# ALED4T78W/PCS





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: White Weight: 32.0 lbs

Project:	Туре:
Prepared By:	Date:

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Driver Info		LED Info		
Type:	Constant Current	Watts:	78W	
120V:	0.66A	Color Temp:	5100K (Cool)	
208V:	N/A	Color Accuracy:	67 CRI	
240V:	N/A	L70 Lifespan:	100,000	
277V:	N/A	Lumens:	7,564	
Input Watts:	79W	Efficacy:	96 LPW	
Efficiency:	99%			



# **Technical Specifications**

#### Other

#### ALED4T78 with Photocell:

120V Swivel Photocell Included. Photocell is only compatible with 120V.

#### California Title 24:

ALED4T78/PCS with the swivel photocell (120V) 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 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.

### Dark Sky Approved:

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

## **DLC Listed:**

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

#### 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 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

#### 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:**

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 C78.377-2008.

## Electrical

#### Driver:

Constant Current, Class 2, 2000mA, 100-277V, 50-60Hz, 1.1A, Power Factor 99%

## THD:

5.1% at 120V, 13.2% at 277V

# **Surge Protection:**

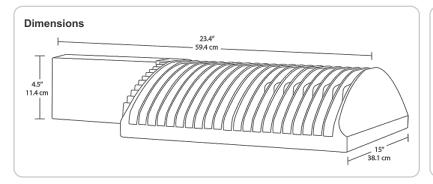
4kV

### **Surge Protector:**

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

# ALED4T78W/PCS





# **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

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