

**Type:**  
**Job:**  
**Catalog number:**

**Approvals:**

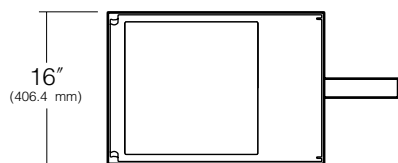
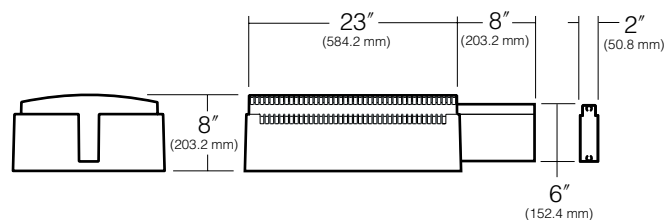
/ / / /  
 Mtg. Fixture Electrical Module Finish Options / Optional Entab  
 See page 2 See page 3 See pages 4-6 See page 7

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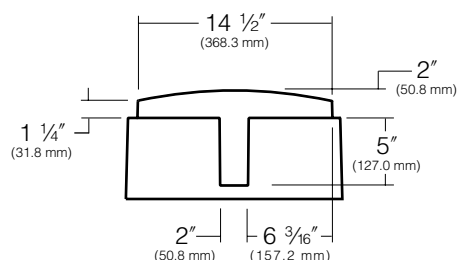
Select pole from Kim Pole Catalog. If pole is provided by others indicate O.D. for arm fitting.

## Specifications

**ET Model**  
150 to 400 watt  
Mogul Base Lamps



Maximum Fixture weight (400HPS) = 45 lb



Entablature Dimensions

See page 7 for standard Entab configurations and specifications.

**Housing:** One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral cooling fins on the top surfaces above the optical chamber and electrical compartment. A solid barrier wall separates the optical and electrical compartments, with gasketed wire penetrations. A double-thick wall with gussets is provided on the support arm mounting end. Inset sections on each end provide for attachment of optional entablatures, and cradle the mounting arm. All hardware is stainless steel or electro-zinc plated steel.

**Lens Frame:** One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with a 1" minimum thickness around the gasket flange for rigidity. Integral hinges with stainless steel pins provide no-tool mounting and removal from the housing. Two stainless steel thumb-latches are recessed into the front corners, concealed from normal view. Lens frame seals against the housing by a one-piece extruded silicone gasket with vulcanized end closure. Clear 3/16" thick tempered flat or convex glass lens is retained in the frame by eight clips with full silicone gasketing around the perimeter.

**Reflector Module:** Specular Alzak® optical segments are rigidly mounted in a die-cast, low copper (<0.6% Cu) aluminum alloy enclosure which attaches to the housing as a one-piece module. Reflector module is field-rotatable in 90° increments. All HPS and PMH sockets are porcelain mogul base rated 4KV with a molded silicone lamp stabilizer. All reflector modules are factory prewired with a quick-disconnect plug for the ballast module, with wires passing through a silicone gasket in the housing barrier wall. Four light distributions are available and interchangeable within the same housing size.

**Electrical Module:** All electrical components are UL and CSA recognized, mounted on a single plate and factory prewired with quick-disconnect plugs. Electrical module attached to housing with no-tool hinges and latches, accessible by opening the lens frame. All ballasts are high power factor with starting temperatures of -40°F for HPS and -20°F for MH lamp modes.

**Support Arm:** One-piece extruded aluminum with internal bolt guides and a recessed step to match the housing. Luminaire-to-pole attachment is by internal draw bolts, and includes a pole reinforcing plate with wire strain relief. For mounting to round poles, arm is circular cut for precise mating to the pole diameter.

