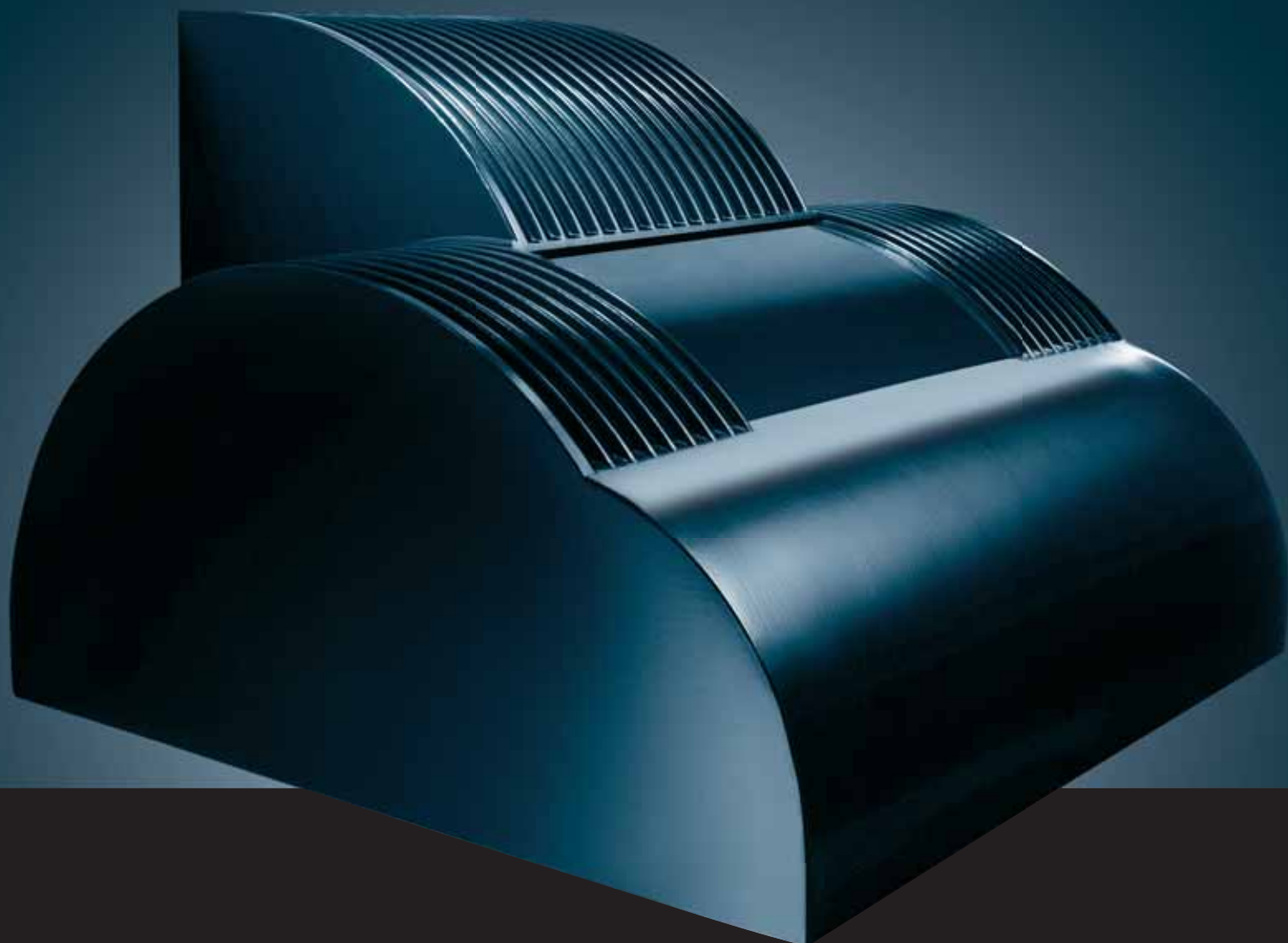


Wall Director[®] LED



The Next Generation of
LED Wall Mounted Lighting

WALL DIRECTOR

The Next Generation of LED Wall Mounted Lighting

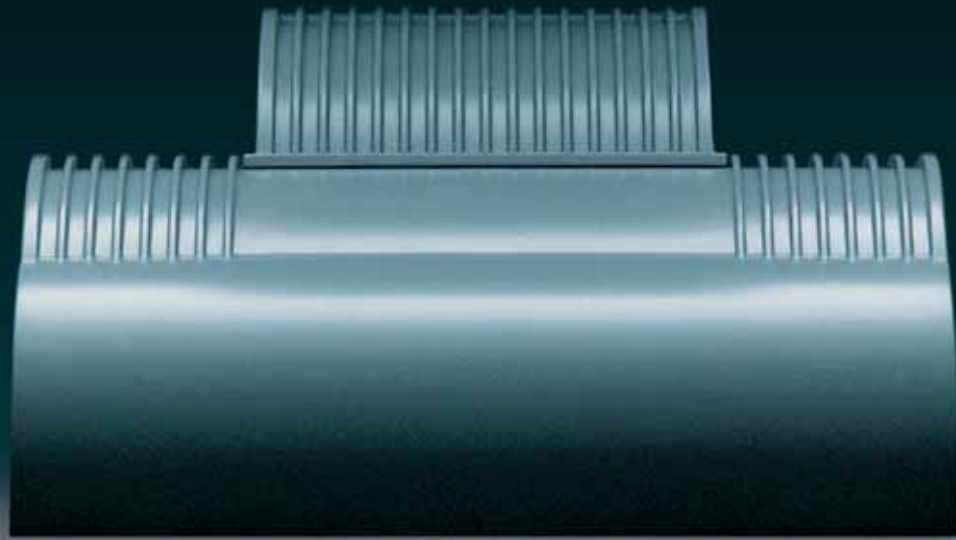
Contents:

Exclusive Optical Technology	2
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Warranty	Back Cover

KIM LIGHTING

Kim Lighting is known throughout the world as the premier designer and manufacturer of quality, high performance, and architecturally relevant outdoor lighting solutions. Kim Lighting is a division of Hubbell Lighting, Inc.





