# ALEDFC104YW

**RAB** LIGHTING



Full Cutoff mounitng. 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: White                    Weight: 26.0 lbs

| Project: | | Type: | |
|---|---|---|---|
| **Prepared By:** | | **Date:** | |

## Driver Info

| | | **LED Info** | |
|---|---|---|---|
| Type: | Constant Current | Watts: | 104W |
| 120V: | 0.95A | Color Temp: | 3000K (Warm) |
| 208V: | 0.59A | Color Accuracy: | 82 CRI |
| 240V: | 0.51A | L70 Lifespan: | 100,000 |
| 277V: | 0.44A | Lumens: | 8,716 |
| Input Watts: | 106W | Efficacy: | 82 LPW |
| Efficiency: | 98% | | |

## 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.

**RAB** LIGHTING

## Technical Specifications (continued)

### LED Characteristics

**Lifespan:**

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

**Color Accuracy (CRI):**

83 CRI

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

3000K

**Color Consistency:**

3-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 99.6%.

**THD:**

4.3% at 120V, 8.6% at 277V
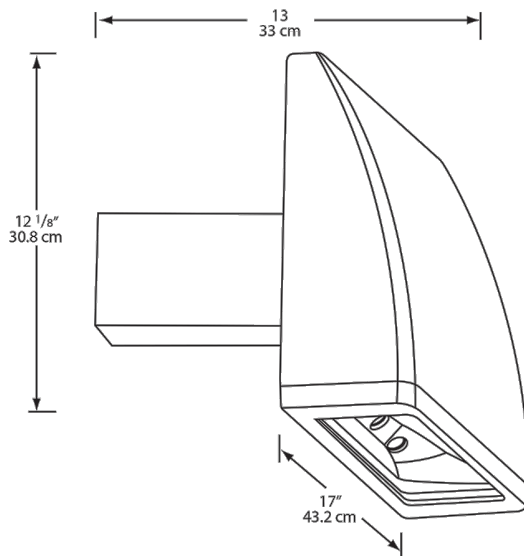
**Input Watts:**

114W.

### Optical

**Output Lumens:**

6481

**Fixture Efficacy:**

57.1 Lumens per Watt

**BUG Rating:**

B1 U0 G1

### Dimensions



13
33 cm

12 1/8″
30.8 cm

17″
43.2 cm

### 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 | |

Need help? Tech help line: **888 RAB-1000** Email: **sales@rabweb.com** Website: **www.rabweb.com**

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