



WD
SERIES



Wall Director®

W a l l M o u n t e d L u m i n a i r e s

42 - 400 Watt



KIM LIGHTING

Wall Director®

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U.S. PATENTS 5,613,766, D370,544 AND D381,763

www.kimlighting.com

Star View.
compliant



Hubbell
Lighting, Inc.

Printed in U.S.A.
5504511200
Version 1.3 (7/19/11)

The **Wall Director** is a refreshing and innovative approach to lighting ground surfaces, canopies, ceilings, and architectural features from a wall mounted luminaire.

Every aspect of its form expresses the functional qualities engineered into the design. Yet, its flowing lines extend from the wall like a sconce, while simple geometry complements the architectural surface.

Combined with performance optics, total cutoff, adjustability and invertible mounting, the Wall Director embodies the ultimate architectural wall luminaire.



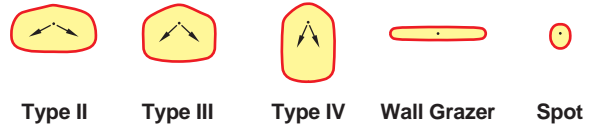
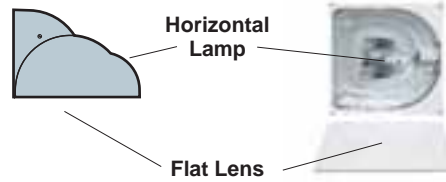


Horizontal Lamp

Horizontal Lamp

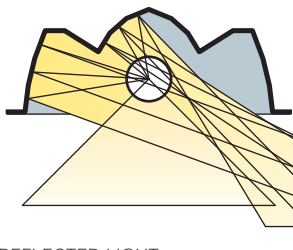
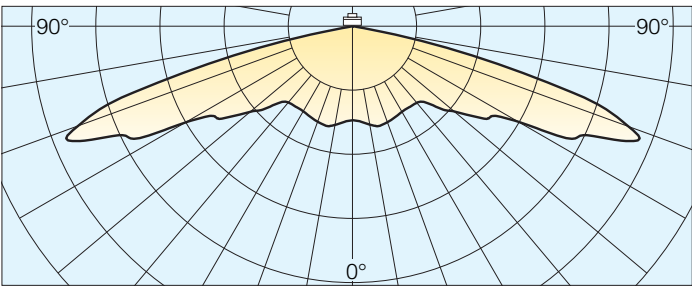
Available in **Type II, Type III, Type IV, Wall Grazer** and **Spot** distributions. The flat lens system provides **full cutoff control** and excellent uniformity.

Sealed optics and performance reflector technology allow the horizontal lamp optical system to maximize illumination. An optional houseside shield is available for Types II, III, and IV distributions to reduce wall brightness directly behind the fixture.



Full Cutoff

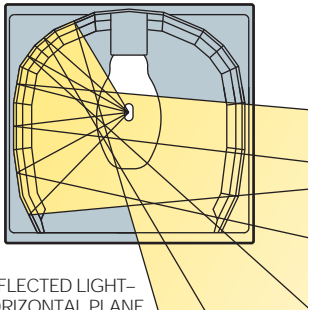
The term "full cutoff" as applied to a down facing fixture, means that no portion of the luminaire's optical system is visible above horizontal. In addition to this physical requirement, the fixture also meets IES photometric requirements for classification as a full cutoff luminaire. While some wall luminaires claim to be cutoff, their visible optical systems create brightness that overwhelms the surrounding architecture. The Wall Director® utilizes a horizontal lamp orientation and a standard flat clear glass lens to achieve full cutoff. The distribution of light is handled entirely by a precision reflector system engineered for maximum fixture spacing with outstanding uniformity.



All reflector systems for the Wall Director are engineered to achieve full cutoff in the vertical plane while spreading light away from the wall. In the vertical plane, light is reflected at the highest possible angle for maximum fixture

REFLECTED LIGHT-VERTICAL PLANE

spacing. Excessive straight down illumination is avoided by the elimination of downward reflecting surfaces. In the horizontal plane, light is precisely directed away from the wall. All light striking the wall comes only from the lamp. This wall illumination may be aesthetically desirable whether directed up or down, or can be substantially reduced by using the optional houseside shield.



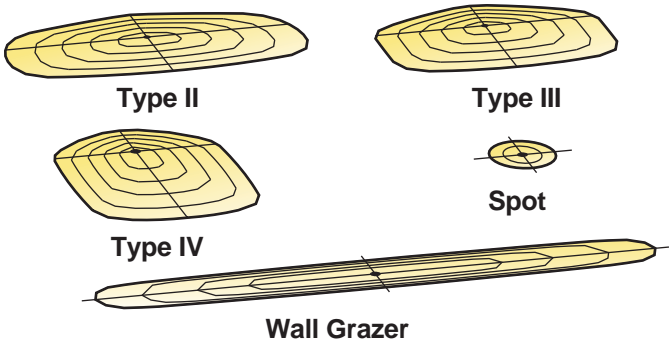
REFLECTED LIGHT-HORIZONTAL PLANE

Kim Lighting's StarView products are designated for luminaires that meet IES full cutoff requirements for use where light pollution or light trespass may be a concern and to promote the enjoyment of celestial visibility at night.

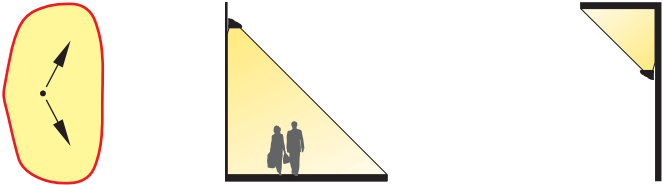


Five Light Distributions

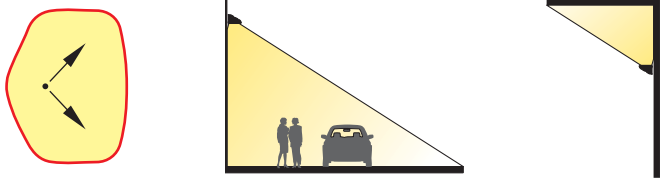
Wall mounted luminaires are called upon to light a broad range of ground surfaces, ceilings, canopies, and overhangs. Fixture adjustment alone will not accomplish this because voids in the light pattern can develop when trying to make one distribution fit all applications. The Wall Director® is offered in five light distributions from Type II through Type IV, Wall Grazer and Spot. The Type II, III, and IV reflector systems are based on Kim's highly efficient pole-mounted luminaires such as The Archetype®, while the Wall Grazer and Spot Optics utilize reflector systems found in the Kim AFL series floodlights. All five reflector systems are interchangeable within the Wall Director should jobsite changes and adjustments become necessary.



