipped fixtures can be controlled with:

- Automatic Switching

Photocells can be used to automatically switch 2-Level lights.

- Programmed Switching

Programmed time clocks and some energy-management systems can be used with 2-Level fixtures to provide appropriate light levels for specific time periods.

- Manual Switching

The simplest control option is to wire 2-Level fixtures to a wall switch.

Energy Savings Example*

65 400W MH fixtures operating 10 hours per day in low mode with \$0.08/Kwh

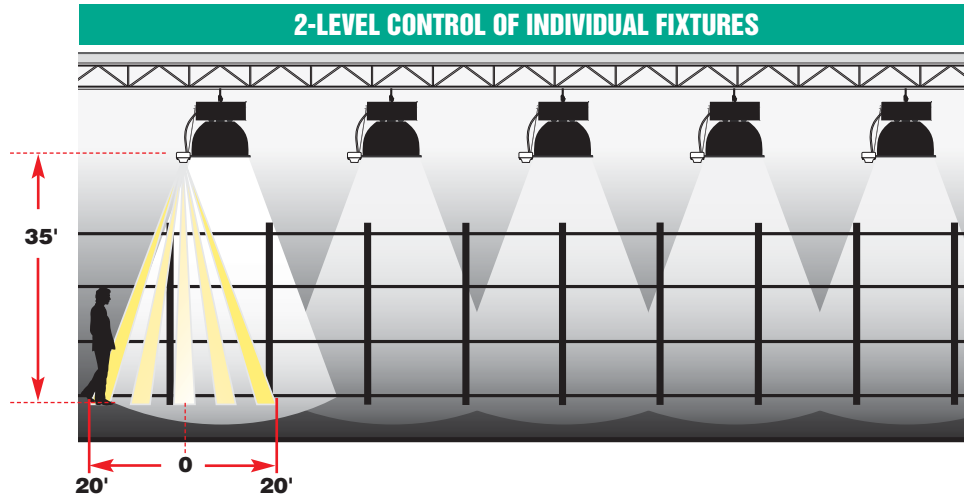
220 watts saved x 65 fixtures x 10 hours x .08 = \$11.44 saved per day
 1000 \$2,974.40 per year
 (260 days of operation)

Total Input Watts Per Fixture (Lamp + HPF Ballast)

LAMP TYPE	HIGH LEVEL LEVEL	LOW LEVEL LEVEL	WATTS SAVED	% SAVED*
Metal Halide				
400W	460	240	220	47.8
250W	307	163	144	47
Pulse Start Metal Halide				
400W	460	240	220	47.8
320W	374	196	178	47.5
250W	296	156	140	47.3

*Approximate savings. Savings will vary based on specific application.

