ALT120
ALTITUDE™ LED

Approvals:

Date: 5/22/13
Page: 1 of 5

Specifications

ALT120
Approx. Wt. = 34 lbs.

Housing: One piece, low copper, aluminum extrusion is mechanically secured with stainless steel fasteners to low copper aluminum die-cast electrical compartment and end cap. The electrical compartment includes an integral support arm for mounting directly to a surface mount pole adapter or a horizontal slipfitter. A solid barrier wall separates the optical and electrical compartment for thermal control. Electrical compartment and end cap covers are securely fastened with two hinges and a single latch at each cover. One piece silicone gaskets seal the compartments at the barrier surface.

Optical Module: The high performance optic utilizes the IP66 rated PicoPrism™ technology securely attached to internal heat sink modules producing incredible uniformity and visual comfort. This PicoPrism optic utilizes a canted prism lens aimed toward the task and spreads horizontally to produce high lumen output as well as great uniformity. All the optical modules are fastened to the body of the luminaire across the center as well as around the perimeter.

Electrical Compartment: Available in voltages from 120V through 480V @ 50/60Hz. Class 2 output with power factor >0.9 at full load in accordance with the National Electrical Code, ANSI/NFPA 70. Integral 10kV surge suppression protection standard. To address inrush current, slow blow fuse or type C/TD breaker should be used. All electronic components are UL and CSA recognized and mounted directly to a driver tray for maximum heat dissipation and modularity. Module includes a driver, LifeShield™ temperature control device and surge protector. Driver is rated for -40°C starting and has a 0-10V dimming interface for multi-level illumination options. All electronic components are IP66 rated. 347V and 480V currents may have a step-down transformer.

Support Arm: Die-cast, low copper aluminum with splice access cover and tool-less entry. A die-cast pole adaptor and an internal reinforcing plate are provided with wire strain relief. Arm adaptor is circular cut for specified round pole. For field wire connections, a terminal block is mounted in the arm cavity and accessible behind the splice access cover. Accepts #14 to #8 wire sizes and is factory prewired to electrical module quick-disconnect plug inside the electrical compartment.

Optional Horizontal Slip-fitter: Cast low copper aluminum with stamped, splice access cover. A die-cast adaptor plate is provided to secure the luminaire to 1-1/4" to 2" IPS pipe size arms. For field wire connections, a terminal block is mounted in the arm cavity and accessible behind the splice access cover. Accepts #14 to #8 wire sizes and is factory prewired to electrical module quick-disconnect plug inside the electrical compartment.

Optional Wall Mount: The Altitude easily mounts to the wall. A cast aluminum mounting plate is attached to the wall over the junction box. Bolt the Speed Mount to the cover plate. Then install the assembly over the mounting plate. Slide the luminaire into place for hands free wiring and finishing.


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.

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ALT120

ALTITUDE™ LED

5/22/13 • kl_alt120_spec.pdf

<table>
<thead>
<tr>
<th>Type:</th>
<th>BB-SGL-ALT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Job:</td>
<td>Catalog Number: 1SA/ALT3P 70/120L3K240/DB/A-33</td>
</tr>
<tr>
<td>Notes:</td>
<td></td>
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</table>

### Standard Features

#### Mounting
3SY configuration is available for round poles only.

<table>
<thead>
<tr>
<th>Cat. No.:</th>
<th>1SA</th>
<th>2SB</th>
<th>2SL</th>
<th>3ST</th>
<th>3SY</th>
<th>4SC</th>
<th>1SW</th>
</tr>
</thead>
</table>

EPA (Effective Projected Area)

| ALT120 | 0.72 | 1.44 | 1.05 | 1.77 | 1.77 | 1.93 | n/a |

#### Fixtures

Cat. No. designates fixture and light distribution.

