



Specification grade area lights with multi-level motion sensor available in IES Type III distribution. For use for roadway, general parking and other area lighting applications where a larger pool of lighting is required. Patent pending thermal management system. 5 Year Warranty.

Color: Gray

Weight: 32.0 lbs

|                     |              |
|---------------------|--------------|
| <b>Project:</b>     | <b>Type:</b> |
| <b>Prepared By:</b> | <b>Date:</b> |

| Driver Info  |                  | LED Info        |        |
|--------------|------------------|-----------------|--------|
| Type:        | Constant Current | Watts:          | 78W    |
| 120V:        | 0.66A            | Color Temp:     | 3000K  |
| 208V:        | 0.41A            | Color Accuracy: | 82 CRI |
| 240V:        | 0.35A            | L70 Lifespan:   | 100000 |
| 277V:        | 0.30A            | Lumens:         | 5,567  |
| Input Watts: | 79W              | Efficacy:       | 70 LPW |
| Efficiency:  | 98%              |                 |        |

## Technical Specifications

### Listings

#### UL Listing:

Suitable for wet locations as a downlight.

#### IESNA LM-79 & IESNA LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and 80, and have received the Department of Energy "Lighting Facts" label.

#### Dark Sky Approved:

The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire.

#### DLC Listed:

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.

DLC Product Code: P2RMJH96

### LED Characteristics

#### Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

#### LEDs:

Six (6) multi-chip, 13W, high-output, long-life LEDs.

#### Color Consistency:

3-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color.

#### Color Stability:

LED color temperature is warranted to shift no more than 200K in CCT over a 5 year period.

#### Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2011.

### Construction

#### IES Classification:

The Type III distribution is ideal for roadway, general parking and other area lighting applications where a larger pool of lighting is required. It is intended to be located near the side of the area, allowing the light to project outward and fill the area.

#### IP Rating:

Ingress Protection rating of IP66 for dust and water.

#### Ambient Temperature:

Suitable for use in 40°C ambient temperatures.

#### Cold Weather Starting:

The minimum starting temperature is -40°C/-40°F

#### Thermal Management:

Superior heat sinking with external Air-Flow fins.

#### Effective Projected Area:

EPA = 0.75

#### Housing:

Die cast aluminum housing, lens frame and mounting arm.

#### Reflector:

Specular vacuum-metallized polycarbonate

#### Gaskets:

High temperature silicone gaskets.

### Finish:

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals.

### Green Technology:

Mercury and UV free. RoHS compliant components. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.

### For use on LEED Buildings:

IDA Dark Sky Approval means that this fixture can be used to achieve LEED Credits for Light Pollution Reduction.

### Electrical

#### Driver:

Constant Current, Class 2, 2000mA, 100-277V, 50-60Hz, 1.1A, Power Factor 99%

#### THD:

4.4% at 120V, 12.4% at 277V

#### Surge Protection:

4kV

#### Surge Protector:

ALED78 is available with a 6kV surge protector (SP6). SP6 available .

#### Dimming Driver:

Driver includes dimming control for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims as low as 10%.

## Technical Specifications (continued)

### Optical

#### Replacement:

The ALED78 replaces 250W Metal Halide Area Lights.

#### BUG Rating:

B1 U0 G2

### Other

#### California Title 24:

ALED3T78/D10 with the 0-10V driver option complies with 2013 California Title 24 building and electrical codes as a commercial outdoor pole-mounted fixture > 75 Watts mounted up to 24 feet when used with the RAB Stealth Dimmer. Use STLDIM10 to order a Stealth Dimmer module. Mounting heights greater than 24 feet require only a photocell. See ALED3T78/PCS, ALED3T78/PCS2 or ALED3T78/PCT for photocell versions.

#### Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

#### Patents:

The ALED design is protected by patents in the U.S. Pat. 668,370, Canada Pat. 144956, China ZL201230100154.X, and Mexico Pat. 38423. Pending patents in Taiwan.

#### Country of Origin:

Designed by RAB in New Jersey and assembled in the USA by RAB's IBEW Local 3 workers.

