

Type:
Job:
Catalog number:

Approvals:

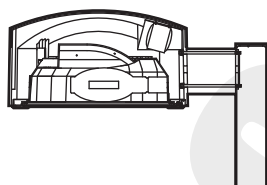
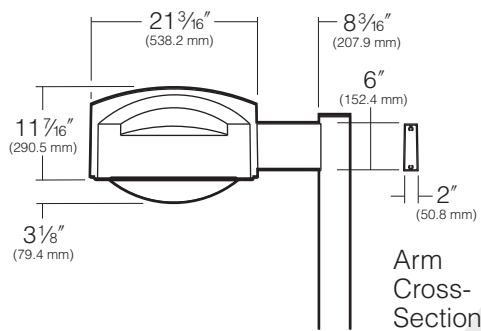
____ / ____ / ____ / ____
 Mtg. Fixture Electrical Module Finish Options
 See page 2 See page 3 See pages 4-5

Date:
Page: 1 of 6

Select pole from Kim Pole Catalog. If pole is provided by others indicate O.D. for arm fitting.

Specifications

ACA21
 150 to 400 watt



Arm Mount with Horizontal Lamp

Housing: One-piece die-cast, low copper (<0.6% Cu) aluminum alloy. All hardware is stainless steel. A stainless steel self-locking stop-arm is provided to hold the lens frame in the open position while servicing.

Lens Frame Assembly: One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with 1" minimum thickness around the gasket flange for rigidity. Stainless steel hinge provided for attachment to the housing. Two stainless steel thumb latches are recessed into the side corners, concealed from normal view. The 3/16" thick clear flat or convex tempered glass lens seals against the reflector flange by a one-piece extruded silicone gasket with the ends fused to produce a continuous loop, eliminating gaps that allow the intrusion of foreign objects into the optical system.

Standard Arm Mount: Arm is one-piece extruded aluminum with internal bolt guides. The luminaire to pole attachment is by draw-bolts, including a pole reinforcing plate with strain relief. Arm will be circular cut to mate with specified round pole.

Reflector Module: Specular Alzak® optical segments are rigidly mounted within a die-cast, low copper (<0.6% Cu) aluminum alloy enclosure that attaches to the housing as a one-piece module. Reflectors are field rotatable in 90° increments. All sockets are factory prewired with a quick-disconnect plug for the ballast module. Wire penetrations to the socket are sealed by a silicone gasket to create a totally sealed optical chamber. The optical segments are positioned so that reflected light does not pass through the lamp arc tube. The horizontal metal halide lamp reflectors are equipped with pin-oriented mogul base socket with a molded silicon lamp stabilizer. The beam spread can be adjusted in the field with the simple removal of two screws and a turn of the socket brackets. "Narrow" beam reflectors are fixed and non-adjustable. All HPS and PMH horizontal reflectors are equipped with a mogul base socket rated 4KV or 5KV (750 & 1000 watt). All optical systems are interchangeable within the housing.

Electrical Module: All electrical components are UL and CSA recognized, mounted on a single plate and factory prewired with quick-disconnect plugs for attachment to the incoming wires and socket wires. The module attaches inside the housing using keyhole slots. All ballasts are high power factor with starting temperatures of -40°F. for HPS and -20°F. for PMH lamp modes.

Finish/Color: Finish is Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a titanated zirconium conversion coating; A.S.T.M. 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

UL cUL 1598 ¹	IP66 Rated	25C Ambient
Cut Off ² (CGL) / Full CutOff (Flat Glass Lens Only)		

¹Suitable for wet locations

²Dark sky legislation compliant

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.



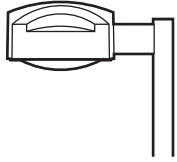
U.S. Patent D485,634



Type:

Job:

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Standard Features

Mounting

3Y configuration is available for round poles only.

Plan View:



EPA:	1.8	3.6	2.8	4.0	4.0	4.2	n/a
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

Fixture:

Cat. No. designates **AC** fixture, light distribution and beam spread.

See the Kim Site/Roadway Optical Systems Catalog for detailed information on reflector design and application.