Wall Director[®] LED

The Wall Director LED provides an innovative solution to the challenge of 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. Its flowing lines extend from the wall like a sconce, while simple geometry complements the architectural surface. Combined with performance LED optics, zero uplight above 90° (down position only), adjustability and invertible mounting, the Wall Director LED embodies the ultimate architectural wall luminaire. The Wall Director LED comes in two sizes and is compatible with many dimming systems.

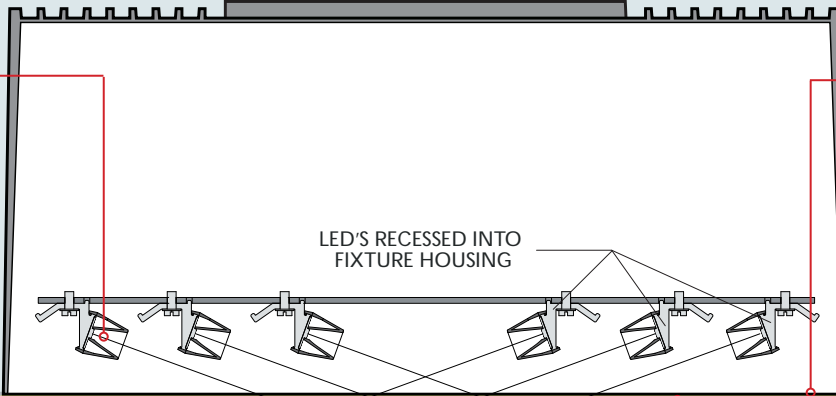
This is LED wall mounted lighting perfection. This is Kim Lighting.



Exclusive Optical Technology

Canted MicroEmitter™ Design Each Wall Director® LED Emitter reflector is precisely aimed at optimal angles for maximum reach and uniform illumination.

Achieving Zero Uplight Wall Director LED MicroEmitter reflectors are recessed into the fixture housing, producing zero uplight above the horizontal plane. (Down position only)



Zero Uplight

Zero Uplight

Glare-Free Zone

Glare-Free Zone



KIM LIGHTING
MICROEMITTER MODULE
PATENT PENDING

Glass Lens
Durable, clear tempered flat glass lens.
Polycarbonate also available.

Optical Precision

Utilizing the superior optical performance of Kim Lighting's MicroEmitter technology, the Wall Director LED is available in IES Type II, III, and IV distributions, and can be specified in the up or down orientation. The patent pending optical system provides superior glare control, uniformity of illumination, and elimination of nadir dump beneath the luminaire.



