

Type:
Job:
Catalog number:

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

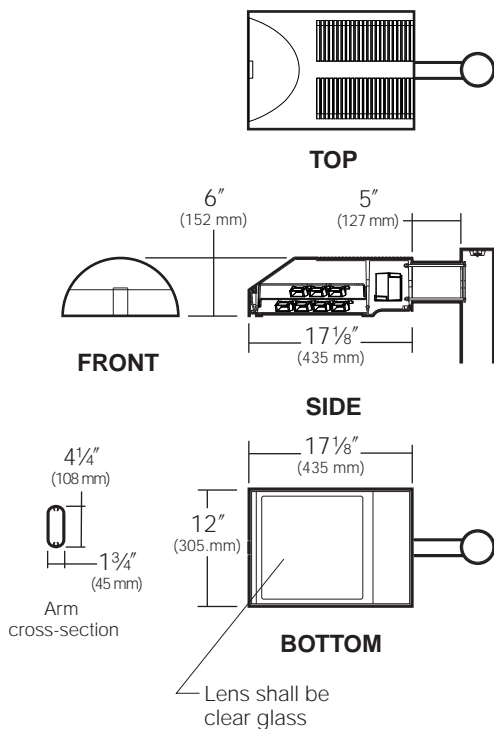
Select pole from Kim Arms and Poles Selection Guide. If pole is provided by others indicate O.D. for arm fitting.

Approvals:

Date:
Page: 1 of 5

Specifications

SAR-LED
60 Light Emitting Diodes
Total System Watts = 73W
Maximum Weight = 30 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 radiused 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

¹Suitable for wet locations.

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.




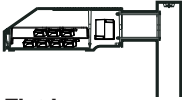
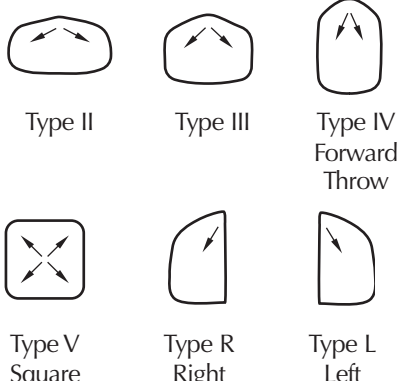
Patent Pending

Type:

Job:

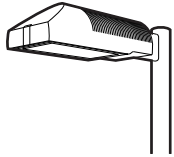


Standard Features

<p>Mounting 3SY configuration is available for round poles only.</p> <p>Flat Lens</p>	<p>Plan View:</p>  <p>EPA: 0.7 1.4 1.2 1.9 1.9 2.5</p> <p>Cat. No.: <input type="checkbox"/> 1SA <input type="checkbox"/> 2SB <input type="checkbox"/> 2SL <input type="checkbox"/> 3ST <input type="checkbox"/> 3SY <input type="checkbox"/> 4SC <input type="checkbox"/> 1W</p>																												
<p>Fixture Cat. No. designates fixture and optic</p>  <p>Flat Lens</p>	<p>SAR x</p> <p>Housing Size: SAR</p> <p>Light Distribution:</p>  <p>Distribution:</p> <p><input type="checkbox"/> 2 = Type II Full Cutoff</p> <p><input type="checkbox"/> 3 = Type III Full Cutoff</p> <p><input type="checkbox"/> 4 = Type IV Full Cutoff</p> <p><input type="checkbox"/> 5 = Type V Square Full Cutoff</p> <p><input type="checkbox"/> L = Type L Left Full Cutoff</p> <p><input type="checkbox"/> R = Type R Right Full Cutoff</p>																												
<p>Electrical Module</p>	<p>Cat. Nos. for Electrical Modules available:</p> <p>60 LxK x</p> <p>Source: 60 = 60 LED's</p> <p>Color Temperature:¹</p> <p><input type="checkbox"/> L3K = 3500K</p> <p><input type="checkbox"/> L5K = 5100K</p> <p><input type="checkbox"/> L2K = 580nm - Amber</p> <p>Voltage:</p> <p><input type="checkbox"/> 120 = 120V</p> <p><input type="checkbox"/> 208 = 208V</p> <p><input type="checkbox"/> 240 = 240V</p> <p><input type="checkbox"/> 277 = 277V</p> <p><input type="checkbox"/> 347 = 347V²</p> <p><input type="checkbox"/> 480 = 480V²</p> <p>¹4300K and 6500K are also available on an "Engineered-to-Order" (ETO) basis.</p> <p>²Due to current unavailability of 347V and 480V drivers, specification of these voltages may feature an integral step-down transformer.</p> <table border="1" data-bbox="500 1602 1518 1791"> <thead> <tr> <th>Fixture</th> <th>Total System Watts</th> <th>Volt</th> <th>Operating Amps</th> </tr> </thead> <tbody> <tr> <td>SAR-Small</td> <td>73</td> <td>120</td> <td>0.61</td> </tr> <tr> <td>SAR-Small</td> <td>73</td> <td>208</td> <td>0.35</td> </tr> <tr> <td>SAR-Small</td> <td>73</td> <td>240</td> <td>0.30</td> </tr> <tr> <td>SAR-Small</td> <td>73</td> <td>277</td> <td>0.26</td> </tr> <tr> <td>SAR-Small</td> <td>73</td> <td>347</td> <td>0.21</td> </tr> <tr> <td>SAR-Small</td> <td>73</td> <td>480</td> <td>0.15</td> </tr> </tbody> </table>	Fixture	Total System Watts	Volt	Operating Amps	SAR-Small	73	120	0.61	SAR-Small	73	208	0.35	SAR-Small	73	240	0.30	SAR-Small	73	277	0.26	SAR-Small	73	347	0.21	SAR-Small	73	480	0.15
Fixture	Total System Watts	Volt	Operating Amps																										
SAR-Small	73	120	0.61																										
SAR-Small	73	208	0.35																										
SAR-Small	73	240	0.30																										
SAR-Small	73	277	0.26																										
SAR-Small	73	347	0.21																										
SAR-Small	73	480	0.15																										
<p>Finish Super TGIC powder coat paint over a titanated zirconium conversion coating.</p>	<p>Color: Black Dark Bronze Light Gray Stealth Gray® Platinum Silver White Custom Color¹</p> <p>Cat. No.: <input type="checkbox"/> BL <input type="checkbox"/> DB <input type="checkbox"/> LG <input type="checkbox"/> SG <input type="checkbox"/> PS <input type="checkbox"/> WH <input type="checkbox"/> CC</p> <p>¹Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: _____</p>																												

Type:

Job:



Optional Features

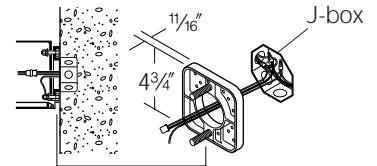
Wall Mounting

- Cat. No. 1W
 No Option

Select from Mounting on page 2.

Fixture mounts to 3" or 4" junction boxes by a cast aluminum adapter plate with fixture mounting bolts.

NOTE: Junction box in wall must provide adequate fixture support. See NEC sections 370-13, 17 and 410-14, 16. Quick-disconnect plug and wiring are provided to allow field connections prior to fixture mounting.



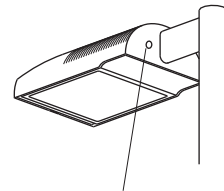
Wall mount using adapter plate 3" or 4" J-box in wall (by others)

Photocell Control

- Cat. No. (See right)
 No Option

Fixture supplied with an internal photocell with the sensor on the fixture end facing the pole. For multiple-fixture pole mountings, one fixture has a photocell to operate the others. Not available if wall mounted (1W).

