

Type:
Job:
Catalog number:

Approvals:

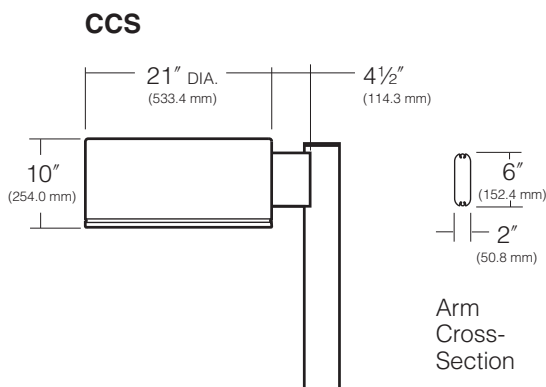
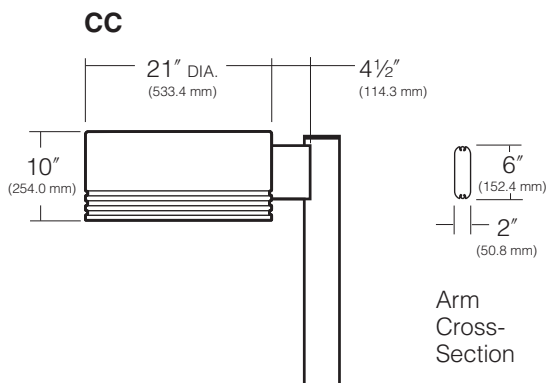
____ / ____ / ____ / ____
 Mtg. Fixture Electrical Module Finish Options
 See page 2 See page 2 See pages 3-4

Date:
Page: 1 of 5

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

Specifications

21" Diameter
 120 Light Emitting Diodes
 Total Max System Watts = 140W



Housing: Spun aluminum. (Rollformed linear reveals; **CC:** Three equally spaced reveals, 1/2" wide, separated by 1/2" ribs, 1/4" deep. **CCS:** One 1/4" groove, 1/4" deep.) Sidewalls have a maximum 1° of taper, and are free of welds or fasteners. A rollformed aluminum flange is hemmed into the bottom providing support for the reflector module. An internal aluminum casting provides for mounting of the electrical module plus reinforcing for side-arm mounting of the fixture.

Lens Frame Assembly: One-piece cast aluminum lens frame is attached to the housing by a zinc plated cold rolled steel hinge with a stainless steel pin. Closure is by three self-retained stainless steel screws. A stainless steel self-locking stop arm is provided to hold the lens frame in the open position while servicing. A 3/16" thick clear flat tempered glass lens is fully gasketed by a one-piece extruded and vulcanized silicone gasket. Lens is retained in the frame by removable zinc plated steel clips.

Standard Arm Mounting: Arm is 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 to mate with specified round pole.

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, LifeShield™ temperature control device and surge protector. Electrical module attaches to housing with key hole slots, accessible by opening the lens frame and removing optical module. Driver is rated for -40°F starting and has a 0-10V dimming interface for multi-level illumination options.

Optical Module: Precision, replaceable MicroEmitter™ reflectors are positioned to achieve directional control toward desired task. The entire EmitterDeck™ mounting assembly fastens to the housing as a one-piece module.

Finish/Color: TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray™, Platinum Silver, or White. Custom colors are available.

Warranty: Kim Lighting warrants Curvilinear 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 temperature control 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

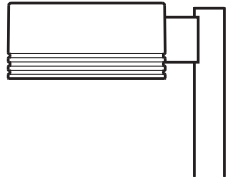
ETL ¹	UL 1598, UL 8750
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¹Suitable for wet locations.


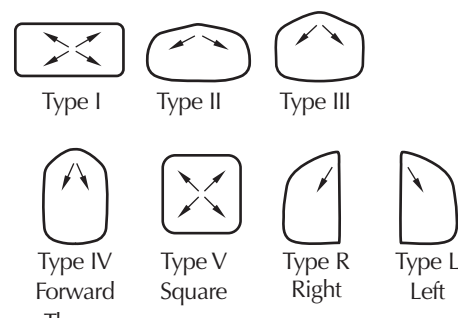
KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

Type:

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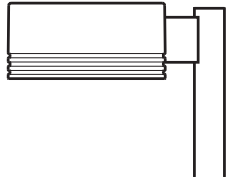