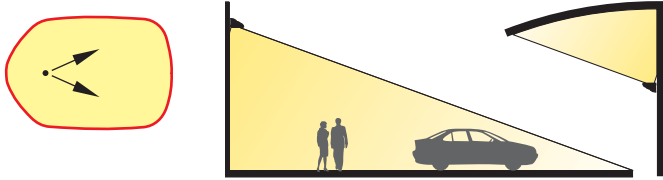
1. Type II: For down facing applications, the Type II distribution is ideal for service areas behind buildings, alleys, shopping arcades and pathways next to structures. For up facing applications, the Type II is meant for narrower overhangs and building projections.



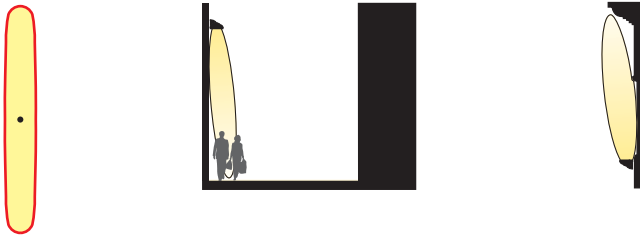
2. Type III: For down facing applications, the Type III distribution is normally used in conjunction with parking lot lighting. The Wall Director fills in areas between the building and where pole mounted parking lot illumination falls off. Increased light levels may be desired next to the building for safety and advertising. In addition, medium size overhangs, canopies and ceilings are ideal for an upward Type III.



3. Type IV: For down facing applications, this forward throw distribution is particularly useful where pole mounted luminaires would pose an obstruction to cars or trucks. For up facing applications, curved or sloped ceilings and canopies will often require the forward distribution of a Type IV reflector.



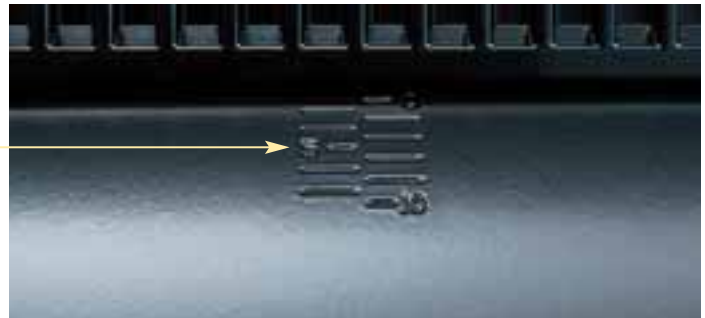
4. Wall Grazer: When a building façade is designed to have interesting surface texture, reliefs, projections or other embellishments, grazing the wall with light can produce dramatic nighttime effects. Wall grazing will light the wall to a limited degree, but its real purpose is to create an effect based upon highlights rather than uniform wall washing. As a down facing light, the Wall Grazer can also be used to provide increased security lighting for building perimeters.



5. Spot Reflector: For up facing applications, the spot reflector is designed to highlight and accentuate small architectural surface detail, columns, or pilasters with laser-like accuracy. In down facing applications, the spot reflector can be used to accentuate points of entry, or highlight perimeter landscape detail.



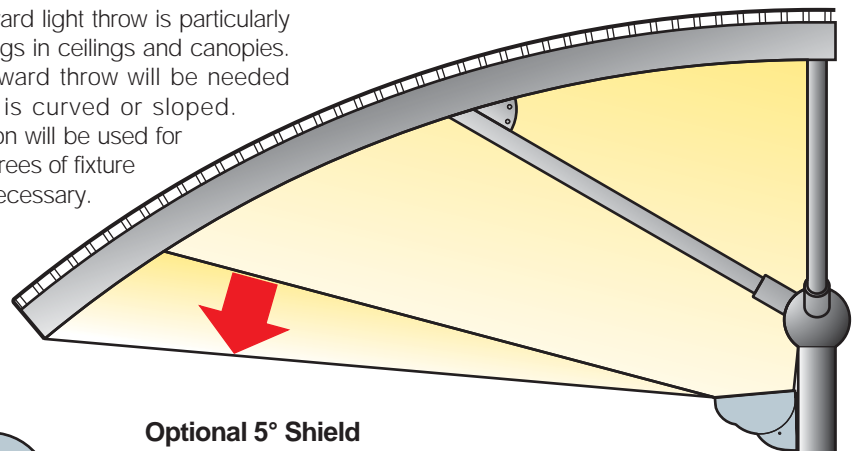
Adjustability



Due to the variety of optical systems available for the Wall Director®, only a small amount of adjustability is needed for fine tuning. The 10° adjustment feature is integrated between the reflector and ballast housings, and can be accomplished with the fixture on. A -3° tilt toward the wall is provided with the Wall Grazer to enhance textural lighting effects.

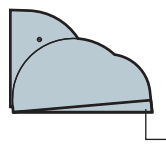
Two stainless steel screws are loosened on either side of the ballast housing. This allows the reflector housing to be rotated while visually observing the light throw. When the screws are retightened, the reflector housing is locked and resealed to the ballast housing. Degree markers are cast into the reflector housing as shown in the photograph above.

The ability to fine tune the forward light throw is particularly useful in lighting large overhangs in ceilings and canopies. Sometimes the additional forward throw will be needed simply because the ceiling is curved or sloped. Normally the Type IV distribution will be used for this application, and a few degrees of fixture adjustment is all that may be necessary.