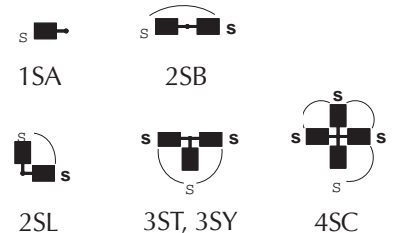
- | | |
|-------------------------------|-------------|
| Cat. No. | Line Volts: |
| <input type="checkbox"/> A-30 | 120V |
| <input type="checkbox"/> A-31 | 208V |
| <input type="checkbox"/> A-32 | 240V |
| <input type="checkbox"/> A-33 | 277V |
| <input type="checkbox"/> A-35 | 347V |
| <input type="checkbox"/> A-34 | 480V |



Photocell Sensor

Mounting Configuration:

S – Fixture with Photocell Sensor
 S – slave unit(s)
 No fixture wattage limit.



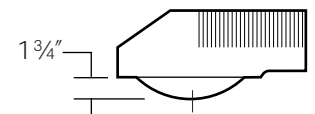
Dimming Controls

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.



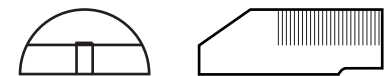
Convex Glass Lens

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.



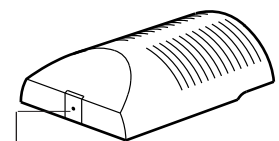
Flat Lens

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.

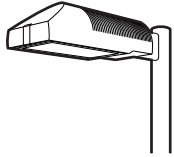
NOTE: Required only for vandal protection in locations where fixtures can be reached by unauthorized persons.



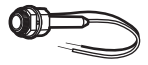
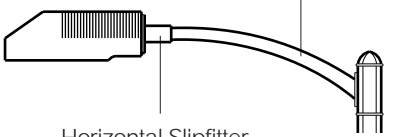
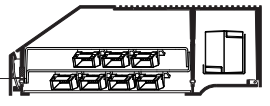
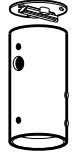
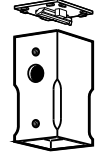
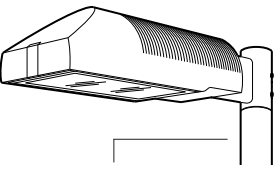
Tamper-Resistant Latch

Type:

Job:



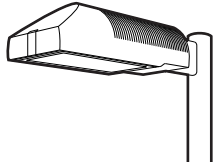
Optional Features

<p>Fusing Cat. No. (see right) <input type="checkbox"/> No Option</p>	<p>Line Volts: 120V 208V 240V 277V 347V 480V Cat. No.: <input type="checkbox"/> SF <input type="checkbox"/> DF <input type="checkbox"/> DF <input type="checkbox"/> SF <input type="checkbox"/> SF <input type="checkbox"/> DF</p>	 Single Fuse
<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 and arm.</p>	<p>Davit-arm with 2" pipe-size fixture mount (by others)</p>  Horizontal Slipfitter Mount by Kim
<p>Special Options for Street Lighting Cat. No. <input type="checkbox"/> AF <input type="checkbox"/> No Option</p>	<p>Air Filter (AF): Allows for ventilation through the optical chamber, filtering all air particles above 500 microns. Assembly mounted on solid wall between optical compartment and latch cavity.</p>	 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 (1SA, 2SB, 2SL, 3ST, 3SY, 4SC). 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.</p> <p>NOTE: 3SY only available on round slipfitter.</p> <p>Cat. No. <input type="checkbox"/> VSF-1SA <input type="checkbox"/> VSF-2SB <input type="checkbox"/> VSF-2SL <input type="checkbox"/> VSF-3ST <input type="checkbox"/> VSF-3SY <input type="checkbox"/> VSF-4SC</p>  Round <p>Stainless steel set screws</p>  Square <p>Cat. No. <input type="checkbox"/> SVSF-1SA <input type="checkbox"/> SVSF-2SB <input type="checkbox"/> SVSF-2SL <input type="checkbox"/> SVSF-3ST <input type="checkbox"/> SVSF-4SC</p> <p>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°</p>	 Pole with 2" pipe-size tenon (by others) Vertical Slipfitter Mount by Kim

Type:

Job:

Page: 5 of 5



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.