Standard Features

<p>Mounting 3Y configuration is available for round poles only.</p>	<p>Plan View:</p>  <p>EPA: 1.2 2.4 2.2 3.4 3.4 3.9 —</p> <p>Cat. No.: <input type="checkbox"/> 1A <input type="checkbox"/> 2B <input type="checkbox"/> 2L <input type="checkbox"/> 3T <input type="checkbox"/> 3Y <input type="checkbox"/> 4C <input type="checkbox"/> 1W</p>																												
<p>Fixture Cat. No. designates CC/CCS fixture and light distribution.</p>	<p>CC 21 A x</p> <p>Housing: CC CCS</p> <p>Size: 21 = 21" Large 120 LEDs</p> <p>A = Arm Mount</p> <p>Distribution:</p> <ul style="list-style-type: none"> <input type="checkbox"/> 1 = Type I Full Cutoff <input type="checkbox"/> 2 = Type II Full Cutoff <input type="checkbox"/> 3 = Type III Full Cutoff <input type="checkbox"/> 4 = Type IV Full Cutoff <input type="checkbox"/> 5 = Type V Square Full Cutoff <input type="checkbox"/> L = Type L Left Full Cutoff <input type="checkbox"/> R = Type R Right Full Cutoff <p>Light Distribution:</p>  <p>Type I Type II Type III</p> <p>Type IV Type V Type R Type L</p> <p>Forward Throw Square Right Left</p>																												
<p>Electrical Module</p> <p>NOTE: Curvilinear system employs Nichia's SSL product. Part number: NS6x183 (NS6L183-H3, NS6W183-H3)</p>	<p>Cat. Nos. for Electrical Modules available:</p> <p>120 LxK x</p> <p>Source: 120 = 120 LED's</p> <p>Color Temperature:¹</p> <ul style="list-style-type: none"> <input type="checkbox"/> L3K = 3500K <input type="checkbox"/> L5K = 5100K <input type="checkbox"/> L2K = 580nm - Amber <p>Voltage:</p> <ul style="list-style-type: none"> <input type="checkbox"/> 120 = 120V <input type="checkbox"/> 208 = 208V <input type="checkbox"/> 240 = 240V <input type="checkbox"/> 277 = 277V <input type="checkbox"/> 347 = 347V <input type="checkbox"/> 480 = 480V <p>¹4300K and 6500K are also available on an "Engineered-to-Order" (ETO) basis.</p> <table border="1" data-bbox="500 1539 1528 1734"> <thead> <tr> <th>Fixture</th> <th>Max System Watts</th> <th>Volt</th> <th>Operating Amps</th> </tr> </thead> <tbody> <tr> <td>CC/CCS 21 LED</td> <td>140</td> <td>120</td> <td>1.17</td> </tr> <tr> <td>CC/CCS 21 LED</td> <td>140</td> <td>208</td> <td>0.67</td> </tr> <tr> <td>CC/CCS 21 LED</td> <td>140</td> <td>240</td> <td>0.58</td> </tr> <tr> <td>CC/CCS 21 LED</td> <td>140</td> <td>277</td> <td>0.51</td> </tr> <tr> <td>CC/CCS 21 LED</td> <td>140</td> <td>347</td> <td>0.40</td> </tr> <tr> <td>CC/CCS 21 LED</td> <td>140</td> <td>480</td> <td>0.29</td> </tr> </tbody> </table> <p>Watt, volt and amps are based on max assumptions, rather than thermal in situ testing.</p>	Fixture	Max System Watts	Volt	Operating Amps	CC/CCS 21 LED	140	120	1.17	CC/CCS 21 LED	140	208	0.67	CC/CCS 21 LED	140	240	0.58	CC/CCS 21 LED	140	277	0.51	CC/CCS 21 LED	140	347	0.40	CC/CCS 21 LED	140	480	0.29
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<p>Finish 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:



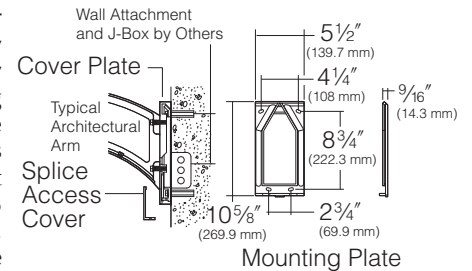
Optional Features

Wall Mounting

Cat. No. 1W
 No Option

Select from Mounting on page 2.