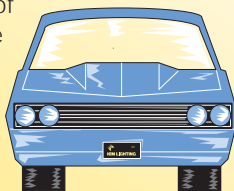


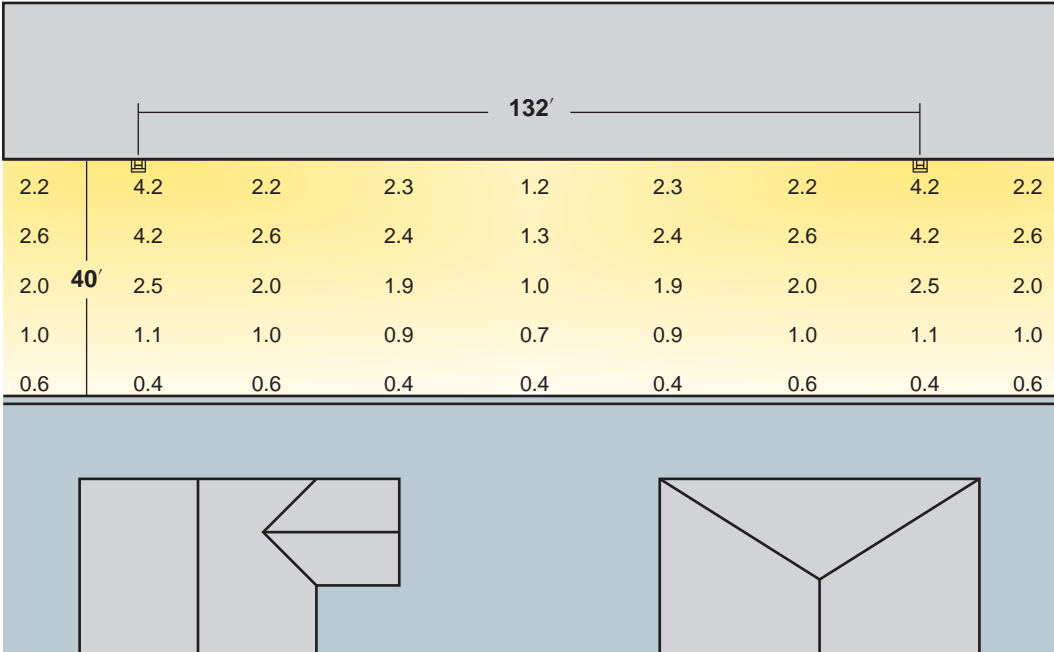
Optional 5° Shield

After fine tuning of the light throw by adjusting the reflector housing, the optional 5° shield will restore visual cutoff of the fixture lens. This accessory can be used with any set of optics, in up or down applications.



In down facing applications, fixture adjustment can bridge the differences between Types II, III and IV light distributions. For example: Lighting a narrow area between a building and property line using a Type II distribution. The Type II distribution covers the ground area, but should more light be desired on the perimeter wall, a few degrees of fixture adjustment accomplishes the desired increase in forward throw with minimal increase in fixture brightness.

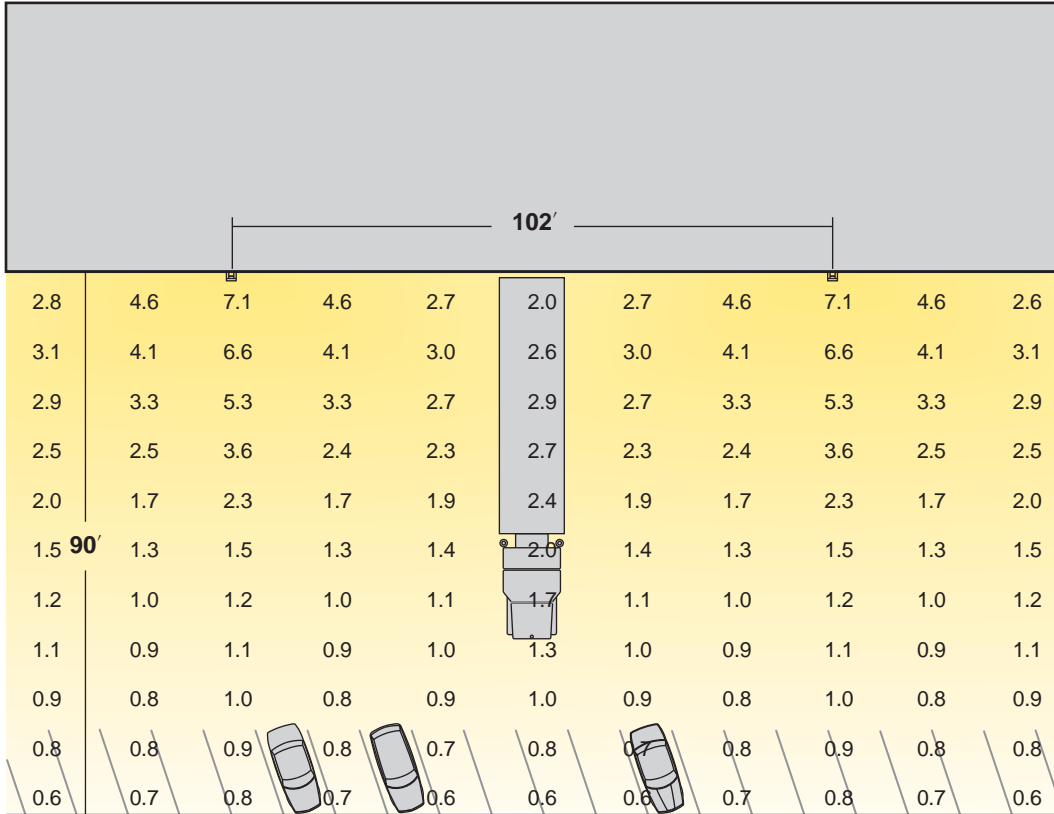




The example at left illustrates a typical application for the Type II distribution. In this instance a service area behind buildings is located next to a residential area. To avoid light trespass, the Type II reflector confines illumination to the service area with minimal spill into neighboring property.

Fixture: WD18D2/250MH
 Mounting Height: 25'
 Fixture Spacing: 132'
 I.T.L. Test No.: 35901

Initial Average: 1.7
 Initial Minimum: 0.4
 Max./Min.: 11.96



Loading docks and airport ramps are common applications for the Type IV distribution. The example at left assumes that all lighting is provided by Wall Directors. In actuality, pole mounted luminaires could be placed at the property line to contribute light from the opposite side.

Fixture: WD18D4/400HPS
 Mounting Height: 30'
 Fixture Spacing: 102'
 I.T.L. Test No.: 35921

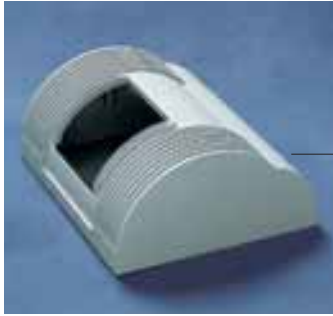
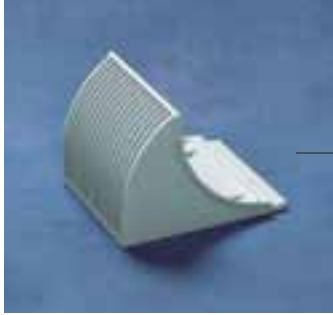
Initial Average: 2.0
 Initial Minimum: 0.6
 Max./Min.: 11.66

NOTE: For up facing light aiming, the same basic geometry occurs. By simply visualizing these ground surfaces as ceilings, one can see how the different light distributions can be chosen to efficiently illuminate canopies, ceilings and overhangs of varying widths.

