

Type:
Job:
Catalog number:

/	/	/	/	/	
Mtg.	Fixture	Electrical Module	Finish	Options	Optional
See page 2				See pages 3-4	

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

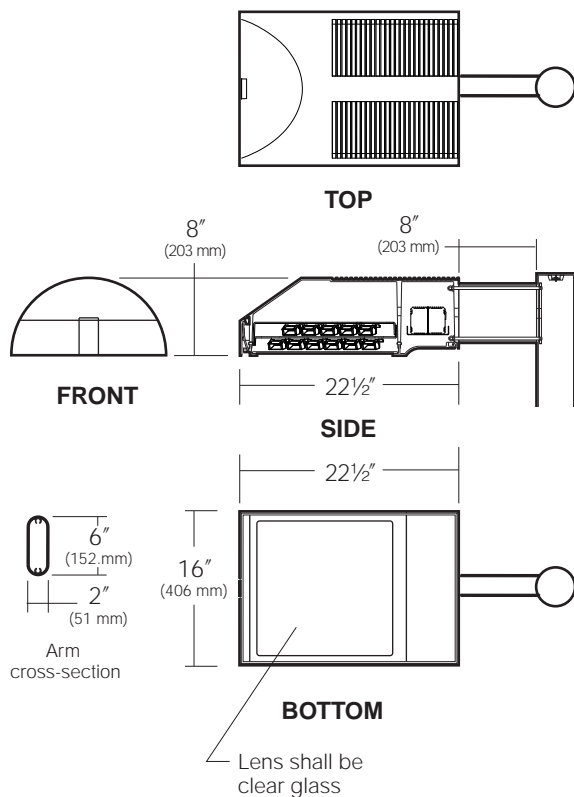
Approvals:

Date:
Page: 1 of 5

Specifications

AR-LED

120 Light Emitting Diodes
Total Max System Watts = 140W
Maximum Weight = 50 lbs.



Housing: One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral cooling ribs over the optical chamber and electrical compartment. Solid barrier wall separates optical and electrical compartments. Double-thick wall with gussets on the support-arm mounting end. Housing forms a half cylinder with 55° front face plane providing a recess to allow a flush single-latch detail. All hardware is stainless steel or electro-zinc plated steel.

Lens Frame: One-piece die-cast, low copper (<0.6% Cu) aluminum alloy lens frame with 1" minimum depth around the gasket flange. Integral hinges with stainless steel pins provide no-tool mounting and removal from housing. Single die-cast aluminum cam-latch provides positive locking and sealing of the optical chamber by a one-piece extruded and vulcanized silicone gasket. Clear 3/16" thick tempered glass lens retained by eight steel clips with full silicone gasketing around the perimeter.

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.

Support Arm: One-piece extruded aluminum with internal bolt guides and fully radiussed top and bottom. Luminaire-to-pole attachment is by internal draw bolts, and includes a pole reinforcing plate with wire strain relief. Arm is circular cut for specified round pole.

Optional Wall Mounting: Fixture mounted to poured concrete walls only. A modified support arm is provided with side access to allow field splices within the arm. A wall embedment bracket is provided to accept draw bolts, and a trim plate covers the wall-embedded junction box. All wall mount components are finished to match the fixture.

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.

Warranty: Kim Lighting warrants The Archetype 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.

Listings and Ratings

ETL to UL 1598 ¹ Standards	CE	25°C Ambient
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¹Suitable for wet locations.

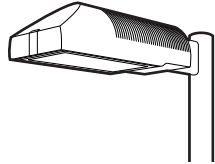
KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.



Patent Pending

Type:

Job:



Standard Features

Mounting

3Y configuration is available for round poles only.

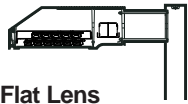
Plan View:



EPA: 1.2 2.4 2.0 3.2 3.2 3.9 n/a
 Cat. No.: 1A 2B 2L 3T 3Y 4C 1W

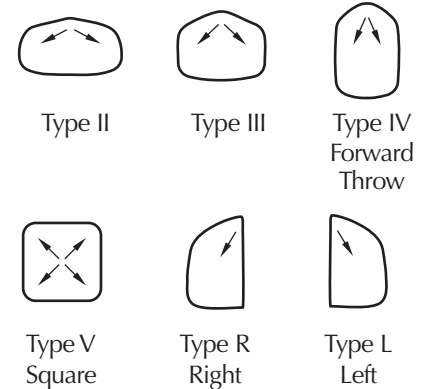
Fixture

Cat. No. designates fixture and optic



- Housing Size:**
AR
- Distribution:**
- 2 = Type II Full Cutoff
 - 3 = Type III Full Cutoff
 - 4 = Type IV Full Cutoff
 - 5 = Type V Square Full Cutoff
 - L = Type L Left Full Cutoff
 - R = Type R Right Full Cutoff

Light Distribution:



Electrical Module

Cat. Nos. for Electrical Modules available:

- 120 LxK x
- Source:**
120 = 120 LED's
- Color Temperature:¹**
- L3K = 3500K
 - L5K = 5100K
 - L2K = 580nm - Amber
- Voltage:**
- 120 = 120V
 - 208 = 208V
 - 240 = 240V
 - 277 = 277V
 - 347 = 347V
 - 480 = 480V

¹4300K and 6500K are also available on an "Engineered-to-Order" (ETO) basis.