Light Distribution:



Type I	Type II	Type III	Type IV	Type V
Full Cutoff	Full Cutoff	Full Cutoff	Forward Throw Full Cutoff	Square Full Cutoff



Convex Lens

Cat. No.: **ACA21C.H1** **ACA21C.H2** **ACA21C.H3** **ACA21C.H4** **ACA21C.H5**



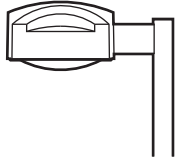
Flat Lens

Cat. No.: **ACA21F.H1** **ACA21F.H2** **ACA21F.H3** **ACA21F.H4** **ACA21F.H5**

Type:

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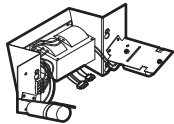


Standard Features

Electrical Module

HPS = High Pressure Sodium

PMH = Pulse Start Metal Halide



Lamp	Lamp	Line
Watts	Type	Volts
400	HPS	277

Cat. Nos. for Electrical Modules available:

High Pressure Sodium

- | | | |
|---|---|---|
| <input type="checkbox"/> 150HPS120 | <input type="checkbox"/> 250HPS120 | <input type="checkbox"/> 400HPS120 |
| <input type="checkbox"/> 150HPS208 | <input type="checkbox"/> 250HPS208 | <input type="checkbox"/> 400HPS208 |
| <input type="checkbox"/> 150HPS240 | <input type="checkbox"/> 250HPS240 | <input type="checkbox"/> 400HPS240 |
| <input type="checkbox"/> 150HPS277 | <input type="checkbox"/> 250HPS277 | <input type="checkbox"/> 400HPS277 |
| <input type="checkbox"/> 150HPS347 | <input type="checkbox"/> 250HPS347 | <input type="checkbox"/> 400HPS347 |
| <input type="checkbox"/> 150HPS480 | <input type="checkbox"/> 250HPS480 | <input type="checkbox"/> 400HPS480 |

Lamp	E-23 1/2, Clear	ED-18 or ET-18, Clear	ED-18 or ET-18, Clear
Socket	Mogul Base	Mogul Base	Mogul Base
ANSI Ballast Type	S-55	S-50	S-51

Pulse Start Metal Halide

- | | |
|---|---|
| <input type="checkbox"/> 250PMH120 | <input type="checkbox"/> 400PMH120 |
| <input type="checkbox"/> 250PMH208 | <input type="checkbox"/> 400PMH208 |
| <input type="checkbox"/> 250PMH240 | <input type="checkbox"/> 400PMH240 |
| <input type="checkbox"/> 250PMH277 | <input type="checkbox"/> 400PMH277 |
| <input type="checkbox"/> 250PMH347 | <input type="checkbox"/> 400PMH347 |
| <input type="checkbox"/> 250PMH480 | <input type="checkbox"/> 400PMH480 |

Lamp	BT-28 or ED-28, Clear	ED-28, Clear
Socket	Mogul Base	Mogul Base
ANSI Ballast Type	M-138	M-135

NOTE: Due to the Energy Independence and Security Act (EISA) of 2007, Kim Lighting can no longer supply probe start metal halide ballasts with its luminaires, effective January 1, 2009. Contact Kim Lighting for availability of replacement ballasts for warranty service claims.
(Visit www.aboutlightingcontrols.org or the Library of Congress website for more details).

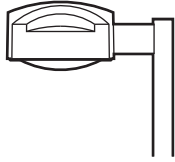
Finish

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:

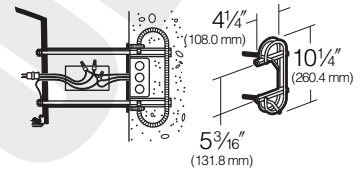


Optional Features

Wall Mounting

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

Modified support arm with side access to allow field splices within the arm, for poured concrete walls only. An electro-zinc plated steel wall embedment bracket is provided to accept draw-bolts. Trim plate provided to cover junction box, finished to match fixture and arm.

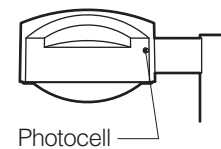


Wall mount using wall embedment bracket. J-box in wall (by others)

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. (Exceptions: Four 400 watt fixtures where two fixtures will have photocells).



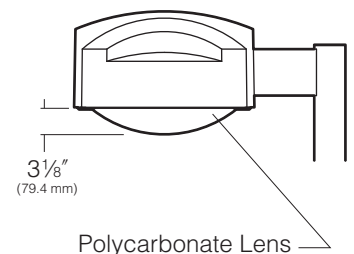
Cat. No.	Line Volts	Wattage per fixture:	Mounting (see page 2)	* Fixture with photocell s slave unit(s)	
<input type="checkbox"/> A-30	120V	150-400W	* ●	* ● s	
<input type="checkbox"/> A-31	208V		* ● ● s	* ● ● s	
<input type="checkbox"/> A-32	240V			s ● ● s	
<input type="checkbox"/> A-33	277V			s ● ● s	
<input type="checkbox"/> A-35	347V				
<input type="checkbox"/> A-34	480V				
		150-250W		s ● ● s 4C	
<input type="checkbox"/> 2A-30	120V	400W		* ● ● ● ● s 4C	
<input type="checkbox"/> 2A-31	208V				
<input type="checkbox"/> 2A-32	240V				
<input type="checkbox"/> 2A-33	277V				
<input type="checkbox"/> 2A-35	347V				
<input type="checkbox"/> 2A-34	480V				