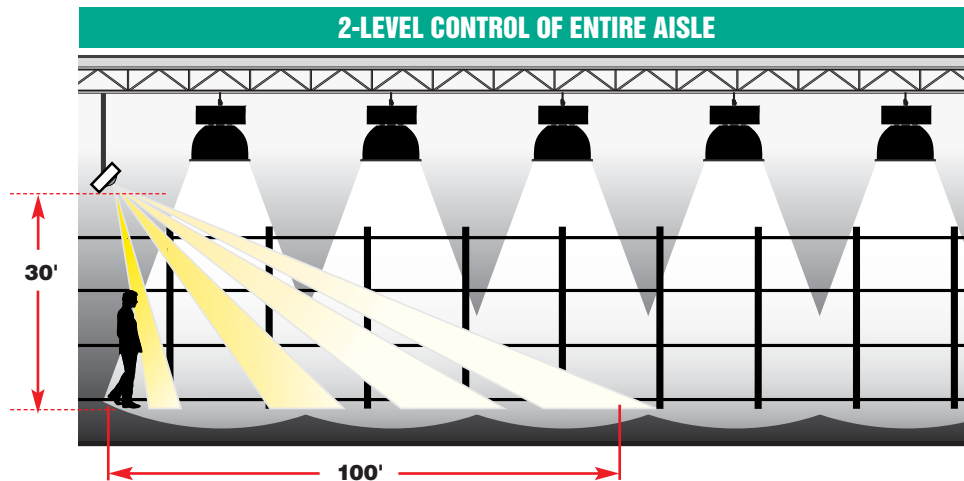
Two Methods of 2-Level Control



Individual Fixture Control Offers Maximum Flexibility and Energy Savings

The OMS-U360 sensor is available as either a "K" option, completely integrated at the factory into our EZ Bay Plus™ High or Low Bay fixtures, or as a separate, field-installed accessory. Its passive infrared technology (PIR) can detect temperature changes as an occupant moves within the sensor's 360-degree field of view. Once an occupant approaches from 15 to 20 feet underneath each light fixture, the OMS-U360 unit activates the fixture instantaneously from low to high mode, and keeps it on for a designated time-delay period. The time-delay is adjustable from 0.5 to 20 minutes and can be adjusted manually with a tool provided with each unit.

Our EZ Bay Plus™ High or Low Bay fixtures with the integrated "K" option is the ultimate in individual control and is the easiest to install because no additional wiring is necessary. If the OMS-U360 sensor accessory is desired as a separate field-installed component, the 2-Level "G" option is added to each fixture when the order is placed.



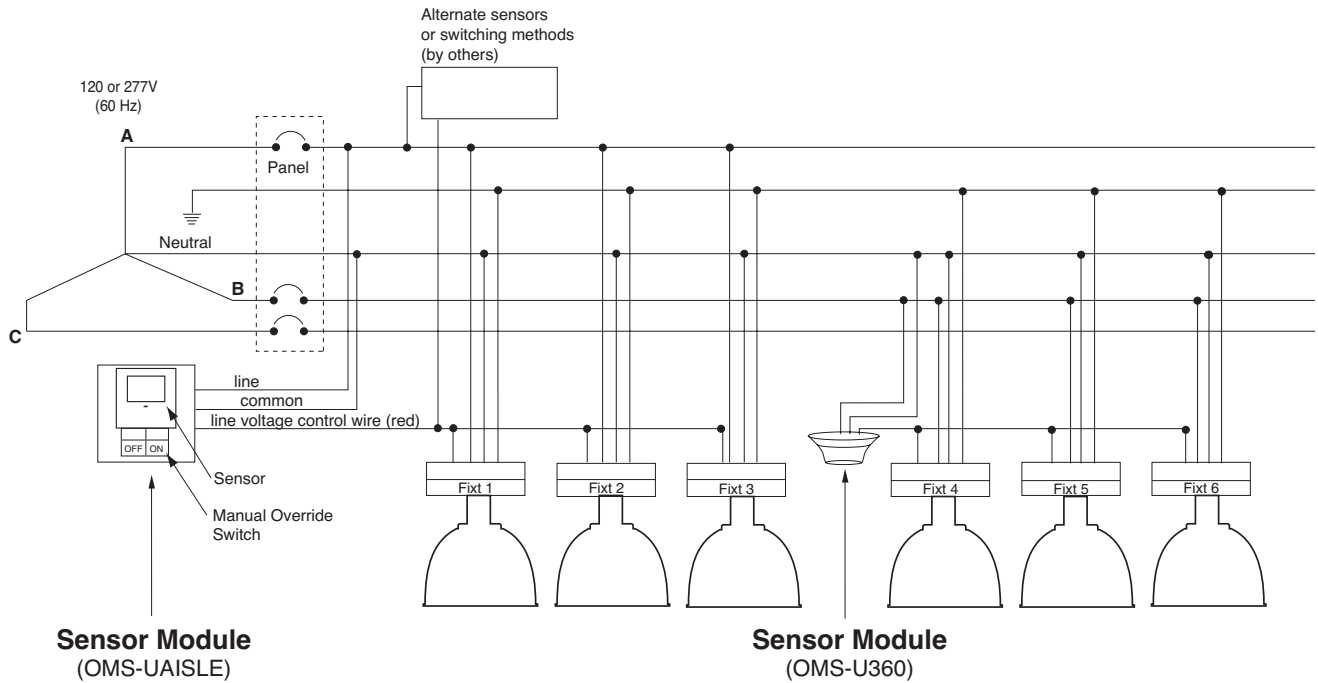
Aisle-Control Unit also Available

The OMS-UAISLE sensor controls multiple lighting fixtures within the same aisle. A relay and sensor unit housing is typically installed at one or both ends of an aisle. As the OMS-UAISLE detects motion, it switches the row of fixtures from low to high mode.

