# RWLED2T105YW/480

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™ 105W replaces 320W metal halide roadway fixtures.

| LED Info        |              | Driver Info  |                  |
|-----------------|--------------|--------------|------------------|
| Watts:          | 105W         | Туре:        | Constant Current |
| Color Temp:     | 3000K (Warm) | 120V:        | N/A              |
| Color Accuracy: | 82           | 208V:        | N/A              |
| L70 Lifespan:   | 100000       | 240V:        | N/A              |
| LM79 Lumens:    | 8299         | 277V:        | N/A              |
| Efficacy:       | 76 LPW       | Input Watts: | 109W             |
|                 |              | Efficiency:  | 96%              |

# **Technical Specifications**

# UL Listing:

Suitable for wet locations as a downlight.

# Lumen Maintenance:

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

# **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.

LEDs:

Multi-chip, high-output, long-life LEDs

# Drivers:

Two Drivers Constant Current, Class2, 1400mA, 347-480V, 50/60Hz, 0.25A, Power Factor 99%

Ballast Volts: 480∨

# Surge Protection:

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

# 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:

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 LROAD105 universal adaptor roadway fixtures.

#### **Recommended Mounting Height:**

Up to 25 ft.

#### **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.



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Color: White

Weight: 33.5 lbs

#### **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.

# Equivalency:

LROAD<sup>™</sup> 105W replaces 320W metal halide

# Green Technology:

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

# 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.

# California Title 24:

See RWLED2T105/BL, RWLED2T105/PCS, RWLED2T105/PCS2, or RWLED2T105/PCT for a 2013 California Title 24 compliant product. Any additional component requirements will be listed in the Title 24 section under technical specifications on the product page.

#### Dark Sky Approved:

The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire.

# Patents:

The LROAD<sup>™</sup> 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.



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