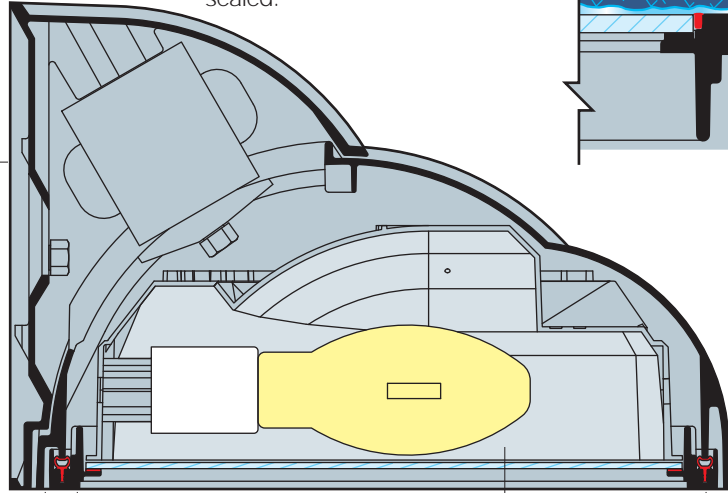
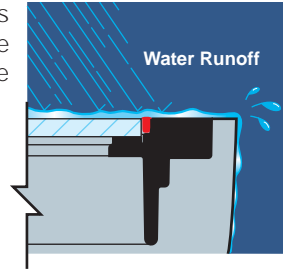
Mechanical Design Features

Die-Cast Aluminum Components

All three major housing components are die-cast aluminum with integral cooling ribs and extra heavy wall thickness. Die-casting gives the luminaire a clean and precise look while accurately controlling tolerances and repeatability.



For up facing models, the lens is mounted flush with the door frame for water run-off, and is silicone sealed.



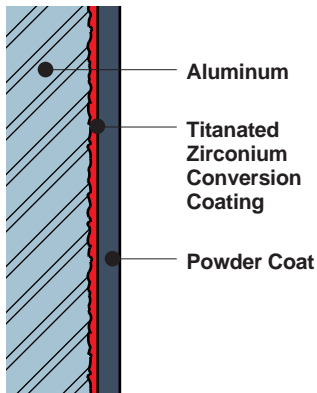
Reflector Module

Each reflector type is a self-contained module with complete interchangeability. The segmented reflector panels are precision formed specular aluminum protected by the Alzak® process. Types II, III and IV utilize one-piece die-cast shells. The module hinges open for ballast access and snaps out for ease of fixture mounting.



Silicone Gasketing

While lesser materials could be used, only silicone gasketing is utilized in the Wall Director® because of its superior memory retention and non-outgassing properties. This assures a clean optical chamber free of residue build-up, and positive sealing after every relamping.



Durable Powder Coat Finish

Kim Lighting's state-of-the-art powder coat paint system is engineered to provide the highest quality finish with absolute paint adhesion under weather extremes. The Super TGIC thermoset polyester powder coat finish is applied over a titanated zirconium conversion coating. This finish system exceeds the A.S.T.M. 2500 hour salt spray test.

Eight Stage Finish

1. Power wash and degrease.
2. Detergent tank bath.
3. Clear water rinse bath.
4. Premium titanated zirconium conversion coating as used in the automobile industry.
5. Clear water rinse bath.
6. Dry off oven.
7. Powder coating, 2.5 mil nominal thickness.
8. Bake for 20 minutes at 410°F.

Installation and Maintenance



The Wall Director® may be installed on existing walls having no built-in electrical outlets. An optional Surface Conduit Mount (SCM) functions as both junction box and fixture mount. This mounting device is fastened to the wall allowing external conduit entry. UL listed for through wiring. See page 15 for SCM and for Dimensions/Details.



All Wall Director mounting plates are low copper (<0.6% Cu) alloy aluminum. For the small Wall Director this plate is attached directly to the junction box. Large Wall Directors must be fastened to the wall surface outside the junction box.



Studs protruding from the mounting plate allow the Wall Director to be hung by keyhole slots located on the back of the ballast housing. This frees both hands to secure the luminaire and make field wire connections without holding the fixture. Since the reflector module is snapped out prior to fixture mounting, ample space is provided inside the fixture for quick and easy work. Fixture aiming can be done now if the tilt angle has been predetermined. If not, fixture aiming can be accomplished while lighted and observing the visual effect.

NOTE: For uneven or rough walls exposed to rain, caulking must be applied between the mounting plate and wall to insure a dry junction box. The Wall Director fixture has its own drainage system to prevent water from entering the back of the housing.



The final installation step involves snapping the reflector module into the housing, with quick disconnect plugs completing the wiring to the ballast. The reflector module hinges closed, the lens frame hinges shut and quarter turn latches lock and seal the luminaire for weather tight operation. These same features make relamping or ballast access a quick and simple procedure.

UP and DOWN Facing Light Applications

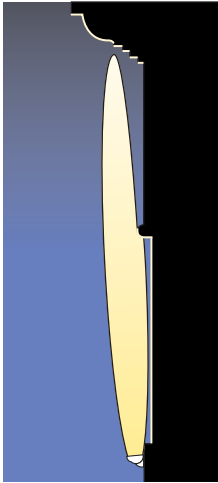
Up Facing Applications

The Wall Director® is extraordinary because it is sealed against water entry when inverted. Even when lighting the underside of canopies, wall mounted luminaires must be totally sealed, as wind driven rain can still reach the fixtures. Complete versatility is afforded with five light distributions offered in conjunction with 10° of fine tuning adjustment.

Down Facing Applications

In the architectural environment, wall mounted luminaires serve the purpose of lighting areas near the building without the visual distraction of poles. Five light distributions plus a 10° fine tuning adjustment provides flexibility for a wide range of applications. For large area applications, the Type IV offers tremendous forward throw. Narrow drives are ideal for the Type II, while the Type III serves as an excellent light pattern for parking lots next to buildings.

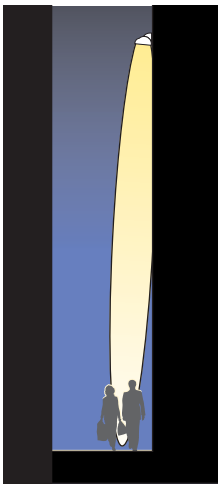




Up Facing Applications

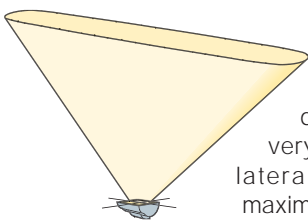
The Wall Grazer optical configuration projects an intense sheet of light up the wall for highlighting reliefs, projections and surface textures. 10° of fine adjustment, aiming the band of illumination for greatest effect is easily accomplished.