Wall Mount: A cast mounting plate of 356 alloy, low-copper (<0.6% Cu) aluminum, is mounted to the wall with bolts (by others). Fixture and arm are mounted to a cast 356 alloy 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. After mounting to the wall, field splices are made at the opening in the cover plate, then covered by a cast 356 alloy aluminum plate that blends with the cover plate design. Complete fixture-arm-cover plate assembly can therefore be mounted before field splices are made. Cover plate is finished to match arm and fixture powder coat color.



CAUTION: Structural integrity of mounting plate attachment to wall is by others.

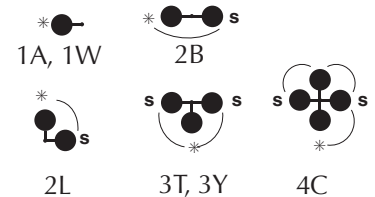
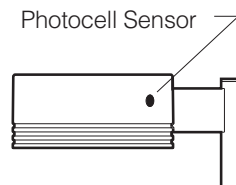
Photocell

Cat. No. (See right)
 No Option

Factory installed photocell inside housing with a fully gasketed sensor on the side wall. For multiple fixture mountings, one fixture is supplied with a photocell to operate the others. (Exception: Four 400 watt fixtures where two fixtures will have photocells.)

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

Cat. No.	Line Volts
<input type="checkbox"/> A-30 <input type="checkbox"/> 2A-30	120V
<input type="checkbox"/> A-31 <input type="checkbox"/> 2A-31	208V
<input type="checkbox"/> A-32 <input type="checkbox"/> 2A-32	240V
<input type="checkbox"/> A-33 <input type="checkbox"/> 2A-33	277V
<input type="checkbox"/> A-35 <input type="checkbox"/> 2A-35	347V
<input type="checkbox"/> A-34 <input type="checkbox"/> 2A-34	480V



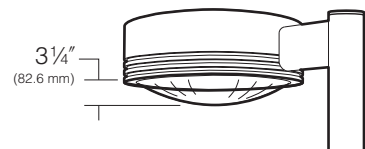
Dimming Controls

The Curvilinear 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.



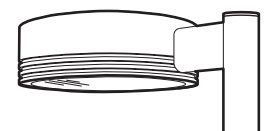
Convex Glass Lens

Polycarbonate Lens

Cat. No. L21F
 No Option

Clear UV stabilized polycarbonate replaces standard flat glass lens, gasketed and integral with lens frame.

CAUTION: Use only when vandalism is anticipated to be high. Useful life is limited by UV discoloration from sunlight.

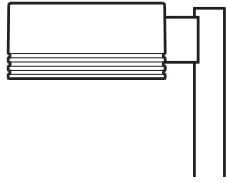


Polycarbonate Lens

Type:

Job:

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Optional Features

Accent Reveals

Cat. No. (See right)
 No Option

(For CC series only) Three aluminum bands riveted inside the housing reveals. Available in five standard Kim powder coat finishes. Custom colors available.



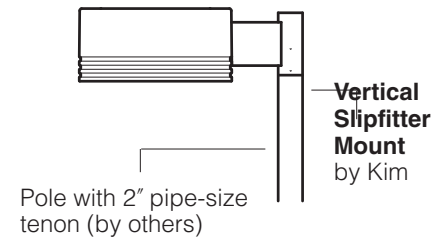
Color: Black Dark Bronze Light Gray Stealth Gray™ Platinum Silver White Custom Colors¹
 Cat. No.: BL-REV DB-REV LG-REV SG-REV PS-REV WH-REV CC-REV

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


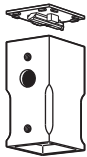
Vertical Slipfitter Mounts

Cat. No. (See right)
 No Option

Allows fixture with standard support arm to be mounted to steel poles having a 2" pipe-size steel tenon (2³/₈" O.D. x 4¹/₂" min. length). 4" round or square cast aluminum with flush cap, secured by four 3/8" stainless steel set point allen screws. Pole tenon must be field drilled at one set screw location to insure against fixture rotation. Finished to match fixture.



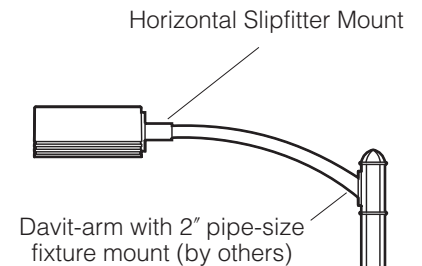
NOTE: 3Y only available on round slipfitter.