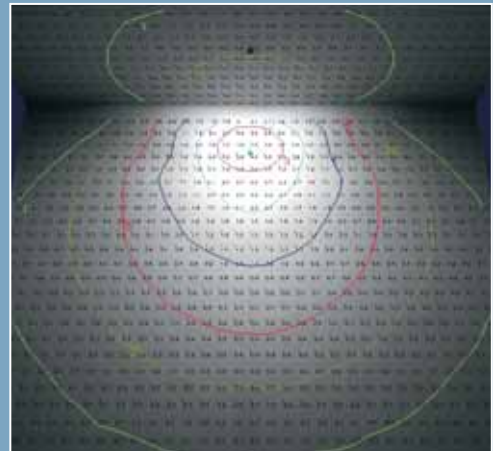
Type II



Type III

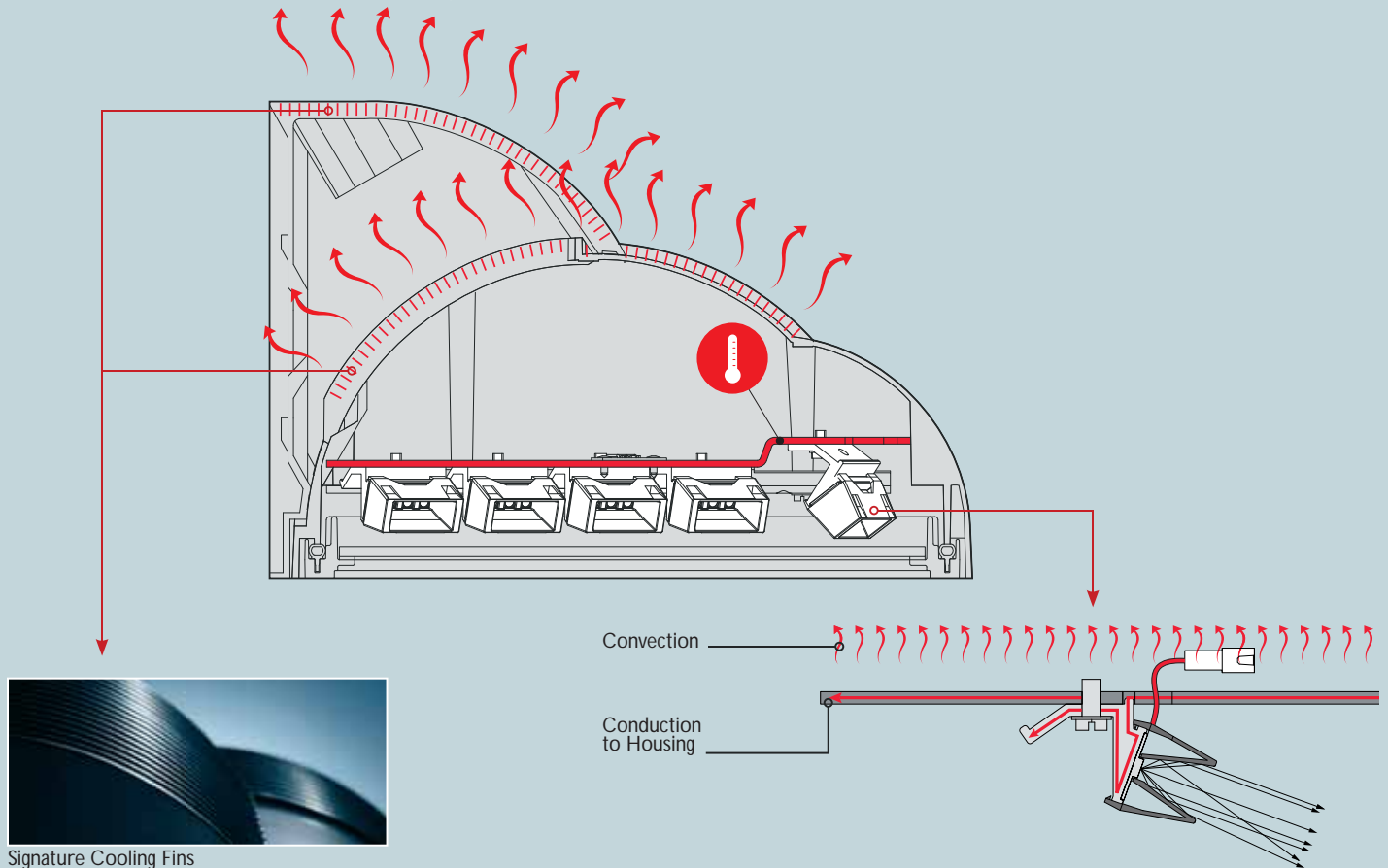


Type IV



Type IV Distribution Shown

Thermal Management System



Dual Heat Management with Exclusive LifeShield® Protection System

Wall Director® LED luminaires employ two distinct but complimentary methods to manage the life-limiting heat produced by the LED diode. Both conduction and convection are used to disperse heat, thereby maintaining diode performance and long life. Heat is drawn away from the housing chamber and dispersed into the free air around the luminaire. Additionally, each MicroEmitter module incorporates a solid aluminum heat sink, which is mechanically secured to the EmitterDeck™. The EmitterDeck is composed of a heavy gauge aluminum carrier plate and is affixed directly to the housing to dissipate heat to the outside environment.

AUTOMATIC THERMAL SELF-MONITORING AND ADJUSTMENT

Each EmitterDeck incorporates two temperature sensors located at the hottest locations of the back side of the deck. Each sensor sends temperature readings every 30 seconds to Kim Lighting's exclusive LifeShield Protection System. In extreme conditions, LifeShield detects above tolerance temperature and automatically lowers the current to the MicroEmitter to preserve diode life. Lumen output is restored to full capacity once the temperature is stabilized to within acceptable limits. The LifeShield Protection System provides consistent performance with minimal output reduction in extreme and fluctuating environmental conditions. See page 9 for further details.



LifeShield®
Protection System

Distribution Flexibility

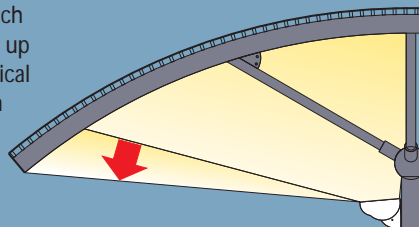


* Footcandles readings at one mounting height forward.

Mounting and Adjustability Options

Kim Lighting's effective thermal management approach allows the Wall Director® LED to be installed in the up position without concerns of overheating the electrical components due to upward conducting heat. Lumen output and diode life remain the same in both up and down orientations.

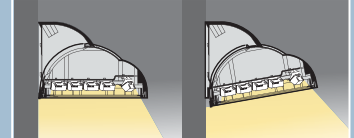
Another exclusive feature is the ability to fine tune Wall Director's distribution out in the field. The 10° adjustment mechanism is located between the lower and upper housing, and can be easily adjusted in the field after installation.



