



|              |       |
|--------------|-------|
| Project:     | Type: |
| Prepared By: | Date: |

| Driver Info |                  | LED Info       |                  |
|-------------|------------------|----------------|------------------|
| Type        | Constant Current | Watts          | 30/21/18/15/8W   |
| 120V        | 0.25A            | Color Temp     | 3000/3500/4000K  |
| 208V        | 0.15A            | Color Accuracy | 92-94 CRI        |
| 240V        | 0.13A            | L70 Lifespan   | 100,000 Hours    |
| 277V        | 0.12A            | Lumens         | 992-3,966 lm     |
| Input Watts | 7.8-30.1W        | Efficacy       | 122.5-139.8 lm/W |

Technical Specifications

Field Adjustability

Field Adjustable:

Field Adjustable Light Output:  
30W/21W/18W/15W/8W (factory default 30W)  
Color Temperature Selectable:  
3000K, 3500K and 4000K (factory default 4000K)

Compliance

UL Listed:

Suitable for damp locations

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.

DLC Listed:

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities. Designed to meet DLC 5.1 requirements.  
DLC Product Code: S-8714L0

Electrical

Driver:

Constant Current, Class 2, 120-277V, 50/60 Hz:  
30W: 120V: 0.25A, 208V: 0.15A, 240V: 0.13A, 277V: 0.12A  
21W: 120V: 0.18A, 208V: 0.11A, 240V: 0.10A, 277V: 0.09A  
18W: 120V: 0.15A, 208V: 0.09A, 240V: 0.09A, 277V: 0.08A  
15W: 120V: 0.13A, 208V: 0.08A, 240V: 0.07A, 277V: 0.07A  
7.5W: 120V: 0.07A, 208V: 0.05A, 240V: 0.05A, 277V: 0.05A

Dimming Driver:

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

THD:

4.61% at 120V, 7.45% at 277V

Power Factor:

99.6% at 120V, 93.8% at 277V

Surge Protection:

2 kV

Continuous Runs:

Maximum wattage for a continuous run should not exceed 600W

Status Indicator:

The status indicator light is located around the circumference of the top of the Controller.

Solid Green - Nano is paired to the Lightcloud Blue app  
Flashing Red - Nano has been restored to default factory settings

Max Mounting Height:

8 ft to 12 ft

Detection Range:

20 ft diameter at 9 ft mounting height

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

Technical Specifications (continued)

Performance Data:

[Click here for the BOA3 performance data](#)

Construction

Cold Weather Starting:

The minimum starting temperature is -20°C (-4°F)

Maximum Ambient Temperature:

Suitable for use in up to 104°F (40°C)

Housing:

Aluminum

Lens:

Polycarbonate reflective louvers lens

Reflector:

Polyethylene Terephthalate (PET)

Finish:

Formulated for high durability and long-lasting color

Green Technology:

Mercury and UV free. RoHS-compliant components.

Installation

Mounting:

94" of aircraft cable provided with cable grippers for easy adjustment after installation

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:

Up to 60 ft between standard building materials.  
Up to 200 ft clear line of sight.

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

Locate the device identification button at the top of the Controller under the Lightcloud logo. Press and hold this button for 10s or until the indicator light begins flashing red. If the Controller is attached to a fixture, the fixture will also flash on/off 5x.

Device Identification Button:

Located at the top of the controller under the Lightcloud logo.  
Once the Controller has been provisioned to the Lightcloud Blue mobile app this button offers the following functionality:  
Press once to rapid identify this device in the Lightcloud Blue mobile app  
Press twice to toggle circuit on and off  
Press twice and hold to set dim level  
Press and hold for 10s to reset the device to factory settings and into pairing mode

Sensor Settings

Sensor Connection Type:

RJ09

Default Setting:

Uncommissioned State:  
Sensor Status: Enabled  
Motion Sensitivity: High  
Brightness when triggered: 100%  
Hold time: 1 minute  
Standby to dim: 20%  
Standby time: 1 minute  
When vacant: Off

Commissioned State:

Sensor Status: Disabled, once enabled the following default are set.  
Motion Sensitivity: High  
Brightness when triggered: Last on status  
Hold time: 20 minutes  
When vacant: Off

Sensor Technology:

Microwave (MVS)

Sensing Type:

Occupancy or Vacancy

Sensor Sensitivity:

Low/Medium/High

Occupied Actions:

On or On at a Dim Level

Vacant Options:

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:

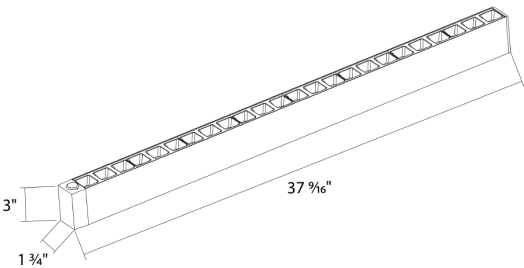
150 lux to 1500 lux

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

- 100,000-Hour LED lifespan
- 0-10V dimming
- 5-Year, limited warranty

Ordering Matrix

| Family | Size (Wattage)   | Mount       | Lens                        | Light Output      | Color Temp                             | Driver                          | Finish                               | Options   |
|--------|--|-------------|-----------------------------|-------------------|--|---------------------------------|--------------------------------------|---|
| BOA    | 3  | P           | L                           |                   |  |                                 | B                                    | /LCBS/MVS   |
|        | 3 = 3 ft (30/21/18/15/8W)<br>4 = 4 ft (40/28/24/20/10W)<br>8 = 8 ft (80/56/48/40/20W)<br>2 = 2 ft (20/14/12/10/5W) | P = Pendant | Blank = Flat<br>L = Louvers | Blank = Downlight | Blank = 3000/3500/4000K CCT Adjustable | Blank = 120-277V, 0-10V Dimming | S = Silver<br>B = Black<br>W = White | Blank = No Option<br>/MVS = Microwave Occupancy Sensor<br>/PIR = Passive Infrared Occupancy Sensor<br>/LCBS = Lightcloud Blue w/PIR Sensor<br>/LCBS/MVS = Lightcloud Blue w/MVS Sensor<br>/E = Battery Backup <sup>2</sup><br>/MVS/E = Microwave Occupancy Sensor w/Battery Backup <sup>2</sup><br>/PIR/E = Passive Infrared Occupancy Sensor w/Battery Backup <sup>2</sup><br>/LCBS/E = Lightcloud Blue w/PIR Sensor and Battery Backup <sup>2</sup><br>/LCBS/MVS/E = Lightcloud Blue w/MVS Sensor and Battery Backup <sup>2</sup> |

<sup>1</sup> Only available on 4 ft and 8 ft models only