#### Buy American Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Buy American Act.

#### Recovery Act (ARRA) Compliant:

This product complies with the 52.225-21 "Required Use of American Iron, Steel, and Manufactured Goods-- Buy American Act-- Construction Materials (October 2010).

#### Trade Agreements Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Trade Agreements Act.

#### GSA Schedule:

Suitable in accordance with FAR Subpart 25.4.

### Sensor Specifications

#### Operating Voltage:

120V or 277V

#### Power Consumption:

1W

#### 0-10V Sinking Current:

50mA

#### Adjustable High and Low Modes:

High: 0-10V; Low: off, 0-9.8V

#### Adjustable Time Delay:

Amount of time in high mode with no motion before switching to low mode: 5 min., 1 -30 min.

#### Adjustable Cut Off Delay:

Time in which the fixture will remain on low mode with no motion before turning off and waiting for new motion to turn on: None, 1 -60 min., 1 -5 hrs.

#### Adjustable Sensitivity:

None, low, medium, maximum

#### Adjustable Setpoint:

None, 1 to 250 fc, auto

#### Adjustable Ramp Up and Fade Down Times:

1 to 60 sec.

#### Operating Temperature:

-40°F/-40°C. to 167°F (-40°C to +75°C)

#### Operating Humidity:

20% to 90% noncondensing

#### Relay Life Rating:

200,000 cycles (120/277VAC), 50,000 cycles (230VAC)

#### IP Rating:

Ingress Protection rating of IP66 for dust and water.

#### UL Listing:

Suitable for Wet Locations as factory installed.

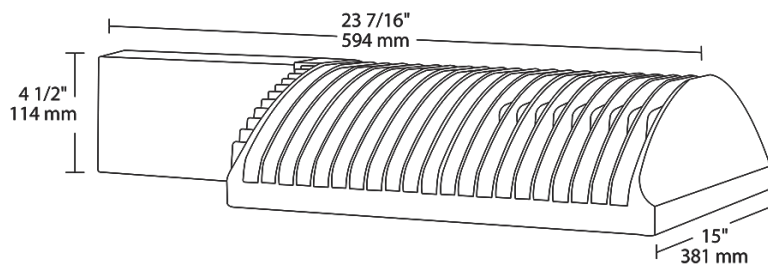
#### Handheld Wireless Configuration Tool:

Adjust settings using handheld wireless configuration tool. Only available with 0-10V dimming driver options.

#### Multi Level Motion Sensor:

40 ft. diameter coverage from 20 ft. height.

### Dimensions



### Features

- Includes integrated motion sensor/photocell for multi-level control
- 66% energy cost savings vs. HID
- 100,000-hour LED lifespan
- Type III distribution
- 5-year warranty

## Ordering Matrix

| Family | Distribution  | Watts    | Color Temp    | Finish    | Dimming         | Sensor  |
|--------|---------------|----------|---------------|-----------|-----------------|---|
| ALED   |               |          |               |           |                 |   |
|        | 2T = Type II  | 360 =    | Blank = 5000K | Blank =   | Blank = No      | /WS2 = Multi-Level Motion Sensor - only available for 120-277V with /D10 for  |
|        | 3T = Type III | 360W     | (Cool)        | Bronze    | Dimming         | 105W  |
|        | 4T = Type IV  | 260 =    | Y = 3000K     | W = White | /D10 = Dimmable | /WS4 = Multi-Level Motion Sensor - only available for 120-277V with /D10 for  |
|        |               | 260W     | (Warm)        | RG = Gray |                 | 260W, 125W & 150W   |
|        |               | 150 =    | N = 4000K     |           |                 | /WS10 = Multi-Level Motion Sensor - only available for 120-277V with /D10 for |
|        |               | 150W     | (Neutral)     |           |                 | 360W  |
|        |               | 125 =    |               |           |                 |   |
|        |               | 125W     |               |           |                 |   |
|        |               | 105 =    |               |           |                 |   |
|        |               | 105W     |               |           |                 |   |
|        |               | 78 = 78W |               |           |                 |   |