# RWLED2T50YW





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™ 50W replaces 200W metal halide roadway fixtures.

Color: White Weight: 33.5 lbs

Project:	Туре:
Prepared By:	Date:

Driver Info		LED Info	
Type:	Constant Current	Watts:	50W
120V:	0.46A	Color Temp:	3000K
208V:	0.27A	Color Accuracy:	82 CRI
240V:	0.23A	L70 Lifespan:	100000
277V:	0.20A	Lumens:	4,237
Input Watts:	52W	Efficacy:	82 LPW
Efficiency:	97%		

# **Technical Specifications**

# 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.

## **DLC Listed:**

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.

DLC Product Code: P00001787

## Optical

### **Lumen Maintenance:**

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

### **BUG Rating:**

B1 U0 G1

### 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 LROAD50 universal adaptor roadway fixtures.

### **Recommended Mounting Height:**

Up to 15 ft.

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

# **LED Characteristics**

### 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 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 C78.377-2011.

## **Electrical**

### Driver:

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



# **Technical Specifications (continued)**

## **Electrical**

#### THD:

7.0% at 120V, 8.4% at 277V

#### **Surge Protection:**

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

#### Other

#### Equivalency:

LROAD™ 50W replaces 200W metal halide

### California Title 24:

See RWLED2T50/PCT for a 2013 California Title 24 compliant model.

#### 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:

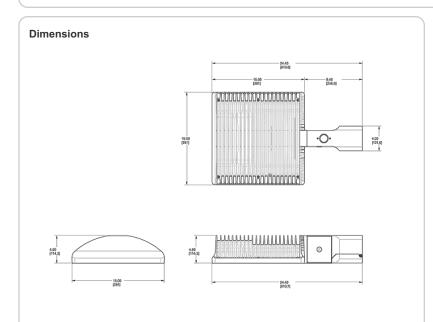
This product complies with the 52.225-21 "Required Use of American Iron, Steel, and Manufactured Goods-- Buy American Act-- Construction Materials (October 2010).

# **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.



#### **Features**

Ideal for entrance roadways, collector roads, and single-sided roads

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

Ordering Matrix									
Family	Distribution	Watts	Color Temp	Finish	Dimming	Voltage	Photocell	Bi-Level	
RWLED									
	2T = Type II	<b>50</b> = 50W	<b>Blank</b> = 5000K (Cool) <b>Y</b> = 3000K (Warm) <b>N</b> = 4000K (Neutral)	Blank = Bronze W = White RG = Gray	Blank = No Dimming /D10 = Dimmable		Blank = No Photocell /PCT = 120-277V Twistlock /PCT4 = 480V Twistlock	Blank = No Bi-Leve /BL = Bi-Level	