



**KIM LIGHTING**

**RA 25" Era™ Series**  
International Design Luminaire

revision 11/3/10 • ra25.pdf

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

/	/	/	/	/
Mtg	Fixture	Electrical Module	Finish	Options
See pages 2-3			See pages 4-6	
				Pole*

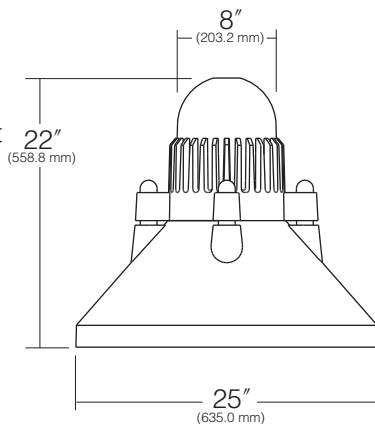
**Approvals:**

**Date:**  
**Page: 1 of 6**

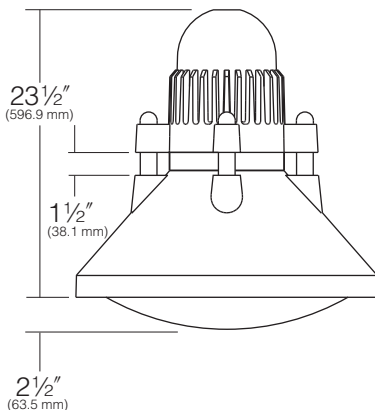
\*Select pole from Kim Arms and Poles Selection Guide. If pole is provided by others indicate O.D. for arm fitting.

## Specifications

**RA25**  
25" Diameter  
150 to 400 Watt



**RA25**  
with optional  
Glow Ring and  
Convex Lens



**Housing:** The Ballast Housing is a one-piece die-cast, low copper (<0.6% Cu) aluminum alloy component with integral cooling fins. The Reflector Housing is one-piece die-cast, low copper (<0.6% Cu) aluminum alloy. The Ballast Housing attaches to the Reflector Housing with stainless steel fasteners and is sealed with a silicone gasket.

**Lens Frame:** One-piece die-cast, low copper (<0.6% Cu) aluminum alloy. Stainless steel hinges provided for attachment to the Reflector Housing. Stainless steel threaded fasteners provide easy access, 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 fused seam, to produce a fully sealed optical chamber.

**Mounting:** Stainless steel bolts are provided to attach the luminaire to the crook arm or swept arm mounting.

**Reflector Module:** Specular Alzak® optical segments are rigidly mounted within a die-cast, low copper (<0.6% Cu) aluminum enclosure which attaches to the Reflector 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, with wires passing through a silicone gasket to maintain sealed optical chamber integrity. The optical segments are positioned so that reflected light does not pass through the lamp arc tube. All vertical reflectors, HPS horizontal reflectors, and Pulse Start reflectors are equipped with a mogul base socket rated 4KV. 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 the 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:** 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 local codes or the National Electrical Code. Failure to do so may result in serious personal injury.

### Listings and Ratings

UL cUL 1598 <sup>1</sup>	IP66 Rated
Co (Full) Cut Off <sup>2</sup> (Flat Glass Lens Only) FCO Full Cutoff (CGL)	

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

<sup>2</sup>Dark Sky Legislation Compliant

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

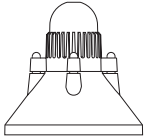


U.S. Patent D430,687

Type:

Job:

Page: 2 of 6



## Standard Features

### Mounting

Plan View:



EPA 25':

1.5

3.0

4.5

5.2

N/A

Cat. No.:

**1A**

**2B**

**3Y**

**4C**

**1W**

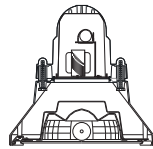
**NOTE:** 1A, 2B, 3Y and 4C mounting arms are part of the Pole Assembly. 1W Wall Mount arm is not included and must be ordered separately. See page 6 for styles and ordering information.