Optional 5° Accessory Shield

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

Adjustable Distribution Option



0° adjustment 10° adjustment



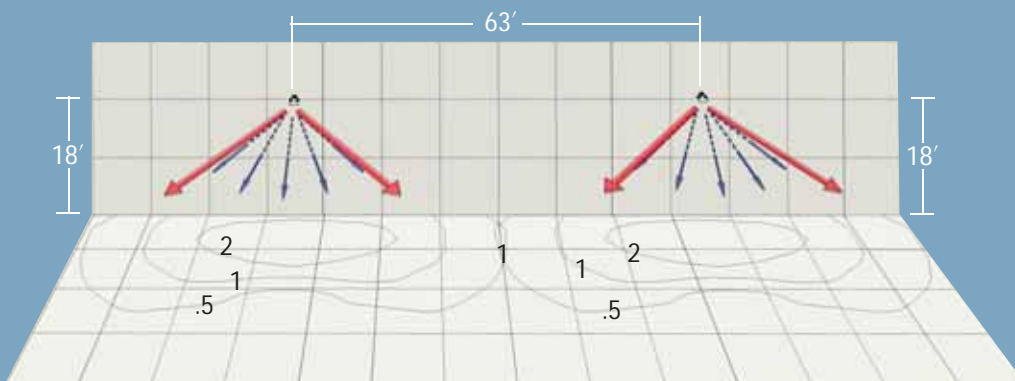
Degree markers are cast into the housing for proper adjustment and can be field adjusted using an Allen wrench tool.



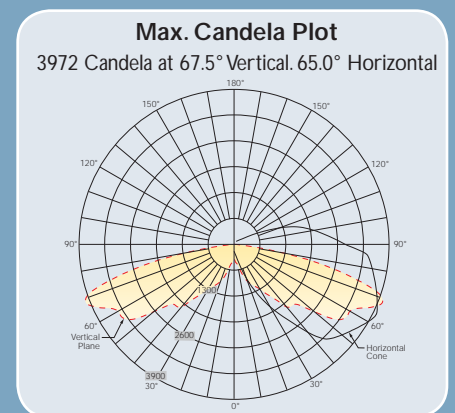
The above illustration is a BIM project example using Kim Lighting's .rfa and .ies formatted files. To create your own layout using Kim Lighting's technical data, register at www.kimlighting.com and download Wall Director LED's design files.

Uniform Illumination

The flexibility of the MicroEmitter™ technology allows distribution patterns to precisely meet stringent requirements for vertical and horizontal illumination. Light is placed where it is needed, creating superior uniformity for perimeter lighting applications.



Type III Lighting Distribution Layout Shown



HID to LED Upgrade



EmitterDeck™ Upgradeability

Existing Wall Director® HID installations can now be upgraded to cutting edge LED technology. The Upgrade Kits install in just minutes, providing a value-added upgrade solution. As a Kim Lighting product, the upgrade kit preserves ETL listing and manufacturer's warranty ... something that third party retrofits cannot do.

Kim Lighting's MicroEmitter-based LED luminaires can also be upgraded to the latest LED technology as it evolves over time. Replacement EmitterDecks featuring the latest LED technology are available exclusively from Kim Lighting.

Description	Total Luminaire Wattage	Energy Savings (Watt)	Energy Savings (Kw)	Savings Per Yr @ 11 Hrs per night @ \$0.10 Per Kwh ¹
WALL DIRECTOR LED	140	-	-	-
150W Metal Halide	185	45	.045	\$ 58.07
200W Metal Halide	240	100	.100	\$ 80.15
250W Metal Halide	291	151	.151	\$100.63
150W HPS	188	48	.048	\$ 59.27
200W HPS	240	100	.100	\$ 80.15
250W HPS	295	155	.155	\$ 102.23

¹ Assumes HID lamp replacement every three years, includes labor and lamp.

Design Innovation



MicroEmitter Maintenance

Kim Lighting's MicroEmitter LED luminaires are modularly designed to provide ease of maintenance and upgradeability as LED technology advances. These unique features make Wall Director® LED luminaires a sustainable solution for today and for decades to come.



MICROEMITTER MODULE REMOVAL
A single removable mounting screw holds MicroEmitter module in place.



DISCONNECTING THE WIRING
Once the MicroEmitter module is released, slowly pull the wiring through the mounting slot to access the electrical quick connectors.



QUICK CONNECT WIRING
Install the new MicroEmitter by reconnecting the electrical quick connectors and replacing the mounting screw.

Preserving Resources



DEPARTMENT OF ENERGY (DOE): Kim Lighting is a strategic partner working with the DOE in the development of nationwide SSL standards that balance efficiency and lighting quality.



ROHS/WEEE COMPLIANT: Kim Lighting is doing its part to limit hazardous waste. The Wall Director® LED housing and LED components meet strict US and international environmental protection and recyclability requirements.



WALL DIRECTOR LED driver is a 0-10V dimming interface, allowing 0-100% illumination output when synchronized with a control or dimming system. Customers can reduce lumen output and energy consumption during unoccupied periods.



MADE FROM +90% RECYCLED MATERIALS: The Wall Director LED aluminum housing and reflector components are constructed from more than 90% recycled materials and are entirely lead and mercury free.

Contributing to Tomorrow ... Today

Kim Lighting is working closely with numerous organizations to develop industry standards to assure the efficiency, dependability and quality of the LED products that are sold to our customers.

HID to LED Upgrade Kits are available from Kim Lighting for Wall Director HID luminaires already operating in the field. The Upgrade Kits install in just minutes, providing a value-added upgrade solution. As a Kim Lighting product, the upgrade kit preserves ETL listing to UL standards and manufacture's warranty... something that third party retrofits cannot do.

Kim Lighting's LED luminaires and upgrade kits qualify for many rebate and tax incentive programs nationwide. Always check local utility, state and federal incentive programs developed by the U.S. Department of Energy, as these programs update frequently. www.dsireusa.org is a great resource for current information on rebate and tax incentive programs nationwide.



