

ALED20DC



LED Area Lights for solar applications or other 10-30 VDC systems. Perfect for off-grid, remote-area lighting. Up to 85% more efficient than line voltage AC solutions. Available in 20 and 26W.

Color: Bronze

Weight: 5.1 lbs

Project:	Type:
Prepared By:	Date:

Driver Info		LED Info	
Type:	DC to DC	Watts:	20W
120V:	N/A	Color Temp:	5000K (Cool)
208V:	N/A	Color Accuracy:	70 CRI
240V:	N/A	L70 Lifespan:	100,000
277V:	N/A	Lumens:	1,401
Input Watts:	24W	Efficacy:	58 LPW
Efficiency:	83%		

Technical Specifications

Listings

UL Listing:

Suitable for wet locations

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.

LED Characteristics

Lifespan:

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

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.

Construction

IP Rating:

Ingress Protection rating of IP66 for dust and water

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.

Housing:

Precision die cast aluminum housing, lens frame and mounting plate.

Gaskets:

High temperature silicone.

Finish:

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals.

Effective Projected Area:

EPA = 0.23.

Green Technology:

RC LEDs are Mercury, Arsenic and UV free.

Cold Weather Starting:

The minimum starting temperature is -40°F/-40°C.

Ambient Temperature:

Suitable for use in 50°C (122°F) ambient temperatures.

EPA:

0.10.

Thermal Management:

Integral cast aluminum mounting pad and external fins for optimal heat sinking to ensure cool operation with maximum LED life and light output.

Two Mounting Options:

Junction Box with 5 Conduit Entry Points and Threaded Plugs for surface mounting plus Cover Plate for mounting over 4" recessed junction box included.

For use on LEED Buildings:

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

Other

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 ALED20 design is protected under patents pending in Canada, U.S., China, Taiwan and Mexico.

Equivalency:

The ALED20 is Equivalent in delivered lumens to a 50W Metal Halide Area Light.

HID Replacement Range:

The ALED20 can be used to replace 35 - 70W Metal Halide Area Lights based on delivered lumens.

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.

Technical Specifications (continued)

Other

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.

Optical

Lumen Maintenance:

The LED will deliver 70% of its initial lumens at 100,000 hours of operation.

Electrical

Total Harmonic Distortion:

THD = 8.4%

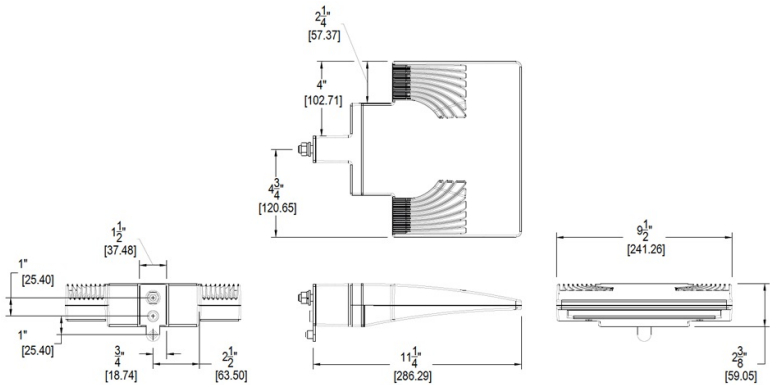
Driver:

Automatic Voltage Sensing Driver for 120-277 volts.

Driver:

Two Multi-chip 10W high output long life LED Driver Constant Current, Class 2

Dimensions



Features

- Low voltage DC
- Ideal for solar applications
- Up to 85% more energy efficient
- No energy-loss from DC-AC inverter
- Enables off-grid, remote-area lighting
- 5-year warranty

Ordering Matrix

Family	Watts	Direct Current
ALED	26 = 26W 20 = 20W	DC = Direct Current