**Finish:** 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 <sup>1</sup>	4G Vibration <sup>2</sup>	25C Ambient
IP66 Rated		CE
Full Cut Off <sup>3</sup> with flat glass lens - Cut Off with convex glass lens		

<sup>1</sup>Suitable for wet locations

<sup>2</sup>5K Cycle Tested

<sup>3</sup>Dark Sky Legislation Compliant



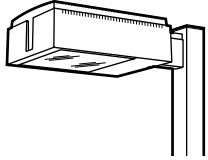
**U.S. PATENTS:** D389,262, D402,386, D404,511, D403,790, D404,512, D404,841, D399,328, D404,094, D408,571, D407,841, D407,840, D408,093, D407,838, D407,839, D408,572, D407,837, D409,324, D403,791

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

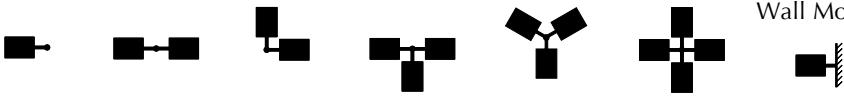

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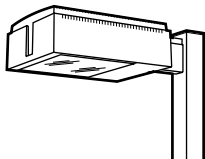
## Standard Features

<p><b>Mounting</b> 3Y configuration is available for round poles only.</p>	<p>Plan View:</p>  <p>EPA:            1.8            3.6            2.6            4.1            4.1            4.7            —</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><b>Fixture</b> Cat. No. designates ET fixture and light distribution. See the Kim Site/Roadway Optical Systems Catalog for detailed information on reflector design and application.</p>	<p><b>Horizontal Lamp</b></p> <p><b>Flat Lens</b></p>  <p>Light Distribution:    Type I            Type II            Type III            Type IV            Type V</p> <p>                                 Full Cutoff        Full Cutoff        Full Cutoff        Forward Throw Full Cutoff        Square Full Cutoff</p> <p>Cat. No.:                <input type="checkbox"/> ET1            <input type="checkbox"/> ET2            <input type="checkbox"/> ET3            <input type="checkbox"/> ET4            <input type="checkbox"/> ET5</p>

Type:

Job:

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## Standard Features

### Electrical Module

**PMH** = Pulse Start  
Metal Halide

**HPS** = High Pressure  
Sodium

Cat. Nos. for Electrical Modules available:

	Pulse Start Metal Halide			
	<input type="checkbox"/> 250PMH120	<input type="checkbox"/> 320PMH120	<input type="checkbox"/> 350PMH120	<input type="checkbox"/> 400PMH120
	<input type="checkbox"/> 250PMH208	<input type="checkbox"/> 320PMH208	<input type="checkbox"/> 350PMH208	<input type="checkbox"/> 400PMH208
	<input type="checkbox"/> 250PMH240	<input type="checkbox"/> 320PMH240	<input type="checkbox"/> 350PMH240	<input type="checkbox"/> 400PMH240
	<input type="checkbox"/> 250PMH277	<input type="checkbox"/> 320PMH277	<input type="checkbox"/> 350PMH277	<input type="checkbox"/> 400PMH277
	<input type="checkbox"/> 250PMH347	<input type="checkbox"/> 320PMH347	<input type="checkbox"/> 350PMH347	<input type="checkbox"/> 400PMH347
	<input type="checkbox"/> 250PMH480	<input type="checkbox"/> 320PMH480	<input type="checkbox"/> 350PMH480	<input type="checkbox"/> 400PMH480
Lamp	ED-28, Clear	ED-28, Clear	ED-28, Clear	ED-28, Clear
Socket	Mogul Base	Mogul Base	Mogul Base	Mogul Base
ANSI Ballast	M-138	M-132	M-131	M-135

Lamp Watts	Lamp Type	Line Volts
250	HPS	277

	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	ED-23 1/2 Clear	ED-18 Clear	ED-18 Clear
Socket	Mogul Base	Mogul Base	Mogul Base
ANSI Ballast	S-55	S-50	S-51

**NOTE:** For lamp/ballast information outside of the U.S.A. and Canada, please consult your local Kim representative.

**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](http://www.aboutlightingcontrols.org) or the Library of Congress website for more details).