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

Finish

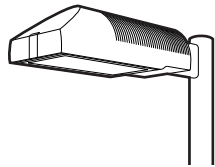
Super TGIC powder coat paint over a titanated zirconium conversion coating.

Color: Black Dark Bronze Light Gray Stealth Gray™ Platinum Silver White Custom Color¹
 Cat. No.: BL DB LG SG PS WH CC

¹Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: _____

Type:

Job:



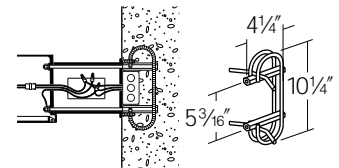
Optional Features

Wall Mounting

Cat. No. **1W**
 No Option

Select from Mounting on page 2.

Fixture mounted to poured concrete walls only. A modified support arm is provided with side access to allow field splices within the arm. A wall embedment bracket (**WEB**) is provided to accept draw bolts, and a trim plate covers the wall-embedded junction box. All wall mount components are finished to match the fixture.

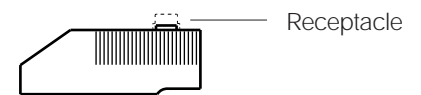


Wall mount using wall embedment bracket - J-box in wall (by others)

Photocell Receptacle

Cat. No. **A-25**
 No Option

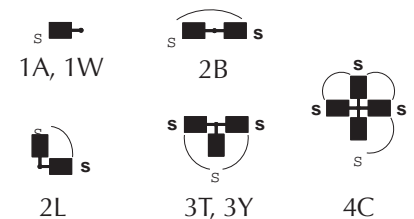
Fixture supplied with a fully gasketed receptacle above the electrical compartment for NEMA base photocell (by others). For all multiple-fixture pole mountings with two or three fixtures, one fixture has a receptacle to operate the others.



Receptacle

Mounting (see page 2)

S – Fixture with Photocell Receptacle
 S – slave unit(s)



Allowable wattage per fixture:

140W

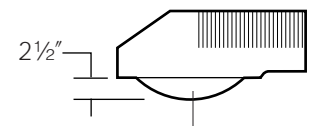
Dimming Controls

The Archetype LED driver is a 0-10V dimming interface, allowing 0-100% illumination output when synchronized with a control and dimming system, provided by others. Kim Lighting is working with several 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.

Convex Glass Lens

Cat. No. **CGL**
 No Option

The 3/16" thick clear convex tempered glass lens replaces the standard flat glass lens. Provides increased lens presence and provides a subtle improvement in uniformity where pole spacing is extreme. Increases effectiveness of houseside shielding.



Convex Glass Lens

Polycarbonate Lens

Cat. No. **LS**
 No Option

Fixture supplied with a one-piece flat, clear, UV stabilized polycarbonate, fully gasketed, replacing the standard tempered glass lens.

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

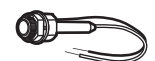


Flat Lens

Fusing

Cat. No. (see right)
 No Option

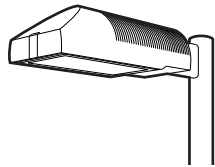
Line Volts: 120V 208V 240V 277V 347V 480V
 Cat. No.: **SF** **DF** **DF** **SF** **SF** **DF**



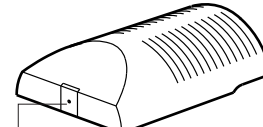
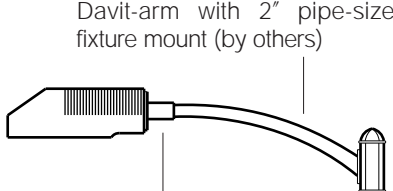
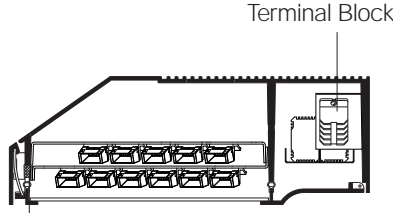
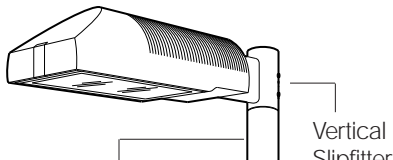

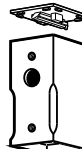

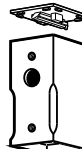

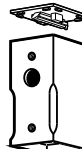
Single Fuse

Type:

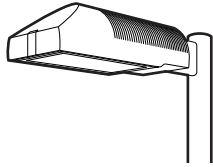
Job:



Optional Features

<p>Tamper-Resistant Latch Cat. No. <input type="checkbox"/> TL <input type="checkbox"/> No Option</p>	<p>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.</p>	 Tamper-Resistant Latch												
<p>Horizontal Slipfitter Mount Cat. No. <input type="checkbox"/> HSF <input type="checkbox"/> No Option</p>	<p>Replaces standard mounting arm with a slipfitter which allows fixture to be mounted to a horizontal pole davit-arm with 2" pipe-size mounting end (2 3/8" O.D.). Cast aluminum slipfitter with set screw for an up or down 5° adjustment lock. Bolts to housing from inside the electrical compartment using mounting holes for the standard support arm. Davit-arm must be field drilled at a set screw location to insure against fixture rotation. Finished to match fixture.</p>	 Davit-arm with 2" pipe-size fixture mount (by others) Horizontal Slipfitter Mount by Kim												
<p>Special Options for Street Lighting Cat. No. (See right)</p>	<p>Terminal Block: (For field wire connections.) 85AMP, 600V box clamp terminal block mounted to the housing inside the electrical compartment. Accepts #14-4 wire. Factory prewired to electrical module quick-disconnect plug. <input type="checkbox"/> TB <input type="checkbox"/> No Option</p> <p>Air Filter: Allows for ventilation through the optical chamber, filtering all air particles above 500 microns. Mounted on solid wall between optical compartment and latch cavity. <input type="checkbox"/> AF <input type="checkbox"/> No Option</p>	 Terminal Block Air Filter												
<p>Vertical Slipfitter Mounts Cat. No. includes Mounting Cat. No. (See right) <input type="checkbox"/> No Option</p>	<p>Allows fixture with standard support arm to be mounted to poles having a 2" pipe-size tenon (2 3/8" O.D. x 4 1/2" min. length). All mounting configurations can be used (1A, 2B, 2L, 3T, 3Y, 4C). 4" square or round die-cast aluminum with flush cap, secured by four 3/8" stainless steel set point allen screws, finished to match fixture and arm. NOTE: 3Y only available on round slipfitter.</p>	 Pole with 2" pipe-size tenon (by others) Vertical Slipfitter Mount by Kim												
<table border="0"> <tr> <td data-bbox="487 1764 633 1953"> Cat. No. <input type="checkbox"/> VSF-1A <input type="checkbox"/> VSF-2B <input type="checkbox"/> VSF-2L <input type="checkbox"/> VSF-3T <input type="checkbox"/> VSF-3Y <input type="checkbox"/> VSF-4C </td> <td data-bbox="649 1764 714 1911">  </td> <td data-bbox="730 1806 909 1911"> Stainless steel set screws </td> <td data-bbox="925 1764 1006 1911">  </td> <td data-bbox="1039 1764 1185 1953"> Cat. No. <input type="checkbox"/> SVSF-1A <input type="checkbox"/> SVSF-2B <input type="checkbox"/> SVSF-2L <input type="checkbox"/> SVSF-3T <input type="checkbox"/> SVSF-4C </td> <td data-bbox="1250 1764 1526 1953"> Mounting Configuration 1A - single arm mount 2B - 2 at 180° 2L - 2 at 90° 3T - 3 at 90° 3Y - 3 at 120° 4C - 4 at 90° </td> </tr> <tr> <td></td> <td data-bbox="649 1932 714 1953">Round</td> <td></td> <td data-bbox="925 1932 1006 1953">Square</td> <td></td> <td></td> </tr> </table>			Cat. No. <input type="checkbox"/> VSF-1A <input type="checkbox"/> VSF-2B <input type="checkbox"/> VSF-2L <input type="checkbox"/> VSF-3T <input type="checkbox"/> VSF-3Y <input type="checkbox"/> VSF-4C		Stainless steel set screws		Cat. No. <input type="checkbox"/> SVSF-1A <input type="checkbox"/> SVSF-2B <input type="checkbox"/> SVSF-2L <input type="checkbox"/> SVSF-3T <input type="checkbox"/> SVSF-4C	Mounting Configuration 1A - single arm mount 2B - 2 at 180° 2L - 2 at 90° 3T - 3 at 90° 3Y - 3 at 120° 4C - 4 at 90°		Round		Square		
Cat. No. <input type="checkbox"/> VSF-1A <input type="checkbox"/> VSF-2B <input type="checkbox"/> VSF-2L <input type="checkbox"/> VSF-3T <input type="checkbox"/> VSF-3Y <input type="checkbox"/> VSF-4C		Stainless steel set screws		Cat. No. <input type="checkbox"/> SVSF-1A <input type="checkbox"/> SVSF-2B <input type="checkbox"/> SVSF-2L <input type="checkbox"/> SVSF-3T <input type="checkbox"/> SVSF-4C	Mounting Configuration 1A - single arm mount 2B - 2 at 180° 2L - 2 at 90° 3T - 3 at 90° 3Y - 3 at 120° 4C - 4 at 90°									
	Round		Square											

Type:
 Job:



Lumen Performance Charts

NOTES:

1. Lumen loss stabilization 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.