A single, easy-to-install control wire is required, linking each fixture in the row to the sensor(s). Fixtures to be controlled in a row must be wired to operate on the same switched circuit. When ordering, ask that the 2-Level "G" option be added to each fixture. The number of OMS-UAISLE accessory units for the application also need to be ordered.

2-Level Lighting System Wiring

When using separate sensor modules (G option), the simplicity of wiring 2-Level fixtures is what makes our system unique. In addition to the standard HID fixture wiring, a control wire is brought back through conduit to the control. That's the installation difference between a 2-Level fixture and our conventional HID fixture!

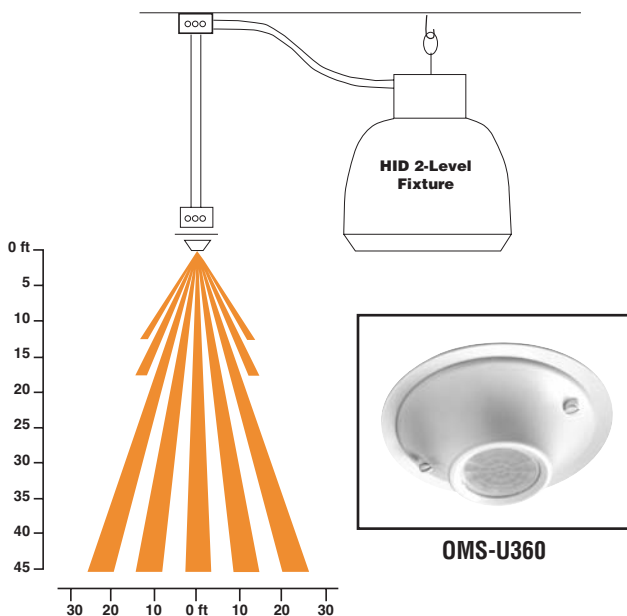


Sensor Controlled System: 3-Phase WYE, 4-Wire System with 2-Level HID fixtures and Sensor Module.
A separate control module is required for each switch circuit.

Sensor Coverage Patterns

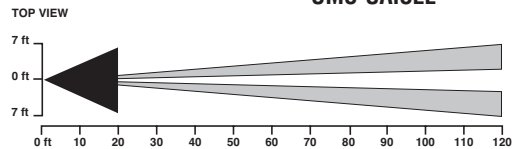
Sensor coverage patterns are created from high-quality fresnel lenses and are available in long-range (OMS-UAISLE) and symmetrical pattern (OMS-U360).

Coverages shown below are maximum and represent coverage for walking motion. For building spaces with lower levels of activity, with obstacles and barriers or fixtures installed at extreme mounting heights, coverage size may be decreased.

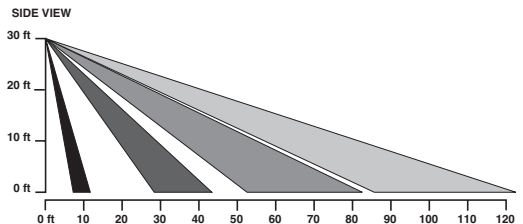


Long Range Lens

Plan View



Elevation View



OMS-UAISLE



OMS-U360

Modular Wiring System

Save time and reduce labor costs

The EZ Connect 12-gauge system uses Ruud® factory-wired components to replace conventional conduit and wire to distribute branch circuits to High & Low Bay fixtures. The EZ Connect system works with all Ruud® High & Low Bay fixtures, in both new installations and retrofits. Components literally snap together, eliminating time-consuming hard wiring.