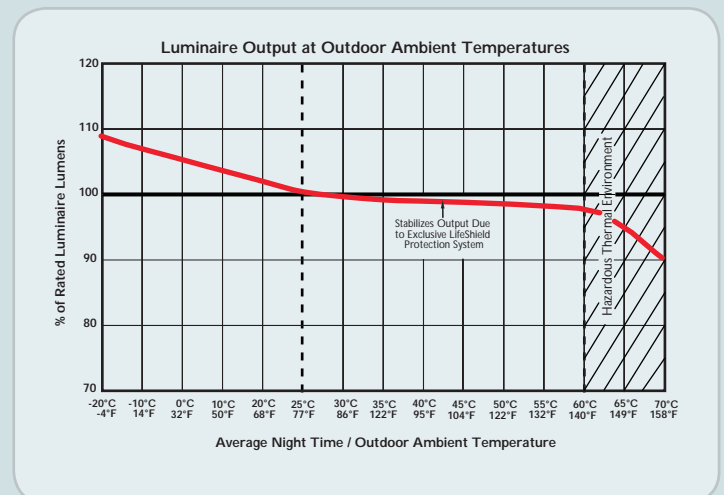
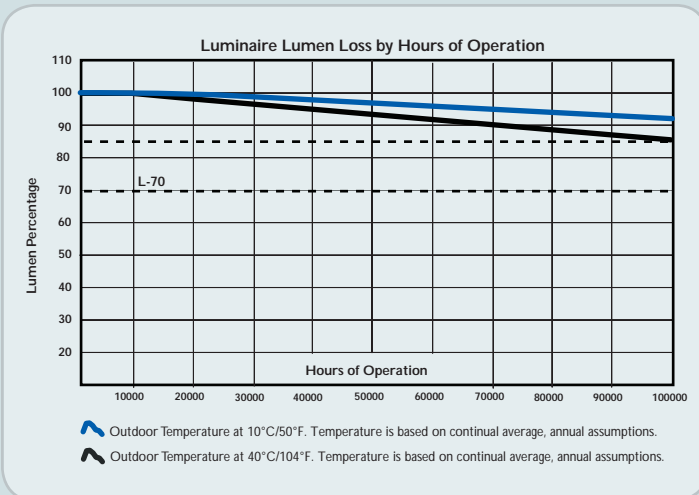
GUARANTEE

Kim Lighting offers an exclusive "plus one" guarantee on any LED housing that is upgraded with a new Kim Lighting LED EmitterDeck. Customers will enjoy an additional 1-year housing warranty, free of charge.¹

¹One-year extension includes existing metal housing components. Existing product conditions are taken as the base point. Participation rules apply. See complete warranty provisions for further details.

Lumen Performance

Wall Director® LED's exclusive LifeShield® Protection System controls lumen depreciation in extreme and fluctuating environments to preserve operational lifespan. Always consult www.kimlighting.com for the most current performance data.



Notes:

- Lumen loss stabilization is a result of Kim Lighting's MicroEmitter luminaires exclusive LifeShield Protection System and Dual Heat Management System.
- The LifeShield Protection System will lower the current to the LEDs significantly if the luminaire is exposed to direct heat (sun) or excessive abnormal conditions.
- Luminaire Lumen Loss assumptions are based on LM-80 results and an actual outdoor product testing based upon 5100K CCT, 350mA drive current, 25°C lab ambient and cathode temperature at 85°C. Assumptions past 6,000 hours are interpolated.
- Cathode temperature baseline is at 85°C. If cathode temperature increases during ambient changes and abnormal environment conditions, % of rated lumens will slightly decrease.
- Outdoor ambient temperatures are assumed SITU averages by geographic region.
- As Solid State Lighting technology and thermal management systems continually advance, lumen loss projections are subject to improvement.

LM-79-2008 Compliance

(INDICATES STANDARD IES FORMATTING)

```

IESNA:LM-63-2002
[TEST]KL02051
[TESTLAB]KIM LIGHTING
[ISSUEDATE]05/04/10
[MANUFAC]KIM LIGHTING
[LUMCAT]WD18D4/LED-5100K
[LUMINAIRE]WALL DIRECTOR-LED
[MORE]DIE-CAST ALUMINUM HOUSING AND LENS FRAME. LED EMITTER
[MORE]DECK INCLUDES CONSTANT CURRENT LEDS, HEATSINK, AND
[MORE]REFLECTORS. CLEAR FLAT GLASS LENS. 1 150 WATT ADVANCE DRIVER
[LAMP]120 DIODES. 5100K. CONSTANT CURRENT.
[BALLAST]150 WATT 350mA ADVANCE DRIVER
[OTHER]SYSTEM WATTS = 140
[_MOUNTING]WALL MOUNTED
[_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[_ABSOLUTE]LUMENS]5894
TITLE NONE
1 -1 1 37 21 1 1 1.500000 1.416667 1.000000
    
```

Kim Lighting's photometric data for Wall Director LED luminaires is tested to the IESNA LM-79-2008 standard, and Kim Lighting only uses LEDs that are tested to the IESNA LM-80-2008 standard. When evaluating photometric data for LED luminaires, look for a negative one (-1) in the lumen output space of the photometric data file to assure compliance with LM-79-2008.

Test reports on page 13 reflect photometry performed under LM-79-2008 standards.