Wall grazing should not be confused with "façade lighting," which is normally produced by floodlights set back from the wall to create uniform lighting. Wall grazing will light the wall to a limited degree, but its real purpose is to create highlight effects, rather than uniform wall washing.

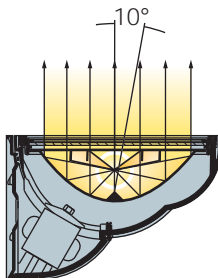


Down Facing Applications

As a down facing light, the Wall Grazer can be used to provide increased security lighting for building perimeters. For this application the fixture would be mounted high on the building façade because of its narrow beam pattern. Sidewalks, alleys and pathways can be highlighted for pedestrian security and safety, with minimal light contribution into adjacent areas or buildings. The adjustment feature is used to precisely aim the band of illumination.



The Wall Grazer's unique distribution creates dramatic, and very distinct highlighting effects. Its lateral coverage is very wide to maximize fixture spacing.



Fine aiming adjustments for maximizing lighting effects can be accomplished with the fixtures in operation. The Wall Grazer reflector assembly is designed with a built-in -3° tilt toward the wall surface.



Wall Grazer louver vanes control brightness on wall surfaces directly above or below the fixture.

Wall Graze Lighting

When a building façade is designed to have interesting surface texture, reliefs, projections or other embellishments, grazing the wall with light can produce dramatic nighttime effects. Standard oval floodlight beam patterns are not suited to this application.



5 Optional Houseside Shield:

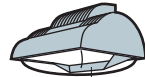


Cat. No.: **HS**

HS for flat lens

Combination louver shield and black end-panel for reflector. Factory installed to reflector module. Reduces light toward wall by the following amounts:

	Type II	Type III	Type IV
Approximate light reduction toward wall.	WD18 -72%	-73%	-84%



Cat. No.: **HSC**

HSC for Lexan SLX Enclosure

For fixtures with optional Lexan® SLX Enclosure.

6 Optional 5° Shield:

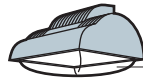


Cat. No.: **5DS18**

5° Shield

Aluminum shield field-attached to lens frame. Maintains a horizontal cutoff fixture edge when the luminaire is tilted 5°. Finished to match the fixture.

7 Optional Lexan® SLX Non-Yellowing Enclosure:

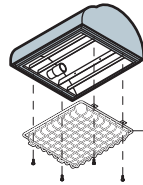


Cat. No.: **SX**

Lexan® SLX Enclosure

For DOWN fixture models only. Clear convex vacuum formed non-yellowing Lexan® SLX enclosure with gasket replaces standard tempered flat glass lens.

8 Optional Wire Guard:



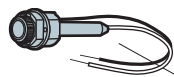
Cat. No.: **WG18**

Wire Guard

For use with all WD18 fixtures, UP or DOWN. 11 ga. (.12" dia.) BB Wire, (.75" sq. welded mesh pattern.) 15" x 14½" x 1½" deep. Finish is Super TGIC thermoset polyester powder coat paint, over zinc plated wireform. Finished to match the fixture.

NOTE: Only available with flat lens applications.

9 Optional Fusing:



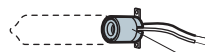
Line Volts:

Cat. No.:

Single Fuse

120V	208V	240V	277V	347V	480V
SF	DF	DF	SF	SF	DF

10 Optional Quartz Standby:

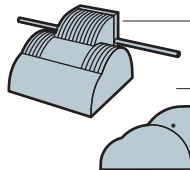


Cat. No.: **QS**

Quartz Standby

Integral electronic device energizes a T-4 mini-can socket during initial lamp start-up or after a power interruption. De-energizes prior to HID lamp reaching full brightness. T-4 halogen lamp by others; 150W maximum.

11 Optional Surface Conduit Mount:



Cat. No.: **SCM18**

1½"
(38.1 mm)

For use with all WD18 fixtures, UP or DOWN. Cast aluminum junction box and fixture mount for attachment (by others) to existing walls, beams or columns. SCM18 has one ¾" NPT conduit tap in each side, top and bottom. Finished to match the fixture.

6 Optional Houseside Shield:



Cat. No.: **HS**

HS for flat lens

Combination louver shield and black end-panel for reflector. Factory installed to reflector module. Reduces light toward wall by the following amounts:

	Type II	Type III	Type IV	
Approximate light reduction toward wall.	WD14	-43%	-74%	-77%



Cat. No.: **HSC**

HSC for Lexan SLX Enclosure

For fixtures with optional Lexan® SLX Enclosure.

7 Optional 5° Shield:



Cat. No.: **5DS14**

5° Shield

Aluminum shield field-attached to lens frame. Maintains a horizontal cutoff fixture edge when the luminaire is tilted 5°. Finished to match the fixture.

8 Optional Lexan® SLX Non-Yellowing Enclosure:

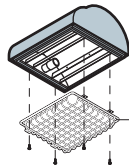


Cat. No.: **SX**

Lexan® SLX Enclosure

For DOWN fixture models only. Clear convex vacuum formed non-yellowing Lexan® SLX enclosure with gasket replaces standard tempered flat glass lens.

9 Optional Wire Guard:



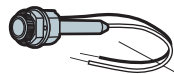
Cat. No.: **WG14**

Wire Guard

For use with all WD14 fixtures, UP or DOWN. 11 ga. (.12" dia.) BB Wire, (.75" sq. welded mesh pattern.) 11³/₈" x 10¹/₄" x 1¹/₂" deep. Finish is Super TGIC thermoset polyester powder coat paint, over zinc plated wireform. Finished to match the fixture.

NOTE: Only available with flat lens applications.

10 Optional Fusing:

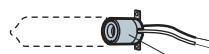


Line Volts:
Cat. No.:

Single Fuse

120V	208V	240V	277V	347V	480V
SF	DF	DF	SF	SF	DF

11 Optional Quartz Standby:

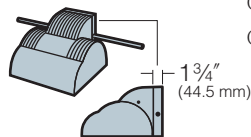


Cat. No.: **QS**

Quartz Standby

Integral electronic device energizes a T-4 mini-can socket during initial lamp start-up or after a power interruption. De-energizes prior to HID lamp reaching full brightness. T-4 halogen lamp by others; 100W maximum.

12 Optional Surface Conduit Mount:



Cat. No.: **SCM14U**

Cat. No.: **SCM14D**

1³/₄"
(44.5 mm)

For WD14 fixtures, UP only.

For WD14 fixtures, DOWN only.

For use with all WD14 fixtures, UP or DOWN. Cast aluminum junction box and fixture mount for attachment (by others) to existing walls, beams or columns. SCM14 has one 3/4" NPT conduit tap in each side, top and bottom. Finished to match the fixture.