New 10-gauge system now available

Warehouse applications that are appropriate for 10-gauge wire also can be fitted with the EZ Connect System. The 10-gauge system is designed for sites that require longer runs or use higher circuit loading. Rated for 30 amps, the 10-gauge system can accommodate more fixtures per circuit than the 12-gauge

system and its lighting distribution cable can be used for home runs. That means fewer home runs, reduced use of pipe and wire, and smaller-capacity circuit boxes. All of that translates into less labor and materials, saving the contractor time and money on top of the savings the EZ Connect system already provides because of its ease of installation.

Project savings

You can reduce total project costs up to 40 percent using the EZ Connect system. In addition, the advanced engineering and wiring eliminates numerous cost variables. And the system carries a five-year warranty.

Make/break connection under full load

The unique modular plug design allows for make/break circuitry under full-rated load. This important feature provides a safe environment during fixture installation, relocation or service, while maintaining convenience. The system also eases relamping and maintenance, because disconnecting one fixture won't interfere with the operation of the others.

Flexible design options

Because of its convenience, EZ Connect also increases your lighting-design flexibility. Switching between areas is easy to accomplish, along with other operational configurations.

Versatility

Retail stores and warehouses offer outstanding examples of applications where versatile lighting systems are a must. Adding luminaires to any appropriately sized circuit with EZ Connect instantly creates more vibrant display or aisle illumination.



EZ Connect Saves Contractors Money

Hardwire Cost

Material Cost	\$11,100
Labor Cost	\$33,500
TOTAL COST	\$44,600

EZ Connect Cost

Material Cost	\$20,100
Labor Cost	\$6,700
TOTAL COST	\$26,800
COST SAVINGS	\$17,800
PER FIXTURE	\$26.57
PERCENT SAVINGS	39.91%

Based on a 670 High or Low Bay fixture installation

Labor rate: \$50 per hour. Hardwire labor time: 1 hour per fixture EZ Connect labor time: .2 hours per fixture

Comparison does not include light fixture cost. Labor rate used for comparison purposes.

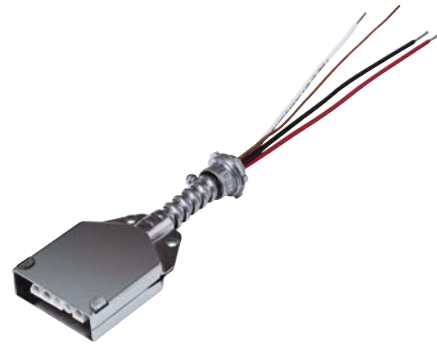
Costs are calculated using the EZ Connect 12-gauge system. 10-gauge system costs will be slightly higher.

