

RWLED2T78Y/BL



LED roadway lighting that's easy to buy. Free trial program and leasing options make it easy to get started with LED. Specification-grade optics deliver efficient, clean, uniform light distributions at a reasonable cost. Optics are factory installed and meet IES Lateral Distribution Type II. LROAD™ 78W replaces 250W metal halide roadway fixtures.

Color: Bronze

Weight: 33.0 lbs

Project:	Type:
Prepared By:	Date:

Driver Info		LED Info	
Type:	Constant Current	Watts:	78W
120V:	0.66A	Color Temp:	3000K
208V:	0.41A	Color Accuracy:	82 CRI
240V:	0.35A	L70 Lifespan:	100000
277V:	0.30A	Lumens:	6,132
Input Watts:	79W	Efficacy:	77 LPW
Efficiency:	98%		

Technical Specifications

Other

RWLED2T78 with Bi-Level Operation:

Allows 33%-66%-100% output modes.

Equivalency:

LROAD™ 78W replaces 250W metal halide

California Title 24:

RWLED2T78/BL with bi-level operation 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 a RAB photo/motion control. Select a photo/motion control using catalog number STL110, STL200 or STL360. Mounting heights greater than 24 feet require only a photocell. See RWLED2T78/PCS, RWLED2T78/PCS2 or RWLED2T78/PCT for photocell versions.

Patents:

The LROAD™ 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 ten (10) 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.

Optical

Lumen Maintenance:

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

Replacement:

The LROAD™ replaces 175W Mercury Vapor, 150W HPS/MH roadway fixtures.

Construction

IES Classification:

The Type II distribution is ideal for entrance roadways, collector roads and other long, single-sided and narrow lighting applications. This type of lighting is commonly found on smaller local streets.

Effective Projected Area:

EPA = 0.75

IP Rating:

Ingress Protection rating of IP66 for dust and water.

Vibration Rating:

Industry-leading 5G vibration rating per ANSI C136.31.

Ambient Temperature:

Suitable for use in 40°C ambient temperatures.

Cold Weather Starting:

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

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:

Fits most standard roadway upsweep arms. Adaptor brackets supplied fit 1", 1 1/4", 1 1/2" and 2" OD arms.

Wedge Mounting Option:

Allows field adjustment of +/- 5 degree tilt to achieve a level installation of LROAD78 universal adaptor roadway fixtures.

Recommended Mounting Height:

Up to 25 ft.

Construction

Specular vacuum-metallized polycarbonate

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

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.

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

Electrical

Drivers:

Two Drivers Constant Current, Class 2, 1050mA, 100-277V, 50/60Hz, 0.6A, Power Factor 99%

Surge Protection:

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

Technical drawing of the 1000W heater, showing front and side views with dimensions in millimeters (mm) and inches (in).

Front View Dimensions:

- Total width: 24.40 [9.61]
- Heater element width: 15.00 [5.91]
- Control box width: 9.40 [3.70]
- Total height: 45.00 [1.77]
- Control box height: 4.00 [0.16]

Side View Dimensions:

- Heater element height: 4.50 [0.18]
- Total width: 24.40

Ideal for entrance roadways, collector roads, and single-sided roads
 78W High-Performance LED
 Replaces 250W metal halide roadway fixtures
 27 year lifespan dramatically reduces maintenance and re-lamping costs
 Precision optics deliver maximum downward street side lumens with uniformity and minimal glare
 Compatible with standard roadway arms
 Universal adaptors for 1", 1 1/4", 1 1/2" and 2" OD pipe included
 Industry-leading 5G vibration rating per ANSI C136.31
 Easy-access electrical compartment makes wiring fast and secure
 10-Year no compromise warranty

Family	Distribution	Watts	Color Temp	Finish	Dimming	Voltage	Photocell	Bi-Level
RWLED								
	2T = Type II	78 = 78W	Blank = 5000K (Cool) Y = 3000K (Warm) N = 4000K (Neutral)	Blank = Bronze W = White RG = Gray	Blank = No Dimming /D10 = Dimmable	Blank = 120-277V /480 = 480V	Blank = No Photocell /PCT = 120-277V Twistlock /PCT4 = 480V Twistlock	Blank = No Bi-Level /BL = Bi-Level