### Finish

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

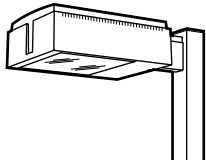
Color: Black Dark Bronze Light Gray Stealth Gray® Platinum Silver White Custom Color<sup>1</sup>  
Cat. No.:  BL  DB  LG  SG  PS  WH  CC

<sup>1</sup>Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: \_\_\_\_\_

Type:

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## Optional Features

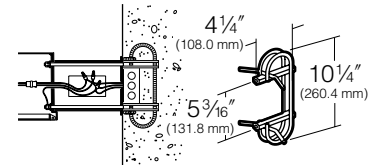
### Wall Mounting

- 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.

**NOTE:** Junction box in wall must provide adequate fixture support. See NEC sections 370-13, 17, and 410-14, 16.

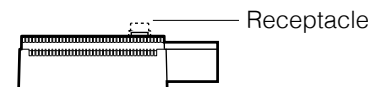


ET wall mount using wall embedment bracket J-box in wall (by others)

### Photocell Receptacle

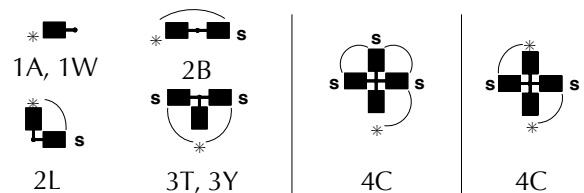
- Cat. No.  A-25  
 No Option

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. Four fixtures (250 watt or less) also require one fixture with a receptacle. Four fixtures (400 watt) require two fixtures with receptacles.



Mounting (see page 2)

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



Allowable wattage per fixture:

150-400W

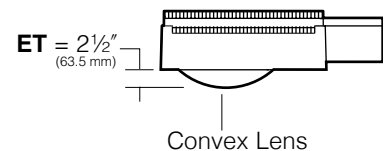
150-250W

400W

### 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.



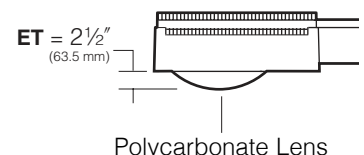
Convex Lens

### Polycarbonate Lens

- Cat. No.  LS  
 No Option

Fixture supplied with a one-piece vacuum formed, clear, UV stabilized convex polycarbonate, fully gasketed lens, replacing the standard tempered glass lens. 250 watt maximum. May be used with 400HPS in outdoor 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.

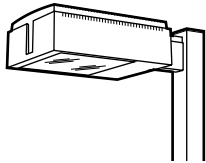


Polycarbonate Lens

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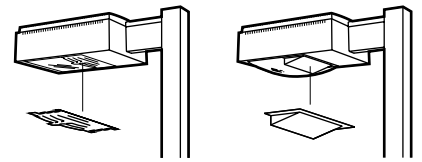


## Optional Features

### Houseside Shield

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

**(Types II, III, and IV only)** Fixtures with the standard flat glass lens 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. Fixtures 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. Use with clear lamps only, as coated lamps reduce effectiveness.



**HS**  
for flat lens

**HSC**  
for convex lens

Cat. No.

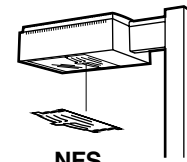
**HS** Recommended for use with clear lamps only. Effectiveness is reduced for coated lamps. Not for use with Type V light distributions.

**HSC** For use with all fixtures with convex glass lens. Not for use with Type V light distributions.

### 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.

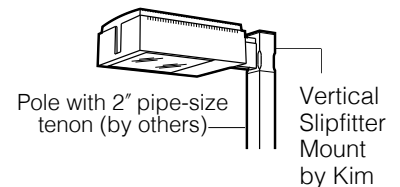


**NFS**

### Vertical Slipfitter Mounts

Cat. No. includes Mounting  
Cat. No. **(See right)**  
 No Option

Allows fixture with standard support arm to be mounted to poles having a 2" pipe-size tenon (2 $\frac{3}{8}$ " O.D. x 4 $\frac{1}{2}$ " 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  $\frac{3}{8}$ " stainless steel set point allen screws, finished to match fixture and arm.