EZ Connect 12 Gauge Modular Wiring System

12 Ga/20 amp Lighting Cable

Catalog Number	Description
ZLC121E05	120V, 1 Circuit, 5 Feet
ZLC121E10	120V, 1 Circuit, 10 Feet
ZLC121E15	120V, 1 Circuit, 15 Feet
ZLC121E20	120V, 1 Circuit, 20 Feet
ZLC121E25	120V, 1 Circuit, 25 Feet
ZLC121E30	120V, 1 Circuit, 30 Feet
ZLC121E35	120V, 1 Circuit, 35 Feet
ZLC121E40	120V, 1 Circuit, 40 Feet
ZLC121E50	120V, 1 Circuit, 50 Feet
ZLC123E05	120V, 3 Circuit, 5 Feet
ZLC123E10	120V, 3 Circuit, 10 Feet
ZLC123E15	120V, 3 Circuit, 15 Feet
ZLC123E20	120V, 3 Circuit, 20 Feet
ZLC123E25	120V, 3 Circuit, 25 Feet
ZLC123E30	120V, 3 Circuit, 30 Feet
ZLC123E35	120V, 3 Circuit, 35 Feet
ZLC123E40	120V, 3 Circuit, 40 Feet
ZLC123E50	120V, 3 Circuit, 50 Feet
ZLC201E05	208V, 1 Circuit, 5 Feet
ZLC201E10	208V, 1 Circuit, 10 Feet
ZLC201E15	208V, 1 Circuit, 15 Feet
ZLC201E20	208V, 1 Circuit, 20 Feet
ZLC201E25	208V, 1 Circuit, 25 Feet
ZLC201E30	208V, 1 Circuit, 30 Feet
ZLC201E35	208V, 1 Circuit, 35 Feet
ZLC201E40	208V, 1 Circuit, 40 Feet
ZLC201E50	208V, 1 Circuit, 50 Feet
ZLC203E05	208V, 3 Circuit, 5 Feet
ZLC203E10	208V, 3 Circuit, 10 Feet
ZLC203E15	208V, 3 Circuit, 15 Feet
ZLC203E20	208V, 3 Circuit, 20 Feet
ZLC203E25	208V, 3 Circuit, 25 Feet
ZLC203E30	208V, 3 Circuit, 30 Feet
ZLC203E35	208V, 3 Circuit, 35 Feet
ZLC203E40	208V, 3 Circuit, 40 Feet
ZLC203E50	208V, 3 Circuit, 50 Feet
ZLC241E05	240V, 1 Circuit, 5 Feet
ZLC241E10	240V, 1 Circuit, 10 Feet
ZLC241E15	240V, 1 Circuit, 15 Feet
ZLC241E20	240V, 1 Circuit, 20 Feet
ZLC241E25	240V, 1 Circuit, 25 Feet
ZLC241E30	240V, 1 Circuit, 30 Feet
ZLC241E35	240V, 1 Circuit, 35 Feet
ZLC241E40	240V, 1 Circuit, 40 Feet
ZLC241E50	240V, 1 Circuit, 50 Feet
ZLC243E05	240V, 3 Circuit, 5 Feet
ZLC243E10	240V, 3 Circuit, 10 Feet
ZLC243E15	240V, 3 Circuit, 15 Feet
ZLC243E20	240V, 3 Circuit, 20 Feet
ZLC243E25	240V, 3 Circuit, 25 Feet
ZLC243E30	240V, 3 Circuit, 30 Feet
ZLC243E35	240V, 3 Circuit, 35 Feet
ZLC243E40	240V, 3 Circuit, 40 Feet
ZLC243E50	240V, 3 Circuit, 50 Feet
ZLC271E05	277V, 1 Circuit, 5 Feet
ZLC271E10	277V, 1 Circuit, 10 Feet
ZLC271E15	277V, 1 Circuit, 15 Feet
ZLC271E20	277V, 1 Circuit, 20 Feet
ZLC271E25	277V, 1 Circuit, 25 Feet
ZLC271E30	277V, 1 Circuit, 30 Feet
ZLC271E35	277V, 1 Circuit, 35 Feet
ZLC271E40	277V, 1 Circuit, 40 Feet
ZLC271E50	277V, 1 Circuit, 50 Feet
ZLC273E05	277V, 3 Circuit, 5 Feet
ZLC273E10	277V, 3 Circuit, 10 Feet
ZLC273E15	277V, 3 Circuit, 15 Feet
ZLC273E20	277V, 3 Circuit, 20 Feet
ZLC273E25	277V, 3 Circuit, 25 Feet
ZLC273E30	277V, 3 Circuit, 30 Feet

For 347V consult factory



Lighting Distribution Cable (ZLD)



Lighting Cable (ZLC)



Lighting Junction (ZLJ)



6-foot cable with connector
(included with fixture when ordered with mounting code 7)

EZ Connect 12 Gauge Modular Wiring System

12 Ga/20 amp Lighting Cable

Catalog Number	Description
ZLC273E35	277V, 3 Circuit, 35 Feet
ZLC273E40	277V, 3 Circuit, 40 Feet
ZLC273E50	277V, 3 Circuit, 50 Feet
ZLC481E05	480V, 1 Circuit, 5 Feet
ZLC481E10	480V, 1 Circuit, 10 Feet
ZLC481E15	480V, 1 Circuit, 15 Feet
ZLC481E20	480V, 1 Circuit, 20 Feet
ZLC481E25	480V, 1 Circuit, 25 Feet
ZLC481E30	480V, 1 Circuit, 30 Feet
ZLC481E35	480V, 1 Circuit, 35 Feet
ZLC481E40	480V, 1 Circuit, 40 Feet
ZLC481E50	480V, 1 Circuit, 50 Feet
ZLC483E05	480V, 3 Circuit, 5 Feet
ZLC483E10	480V, 3 Circuit, 10 Feet
ZLC483E15	480V, 3 Circuit, 15 Feet
ZLC483E20	480V, 3 Circuit, 20 Feet
ZLC483E25	480V, 3 Circuit, 25 Feet
ZLC483E30	480V, 3 Circuit, 30 Feet
ZLC483E35	480V, 3 Circuit, 35 Feet
ZLC483E40	480V, 3 Circuit, 40 Feet
ZLC483E50	480V, 3 Circuit, 50 Feet

