



Color: Gray

Weight: 11.6 lbs

Project:

Type:

Prepared By:

Date:

Driver Info

Type	Constant Current
120V	1.13A/0.83A0.50A
208V	0.65A/0.48A/0.29A
240V	0.56A/0.42A/0.25A
277V	0.49A/0.36A/0.22A
Input Watts	64.5-128.4W

LED Info

Watts	135/100/70W
Color Temp	3500/4000/5000K
Color Accuracy	84-86 CRI
L70 Lifespan	100,000 Hours
Lumens	10,310-19,460 lm
Efficacy	147.2-163.7 lm/W

Technical Specifications

Compliance

UL Listed:

Suitable for wet locations

NSF:

NSF Certified by Public Health and Safety

IESNA LM-79 & 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.

IP Rating:

Ingress protection rating of IP67 for dust and water

DLC Listed:

This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities. Designed to meet DLC 5.1 requirements.

DLC Product Code: S-DC3JVB (Stairwell and Passageway Luminaires)

DLC Product Code: S-WZCD7L (High-Bay Luminaires for Commercial and Industrial Buildings)

Electrical

Dimming Driver:

Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims down to 10%.

THD:

4.24% at 120V, 8.35% at 277V

Power Factor:

99.8% at 120V, 94.9% at 277V

Surge Protection:

Ringwave LN4 kV/LN-GND 6 kV

Dimmable:

Yes via the Lightcloud Blue mobile app and devices. This product will not operate properly when connected to a standard (incandescent) dimmer or dimming control.

Input Voltage:

12V

Operating Frequency:

50/60Hz

Input Current @ 120V (mA):

30mA

Operating Temperature:

-4°F to 140°F (-20°C to 60°C)

LED Characteristics

LEDs:

Long-life, high-efficacy, surface-mount LEDs

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.

Performance

Lifespan:

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

Construction

Housing:

Impact-resistant polycarbonate\* with stainless steel door clips. 1/2" NPS opening for conduit and bushing/cord entry. \*Polycarbonate is affected by cleaning agents or other liquids containing partial solvents such as low molecular weight aldehydes and ethers, ketones, esters, aromatic hydrocarbons and perchlorinated hydrocarbons. [Click here for a detailed list of damaging chemicals.](#)

Lens:

Diffuse polycarbonate lens for low glare and maximum protection

Gaskets:

High-temperature silicone gaskets

## Technical Specifications (continued)

### Cold Weather Starting:

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

### Maximum Ambient Temperature:

135W: Surface Mount: -40° to 122°F (-40 to 50°C);

Suspended Mount: -40° to 131°F (-40 to 55°C)

100W: Surface Mount: -40° to 131°F (-40 to 55°C);

Suspended Mount: -40° to 136°F (-40 to 58°C)

70W: Surface Mount: -40° to 131°F (-40 to 55°C);

Suspended Mount: -40° to 140°F (-40 to 60°C)

### Installation:

Tether Cables are provided for easy installation. Quick connector may be used for quick and easy wiring.

### Green Technology:

Mercury and UV free. RoHS-compliant components.

### Finish:

Formulated for high durability and long-lasting color

## Installation

### Mounting:

Quick-mount, stainless steel snap on brackets supplied for surface mounting. V-Hook brackets supplied standard for suspending the fixture.

## Lightcloud

### Lightcloud Blue:

Lightcloud Blue is a Bluetooth Mesh wireless lighting control system that allows you to control RAB's various compatible devices. With RAB's patented Rapid Provisioning technology, devices can be quickly and easily commissioned for residential and large commercial applications using the Lightcloud Blue mobile app. Each device in a system can communicate with any other device, eliminating the need for a Gateway or Hub and maximizing the control system's reach.

DLC system - N1XMLOEATBA (Interior);  
NHCZ2BIA17L (Exterior)

Learn more at [www.lightcloud.com](http://www.lightcloud.com).

### Gateway Required:

No

### Communication Protocol:

Bluetooth Mesh

### Range:

Indoor: Up to 60 feet between standard building materials. Building materials such as brick, concrete, and steel construction may require additional Lightcloud Blue devices to extend around an obstruction; Up to 200 feet clear line of sight.

Outdoor: Up to 60 feet clear line of sight; Up to 18 feet around corners

### Spacing Criteria:

Lightcloud Blue devices should be placed within the specified range to communicate within the Bluetooth Mesh network.