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**

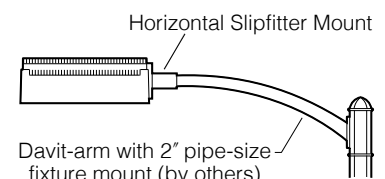
Mounting Configuration

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

### Horizontal Slipfitter Mount

Cat. No.  **HSF**  
 No Option

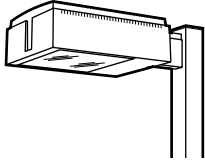
Replaces standard mounting arm with a slipfitter which allows fixture to be mounted to a horizontal pole davit-arm with 2" pipe-size mounting end (2 $\frac{3}{8}$ " O.D.). Cast aluminum slipfitter with set screw anti-rotation lock. Bolts to housing from inside the electrical compartment using mounting 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.



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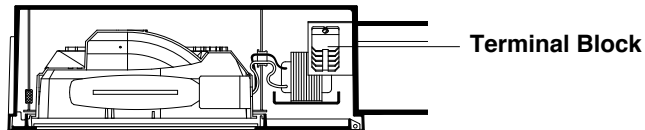


## Optional Features

### Special Options for Street Lighting

Cat. No.  **TB**  
 **No Option**

**Terminal Block (TB):** 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.



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## Optional Entablatures (Entabs)

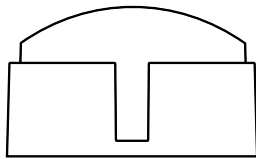
No Entablature

**Finish:** Super TGIC thermoset polyester powder coat paint, over a titanated zirconium conversion coating.

**BL** Black  
 **DB** Dark Bronze  
 **LG** Light Gray  
 **SG** Stealth Gray®

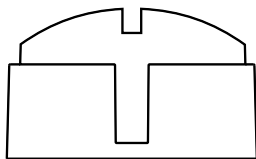
**PS** Platinum Silver  
 **WH** White  
 **CC** Custom Color:

### Arched Entablatures



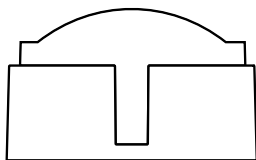
Arch

Cat. No. **A1**



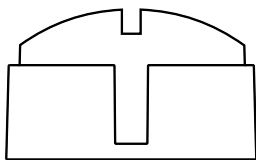
Broken Arch

Cat. No. **A2**



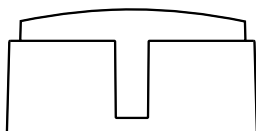
Stepped Arch

Cat. No. **A3**



Stepped Broken Arch

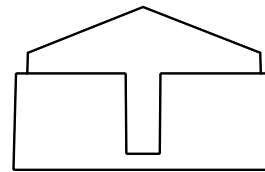
Cat. No. **A4**



Standard Entablature  
Follows fixture body profile

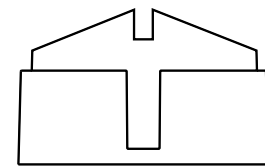
Cat. No. **A5**

### Peaked Entablatures



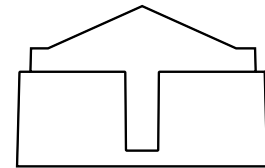
Peak

Cat. No. **P6**



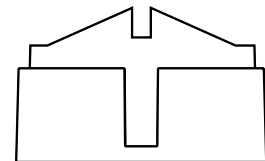
Broken Peak

Cat. No. **P7**



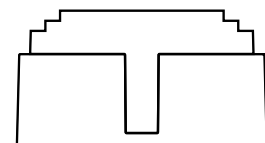
Stepped Peak

Cat. No. **P8**



Stepped Broken Peak

Cat. No. **P9**



Stepped

Cat. No. **P10**

**Specify Entablature and color.**

**Example: [ A2/LG ]**

**Entablature Specifications:** (Optional) Stamped from .090" aluminum sheet, mechanically attached to front and back of housing with no visible fasteners. For custom colors and/or custom Entablatures, consult your Kim representative. See page 1 for dimensions.