



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 Distribution Type IV. LROAD™ 105W replaces 320W metal halide roadway fixtures.

Color: White

Weight: 33.5 lbs

Project:

Type:

Prepared By:

Date:

#### Driver Info

Type	Constant Current
120V	0.89A
208V	0.58A
240V	0.50A
277V	0.44A
Input Watts	109.4W

#### LED Info

Watts	105W
Color Temp	5000K (Cool)
Color Accuracy	70 CRI
L70 Lifespan	100,000 Hours
Lumens	13,680
Efficacy	125 lm/W

## Technical Specifications

### Compliance

#### UL Listed:

Suitable for wet locations as a downlight

#### 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: P00001786

#### IESNA LM-79 & IESNA LM-80 Testing:

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

### Performance

#### Lifespan:

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

### Construction

#### IES Classification:

The Type IV distribution (also known as a Forward Throw) is especially suited for illuminating the perimeter of parking areas and for intersections. It produces a semicircular distribution with essentially the same candlepower at lateral angles from 90° to 270°.

#### 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 up to 40°C (104°F)

#### Cold Weather Starting:

The minimum starting temperature is -40°C (-40°F)

#### Thermal Management:

Superior thermal management design with external Air-Flow fins provides maximum operational life, even in high ambient temperature environments

#### Lens:

Tempered glass lens

#### 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.

## Technical Specifications (continued)

### Construction

#### Wedge Mounting Option:

Allows field adjustment of +/- 5 degree tilt to achieve a level installation of LROAD105 universal adaptor roadway fixtures. [Wedge Mounting available here.](#)

#### Recommended Mounting Height:

Up to 25 ft

#### Reflector:

Specular vacuum-metallized polycarbonate

#### Gaskets:

High-temperature silicone gaskets

#### Finish:

Formulated for high durability and long-lasting color

#### Green Technology:

Mercury and UV free. RoHS-compliant components.

### LED Characteristics

#### LEDs:

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

#### Color Consistency:

7-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 color temperature over a 5-year period

#### Color Uniformity:

RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

### Electrical

#### Drivers:

Two Drivers Constant Current, Class2, 1400mA, 100-277V, 50/60Hz, 0.8A, Power Factor 99%

#### THD:

5.9% at 120V, 11.9% at 277V

#### Power Factor:

99.6% at 120V, 94.5% at 277V

#### Photocell:

120-277V Twistlock photocell included. Photocell is compatible with 120-277V.

#### Surge Protection:

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

### Other

#### 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. RAB's warranty is subject to all terms and conditions found at [rablighting.com/warranty](http://rablighting.com/warranty).

#### Equivalency:

Replaces 320W Metal Halide

#### Buy American Act Compliance:

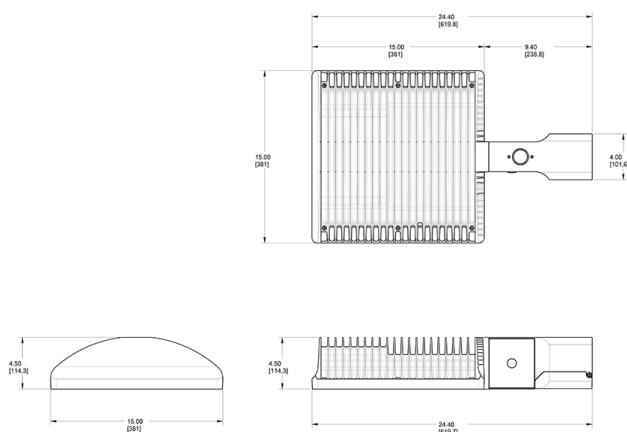
RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

### Optical

#### BUG Rating:

B1 U0 G2

## Dimensions



## Features

- Ideal for parking areas and for intersections
- 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	Wattage	Mounting	Color Temp	Finish	Options	Other Options
RWLED	4T	105			W	/PCT	
	4T = Type IV 3T = Type III 2T = Type II	50 = 50W 78 = 78W 105 = 105W 125 = 125W 150 = 150W	Blank = Roadway Arm SF = Slipfitter	Blank = 5000K Cool N = 4000K Neutral Y = 3000K Warm	Blank = Bronze RG = Gray W = White	Blank = No Option /PCT = 120-277V Twistlock Photocell /PCS = 120V Swivel Photocell /PCS2 = 277V Swivel Photocell /BL = Bi-Level Control /D10 = 0-10V Dimming /480 = 480V Driver /480/PCS4 = 480V w/ 480V Swivel Photocell /480/PCT4 = 480V w/ 480V Twistlock Photocell	Blank = Standard USA = BAA Compliant