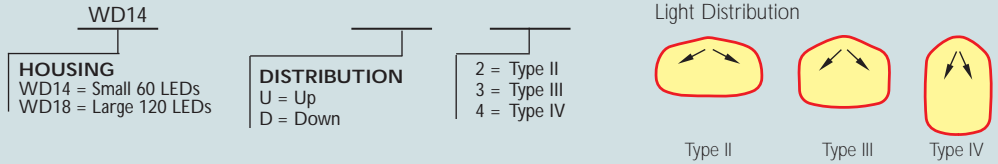
Actual Test Report

Wall Director® LED

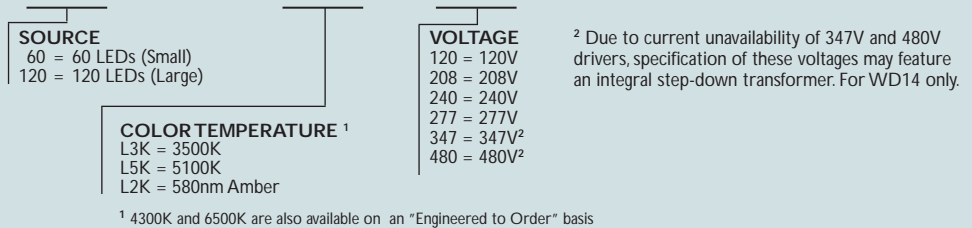
Ordering Example:

WD14-D3 / 60L5K120 / BL / A-30
1 2 3 4-11

1 Fixture
 Catalog no. designates fixture and light distribution.



2 Electrical Module

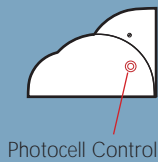


3 Finish
 Super TGIC powder coat paint over titanated zirconium conversion coating.

Color:	Stealth Gray	Light Gray	Platinum Silver	White	Black	Dark Bronze	Custom Colors
Cat. No.:	SG	LG	PS	WH	BL	DB	CC

Consult your Kim Lighting representative for custom colors.

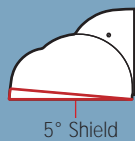
4 Optional Photocell Control:



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

Line Volts:	120V	208V	240V	277V	480V	347V
Cat. No.:	A-30	A-31	A-32	A-33	A-34	A-35

5 5° Shield

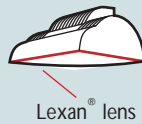


Cat. No.: **5DS14** for WD14
 Cat. No.: **5DS18** for WD18

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

Ordering Information

7 Lexan® Enclosure:

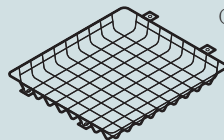


Cat. No.: **LS**

Clear flat Lexan® lens enclosure with gasket replaces standard tempered glass lens.

NOTE: Use only when vandalism is anticipated to be high. Useful life is limited by UV discoloration from sunlight. A program of regular inspection and periodic replacement is highly recommended to maintain optimum fixture performance.

8 Wire Guard:



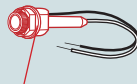
Cat. No.: **SDS14**
for WD14

Cat. No.: **SDS18**
for WD18

11 ga. (.12" dia.) BB Wire, (.75" sq. welded mesh pattern,) **WG14** is 11³/₈" x 10¹/₄" x 1¹/₂" deep. **WG18** is 15" x 14¹/₂" x 1¹/₂" deep. Finish is super TGIC thermoset polyester powder coat paint, over zinc plated wireform. Finished to mach the fixture.

NOTE: Only available with flat lens applications.

9 Optional Fusing:



Single Fuse

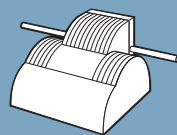
High temperature fuse holders factory installed inside the fixture housing. Fuse is included.

Line Volts:	120V	208V	240V	277V	347V	480V
Cat. No.:	SF	DF	DF	SF	SF	DF

10 Dimming Controls:
Contact factory for further details and current capabilities.

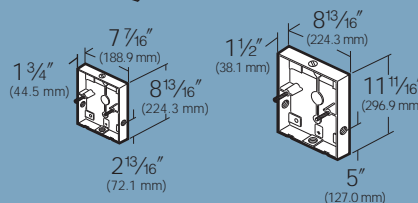
The Wall Director LED driver features a 0-10V dimming interface on the LifeShield® device, allowing 0-100% illumination output when synchronized with a control and dimming system, provided by others. Kim Lighting will advise availability of complete control packages, once they have been tested and exceed Kim's high quality standards.

11 Surface Conduit Mount



Cat. No.: **SCM14U**
Cat. No.: **SCM14D**
Cat. No.: **SCM18**

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 and bottom. **SCM18** has one 3/4" NPT conduit tap in each side, top and bottom. Must be securely mounted to wall surface. Finished to match the fixture.



WD14

WD18

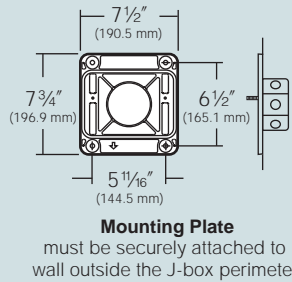
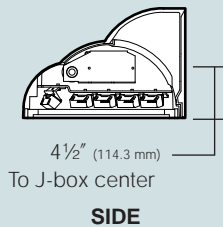
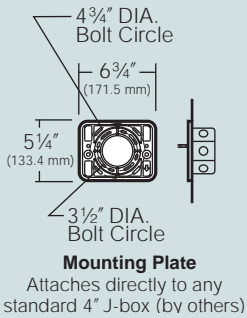
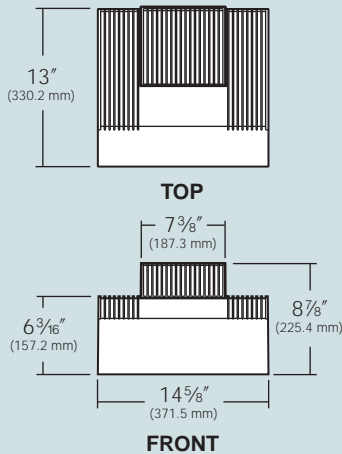
SCM14U for UP fixtures only.
SCM14D for DOWN fixtures only.
SCM18 for all fixtures UP and DOWN.