- **Housing:**
  - ALT= Altitude

- **Distribution:**
  - □ 1 = Type I
  - □ 2 = Type II
  - □ 3 = Type III
  - □ 4 = Type IV
  - □ 5 = Type V

- **Optic:**
  - P = PicoPrism™

- **Current:**
  - □ 15 = 150 mA
  - □ 70 = 700 mA

#### Light Distribution

- TYPE I
- TYPE II
- TYPE III
- TYPE IV Forward Throw
- TYPE V Square
- TYPE R Right
- TYPE L Left

#### Electrical Module

- **Source:**
  - □ 12OL = 17”W x 30”L

- **Color Temperature:**
  - □ 2K = 580nm Amber
  - □ 3K = 3000K
  - □ 4K = 4000K
  - □ 5K = 5000K

- **Voltage:**
  - □ 120 = 120V
  - □ 208 = 208V
  - □ 230 = 230V
  - □ 277 = 277V
  - □ 347 = 347V
  - □ 480 = 480V

---

For custom optics and color temperature configurations, contact factory.

Turtle Friendly.
Optional Features

**Finish**

TGIC powder coat.

**Color:**

- Black (BL)
- Dark Bronze (DB)
- Stealth Gray (SG)
- Platinum Silver (PS)
- White (WH)
- Custom Color (CC)

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

**Wall Mounting**

Cat. No.: 1SW

Select from Mounting on page 2.

The Altitude™ easily mounts to the wall. A cast aluminum wall bracket is attached to the wall over the junction box. Bolt the Speed Mount to the cover plate. Then install the assembly over the wall mount bracket. Side the luminaire into place for hands free wiring and finishing.

**Fusing (internal only):**

Cat. No.: (see chart at right)

- No Option

- SF for 120, 277 and 347 Line Volts
- DF for 208, 240 and 480 Line Volts

**Photocell Receptacle**

Cat. No.: A26

- No Option

- Receptacle, 277V

**Lenses**

Cat. No.: (Glass)

- FGL
- FPL (Polycarbonate)

- No Option

**Neighbor Friendly Optic:**

Cat. No.: (Type III/IV)

- NFO

- No Option

Integrated Neighbor Friendly Optic on each PicoPrism™ module to completely control unwanted backlight. Most effective with Type III and IV Distributions.

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Optional Features

Horizontal Slipfitter Mount
Cat. No. □ HSF □ No Option

Replaces standard mounting arm with a cast aluminum fitter to adapt to a horizontal 1 1/2” to 2” pipe-size mounting end (1 1/2” to 2 1/2” OD). The casting has a +/- 5° adjustment to accommodate davit arms that are not horizontal.

Vertical Slipfitter Mounts
Cat. No. includes Mounting Cat. No. (See right) □ No Option

Allows fixture or fixtures with standard mounting arm to mount to a pole with a 2” pipe-size tenon (2 1/2” OD). Minimum 4’ tenon length required.
Specify configuration (1SA, 2SB, 2SL, 3ST, 3SY, 4SC) 4’ round or square aluminum with flush cap. Finish to match fixture and arm.

NOTE: 3Y only available on round slipfitter.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Mounting Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>VSF-1SA</td>
<td>1SA - single arm mount</td>
</tr>
<tr>
<td>VSF-2SB</td>
<td>2SB - 2 at 180°</td>
</tr>
<tr>
<td>VSF-2SL</td>
<td>2SL - 2 at 90°</td>
</tr>
<tr>
<td>VSF-3ST</td>
<td>3ST - 3 at 90°</td>
</tr>
<tr>
<td>VSF-3SY</td>
<td>3SY - 3 at 120°</td>
</tr>
<tr>
<td>VSF-4SC</td>
<td>4SC - 4 at 90°</td>
</tr>
<tr>
<td>□ No Option</td>
<td></td>
</tr>
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</table>

Wireless Control
Cat. No. □ WIM □ No Option

In fixture WiHubb wireless control module features on/off/variable and step dimming, SNAP protocol mesh network, AES-128 encryption detection, occupancy sensor interface and intuitive, user-friendly software. The most comprehensive and up to date information can be found at http://www.hubbell-automation.com/products/wiubb_infixture_module/.

