Reset Form

KIM LIGHTING

WP9LE-LED

WARP9™- Large, Electronic LED

revision 7/19/11 • kim_wp9leled_spec.pdf

Type:
Job:
Catalog number:

/ / / /

Mtg. Fixture — Electrical Module (See page 2) — Finish — Options (See pages 3-4)

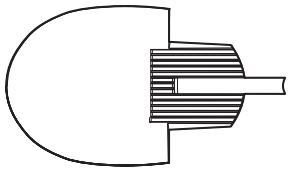
Select pole from Kim's Arms and Poles Selection Guide. If pole is provided by others indicate O.D. for arm fitting.

Approvals:

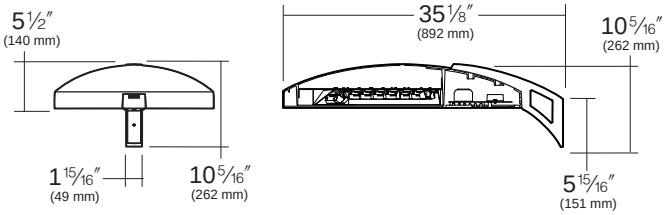
Date:
Page: 1 of 5

Specifications

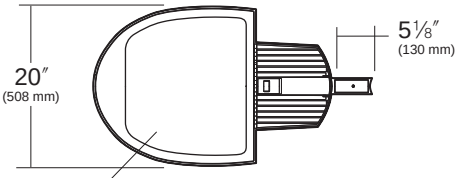
WP9LE-LED
Large Electronic
120 Light Emitting Diodes
Total Max System Watts = 140W
Maximum weight = 50 lbs.



TOP



FRONT SIDE



BOTTOM

Lens shall be clear glass

Listings and Ratings			
UL cUL 1598[1]	CE	IP66 Rated	25˚C Ambient

[1]Suitable for wet locations.

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

HUBBELL LIGHTING, INC.

U.S. Patent D568,521,
Patent Pending Optics

Housing: One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral cooling ribs over the electrical compartment. Solid barrier wall separates optical and electrical compartments. A single die-cast aluminum cam-latch provides positive locking and sealing of the optical chamber. A one-piece extruded and vulcanized silicone gasket seals the housing against the lens surface.

Lens: Clear 3⁄16″ thick tempered glass lens retained by a stainless steel piano hinge and a single die-cast aluminum cam-latch. The edges are camouflaged to conceal the outer portion of the housing.

Electronic Module: All electrical components are UL and CSA recognized, mounted on a single plate and factory prewired with quick-disconnect plugs. Module includes a driver, thermal control device and surge protector. Electrical module attaches to housing with no-tool hinges and latches, accessible by opening the lens frame only. Driver is rated for -40°F starting and has a 0-10V dimming interface for multi-level illumination options.

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.

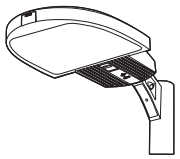
Dimming: The WARP9 LED luminiaire can be dimmed from 0% to 100% by the use of its standard 0-10v Interface driver. To activate the dimming system, a wiring harness is supplied and attached to the DIM Port (DIM IN) on the LifeShield Protection System. This port allows the 0-10v Interface to bypass the LifeShield and control the driver. The LifeShield works in conjunction with the control system to assure that overheating will not harm the LEDs. The wiring harness is connected with the use of the Purple lead as the positive (+) and the Grey lead as the negative (-) to an available control signal (by others).

Support Arm: Heavy cast, low copper aluminum alloy with stainless steel mounting bolts. A pole reinforcing plate is provided with wire strain relief. Arm is circular cut for specified round pole.

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, Stealth Gray™, Platinum Silver, or White. Custom colors are available.

Warranty: Kim Lighting warrants Warp9 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.

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.



Standard Features

Mounting

3Y configuration is available for round poles only.

Plan View: Wall Mount

EPA:	0.95	1.9	1.47	2.4	2.4	2.7	n/a
Cat. No.:	☐ **1SA**	☐ **2SB**	☐ **2SL**	☐ **3ST**	☐ **3SY**	☐ **4SC**	☐ **1SW**

Fixture

Cat. No. designates fixture and light distribution.