Note: Must be securely mounted to all surface

Specifications

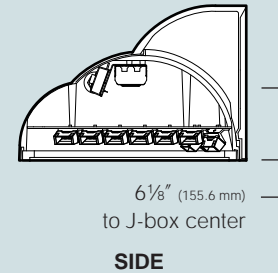
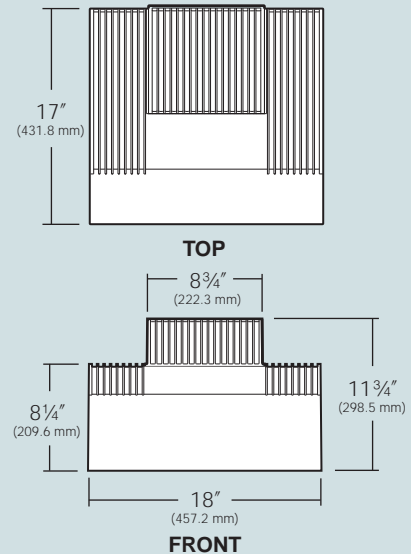
WD14

Small LED
60 LEDs
Maximum Weight:
26 lbs.
Maximum System
Watts = 73W



WD18

Large LED
120 LEDs
Maximum Weight:
43 lbs.
Maximum System
Watts = 140 W



REFLECTOR HOUSING: One-piece die-cast, low copper (<0.6% Cu) aluminum alloy 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.

LENS FRAME: One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral hinges and stainless steel pins. Two stainless steel screws secure lens frame to reflector housing with sealing provided by a one-piece extruded and vulcanized silicone gasket for WD18, and tool-less entry to reflector housing for the WD14. Lens is clear flat 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.

ELECTRONIC MODULE: All electrical components are UL recognized, mounted on a single plate and factory prewired with quick-disconnect plugs. Modules include a driver, LifeShield® temperature control device and surge protector. Drivers is rated for -40°F starting and has a 0-10V dimming interface. Electrical module attaches to housing with no-tool hinges and latches, accessible by removing the EmitterDeck.

OPTICAL MODULE: Precision, replaceable MicroEmitters are positioned to achieve directional control toward desired task. The entire EmitterDeck fastens to the housing as a one-piece module.

ELECTRICAL COMPONENTS: High power factor ballasts are rigidly mounted inside the housing and are factory prewired with a quick-disconnect plug for mating to the EmitterDeck.

MOUNTING PLATE: For WD14 the mounting plate attaches directly to any standard 4" junction box. For WD18 the 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: Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a titanated zirconium conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Stealth 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

ETL listed to UL 1598 standards ¹	IP66 Rated	25°C Ambient
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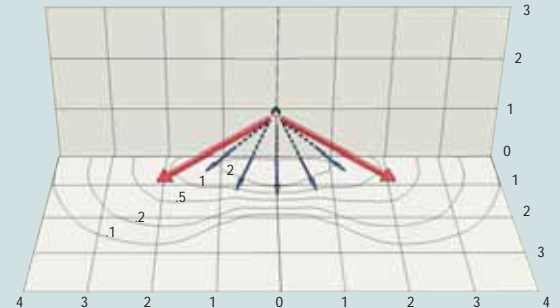
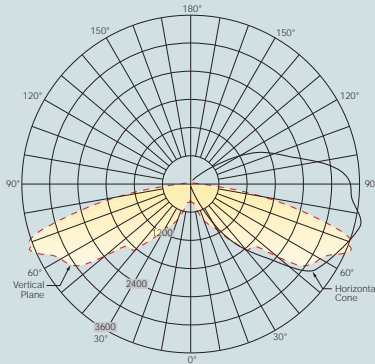
¹Suitable for wet locations

Kim Lighting reserves the right to change specifications without notice.

Photometry

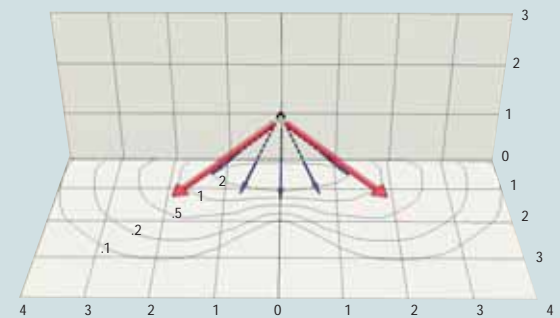
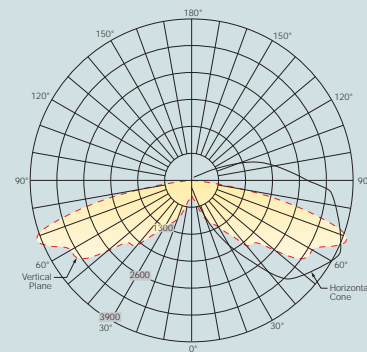
WD18E2/L5K	
Report Number	KL02049
Light Dist.Type	Type 1I
Mounting Height	18 Feet
Lamp	120 LED
Temperature	5100K
Total Flux	5916
System Watts	140