13 Optional Battery Back-up:



Cat. No.: **EM**

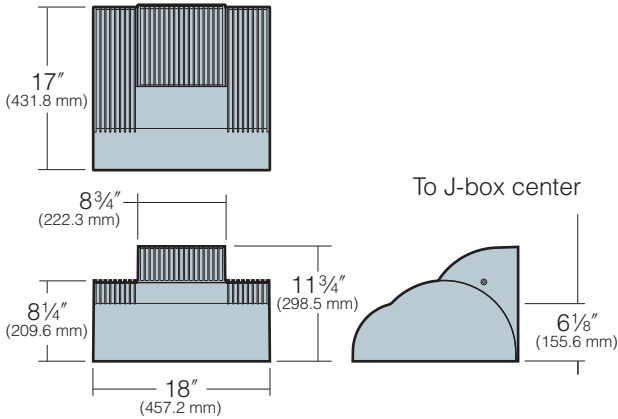
Internal battery pack provides 90 minutes of supplemental light at 750 lumens on 26, 32, or 42 watt compact fluorescent lamps. (Remote mounted battery pack also available for 57W, CFL - consult factory.)

Luminaire Specifications

WD18 and WD14 Models

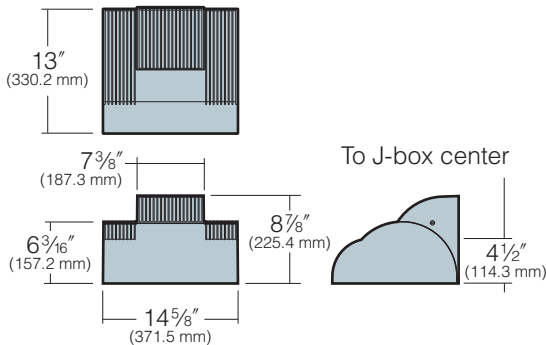
Dimensions

WD18 Model
250 to 400 watt
Mogul Base Lamps



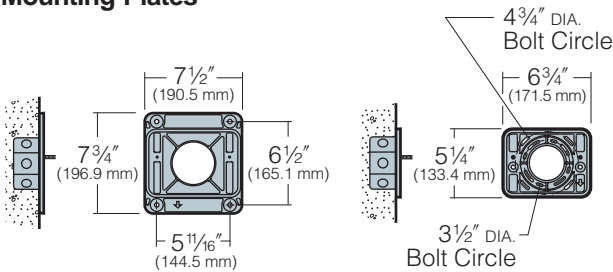
Maximum fixture weight (400HPS) = 43 lbs

WD14 Model
42 to 175 watt
Medium Base Lamps



Maximum fixture weight (150HPS) = 26 lbs

Mounting Plates



WD18 Mounting Plate
Must be securely attached
to wall outside the
J-box perimeter

WD14 Mounting Plate
Attaches directly to any
standard 4" J-box
(by others)

Reflector Housing: One-piece die-cast, low copper alloy (<0.6% Cu) aluminum with integral cooling fins. Rotates against ballast housing to provide 10° of adjustment with degree markers cast into the housing. At 0° adjustment, lens is totally concealed from view above horizontal with fixture aimed downward.

Ballast Housing: One-piece die-cast, low copper alloy (<0.6% Cu) aluminum with integral cooling fins. Fastens to mounting plate with keyhole slots freeing both hands for securing and wiring. One stainless steel socket-head screw on each side of housing frees the reflector housing to rotate for aiming. Tightening the screws locks the two housings together with sealing provided by a silicone gasket. For visual aiming, adjustment may be accomplished with the fixture on.

Lens Frame: One-piece die-cast, low copper alloy (<0.6% Cu) aluminum with integral hinges and stainless steel pins. Two stainless steel quarter-turn fasteners secure lens frame to reflector housing with sealing provided by a one-piece extruded and vulcanized silicone gasket. Lens is clear flat 3/16" thick tempered glass sealed to lens frame with a silicone gasket and retainer clips. For UP models, lens is mounted flush with frame for water run off, and is silicone sealed.

Type II, III, and IV Reflector Module: Specular Alzak® optical segments are rigidly mounted within a die-cast aluminum enclosure that attaches to the housing by a no-tool quick-disconnecting hinge and fastener. For WD14 models all sockets are porcelain medium base rated 4KV. For WD18 models all sockets are mogul base with HPS and PMH rated 4KV, and MH versions have pin-oriented sockets with molded silicone lamp stabilizers. All modules are factory prewired with a quick-disconnect plug for mating to the ballast. Available in three light distributions, all interchangeable within the same housing.

Wall Grazer Reflector Module: Specular Alzak® optical segment is rigidly formed into a self-contained module which attaches to the housing by a no-tool quick-disconnecting hinge and fastener. Black louver vanes run parallel to the lamp arc for controlling the hot spot directly behind the fixture, and spill light into the atmosphere. For WD14, all sockets are porcelain medium base rated 4KV. For WD18, all sockets are porcelain mogul base with HPS and PMH rated at 4KV, and MH versions having pin-oriented sockets with molded silicone lamp stabilizers. All modules are factory prewired with a quick-disconnect plug for mating to the ballast.

Spot Reflector Module: Specular Alzak® optical spun parabola is rigidly mounted to a self-contained module which attaches to the housing by a no-tool quick-disconnecting hinge and fastener. Black internal louvers are provided to control the beam and prevent hot spots directly behind the fixture and spill light into the atmosphere. For WD14, all sockets are porcelain medium base rated 4KV. For WD18, all sockets are mogul base with HPS and PMH rated 4KV, and MH versions have pin-oriented sockets with molded silicone lamp stabilizers. All modules are factory prewired with a quick-disconnect plug for mating to the ballast. The induction fluorescent model is mounted to housing wall.

Electrical Components: High power factor ballasts are rigidly mounted inside the housing and factory prewired with a quick-disconnect plug for mating to the socket. Starting temperatures are -40°F for HPS lamp modes and -20°F for MH and PMH lamp modes. For induction fluorescent, a complete HF generator and induction lamp system is furnished mounted to the aluminum plate inside housing. Induction lamp system is high power factor rated for -40°F, starting.

Mounting Plate: For WD14, mounting plate attaches directly to any standard 4" junction box. For WD18, standard mounting plate is attached to wall (by others) outside the junction box perimeter. All mounting plates are die-cast aluminum with reinforced ribs. Two studs are provided in each plate with flange nuts to allow fixture mounting by keyhole slots. Sealant must be applied (by others) between mounting plate and mounting surface to insure a dry junction box.