12 Ga/20 amp Distribution Cable

Catalog Number	Description
ZLD121E	120V, 1 Circuit, 3 Inches
ZLD121E05	120V, 1 Circuit, 5 Feet
ZLD121E10	120V, 1 Circuit, 10 Feet
ZLD121E15	120V, 1 Circuit, 15 Feet
ZLD121E20	120V, 1 Circuit, 20 Feet
ZLD121E30	120V, 1 Circuit, 30 Feet
ZLD123E	120V, 3 Circuit, 3 Inches
ZLD123E05	120V, 3 Circuit, 5 Feet
ZLD123E10	120V, 3 Circuit, 10 Feet
ZLD123E15	120V, 3 Circuit, 15 Feet
ZLD123E20	120V, 3 Circuit, 20 Feet
ZLD123E30	120V, 3 Circuit, 30 Feet
ZLD201E	208V, 1 Circuit, 3 Inches
ZLD201E05	208V, 1 Circuit, 5 Feet
ZLD201E10	208V, 1 Circuit, 10 Feet
ZLD201E15	208V, 1 Circuit, 15 Feet
ZLD201E20	208V, 1 Circuit, 20 Feet
ZLD201E30	208V, 1 Circuit, 30 Feet
ZLD203E	208V, 3 Circuit, 3 Inches
ZLD203E05	208V, 3 Circuit, 5 Feet
ZLD203E10	208V, 3 Circuit, 10 Feet
ZLD203E15	208V, 3 Circuit, 15 Feet
ZLD203E20	208V, 3 Circuit, 20 Feet
ZLD203E30	208V, 3 Circuit, 30 Feet
ZLD241E	240V, 1 Circuit, 3 Inches
ZLD241E05	240V, 1 Circuit, 5 Feet
ZLD241E10	240V, 1 Circuit, 10 Feet
ZLD241E15	240V, 1 Circuit, 15 Feet
ZLD241E20	240V, 1 Circuit, 20 Feet
ZLD241E30	240V, 1 Circuit, 30 Feet
ZLD243E	240V, 3 Circuit, 3 Inches
ZLD243E05	240V, 3 Circuit, 5 Feet
ZLD243E10	240V, 3 Circuit, 10 Feet
ZLD243E15	240V, 3 Circuit, 15 Feet
ZLD243E20	240V, 3 Circuit, 20 Feet
ZLD243E30	240V, 3 Circuit, 30 Feet
ZLD271E	277V, 1 Circuit, 3 Inches
ZLD271E05	277V, 1 Circuit, 5 Feet
ZLD271E10	277V, 1 Circuit, 10 Feet

For 347V consult factory

12 Ga/20 amp Distribution Cable (continued)

Catalog Number	Description
ZLD271E15	277V, 1 Circuit, 15 Feet
ZLD271E20	277V, 1 Circuit, 20 Feet
ZLD271E30	277V, 1 Circuit, 30 Feet
ZLD273E	277V, 3 Circuit, 3 Inches
ZLD273E05	277V, 3 Circuit, 5 Feet
ZLD273E10	277V, 3 Circuit, 10 Feet
ZLD273E15	277V, 3 Circuit, 15 Feet
ZLD273E20	277V, 3 Circuit, 20 Feet
ZLD273E30	277V, 3 Circuit, 30 Feet
ZLD481E	480V, 1 Circuit, 3 Inches
ZLD481E05	480V, 1 Circuit, 5 Feet
ZLD481E10	480V, 1 Circuit, 10 Feet
ZLD481E15	480V, 1 Circuit, 15 Feet
ZLD481E20	480V, 1 Circuit, 20 Feet
ZLD481E30	480V, 1 Circuit, 30 Feet
ZLD483E	480V, 3 Circuit, 3 Inches
ZLD483E05	480V, 3 Circuit, 5 Feet
ZLD483E10	480V, 3 Circuit, 10 Feet
ZLD483E15	480V, 3 Circuit, 15 Feet
ZLD483E20	480V, 3 Circuit, 20 Feet
ZLD483E30	480V, 3 Circuit, 30 Feet

