# ALED3T78SFNW/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: White Weight: 32.0 lbs

Project:	Туре:
Prepared By:	Date:

Driver Info		LED Info		
Туре:	Constant Current	Watts:	78W	
120V:	N/A	Color Temp:	4000K (Neutral)	
208V:	99.1% PF 347V, 1	Color Accuracy:	83 CRI	
240V:	96.5% PF 480, 10	L70 Lifespan:	100,000	
277V:	83 CRI	Lumens:	6,536	
Input Watts:	80W	Efficacy:	81 LPW	
Efficiency:	97%			



# **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 polemounted 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

## 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.

## 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.

### **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.

#### For use on LEED Buildings:

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

# **Technical Specifications (continued)**

# **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 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 96.5%

## THD:

10% at 480V

## **Surge Protection:**

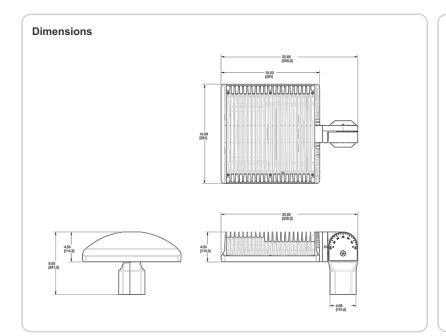
4kV

# **Surge Protector:**

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

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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

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