

Specification grade area lights with multi-level motion sensor available in IES Type IV distribution. Suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. Patent pending 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:         | 5,925  |
| Input Watts: | 80W              | Efficacy:       | 74 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: PJHNCRPD

### 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 IV distribution (also known as a Forward Throw) is especially suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. It produces a semiCircular distribution with essentially the same candlepower at lateral angles from 90° to 270°.

#### Effective Projected Area:

EPA = 0.75

#### 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.

#### Housing:

Die cast aluminum housing, lens frame and mounting arm.

#### IP Rating:

Ingress Protection rating of IP66 for dust and water.

#### 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:

5.0% at 120V, 13% 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:

ALED4T78/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 ALED4T78/PCS, ALED4T78/PCS2 or ALED4T78/PCT for photocell versions.

#### 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.

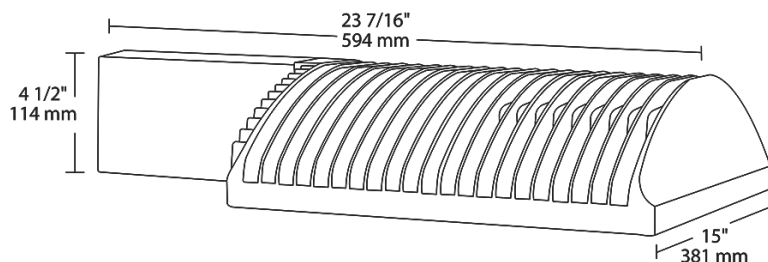
#### Handheld Wireless Configuration Tool:

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 IV 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 105W              |
|        | 3T = Type III | 360W     | (Cool)        | Bronze    | Dimming         |  |
|        | 4T = Type IV  | 260 =    | Y = 3000K     | W = White | /D10 = Dimmable | /WS4 = Multi-Level Motion Sensor - only available for 120-277V with /D10 for 260W, 125W & 150W |
|        |               | 260W     | (Warm)        | RG = Gray |                 |  |
|        |               | 150 =    | N = 4000K     |           |                 | /WS10 = Multi-Level Motion Sensor - only available for 120-277V with /D10 for 360W             |
|        |               | 150W     | (Neutral)     |           |                 |  |
|        |               | 125 =    |               |           |                 |  |
|        |               | 125W     |               |           |                 |  |
|        |               | 105 =    |               |           |                 |  |
|        |               | 105W     |               |           |                 |  |
|        |               | 78 = 78W |               |           |                 |  |