# ALED4T78NW/PC2

**RAB**
LIGHTING

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



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

**Driver Info**

| | |
|---|---|
| Type: | Constant Current |
| 120V: | N/A |
| 208V: | 0.41A |
| 240V: | 0.35A |
| 277V: | 0.30A |
| Input Watts: | 79W |
| Efficiency: | 98% |

**LED Info**

| | |
|---|---|
| Watts: | 78W |
| Color Temp: | 4000K (Neutral) |
| Color Accuracy: | 82 CRI |
| L70 Lifespan: | 100,000 |
| Lumens: | 6,673 |
| Efficacy: | 84 LPW |

# ALED4T78NW/PC2

## Technical Specifications

### Other

**ALED4T78 with Photocell:**

277V Button Photocell Included. Photocell is compatible with 208V-277V.

**California Title 24:**

ALED4T78/PC2 with the button photocell (277V) 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:**

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 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 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%

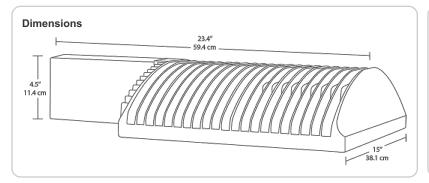**THD:**

4.4% at 120V, 12.8% at 277V

**Surge Protection:**

4kV

**Surge Protector:**

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

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

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# ALED4T78NW/PC2

**RAB** LIGHTING

## Dimensions



23.4″
59.4 cm

4.5″
11.4 cm

15″
38.1 cm

## 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 | | |