0-10V Dimming Interface
Driver has a 0-10V dimming interface with a dimming range of 10-100%. Approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and NTFTV. Not: Not compatible with current sourcing dimmers.

Warranty
Kim Lighting warrants Altitude™ 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 (PicoPrisms® and, (iv) a period of five (5) years for LED power components (LED Driver, LifeShield® device), from the date of sale of such goods to the buyer as specified in Kim Lighting shipment documents for each product. Occupancy sensors, Surge Protector, dimmers and relay wiring components are covered by the manufacturer's warranty.

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Performance Data

### Spectroradiometric

<table>
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<tr>
<th>Correlated Color Temp. CCT (K)</th>
<th>4K Average</th>
<th>5K Average</th>
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<tbody>
<tr>
<td>Amber (580nm) Average</td>
<td>4200 ± 400</td>
<td>5100 ± 500</td>
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<tr>
<td>Color Rendering Index (CRI)</td>
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<td>Power Factor</td>
<td>95%</td>
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### Electrical Drive Current

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<th>Volts - AC</th>
<th>350mA</th>
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<th>350mA</th>
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<td>Amps - AC</td>
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<td>System Watts</td>
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<td>120</td>
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### Absolute Lumens 350 mA

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<tr>
<th>Temperature</th>
<th>Type I</th>
<th>Type II</th>
<th>Type III</th>
<th>Type III-NFO</th>
<th>Type IV</th>
<th>Type IV-NFO</th>
<th>Type V</th>
<th>Type L/R</th>
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<tbody>
<tr>
<td>ALT60</td>
<td>4000K*</td>
<td>5529</td>
<td>5580</td>
<td>5652</td>
<td>4651</td>
<td>5610</td>
<td>4577</td>
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<tr>
<td>ALT96</td>
<td>5000K</td>
<td>6010</td>
<td>6065</td>
<td>6143</td>
<td>5055</td>
<td>6098</td>
<td>4975</td>
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<td>ALT120</td>
<td>5000K</td>
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<td>10239</td>
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<td>11391</td>
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### Absolute Lumens 700 mA

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<th>Temperature</th>
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<th>Type III</th>
<th>Type III-NFO</th>
<th>Type IV</th>
<th>Type IV-NFO</th>
<th>Type V</th>
<th>Type L/R</th>
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<tbody>
<tr>
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<td>ALT96</td>
<td>5000K</td>
<td>9716</td>
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<td>14680</td>
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<td>12926</td>
<td>13538</td>
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*Data is provided from 5000KIES files.

LED performance and lumen output continues to improve at a rapid pace. Log onto www.kimlighting.com to download the most current photometric files from Kim Lighting's IES File Library. For custom optics and color temperature configurations, contact factory.
**Specifications**

**ALT120**

Approx. Wt. = 34 lbs.

**Housing:** One piece, low copper, aluminum extrusion is mechanically secured with stainless steel fasteners to low copper aluminum die-cast compartment and end cap. The electrical compartment includes an integral support arm for mounting directly to a surface mount pole adapter or a horizontal slipfitter. A solid barrier wall separates the optical and electrical compartment for thermal control. Electrical compartment and end cap covers are securely fastened with two hinges and a single latch at each cover. One piece silicone gaskets seal the compartments at the barrier surface.

**Optical Module:** The high performance optic utilizes the IP66 rated PicoPrism™ technology securely attached to internal heat sink modules producing incredible uniformity and visual comfort. This PicoPrism optic utilizes a canted prism lens aimed toward the task and spreads horizontally to produce high lumen output as well as great uniformity. All the optical modules are fastened to the body of the luminaire across the center as well as around the perimeter.

**Electrical Compartment:** Available in voltages from 120V through 480V @ 50/60Hz. Class 2 output with power factor >0.9 at full load in accordance with the National Electrical Code, ANSI/NFPA 70. Integral 10kV surge suppression protection standard. To address inrush current, slow blow fuse or type C/D breaker should be used. All electronic components are UL and CSA recognized and mounted directly to a dryer tray for maximum heat dissipation and modularity. Module includes a driver, LifeShield™ temperature control device and surge protector. Driver is rated for +40°C starting and has a 0-10V dimming interface for multi-level illumination options. All electronic components are IP66 rated. 347V and 480V currents may have a step-down transformer.