### Factory Reset:

Method 1: Delete from App

Open the app and access the device settings for the paired device. Be sure that the device is online and select 'Delete'. The device will flash on/off 5 times and return to full brightness.

Method 2: Manual

Power the device off and on 5x consecutively. Do not allow less than 4s to elapse from switching off to on. Do not allow more than 2s to elapse from switching on to off. The device will flash 3x, then reset to 100% brightness at default CCT.

Method 3: Rapid Reset Tool

The Rapid Reset process must be done by a professional electrician qualified by RAB. Reach out to your RAB sales manager to request a Rapid Reset Tool. The tool simply needs to be placed directly on the small Lightcloud Blue logo on the device for 2s or until the lamp/luminaire flashes 3x, then resets to 100% brightness at the default CCT.

## Sensor Settings

### Sensor Connection Type:

Pogo pin

### Max Mounting Height:

50 ft

### Detection Range:

50 ft diameter mounted at 50 ft

### Sensor Technology:

Microwave (MVS)

### Default Setting:

Uncommissioned State:

Motion Sensitivity: High

Brightness when triggered : 100%

Hold time: 20 minutes

Standby to dim: 20%

Standby time: 1 minute

When vacant: Off

Daylight: Disabled

Commissioned State:

Once pair, the sensor will default to disabled. Once enabled the following settings apply:

Motion Sensitivity: High

Brightness when triggered: Last on status

Hold time: 20 minutes

Standby to dim: 20%

Standby time: 1 minute

When vacant: Off

Daylight: Disabled

### Adjustable Sensor Settings?:

Yes, using the Lightcloud Blue mobile app

### Sensing Type:

Occupancy or Vacancy (option to disable or set as an independent sensor)

### Occupied Actions:

On or On at a Dim Level

### Vacant Actions:

Off or On at a Dim Level

### Occupancy Timeout:

1 minute to 240 minutes

### Daylight Sensing:

The sensor will determine to trigger the light(s) on or not based on the daylight threshold level set in the Lightcloud Blue mobile app.

### Daylight Threshold:

150 lux to 1500 lux

### Remote Control Accessory:

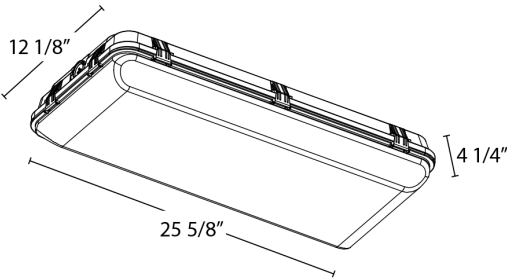
Adjust settings using remote control (catalog# MSR1). Only available with 0-10V dimming driver options. [Remote control available here.](#)

## Other

### 5-Year Limited Warranty:

The RAB 5-year, limited warranty covers light output, driver performance and paint finish. RAB's warranty is subject to all terms and conditions found at [rablighting.com/warranty](http://rablighting.com/warranty).

Dimensions



Features

- NSF certified for use in food-preparation facilities
- 100,000-Hour LED lifespan
- DLC Premium Listed
- IP67 Rated for Wet Locations
- 5-Year, limited warranty

Ordering Matrix

Family	Size/Wattage	Color Temp	Finish	Driver	Options
WHALE	2H				/LCBS/MVS
	2H = 2 ft, 135/100/70W 4 = 4 ft, 160/140/120W 4H = 4ft, 265/225/145W 2 = 2 ft, 90/75/60W	Blank = 3000/4000/5000K CCT Adjustable	Blank = Gray	Blank = 120-277V, 0-10V Dimming	/LCBS/MVS/E = Lightcloud Blue w/MVS Sensor & Battery Backup /LCBS/E = Lightcloud Blue w/PIR Sensor & Battery Backup /PIR/E = Passive Infrared Occupancy Sensor w/Battery Backup /MVS/E = Microwave Occupancy Sensor w/Battery Backup /LCBS/MVS = Lightcloud Blue w/MVS Sensor /LCBS = Lightcloud Blue w/PIR Sensor /PIR = Passive Infrared Occupancy Sensor /MVS = Microwave Occupancy Sensor /E = Battery Backup Blank = No Option