Polycarbonate Lens

Cat. No. L21
 No Option

One-piece vacuum formed, clear, UV stabilized convex polycarbonate, fully gasketed, replacing the standard tempered glass lens. 250 watt maximum. May be used with 400 watt HPS in locations where ambient air temperature during fixture operation will not exceed 85°F.

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

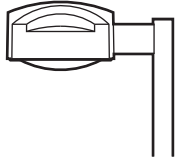




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Optional Features

Houseside Shield

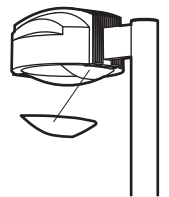
Cat. No. (See right)
 No Option

(Types II, III, IV, and Asymmetric distributions only).

The cutoff horizontal reflectors are available with stamped aluminum louvers that pass streetside light and block houseside light, and a blackened panel added to the reflector to reduce houseside reflections. The vertical reflectors and horizontal reflectors with the optional convex glass lens are available with a formed aluminum shield that passes streetside light and blocks houseside light, and a black anodized panel added to the reflector to reduce houseside reflections. Recommended for use with clear lamps only. Effectiveness is reduced for coated lamps.



Houseside Shield for **flat** lens



Houseside Shield for **convex** lens or polycarbonate lens

Cat. No.

- HS** For fixtures with flat lens and asymmetric light distribution only. Do not use with square light distribution.
- HSC** For fixtures with convex lens and asymmetric light distribution only. Do not use with square light distribution.

Neighbor Friendly Shield

Cat. No. **NFS**
 No Option

(Type IV only) Stamped internal shield and blocking panels are used to direct and redirect lighting into a forward throw distribution. The amount of light directed and redirected toward the back of the luminaire is dramatically reduced to create extremely low glare behind the pole. Only available on the Type IV reflectors.



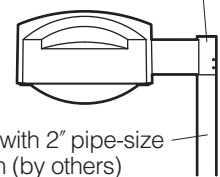
Neighbor Friendly Shield for **flat** lens

Vertical Slipfitter Mount

Cat. No. (See right)
 No Option

Allows standard fixture and 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.

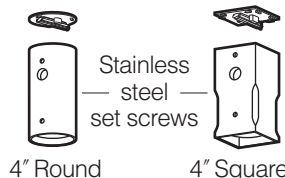
Vertical Slipfitter Mount



Pole with 2" pipe-size tenon (by others)

Cat. No.

- VSF-1A**
 VSF-2B
 VSF-2L
 VSF-3T
 VSF-3Y
 VSF-4C



Cat. No.

- SVSF-1A**
 SVSF-2B
 SVSF-2L
 SVSF-3T
 SVSF-4C

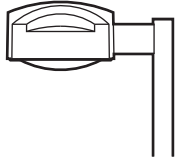
Mounting Configuration

- 1A - Single arm mount
 2B - 2 at 180°
 2L - 2 at 90°
 3T - 3 at 90°
 3Y - 3 at 120°
 4C - 4 at 90°

Type:

Job:

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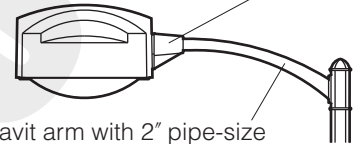
Optional Features

Horizontal Slipfitter Mount

Cat. No. HSF
 No Option

Allows the standard fixture to be mounted to any horizontal pole davit-arm with 2" pipe-size mounting end (2 3/8" O.D.). Cast aluminum slipfitter with set screws providing ±5° vertical fixture adjustment. Bolts to housing from inside electrical compartment using mounting holes for standard support arm. Davit-arm must be field drilled at set screw location to insure against fixture rotation. Finished to match fixture.

Horizontal Slipfitter Mount



Davit arm with 2" pipe-size fixture mount (by others)

Fusing

Cat. No. **(See Right)**
 No Option

High temperature fuse holders factory installed inside the fixture housing.

Line Volts:	120V	208V	240V	277V	480V	347V
Cat. No.:	<input type="checkbox"/> SF	<input type="checkbox"/> DF	<input type="checkbox"/> DF	<input type="checkbox"/> SF	<input type="checkbox"/> DF	<input type="checkbox"/> SF