

# ALED4T78Y/480/PCS4



Specification Grade Area lights available in IES Type IV distributions. For use in parking lots, roadways, pathways and general area lighting. Mounts to 4" square steel poles at 15-25'. Designed to replace 250W Metal Halide Area Lights. Patent Pending thermal management system. 5 Year Warranty.

Color: Bronze

Weight: 32.0 lbs

Project:

Type:

Prepared By:

Date:

### Driver Info

|              |                  |
|--------------|------------------|
| Type:        | Constant Current |
| 120V:        | N/A              |
| 208V:        | N/A              |
| 240V:        | N/A              |
| 277V:        | N/A              |
| Input Watts: | 79W              |
| Efficiency:  | 99%              |

### LED Info

|                 |              |
|-----------------|--------------|
| Watts:          | 78W          |
| Color Temp:     | 3000K (Warm) |
| Color Accuracy: | 82 CRI       |
| L70 Lifespan:   | 100,000      |
| Lumens:         | 6,129        |
| Efficacy:       | 78 LPW       |

## Technical Specifications

### Other

#### ALED4T78 with Photocell:

480V Swivel Photocell Included. Photocell is only compatible with 347-480V.

#### California Title 24:

ALED4T78/480/PCS4 with the swivel photocell (480V) option complies with 2013 California Title 24 building and electrical codes as a commercial outdoor pole-mounted fixture > 75 Watts at mounting heights greater than 24 feet.

#### 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.

### 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.

#### DLC Listed:

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

#### Dark Sky Approved:

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

### Optical

#### Lumen Maintenance:

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

#### Replacement:

The ALED78 replaces 250W Metal Halide Area Lights.

#### BUG Rating:

B0 U0 G2

### 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°F/-40°C.

#### Thermal Management:

Superior heat sinking with external Air-Flow fins.

#### 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.

## Technical Specifications (continued)

### Construction

#### For use on LEED Buildings:

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

### LED Characteristics

#### 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 C78.377-2008.

### Electrical

#### Driver:

Constant Current, Class 2, 2000mA, 480V, 50-60Hz, 0.171A, Power Factor 96.4%

#### THD:

10.3% at 480V

#### Surge Protection:

4kV

#### Surge Protector:

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

# ALED4T78Y/480/PCS4

## Dimensions



## Features

- High output LED light engine
- Maintains 70% of initial lumens at 100,000 hours
- Weatherproof high temperature silicone gaskets
- Superior heat sinking with die cast aluminum housing and external fins
- Replaces 250W MH area lights
- 5-year warranty

## Ordering Matrix

| Family | Distribution  | Watts    | Mount           | Color Temp  | Finish    | Voltage     | Photocell                 | Dimming         | Bi-Level       |
|--------|---------------|----------|-----------------|-------------|-----------|-------------|---------------------------|-----------------|----------------|
| ALED   |               |          |                 |             |           |             |                           |                 |                |
|        | 2T = Type II  | 78 = 78W | = Arm           | = Cool      | = Bronze  | = 120-277V  | = No Photocell            | = No Dimming    | = No Bi-Level  |
|        | 3T = Type III |          | SF = Slipfitter | Y = Warm    | W = White | /480 = 480V | /PC = 120V Button         | /D10 = Dimmable | /BL = Bi-Level |
|        | 4T = Type IV  |          |                 | N = Neutral | RG = Gray |             | /PC2 = 277V Button        |                 |                |
|        |               |          |                 |             |           |             | /PCS = 120V Swivel        |                 |                |
|        |               |          |                 |             |           |             | /PCS2 = 277V Swivel       |                 |                |
|        |               |          |                 |             |           |             | /PCT = 120-277V Twistlock |                 |                |
|        |               |          |                 |             |           |             | /PCS4 = 480V Swivel       |                 |                |