12 Ga/20 amp Lighting Junction

Catalog Number	Description
ZLJ12AE	120V, A Phase Splitter
ZLJ12BE	120V, B Phase Splitter
ZLJ12CE	120V, C Phase Splitter
ZLJ20AE	208V, A Phase Splitter
ZLJ20BE	208V, B Phase Splitter
ZLJ20CE	208V, C Phase Splitter
ZLJ24AE	240V, A Phase Splitter
ZLJ24BE	240V, B Phase Splitter
ZLJ24CE	240V, C Phase Splitter
ZLJ27AE	277V, A Phase Splitter
ZLJ27BE	277V, B Phase Splitter
ZLJ27CE	277V, C Phase Splitter
ZLJ48AE	480V, A Phase Splitter
ZLJ48BE	480V, B Phase Splitter
ZLJ48CE	480V, C Phase Splitter

12 Ga/20 amp Y-Connector

Catalog Number	Description
ZLJ123E	120V, 3 Circuit Splitter
ZLJ203E	208V, 3 Circuit Splitter
ZLJ243E	240V, 3 Circuit Splitter
ZLJ273E	277V, 3 Circuit Splitter
ZLJ483E	480V, 3 Circuit Splitter

EZ Connect 10 Gauge Modular Wiring System

10 Ga/30 amp Lighting Cable

Catalog Number	Description
ZDLC273E01	277V, 3 Circuit, 1.5 Foot
ZDLC273E09	277V, 3 Circuit, 9 Feet
ZDLC273E15	277V, 3 Circuit, 15 Feet
ZDLC273E20	277V, 3 Circuit, 20 Feet
ZDLC273E25	277V, 3 Circuit, 25 Feet
ZDLC273E30	277V, 3 Circuit, 30 Feet
ZDLC273E40	277V, 3 Circuit, 40 Feet
ZDLC273E50	277V, 3 Circuit, 50 Feet
ZDLC273E99	277V, 3 Circuit, 100 Feet
ZDLC483E09	480V, 3 Circuit, 9 Feet
ZDLC483E15	480V, 3 Circuit, 15 Feet
ZDLC483E20	480V, 3 Circuit, 20 Feet
ZDLC483E25	480V, 3 Circuit, 25 Feet
ZDLC483E30	480V, 3 Circuit, 30 Feet
ZDLC483E40	480V, 3 Circuit, 40 Feet
ZDLC483E50	480V, 3 Circuit, 50 Feet
ZDLC483E99	480V, 3 Circuit, 100 Feet

10 Ga/30 amp Distribution Cable

Catalog Number	Description
ZDLD273E09	277V, 3 Circuit, 9 Feet
ZDLD273E15	277V, 3 Circuit, 15 Feet
ZDLD483E09	480V, 3 Circuit, 9 Feet
ZDLD483E15	480V, 3 Circuit, 15 Feet

10 Ga/30 amp Lighting Junction

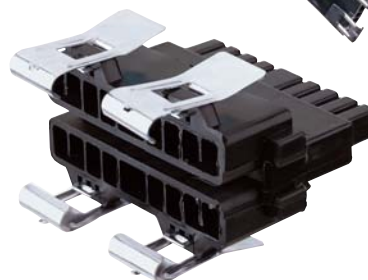
Catalog Number	Description
ZDLJ273E	277V, 3 Circuit
ZDLJ483E	480V, 3 Circuit



Lighting Distribution Cable (ZDLD)



Lighting Cable (ZDLC)



Circuit Splitter (ZDLJ)



6-foot Armored Whip with Connector
(included with fixture when ordered with mounting code 6)