

# ALED4T50SFN/D10



Specification grade area lights available in IES Type IV distributions. Suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. Mounts to 4" square steel poles at 20-35'. Patent pending management system. 5 Year Warranty.

Color: Bronze

Weight: 32.0 lbs

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

| Driver Info  |                  | LED Info        |                 |
|--------------|------------------|-----------------|-----------------|
| Type:        | Constant Current | Watts:          | 50W             |
| 120V:        | 0.46A            | Color Temp:     | 4000K (Neutral) |
| 208V:        | 0.27A            | Color Accuracy: | 82 CRI          |
| 240V:        | 0.23A            | L70 Lifespan:   | 100,000         |
| 277V:        | 0.20A            | Lumens:         | 4,677           |
| Input Watts: | 52W              | Efficacy:       | 90 LPW          |
| Efficiency:  | 97%              |                 |                 |

## Technical Specifications

### Other

#### ALED4T50SF with Dimmable Driver:

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

#### Equivalency:

ALED™ 50W replaces 200W metal halide

#### California Title 24:

See ALED4T50/PC, ALED3T50/PCS or ALED3T50/PCT for a 2013 California Title 24 compliant model.

#### Patents:

The ALED™ design is protected by patents pending in the U.S., Canada, China, Taiwan and Mexico.

#### 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.

#### 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 fixtures 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.

### LED Characteristics

#### Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

#### LEDs:

Multi-chip, 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.

#### 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 C78.377-2011.

### 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 = 2.2

#### 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 patent pending thermal management design with external Air-Flow fins provides maximum operational life, even in high ambient temperature environments.

#### Housing:

Die cast aluminum housing, lens frame and mounting arm.

#### Mounting:

Slipfitter 180° pivot available for mounting on 2 3/8" tenon.

## Technical Specifications (continued)

### Construction

#### 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, and RoHS compliant. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.

### Electrical

#### Driver:

Constant Current, Class 2, 1400mA, 100-277V, 50-60Hz, 0.8A, Power Factor 99%

#### THD:

6.9% at 120V, 7.9% at 277V

### Surge Protection:

6kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2.

### Optical

#### BUG Rating:

B0 U0 G1

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## Features

- 66% energy cost savings vs. HID
- 100,000-hour LED lifespan
- Type IV distribution
- 5-year warranty

## Ordering Matrix

| Family | Distribution                                  | Watts    | Mount                    | Color Temp                        | Finish                             | Voltage                   | Photocell  | Dimming                         | Bi-Level                        |
|--------|---|----------|--------------------------|-----------------------------------|------------------------------------|---------------------------|--|---------------------------------|---------------------------------|
| ALED   |   |          |                          |                                   |                                    |                           |  |                                 |                                 |
|        | 2T = Type II<br>3T = Type III<br>4T = Type IV | 50 = 50W | = Arm<br>SF = Slipfitter | = Cool<br>Y = Warm<br>N = Neutral | = Bronze<br>W = White<br>RG = Gray | = 120-277V<br>/480 = 480V | = No Photocell<br>/PC = 120V Button<br>/PC2 = 277V Button<br>/PCS = 120V Swivel<br>/PCS2 = 277V Swivel<br>/PCT = 120-277V Twistlock<br>/PCS4 = 480V Swivel<br>/PCT4 = 480V Twistlock | = No Dimming<br>/D10 = Dimmable | = No Bi-Level<br>/BL = Bi-Level |