### Reflector

Cat. No. designates RA fixture and light distribution.

See the Kim Site/Roadway Optical Systems catalog for complete details and explanation of optical system features.

#### Horizontal Lamp



#### Flat Lens

Light Distribution:

Type I

Type II

Type III

Type IV  
Forward Throw

Type V  
Square

Full Cutoff

Full Cutoff

Full Cutoff

Full Cutoff

Full Cutoff

Cat. No.:

**RA251**

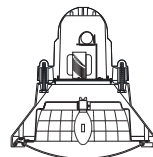
**RA252**

**RA253**

**RA254**

**RA255**

#### Vertical Lamp



#### Convex Lens

Cutoff  
Light Distribution:

Asymmetric

Symmetric Square

Cat. No.: 25"

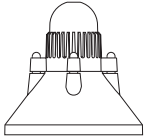
**RA25F3**

**RA25F5**

Type:

Job:

Page: 3 of 6

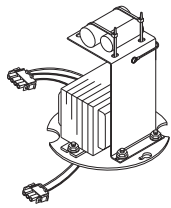


## Standard Features

### Electrical Module

**HPS** = High Pressure Sodium

**PMH** = Pulse Start Metal Halide



Lamp Watts	Lamp Type	Line Volts
400	HPS	277

Cat. Nos. for Electrical Modules available:

#### High Pressure Sodium

	<input type="checkbox"/> 150HPS120 <input type="checkbox"/> 150HPS208 <input type="checkbox"/> 150HPS240 <input type="checkbox"/> 150HPS277 <input type="checkbox"/> 150HPS347 <input type="checkbox"/> 150HPS480	<input type="checkbox"/> 250HPS120 <input type="checkbox"/> 250HPS208 <input type="checkbox"/> 250HPS240 <input type="checkbox"/> 250HPS277 <input type="checkbox"/> 250HPS347 <input type="checkbox"/> 250HPS480	<input type="checkbox"/> 400HPS120 <input type="checkbox"/> 400HPS208 <input type="checkbox"/> 400HPS240 <input type="checkbox"/> 400HPS277 <input type="checkbox"/> 400HPS347 <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 Type	S-55	S-50	S-51

#### Pulse Start Metal Halide

	<input type="checkbox"/> 175PMH120 <sup>1</sup> <input type="checkbox"/> 175PMH208 <sup>1</sup> <input type="checkbox"/> 175PMH240 <sup>1</sup> <input type="checkbox"/> 175PMH277 <sup>1</sup> <input type="checkbox"/> 175PMH347 <sup>1</sup> <input type="checkbox"/> 175PMH480 <sup>1</sup>	<input type="checkbox"/> 250PMH120 <input type="checkbox"/> 250PMH208 <input type="checkbox"/> 250PMH240 <input type="checkbox"/> 250PMH277 <input type="checkbox"/> 250PMH347 <input type="checkbox"/> 250PMH480	<input type="checkbox"/> 400PMH120 <input type="checkbox"/> 400PMH208 <input type="checkbox"/> 400PMH240 <input type="checkbox"/> 400PMH277 <input type="checkbox"/> 400PMH347 <input type="checkbox"/> 400PMH480
Lamp	ED-28, Clear	ED-28, Clear	ED-28, Clear
Socket	Mogul Base	Mogul Base	Mogul Base
ANSI Ballast Type	M-137	M-138	M-135

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

<sup>1</sup>175PMH lamp not for use in horizontal lamp reflectors.

**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

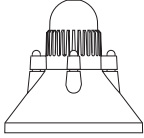
Super TGIC powder coat paint over titanated zirconium conversion coating.