WP9 L E x

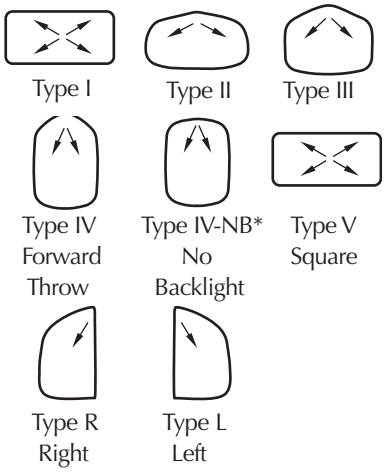
Housing:
WP9=WARP9

Size:
L=Large, 120 LEDs, 140W

Driver:
E=Electronic

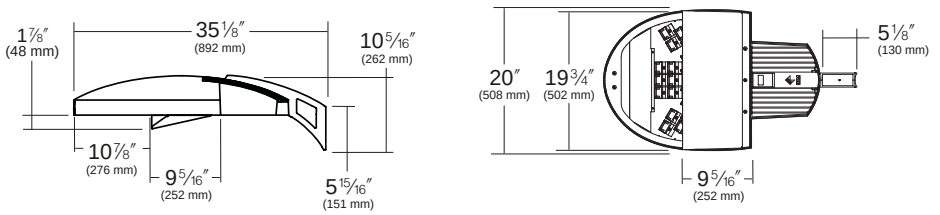
Distribution:
- ☐ 1=Type I Full Cutoff
- ☐ 2=Type II Full Cutoff
- ☐ 3=Type III Full Cutoff
- ☐ 4=Type IV Full Cutoff
- ☐ 4NB=Type IV-No Backlight
- ☐ 5=Type V Square Full Cutoff
- ☐ R=Type R Right Full Cutoff
- ☐ L=Type L Left Full Cutoff

Light Distribution:



NOTE: WARP9 LED system employs Nichia's SSL product.
Part number: NS6x183 (NS6L183-H3,NS6W183-H3)

* Type IV-NB No Backlight - Dimension



Electrical Module

120L xK x

Source:
120L = 120 LED's

Color Temperature:[1]
- ☐ 3K=3500K
- ☐ 5K=5100K
- ☐ 2K = 580nm - Amber

[1]4300K and 6500K are also available on an "Engineered-to-Order" (ETO) basis.

Voltage:
- ☐ 120=120V
- ☐ 208=208V
- ☐ 240=240V
- ☐ 277=277V
- ☐ 347=347V
- ☐ 480=480V

Fixture	Total System Watts	Volt	Operating Amps
WP9-Large	140	120	1.17
WP9-Large	140	208	0.67
WP9-Large	140	240	0.58
WP9-Large	140	277	0.51
WP9-Large	140	347	0.40
WP9-Large	140	480	0.29

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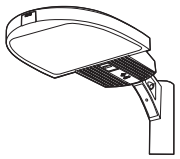


Optional Features

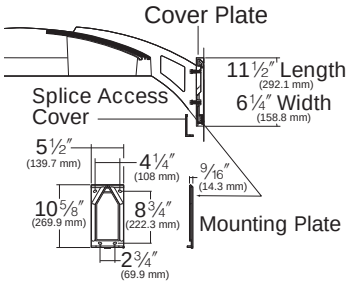
Finish
Super TGIC powder coat paint over a titanated zirconium conversion coating.

Color: Black ☐ **BL** Dark Bronze ☐ **DB** Stealth Gray™ ☐ **SG** Platinum Silver ☐ **PS** White ☐ **WH** Custom Color² ☐ **CC**

²Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: _____

Wall Mounting
Cat. No. **1W**
Select from Mounting on page **2**.

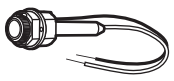
A cast aluminum mounting plate is mounted to the wall with four bolts (by others). Fixture and arm are mounted to the cast aluminum cover plate before attaching to the wall mounting plate. The fixture-arm-cover plate assembly is hooked to the wall mounting plate and secured with stainless steel screws provided. Field splices are made at the opening in the cover plate. Cover is finished to match arm and fixture color.