Finish/Color: Finish is Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a titanated zirconium conversion coating; A.S.T.M. 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Platinum Silver, or White. Custom colors are available.

CAUTION: Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

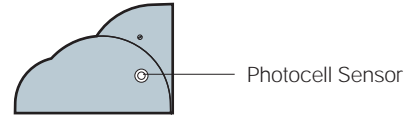
Listings and Ratings

UL cUL 1598	-	25C Ambient
IP66 Rated	CE	ISO 9001:2000

See pages 10-13 for complete ordering information

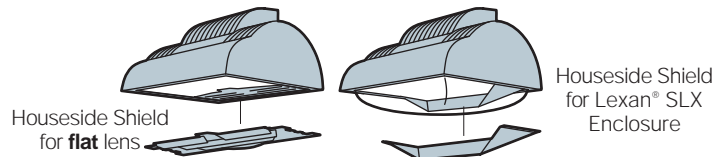
Base Socket (G12): Only available for 70W and 150W Pulse Start Metal Halide lamps.

Photocell Control: Factory installed inside housing with fully gasketed sensor on side wall.

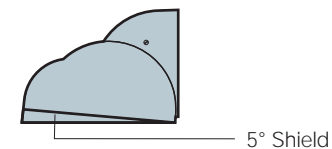


Houseside Shield (HS/HSC): Combination louver shield and black end-panel for reflector. Factory installed to reflector module. Reduces light toward wall by the following amounts.

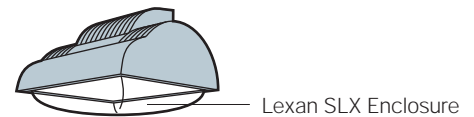
CAUTION: Do not use the Houseside Shield option with the Wall Grazer as it will interfere with the light distribution.



5° Shield (5DS): Aluminum shield field-attached to lens frame. Maintains a horizontal cutoff fixture edge when the luminaire is tilted 5°. Finished to match the fixture.



Lexan® SLX Enclosure (SX): For DOWN models only. Clear convex vacuum formed non-yellowing Lexan® SLX enclosure with gasket replaces standard tempered flat glass lens.

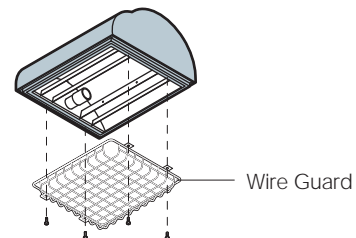


Wire Guard (WG): For use with all WD14 and WD18 fixtures, UP or DOWN. 11 ga. (.12" dia.) BB Wire. (.75" sq. welded mesh pattern.) Finish is Super TGIC thermoset polyester powder coat paint, over zinc plated wireform. Finished to match the fixture.

NOTE: Only available with flat lens applications.

WG18 = 15" x 14½" x 1½" deep.

WG14 = 11¾" x 10¼" x 1½" deep.



Fusing: High temperature fuse holders factory installed inside the fixture housing. Single fusing (**SF**) for 120V, 277V and 347V or Double fusing (**DF**) for 208V, 240V and 480V.

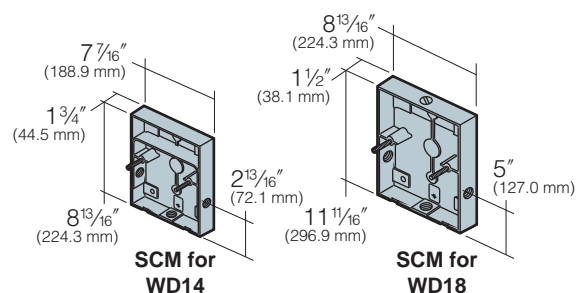


Quartz Standby (QS): Integral electronic device energizes a T-4 mini-can socket during initial lamp start-up or after a power interruption. De-energizes prior to HID lamp reaching full brightness. T-4 halogen lamp by others; 100W maximum for WD14, 150W maximum for WD18.

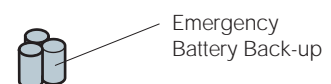


Surface Conduit Mounting (SCM): Cast aluminum junction box and fixture mount for attachment (by others) to existing walls, beams or columns. SCM18 has one ¾" NPT conduit tap in each side, top and bottom. SCM14 has one ¾" NPT conduit tap in each side and bottom only. Finished to match the fixture.

NOTE: Must be securely mounted to wall surface.



Optional Emergency Battery Back-up (EM): Internal battery pack provides 90 minutes of supplemental light at 750 lumens on 26, 32, or 42 watt compact fluorescent lamps. (Remote mounted battery pack also available for 57W, 60W, and 70W CFL - consult factory.)