Cat. No.		Stainless steel set screws		Cat. No.	Mounting Configuration
<input type="checkbox"/> VSF-1A				<input type="checkbox"/> SVSF-1A	1A - single arm mount
<input type="checkbox"/> VSF-2B				<input type="checkbox"/> SVSF-2B	2B - 2 at 180°
<input type="checkbox"/> VSF-2L				<input type="checkbox"/> SVSF-2L	2L - 2 at 90°
<input type="checkbox"/> VSF-3T				<input type="checkbox"/> SVSF-3T	3T - 3 at 90°
<input type="checkbox"/> VSF-3Y					3Y - 3 at 120°
<input type="checkbox"/> VSF-4C	Round		Square	<input type="checkbox"/> SVSF-4C	4C - 4 at 90°

Horizontal Slipfitter Mount





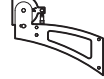

Cat. No. HSF
 No Option

Replaces standard mounting arm with a slipfitter which allows CC/CCS Arm Mount model to be mounted to a horizontal pole davit-arm with 2" pipe-size mounting end (2³/₈" O.D.). Cast aluminum slipfitter with set screw anti-rotation 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.



Support Arm

Cat. No. (See right)
 No Option

Arm View:      

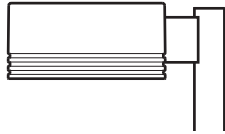
Swept Solid Arm Swept Hollow Arm Upsweep Solid Arm Upsweep Hollow Arm Uplift Adjustable Aluminum Arm Uplift Admstuable Stainless Steel Arm

Cat. No.: AA01 AA03 AA05 AA07 AA09 AA11

Note: Refer to Kim Lighting's Architectural Arms Catalog for complete details.

Type:

Job:

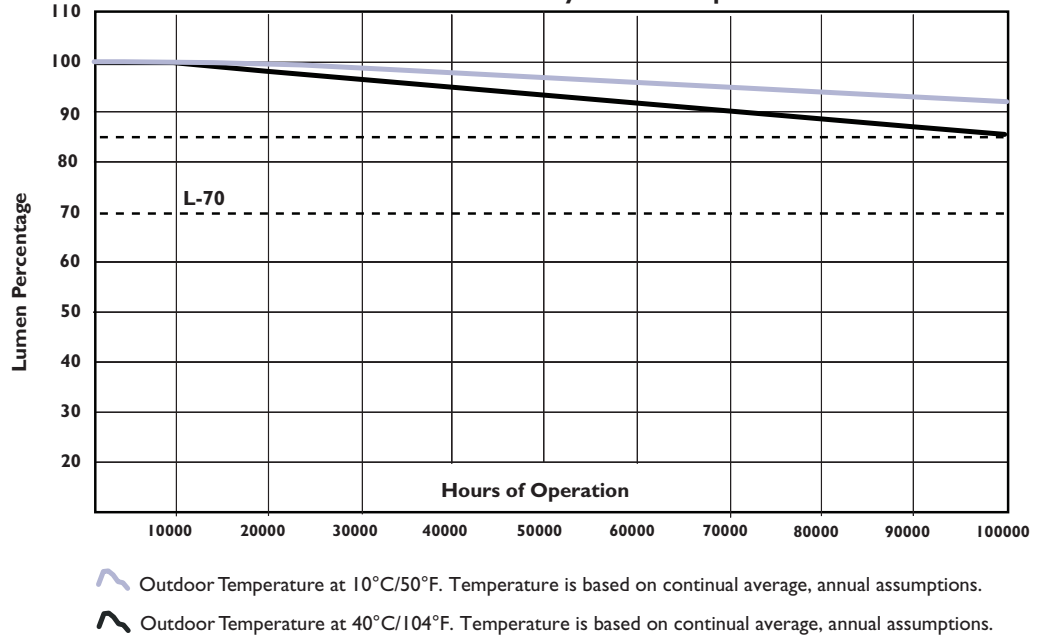


Lumen Performance Charts

NOTES:

- Lumen loss stabilization is a result of Kim Lighting's MicroEmitter™ luminaires exclusive LifeShield™ temperature control device and Dual Heat Management.
- The LifeShield temperature control device 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/77°F tab ambient and cathode temperature at 85°C/185°F. Assumptions past 6,000 hours are interpolated.
- 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.
- Outdoor ambient temperatures are assumed SITU average by geographic region.
- 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



Luminaire Output at Outdoor Ambient Temperatures