**Support Arm:** Die-cast, low copper aluminum with splice access cover and tool-less entry. A die-cast pole adaptor and an internal reinforcing plate are provided with wire strain relief. Arm adaptor is circular cut for specified round pole. For field wire connections, a terminal block is mounted in the arm cavity and accessible behind the splice access cover. Accepts #14 to #8 wire sizes and is factory prewired to electrical module quick-disconnect plug inside the electrical compartment.

**Optional Horizontal Slip-fitter:** Cast low copper aluminum with stamped, splice access cover. A die-cast adapter plate is provided to secure the luminaire to 1-1/4" to 2" IPS pipe size arms. For field wire connections, a terminal block is mounted in the arm cavity and accessible behind the splice access cover. Accepts #14 to #8 wire sizes and is factory prewired to electrical module quick-disconnect plug inside the electrical compartment.

**Optional Wall Mount:** The Altitude easily mounts to the wall. A cast aluminum mounting plate is attached to the wall over the junction box. Bolt the Speed Mount to the cover plate. Then install the assembly over the mounting plate. Slide the luminaire into place for hands free wiring and finishing.

**Finish:** Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, tricylgid isocyanurate (TGIC) polyester powdercoat finish. Standard colors include (BL) Black, (DB) Dark Bronze, (WH) White, (PS) Platinum Silver, (SG) Stealth Gray, (LG) Light Gray, and (CC) Custom Color (Include RAL#).

**Listed to:** UL 1598 Standard for Luminaires - UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products and CSA C22.2#250.0 Luminaires. RoHS compliant. Meets Buy American provisions within ARRA.

**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.

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**NOTES:**

- *Other Patents Pending.*
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ALT120
ALTITUDE™ LED

Standard Features

Mounting
3SY configuration is available for round poles only.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>1SA</th>
<th>2SB</th>
<th>2SL</th>
<th>3ST</th>
<th>3SY</th>
<th>4SC</th>
<th>1SW</th>
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</thead>
<tbody>
<tr>
<td>EPA (Effective Projected Area)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ALT120</td>
<td>0.72</td>
<td>1.44</td>
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<td>1.77</td>
<td>1.77</td>
<td>1.93</td>
<td>n/a</td>
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Fixture
Cat. No. designates fixture and light distribution.

<table>
<thead>
<tr>
<th>Housing</th>
<th>Optic</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALT = Altitude</td>
<td>P = PicoPrism™</td>
</tr>
</tbody>
</table>

Distribution:
- 1 = Type I
- 2 = Type II
- 3 = Type III
- 4 = Type IV
- 5 = Type V

Current:
- 45 = 150 mA
- 70 = 700 mA

Light Distribution:
- Type I
- Type II
- Type III
- Type IV
- Type V
- Type R
- Type L

Electrical Module

<table>
<thead>
<tr>
<th>Source</th>
<th>Color Temperature:</th>
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</thead>
<tbody>
<tr>
<td>120L = 17”W x 30”L</td>
<td>2K = 580nm Amber¹</td>
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<tr>
<td>3K = 3000K</td>
<td>5K = 5000K</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 = 120V</td>
</tr>
<tr>
<td>208 = 208V</td>
</tr>
<tr>
<td>240 = 240V</td>
</tr>
<tr>
<td>277 = 277V</td>
</tr>
<tr>
<td>347 = 347V</td>
</tr>
<tr>
<td>480 = 480V</td>
</tr>
</tbody>
</table>

¹For custom optics and color temperature configurations, contact factory.
²Turtle Friendly.
Optional Features

Finish
TGIC powder coat.


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

Wall Mounting
Cat. No. 1SW
Select from Mounting on page 2.