Max. Candela Plot
3721 Candela at 67.5° Vertical. 75.0° Horizontal



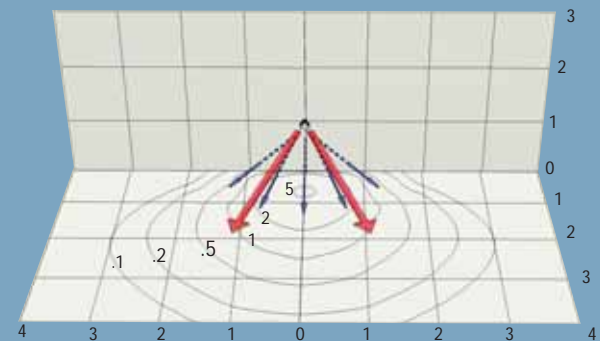
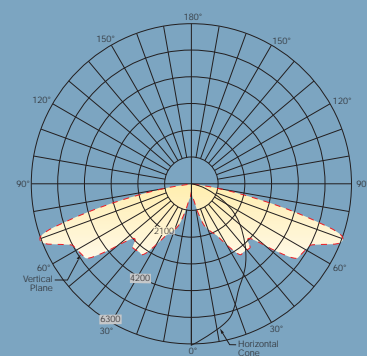
WD18E3/L5K	
Report Number	KL02050
Light Dist.Type	Type 1II
Mounting Height	18 Feet
Lamp	120 LED
Temperature	5100K
Total Flux	6241
System Watts	140

Max. Candela Plot
3972 Candela at 67.5° Vertical. 65.0° Horizontal



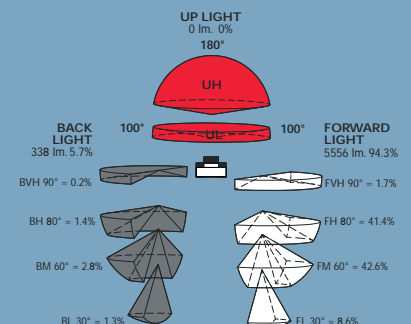
WD18E4/L5K	
Report Number	KL02051
Light Dist.Type	Type 1V
Mounting Height	18 Feet
Lamp	120 LED
Temperature	5100K
Total Flux	5894
System Watts	140

Max. Candela Plot
6344 Candela at 70.0° Vertical. 0° Horizontal



Dark-Sky Compliance

The Wall Director LED standard luminaires in the down position meet requirements for applications where light pollution may be a concern. When no tilt option is applied, the Wall Director LED's standard optical system and flat lens produces zero light above 90°.



Wall Director® LED

When properly installed and under normal conditions of use, Kim Lighting warrants Wall Director LED products ("Product(s)") sold by Kim Lighting to be free from defects in material and workmanship for (i) a period of five (5) years for metal parts, (ii) a period of ten (10) years for exterior housing paint finish(s), (iii) a period of six (6) years for LED Light Engines (MicroEmitters) and, (iv) a period of five (5) years for LED power components (LED Driver, LifeShield® Device, Surge Protector), from the date of sale of such goods to the buyer as specified in Kim Lighting shipment documents for each Product(s). Occupancy sensors, LED drivers, dimmers and relay wiring components are covered by the manufacturer's warranty. The buyer agrees to make all claims regarding defects or deficiencies in the Product(s) according to the terms of Kim Lighting's official warranty. Warranty claims must be made in writing according to Kim Lighting procedures existing at the time of the claim. Valid warranty claims must be made within the warranty period specified herein above, and submitted within thirty (30) days of discovery of the damage or defect. No FIELD labor, repair, DISMANTLE, or installation charges are included with this warranty. Kim Lighting may repair or replace any Product(s) covered by this warranty at its sole discretion and in accordance with its procedure. Any unauthorized return, repair, replacement or modification of the Product(s) shall avoid this warranty. This warranty applies only to the use of the Product(s) as intended by Kim Lighting and does not cover any misapplication or misuse of said Product(s), or installation in hazardous or corrosive environments. In no event shall Kim Lighting's total liability for any reason arising hereunder exceed the purchase price paid to Kim Lighting for the product purchased by the buyer hereunder. Contact Kim Lighting for complete warranty language, exceptions, and limitations.

Additional Kim Lighting Premium LED Families



HID to LED
UPGRADE KIT



MicroEmitter™ LED Technology
COMPREHENSIVE CATALOG



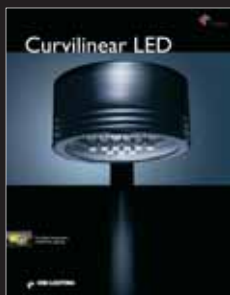
WARP9® LED
SITE / ROADWAY



Era® LED
SITE / ROADWAY



Era® Bell/Era® Acorn LED
SITE / ROADWAY



Curvilinear LED
SITE / ROADWAY



The Archetype® LED
SITE / ROADWAY



Structural LED
SITE / ROADWAY



PGL7 LED
PARKING STRUCTURE



All Inclusive LED
LANDSCAPE COLLECTION