

**RAB**  
LIGHTING



## 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: P00001786

### Optical

#### Lumen Maintenance:

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

#### BUG Rating:

B1 U0 G2

### 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 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 LROAD105 universal adaptor roadway fixtures.

#### Recommended Mounting Height:

Up to 25 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:

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 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

#### Photocell:

120V-277V Photocell Twist

## Technical Specifications (continued)

### Electrical

#### Drivers:

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

#### THD:

7.6% at 120V, 16.5% at 277V

#### Surge Protection:

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

### Other

#### Equivalency:

LROAD™ 105W replaces 320W metal halide

#### California Title 24:

RWLED4T105/PCT with the twistlock photocell option complies with 2013 California Title 24 building and electrical codes as a commercial outdoor pole-mounted fixture > 75 Watts at mounting heights greater than 24 feet.

#### 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).

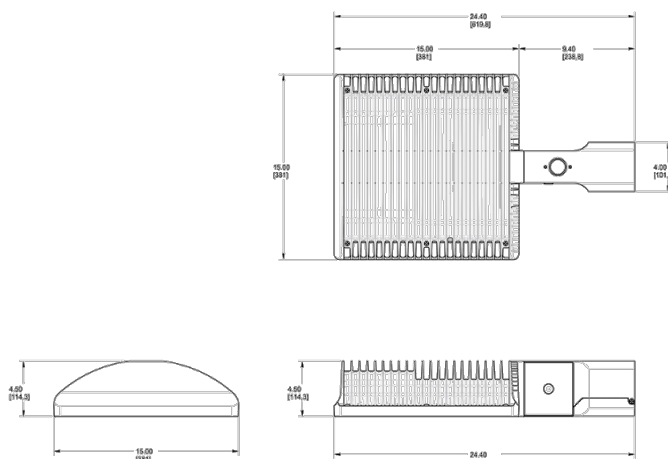
#### Trade Agreements Act Compliant:

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.

## 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	Watts	Color Temp	Finish	Voltage	Photocell	Bi-Level
RWLED							
	4T = Type IV	105 = 105W	Blank = 5000K (Cool) Y = 3000K (Warm) N = 4000K (Neutral)	Blank = Bronze W = White RG = Gray	Blank = 120-277V /480 = 480V	Blank = No Photocell /PCT = 120-277V Twistlock /PCT4 = 480V Twistlock	Blank = No Bi-Level /BL = Bi-Level