Lamp and Electrical Guide

Lamp	Lamp Watts	ANSI Ballast Type	Life (Hours)	Initial Lumens	Voltage	Operating Amps.	Open Circuit	Starting Amps.	Max. Amps.
HIGH PRESSURE SODIUM									
70HPS									
ED-17 Clear Medium Base	70	S-62	24000+	6300	120	0.81	1.45	0.75	1.45
					208	0.47	0.85	0.45	0.85
					240	0.40	0.75	0.37	0.75
					277	0.35	0.65	0.35	0.65
					347	0.30	0.55	0.30	0.55
					480 ^s	0.21	0.36	0.21	0.36
100HPS									
ED-17 Clear Medium Base	100	S-54	24000+	9500	120	1.15	2.20	1.30	2.20
					208	0.67	1.25	0.75	1.25
					240	0.58	1.10	0.65	1.10
					277	0.50	0.85	0.60	0.85
					347	0.39	0.70	0.45	0.70
					480 ^s	0.29	0.55	0.35	0.55
150HPS									
ED-17 Clear, Medium Base (WD14) E-18 Clear, Mogul Base (WD18)	150	S-55	24000+ 24000+	16000 20000	120	1.65	2.80	2.00	2.80
					208	0.95	1.60	1.15	1.60
					240	0.83	1.40	1.00	1.40
					277	0.72	1.25	0.85	1.25
					347	0.56	0.92	0.52	0.92
					480 ^s	0.42	0.70	0.50	0.70
250HPS									
ED-18 Clear Mogul Base	250	S-50	24000+	29000	120	2.50	1.70	1.65	2.50
					208	1.50	1.00	0.95	1.50
					240	1.30	0.85	0.80	1.30
					277	1.10	0.75	0.70	1.10
					347	0.93	0.70	0.60	0.93
					480	0.63	0.45	0.40	0.63
400HPS									
ED-18 Clear Mogul Base	400	S-51	24000+	51000	120	3.80	2.00	3.30	3.80
					208	2.20	1.20	1.80	2.20
					240	1.90	0.95	1.50	1.90
					277	1.70	0.85	1.40	1.70
					347	1.32	0.70	1.00	1.32
					480	0.97	0.55	0.75	0.97
PULSE START METAL HALIDE									
50PMH^e									
ED-17 Clear Medium Base	50	M-148/ M-110	20000+	4000	120	0.62	1.16	0.87	1.16
					208	0.40	0.67	0.51	0.67
					240	0.35	0.57	0.47	0.57
					277	0.32	0.50	0.32	0.50
					347	0.24	0.48	0.21	0.48
70PMH^e									
T6 Clear G-12 Base ED-17 Clear Medium Base	70	M-143/ M-98	20000+	5900	120	0.80	1.90	0.55	1.90
					208	0.46	1.00	0.30	1.00
					240	0.40	0.90	0.25	0.90
					277	0.35	0.80	0.25	0.80
					347	0.28	0.65	0.20	0.65
					480 ^s	0.23	0.50	0.26	0.50
100PMH^e									
ED-17 Clear Medium Base	100	M-140/ M-90	20000+	8800	120	1.15	2.30	1.20	2.30
					208	0.66	1.40	0.80	1.40
					240	0.58	1.15	0.65	1.15
					277	0.50	1.00	0.60	1.00
					347	0.40	1.00	0.40	1.00
					480 ^s	0.30	0.55	0.30	0.55
125PMH^e									
ED-17 Clear Medium Base	125	M-150	10000+	10200	120	1.25	0.80	0.80	1.25
					208	0.75	0.45	0.45	0.75
					240	0.65	0.40	0.40	0.65
					277	0.55	0.35	0.35	0.55
150PMH^e									
T6 Clear G-12 Base ED-17 Clear Medium Base	150	M-142/ M102	20000+	12800	120	1.60	3.65	1.75	3.65
					208	1.00	2.10	1.30	2.10
					240	0.80	1.80	0.85	1.80
					277	0.70	1.58	0.77	1.58
					347	0.55	1.25	0.65	1.25
					480 ^s	0.42	0.81	0.45	0.81
200PMH									
T-15 Clear Mogul Base	200	M-136	15000+	19000	120	2.00	2.00	0.75	2.00
					208	1.20	1.20	0.40	1.20
					240	1.00	1.00	0.35	1.00
					277	0.85	0.85	0.30	0.85
					347	0.70	0.65	0.25	0.70
					480	0.50	0.50	0.18	0.50
250PMH									
ED-28 Clear Mogul Base	250	M-138	15000+	23750	120	2.50	1.40	1.90	2.50
					208	1.45	0.80	1.10	1.45
					240	1.25	0.70	0.96	1.25
					277	1.10	0.65	0.85	1.10
					347	0.98	0.75	0.45	0.98
					480	0.60	0.62	0.32	0.62
20PMH									
ED-28 Clear Mogul Base	320	M-154/ M132	20000+	30000	120	3.25	2.30	1.80	3.25
					208	1.90	1.35	1.05	1.90
					240	1.65	1.15	0.90	1.65
					277	1.40	1.00	0.80	1.40
					347	1.10	0.80	0.70	1.10
					480	0.80	0.60	0.45	0.80
350PMH									
ED-28 Clear Mogul Base	350	M-131	20000+	33000	120	3.40	2.20	2.20	3.40
					208	2.00	1.30	1.30	2.00
					240	1.70	1.10	1.10	1.70
					277	1.50	1.00	1.00	1.50
					347	1.20	0.80	0.85	1.20
					480	0.85	0.60	0.60	0.85
400PMH									
ED-28 Clear Mogul Base	400	M-135	15000+	40000	120	3.80	2.20	2.85	3.80
					208	2.20	1.50	1.65	2.20
					240	1.90	1.10	1.45	1.90
					277	1.65	0.95	1.25	1.65
					347	1.35	0.75	1.10	1.35
					480	1.00	0.60	0.75	1.00

Lamp	Lamp Watts	ANSI Ballast Type	Life (Hours)	Initial Lumens	Voltage	Operating Amps.	Open Circuit	Starting Amps.	Max. Amps.
COMPACT FLUORESCENT¹									
42PL Coated GX24q-4 Base	42	-	12000	3200	120	-	-	-	0.39
					208	-	-	-	0.23
					240	-	-	-	0.20
					277	-	-	-	0.17
57PL ³ Coated GX24q-5 Base	57	-	12000	4300	120	-	-	-	n/a
					208	-	-	-	n/a
					240	-	-	-	n/a
					277	-	-	-	n/a
INDUCTION FLUORESCENT									
55IF ^{2,3} Induction Lamp	55	-	-	-	120	-	-	-	0.50
					208	-	-	-	0.29
					240	-	-	-	0.25
					277	-	-	-	0.22
85IF ^{2,3} Induction Lamp	85	-	-	-	120	-	-	-	0.77
					208	-	-	-	0.44
					240	-	-	-	0.39
					277	-	-	-	0.33

¹ Multiple CFL lamp configurations (ie, two 42W lamps) are possible with certain optical systems. Consult factory for details.

² 85WIF lamps available for WD18 only. Not recommended for all distribution types.

³ Remote battery pack and test switch available for 57W CFL lamps - consult factory. "EM" option not available with 55W IF, or 85W IF lamps.

⁴ Lamp and electrical data supplied for reference purposes only. All initial lumen values shown may vary from one manufacturer to another. Consult lamp manufacturer's data for exact lumen and life data.

⁵ 480 volt with medium base lamp sockets may require approval by the local building code authority.

⁶ **CAUTION:** All manufacturers of metal halide lamps recommend turning them off for 15 minutes once per week when under continuous operation. This will reduce the risk of arc tube rupture at end of life. Also, color temperature may differ between manufacturers of metal halide lamps. See lamp manufacturers' specification sheets.

WARNING: Fixtures must be installed and grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

For lamp/ballast information outside of the U.S.A. and Canada, please consult your local Kim representative.

Lamps by others.

Application Engineering Services



Applications Assistance

Kim Lighting utilizes the latest computer technology and software to provide specifiers with reliable evaluations of lighting system performance. We can analyze a proposed luminaire layout or provide recommendations based on performance criteria.

Electronic copies of plans can be sent directly to yyeager@hubbell-ltg.com. Hard copies can be sent by fax at 864-678-1743, or they can be mailed to Applications Dept, 701 Millennium Blvd, Greenville, SC 29607.

Photometric Files

Kim Lighting .ies format photometric files are available for use in lighting calculation software. The complete IES File Library is on the internet at www.kimlighting.com.

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