



Full Cutoff mounting. Mounts to square steel poles at 20 - 30 ft, up to 4 fixtures per pole. Patent Pending thermal management system. 100,000 hour L70 lifespan. 5 Year Warranty.

Color: Bronze

Weight: 26.0 lbs

**Project:**

**Type:**

**Prepared By:**

**Date:**

## Driver Info

Type: Constant Current  
120V: 0.95A  
208V: 0.59A  
240V: 0.51A  
277V: 0.44A  
Input Watts: 113W  
Efficiency: 92%

## LED Info

Watts: 104W  
Color Temp: 5100K (Cool)  
Color Accuracy: 69 CRI  
L70 Lifespan: 100,000  
Lumens: 10,026  
Efficacy: 88 LPW

## Technical Specifications

### Listings

#### UL Listing:

UL Suitable for Wet Locations as Uplight and Downlight.

#### Dark Sky Approved:

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

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

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

#### DLC Listed:

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

### Construction

#### IP Rating:

Ingress Protection rating of IP66 for dust and water.

#### Effective Projected Area:

EPA = 2.0

#### Cold Weather Starting:

Minimum starting temperature is -40°F / -40°C.

#### Ambient Temperature:

Suitable for use in 40°C (104°F) ambient temperatures.

#### Thermal Management:

Superior thermal management with external Air-Flow fins.

#### Housing:

Precision die cast aluminum housing, lens frame.

#### Arm:

Die-cast aluminum with wiring access plate.

#### Lens:

Tempered glass.

#### Reflector:

Specular vacuum metallized polycarbonate.

#### Gaskets:

High-temperature silicone.

#### 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, and RoHS compliant.

### Other

#### Full Cutoff Mount:

Full cutoff 0° mount. Die-cast aluminum wall bracket with (5) 1/2" conduit openings with plugs. Two piece bracket with tether for ease of installation and wiring.

#### California Title 24:

See ALEDFC104/BL, ALEDFC104/PCT or ALEDFC104/480/PCT4 for a 2013 California Title 24 compliant product. Any additional component requirements will be listed in the Title 24 section under technical specifications on the product page.

#### Patents:

The design of the ALED104 is protected by patents pending in US, Canada, China, Taiwan and Mexico.

#### 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.

#### 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.

### LED Characteristics

#### LEDs:

Four multi-chip, high-output, long-life LEDs.

## Technical Specifications (continued)

### LED Characteristics

#### Lifespan:

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

#### Color Accuracy (CRI):

70 CRI

#### Correlated Color Temp. (Nominal CCT):

5100K

#### Color Consistency:

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

#### Color Stability:

LED color temperature is warrantied 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.

### Electrical

#### Driver:

Constant current, Class 1, 100-277V, 50/60 Hz, 4kV Surge Protection, 700mA, 100-277V = 0.95A, Power Factor 99.7%.

#### THD:

4.5% at 120V, 9.8% at 277V

#### Input Watts:

113W

### Optical

#### Output Lumens:

8916

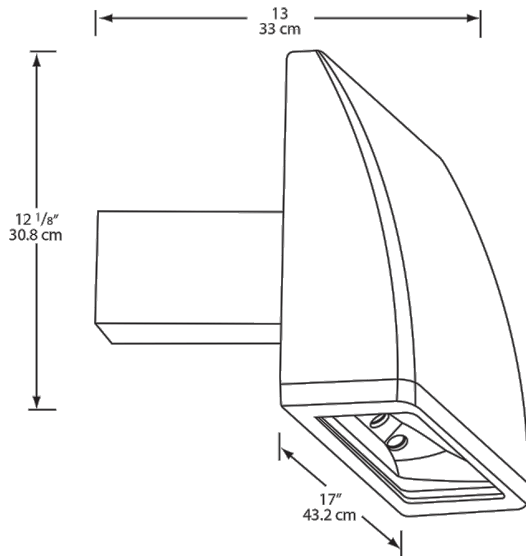
#### Fixture Efficacy:

79 Lumens per Watt

#### BUG Rating:

B2 U0 G1

### Dimensions



### Features

75% energy savings

Superior heat sinking with die cast aluminum housing and external fins

100,000-hour LED lifespan

5-year warranty

### Ordering Matrix

Family	Cutoff	Watts	Color Temp	Finish	Voltage	Photocell	Bi-Level
ALED							
	= Standard	104 = 104W	= Cool	= Bronze	= 120-277V	= No Photocell	= No Bi-Level
	C = Cutoff		Y = Warm	W = White	/480 = 480V	/PCT = 120-277V Twistlock	/BL = Bi-Level
	FC = Full Cutoff		N = Neutral			/PCT4 = 480V Twistlock	