Fusing (internal only):
Cat. No. **(see chart at right)**
☐ **No Option**

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

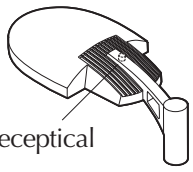
Line Volts: 120V 208V 240V 277V 347V 480V
Cat. No.: ☐ **SF** ☐ **DF** ☐ **DF** ☐ **SF** ☐ **SF** ☐ **DF**

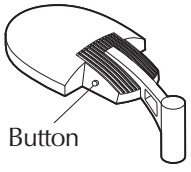

Single Fuse

Photocell Controls
Cat. Nos. *receptacle*
☐ **A-25**

Button	*Line Volts*
☐ **A-30**	120V
☐ **A-31**	208V
☐ **A-32**	240V
☐ **A-33**	277V
☐ **A-35**	347V
☐ **A-34**	480V
☐ **No Option**	

Two types of photocell controls are available. A receptacle for a NEMA base photocell or an internal photocell button sensor on the side of the fixture.

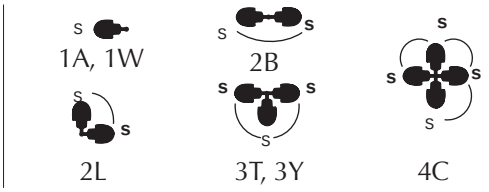

Receptical


Button

Mounting (see page **2**)

S – Fixture with Photocell Receptacle

S – slave unit(s)



Polycarbonate Lens
Cat. No. ☐ **LS**
☐ **No Option**

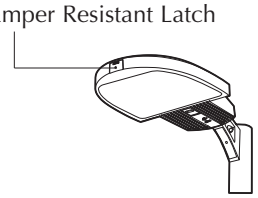
One-piece flat polycarbonate lens replaces standard tempered glass lens.

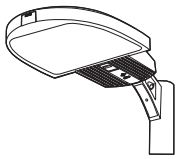
CAUTION: Use only when vandalism is anticipated to be high. For LED use only.

Tamper-Resistant Latch
Cat. No. ☐ **TL**
☐ **No Option**

Standard die-cast latch is provided with a captive 10-32 stainless steel flat socket-head screw to prevent unauthorized opening.

NOTE: Required only for vandal protection in locations where fixtures can be reached by unauthorized persons.

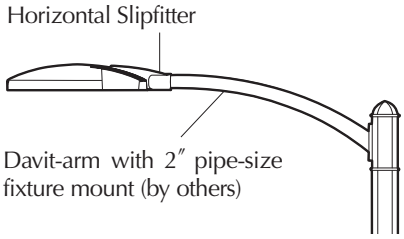




Optional Features

Horizontal Slipfitter Mount
Cat. No. ☐ **HSF**
☐ **No Option**

Replaces standard mounting arm with a cast aluminum fitter to adapt to a horizontal 2″ pipe-size mounting end (2⅜″ OD). The casting has a 5° adjustment to accommodate davit arms that are not horizontal. Horizontal pipe must be field drilled at one set screw location to insure against fixture rotation Finish to match fixture color.



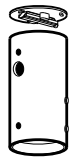
Vertical Slipfitter Mounts
Cat. No. includes Mounting
Cat. No. **(See right)**
☐ **No Option**

Allows fixture or fixtues with standard mounting arm to mount to a pole with a 2″ pipe-size tenon (2⅜″ OD). Minimum 4″ tenon length required.

Specify configuration (1SA, 2SB, 2SL, 3ST, 3SY, 4SC) 4″ round or square aluminum with flush cap. Finish to match fixture and arm.

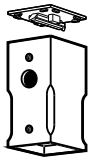
NOTE: 3Y only available on round slipfitter.