The Altitude™ easily mounts to the wall. A cast aluminum wall bracket is attached to the wall over the junction box. Bolt the Speed Mount to the cover plate. Then install the assembly over the wall mount bracket. Side the luminaire into place for hands free wiring and finishing.

Fusing (internal only):
Cat. No. [see chart at right]
[ ] No Option

High temperature fuse holders factory installed inside the fixture housing. Fuse is included.
Cat. No. [SF] for 120, 277 and 347 Line Volts
[DF] for 208, 240 and 480 Line Volts

Photocell Receptacle
Cat. No. [A26]
[ ] No Option

Rotatable photocell receptacle provided for NEMA base photocell (by others).

Lenses
Cat. No. [FGL] (Glass)
[ ] No Option

One-piece flat glass or polycarbonate lens slips into reveal. Extra silicone gasketing will be provided to retain a clear optical compartment. (Only available for 350mA systems).

CAUTION: Use only when vandalism is anticipated to be high.

Neighbor Friendly Optic:
Cat. No. [NFO]
[ ] No Option

Integrated Neighbor Friendly Optic on each PicoPrism™ module to completely control unwanted backlight. Most effective with Type III and IV distributions.
Optional Features

Horizontal Slipfitter Mount
Cat. No. □ HSF □ No Option
Replaces standard mounting arm with a cast aluminum fitter to adapt to a horizontal 1 3/4” to 2” pipe-size mounting end (1 5/8” to 2 3/8” OD). The casting has a +/- 5° adjustment to accommodate davit arms that are not horizontal.

Vertical Slipfitter Mounts
Cat. No. includes Mounting Cat. No. (See right) □ No Option
Allows fixture or fixtures with standard mounting arm to mount to a pole with a 2” pipe-size tenon (2 3/8” OD). Minimum 4’ tenon length required.
Specify configuration (1SA, 2SB, 2SL, 3ST, 3SY, 4SC) 4’ round or square aluminum with flush cap. Finish to match fixture and arm.

NOTE: 3Y only available on round slipfitter.

Wireless Control
Cat. No. □ WII-M □ No Option
In fixture WiHub® wireless control module features on/off/variable and step dimming, SNAP protocol mesh network, AES-128 encryption detection, occupancy sensor interface and intuitive, user-friendly software. The most comprehensive and up to date information can be found at http://www.hubbell-automation.com/products/wihubb_infixture_module/.

0-10V Dimming Interface
Driver has a 0-10V dimming interface with a dimming range of 10-100%. Approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and NTFTV. Note: Not compatible with current sourcing dimmers.

Warranty
Kim Lighting warrants Altitude™ 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 (PicoPrisms™) and, (iv) a period of five (5) years for LED power components (LED Driver, LifeShield® device), from the date of sale of such goods to the buyer as specified in Kim Lighting shipment documents for each product. Occupancy sensors, Surge Protector, dimmers and relay wiring components are covered by the manufacturer’s warranty.
**Performance Data**

### Spectroradiometric

<table>
<thead>
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<th>Type</th>
<th>Temperature</th>
<th>Type I</th>
<th>Type II</th>
<th>Type III</th>
<th>Type III NFO</th>
<th>Type IV</th>
<th>Type IV NFO</th>
<th>Type V</th>
<th>Type L/R</th>
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### Electrical Drive Current

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### B.U.G. Rating (TM15) in Lumens where B = Backlight, U = Uplight, G = Glare

<table>
<thead>
<tr>
<th>Type</th>
<th>Temperature</th>
<th>Type I</th>
<th>Type II</th>
<th>Type III</th>
<th>Type III NFO</th>
<th>Type IV</th>
<th>Type IV NFO</th>
<th>Type V</th>
<th>Type L/R</th>
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<tbody>
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### Absolute Lumens 350 mA

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### Absolute Lumens 700 mA

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LED performance and lumen output continues to improve at a rapid pace. Log onto www.kimlighting.com to download the most current photometric files from Kim Lighting’s IES File Library. For custom optics and color temperature configurations, contact factory.

*Data is provided from 5000K IES files.*

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