Color: Black Dark Bronze Light Gray Stealth Gray™ Platinum Silver White Custom Color<sup>2</sup>  
 Cat. No.:  **BL**  **DB**  **LG**  **SG**  **PS**  **WH**  **CC**

<sup>2</sup>Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: \_\_\_\_\_

Type:

Job:



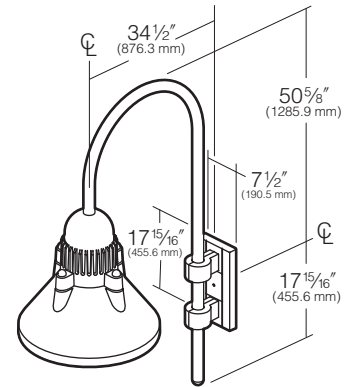
## Optional Features

### Wall Mounting

Cat. No. **1W**

Select from Mounting on page 2.

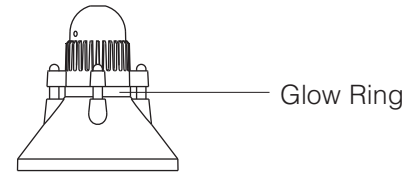
Cast aluminum wall mounting plate pre-attaches to wall with bolts (by others). A cast cover with crook attachments hangs on mounting plate during field wiring and fastening. Splice cover supplied. **1W** Wall Mount arm is not included and must be ordered separately.



### Glow Ring

Cat. No.  **GR**  
 **No Option**

Diffuse tempered glass securely held between the Ballast Housing and Reflector Housing with stainless steel fasteners and silicone gaskets. Extruded aluminum spacers extend Ballast Housing to Reflector Housing connections.

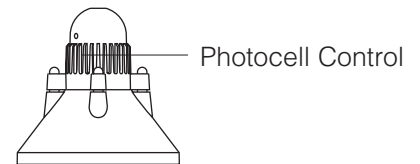


### Photocell

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

Factory installed fully gasketed sensor.

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

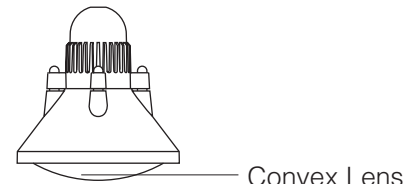


### Convex Glass Lens

Cat. No.  **CGL**  
 **No Option**

**Convex Glass Lens:** The 3/16" thick clear convex tempered glass lens replaces the standard flat glass lens in horizontal lamp fixtures. Provides increased lens presence and provides a subtle improvement in uniformity where pole spacing is extreme.

**NOTE:** Convex Lens is standard on all Vertical Lamp Optical Systems.

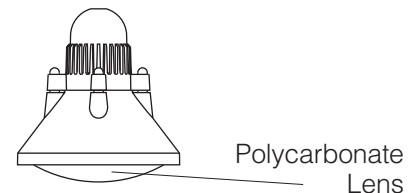


### Polycarbonate Lens

Cat. No.  **LS**  
 **No Option**

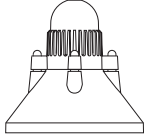
One-piece vacuum formed, clear, UV stabilized convex polycarbonate, fully gasketed, replacing the standard tempered glass lens. 250 watt maximum. May be used with 400 watt HPS in locations where ambient air temperature during fixture operation will not exceed 85°F.

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



Type:

Job:



## Optional Features

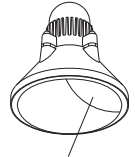
### Houseside Shield

Cat. No.  **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 blackened panel added to the reflector to reduce houseside reflections.



**HS**  
for flat lens



**HSC**  
for convex lens or polycarbonate lens

Cat. No.

**HS** Recommended for use with clear lamps only. Effectiveness is reduced for coated lamps. Not for use with Type V (horizontal lamp) or symmetric (vertical lamp) light distributions

**HSC** For use with all fixtures with polycarbonate or convex glass lens. Not for use with Type V or symmetric 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.



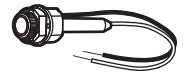
Neighbor Friendly Shield  
for flat lens

### Fusing

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

High temperature fuse holders factory installed. Fuse is included.

