ALED20W

RAB
LIGHTING

Project:		Type:	
Prepared By:		**Date:**	

Driver Info

Type:	Constant Current
120V:	0.19A
208V:	0.12A
240V:	0.10A
277V:	0.08A
Input Watts:	22W
Efficiency:	93%

LED Info

Watts:	20W
Color Temp:	5000K (Cool)
Color Accuracy:	70 CRI
L70 Lifespan:	100,000
Lumens:	1,401
Efficacy:	65 LPW

ALED Area Light mounts to 4" square steel poles at 15-20'. 1 to 4 ALEDs can be mounted to each pole. IESNA Full Cutoff, Fully shielded optics. 5 year warranty.

Color: White   Weight: 5.1 lbs

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.

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%

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RAB LIGHTING
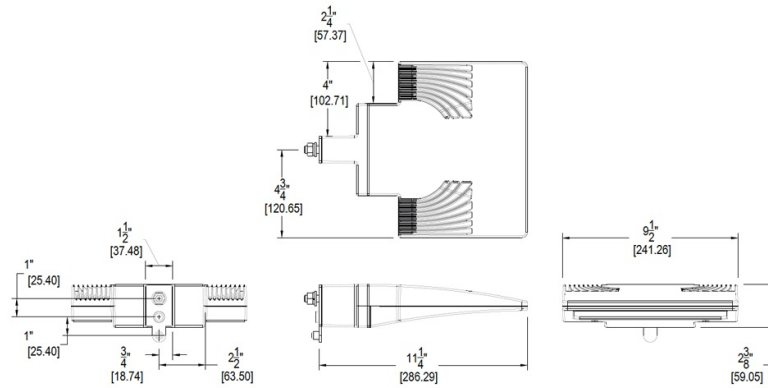
Technical Specifications (continued)

Electrical

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

2 1/4" [57.37]
4" [102.71]
4 3/4" [120.65]
1 1/2" [37.48]
1" [25.40]
1" [25.40]
3/4" [18.74]
2 1/2" [63.50]
11 1/4" [286.29]
9 1/2" [241.26]
2 3/8" [59.05]

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

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Ordering Matrix

Family	Watts	Color Temp	Finish	Photocell
ALED				
	20 = 20W	= Cool	= Bronze	= No Photocell
	13 = 13W	**Y** = Warm	**W** = White	**/PC** = 120V Button
	10 = 10W	**N** = Neutral		**/PC2** = 277V Button

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