Cat. No.
☐ **VSF-1SA**
☐ **VSF-2SB**
☐ **VSF-2SL**
☐ **VSF-3ST**
☐ **VSF-3SY**
☐ **VSF-4SC**



Round

Stainless steel set screws



Square

Cat. No.
☐ **SVSF-1SA**
☐ **SVSF-2SB**
☐ **SVSF-2SL**
☐ **SVSF-3ST**
☐ **SVSF-4SC**

Mounting Configuration
1SA -single arm mount
2SB -2 at 180°
2SL - 2 at 90°
3ST - 3 at 90°
3SY -3 at 120°
4SC - 4 at 90°

Special Options for Street Lighting
Cat. No. ☐ **TB**
☐ **No Option**

Terminal Block (TB): For field wire connections in the Large model only. 85AMP, 600V box clamp terminal block mounted to the housing inside the electrical compartment. Accepts #14 to #4 wire sizes. Factory prewired to electrical module quick-disconnect plug.

Dimming Controls

Kim Lighting is working with several driver suppliers and control system manufacturers to develop a variety of proven turnkey solutions to meet any application's need. Kim Lighting will advise availability of complete control packages, and even two-way monitoring systems, once they have been tested and exceed Kim's high quality standards. Contact factory for further details and current capabilities.

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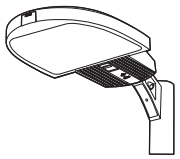
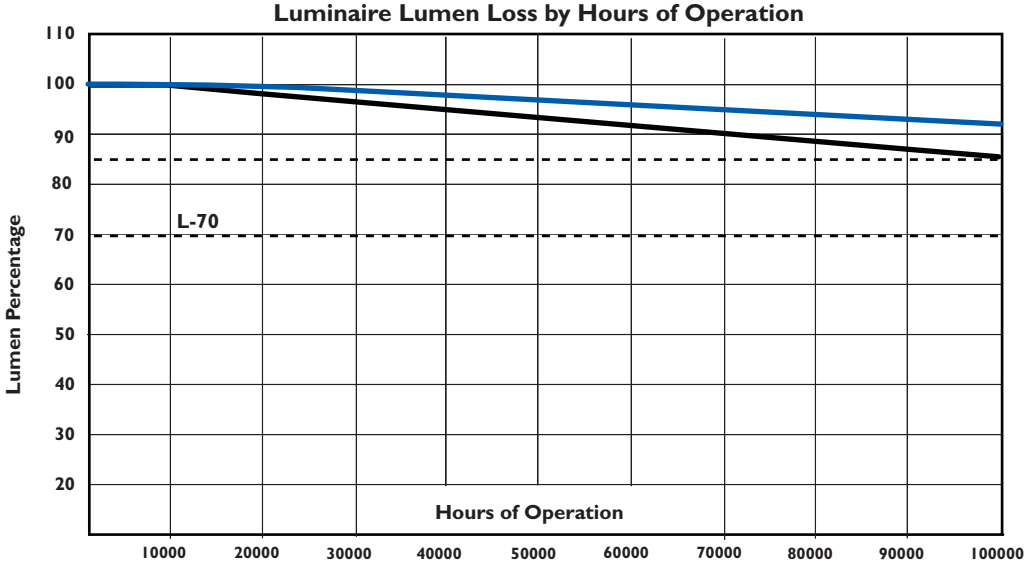


Lumen Performance Charts

NOTES:

1. Lumen loss stablization is a result of Kim Lighting's MicroEmitter™ luminaires exclusive LifeShield™ Protection System and Dual Heat Management.
2. 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.
3. 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/77°F tab ambient and cathode temperature at 85°C/185°F. Assumptions past 6,000 hours are interpolated.
4. Cathode temperature baseline is at 85°C/185°F. If cathode temperature increases during ambient changes and abnormal environment conditions, % of rated lumens will slightly decrease.
5. Outdoor ambient temperatures are assumed SITU average by geographic region.
6. As Solid State Lighting technology and thermal management systems continually advance, lumen loss projections are subject to improvement.

Luminaire Lumen Loss by Hours of Operation



Outdoor Temperature at 10°C/50°F. Temperature is based on continual average, annual assumptions.

Outdoor Temperature at 40°C/104°F. Temperature is based on continual average, annual assumptions.

Luminaire Output at Outdoor Ambient Temperatures