

ALED4T78Y/D10



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: | 0.66A |
| 208V: | 0.41A |
| 240V: | 0.35A |
| 277V: | 0.30A |
| Input Watts: | 80W |
| Efficiency: | 98% |

LED Info

| | |
|-----------------|--------------|
| Watts: | 78W |
| Color Temp: | 3000K (Warm) |
| Color Accuracy: | 82 CRI |
| L70 Lifespan: | 100,000 |
| Lumens: | 5,925 |
| Efficacy: | 74 LPW |

Technical Specifications

Other

ALED4T78 with Dimmable Driver:

Driver includes dimming control for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims as low as 10%.

California Title 24:

ALED4T78/D10 with the 0-10V driver option complies with 2013 California Title 24 building and electrical codes as a commercial outdoor pole-mounted fixture > 75 Watts mounted up to 24 feet when used with the RAB Stealth Dimmer. Use STLDIM10 to order a Stealth Dimmer module. Mounting heights greater than 24 feet require only a photocell. See ALED4T78/PCS, ALED4T78/PCS2 or ALED4T78/PCT for photocell versions.

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.

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.

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.

Technical Specifications (continued)

LED Characteristics

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:

5.0% at 120V, 13% at 277V

Surge Protection:

4kV

Surge Protector:

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

Optical

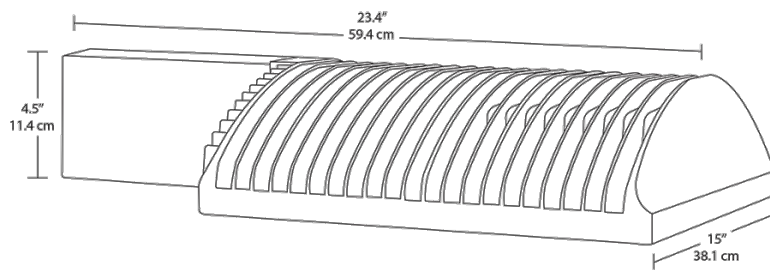
Replacement:

The ALED78 replaces 250W Metal Halide Area Lights.

BUG Rating:

B1 U0 G2

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 | | /PCS = 120V Swivel | | |
| | | | | | | | /PCS2 = 277V Swivel | | |
| | | | | | | | /PCT = 120-277V Twistlock | | |
| | | | | | | | /PCS4 = 480V Swivel | | |