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

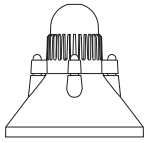


### Poles and Arms

See Kim Lighting's **Arms and Poles Selection Guide** for a complete selection of heritage style poles. Arm variations are shown on page 6.

Type:

Job:



## Arm Options

**Arms**

**Note:** Refer to Kim Lighting's Arms and Poles Selection Guide for complete details.

Mounting  
Orientation

- 1A
- 2B
- 3Y
- 4C

**Post Top Crook**

ARM Tenon Mount Wall Mt



HA01L HA01L-TM1

**Side Pole Crook**

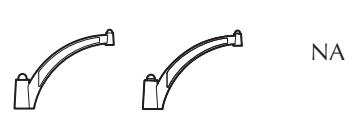
ARM Tenon Mount Wall Mt



HA02L HA02L-TM1  
 HA02L-TM2  
 HA02L-TM3  
 HA02L-TM4

**Post Top Swept Cast Arm**

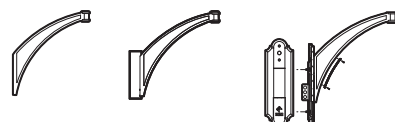
ARM Tenon Mount Wall Mt



HA03L HA03L-TM1  
 HA03L-TM2  
 HA03L-TM3  
 HA03L-TM4

**Side Pole Swept Cast Arm**

ARM Tenon Mount Wall Mt



HA11L HA11L-TM1  
 HA11L-TM2  
 HA11L-TM3  
 HA11L-TM4

**Side Pole S-Shaped Up Cast Arm**

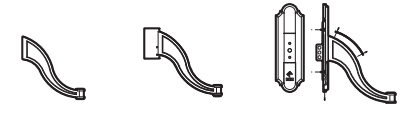
ARM Tenon Mount Wall Mt



HA12L HA12L-TM1  
 HA12L-TM2  
 HA12L-TM3  
 HA12L-TM4

**Side Pole S-Shaped Down Cast Arm**

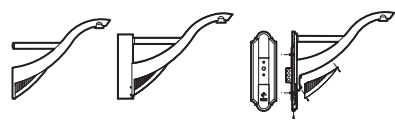
ARM Tenon Mount Wall Mt



HA13L HA13L-TM1  
 HA13L-TM2  
 HA13L-TM3  
 HA13L-TM4

**Side Pole Neo-Classic Arm**

ARM Tenon Mount Wall Mt



HA14L HA14L-TM1  
 HA14L-TM2  
 HA14L-TM3  
 HA14L-TM4

**Side Pole Ribbon Arm w/Top Scroll**

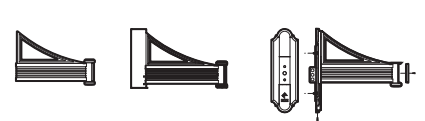
ARM Tenon Mount Wall Mt



HA31L HA31L-TM1  
 HA31L-TM2  
 HA31L-TM3  
 HA31L-TM4

**Side Pole Ribbon Arm w/Top Gusset**

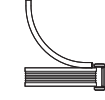
ARM Tenon Mount Wall Mt



HA33L HA33L-TM1  
 HA33L-TM2  
 HA33L-TM3  
 HA33L-TM4

**Side Pole Ribbon Arm w/Top Brace**

ARM Tenon Mount Wall Mt



HA35L HA35L-TM  
 Consult  
 Factory HA35L-W  
 Consult  
 Factory

**Side Pole Ribbon Arm w/Top Brace & Bottom Scroll**

ARM Tenon Mount Wall Mt



HA37L HA37L-TM  
 Consult  
 Factory HA37L-W  
 Consult  
 Factory

**Side Pole Ribbon Arm w/Top Brace & Bottom Gusset**

ARM Tenon Mount Wall Mt



HA38L HA38L-TM  
 Consult  
 Factory HA38L-W  
 Consult  
 Factory