# ALED3T78SFY/480/PCS4



Specification Grade Area lights available in IES Type III 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: Prepared By: Driver Info		Туре:	
		Date:	
		LED Info	
Туре:	Constant Current	Watts:	78W
120V:	N/A	Color Temp:	3000K (Warm)
208V:	99.4% at 347V PF	Color Accuracy:	82 CRI
240V:	96.4% PF 480V,	L70 Lifespan:	100,000
277V:	82 CRI	Lumens:	6,190
		Efficacy:	78 LPW
Input Watts:	80W	Enicacy.	10 11 11



### **Technical Specifications**

#### Other

#### ALED3T78 with Photocell:

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

#### California Title 24:

ALED3T78/480/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.

# **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.

#### 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. **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:

B1 U0 G2

## 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°F/-40°C.

#### **Thermal Management:**

Superior heat sinking with external Air-Flow fins.

#### Effective Projected Area:

EPA = 2.2

#### 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.

### 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 C78.377-2008.

#### Electrical

#### Driver:

Constant Current, Class 2, 2000mA, 480V, 50-60Hz, 0.172A, Power Factor 96.4%

#### THD:

10.6% at 480V

### Surge Protection:

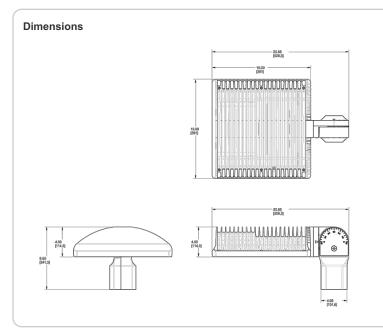
4kV

### Surge Protector:

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



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# Ordering Matrix

#### Family Distribution Watts Mount Color Temp Finish Voltage Photocell Dimming Bi-Level ALED = No Bi-Level **78** = 78W 2T = Type II = Arm = Cool = Bronze = 120-277V = No Photocell = No Dimming 3T = Type III SF = Slipfitter Y = Warm W = White **/480** = 480∨ /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

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### 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