



Color: Roadway gray

Weight: 9.4 lbs

Project:

Type:

Prepared By:

Date:

**Driver Info**

|             |                  |
|-------------|------------------|
| Type        | Constant Current |
| 120V        | N/A              |
| 208V        | N/A              |
| 240V        | N/A              |
| 277V        | N/A              |
| Input Watts | 97.8-153.6W      |

**LED Info**

|                |                   |
|----------------|-------------------|
| Watts          | 150/120/100W      |
| Color Temp     | 3000K/4000K/5000K |
| Color Accuracy | 83-85 CRI         |
| L70 Lifespan   | 100,000 Hours     |
| Lumens         | 14989-22796 lm    |
| Efficacy       | 136.2-165.3 lm/W  |

**Technical Specifications****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.rablighting.com/feature/new-lightcloud-blue](http://www.rablighting.com/feature/new-lightcloud-blue).

**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.

**Performance****Product Type:**

Low Voltage Controller+Sensor

**L70 Lifespan:**

50,000-Hour LED lifespan based on IES LM-70 results

**Lifespan:**

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

**Electrical****Driver:**

Constant Current, Class1, 480V, 50/60 Hz:  
150W: 480V: 0.31A  
120W: 480V: 0.25A  
100W: 480V: 0.22A

**Dimming Driver:**

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

**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



## Technical Specifications (continued)

**Input Current @ 120V (mA):**  
30mA

**Operating Temperature:**  
-4°F to 140°F (-20°C to 60°C)

**Surge Protection:**  
10 kV

**Aux Power Supply:**  
Yes

**Dim to Off:**  
Yes

**Photocell:**  
480V Twistlock photocell included. Photocell is only compatible with 480V.

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

### Construction

**Shape:**  
Round

**Finish:**  
White

**Enclosure Material:**  
Plastic

**IES Classification:**  
The Type IV distribution (also known as a Forward Throw) is especially suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. It produces a semicircular distribution with essentially the same candlepower at lateral angles from 90° to 270°.

**IK Rating:**  
IK08 Protected against 5 joules of impact. Equivalent to the impact of a 3.75 lbs. (1.7kg) mass dropped from 11.8" (300mm) above the impacted surface.

**Cold Weather Starting:**  
The minimum starting temperature is -40°F (-40°C)

**Ambient Temperature:**  
Suitable for use in up to 104°F (40°C)

**Housing:**  
Die-cast aluminum

**Tilt Increment:**  
Rotates in 2.5 degree increments

**Effective Projected Area:**  
EPA = 0.45

**Lens:**  
Clear polycarbonate lens

**Vibration Rating:**  
3G vibration rating per ANSI C136.31

**Gaskets:**  
High-temperature silicone

**Green Technology:**  
Mercury and UV free. RoHS-compliant components.

### Compliance

**Environment:**  
Suitable for use indoors and outdoors in dry, damp, or wet environments.

**IP Rating:**  
IP66

**UL Listed:**  
Suitable for wet 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 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-1N30V3

### Field Adjustability

**Field Adjustable:**  
Field Adjustable Light Output:  
150/120/100W (factory default 150W)  
Color Temperature Adjustable:  
3000K, 4000K and 5000K (factory default 4000K)

### 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.

**Technical Specifications (continued)****Installation****Mounting:**

Adjustable universal pole mount

**Optical****BUG Rating:**

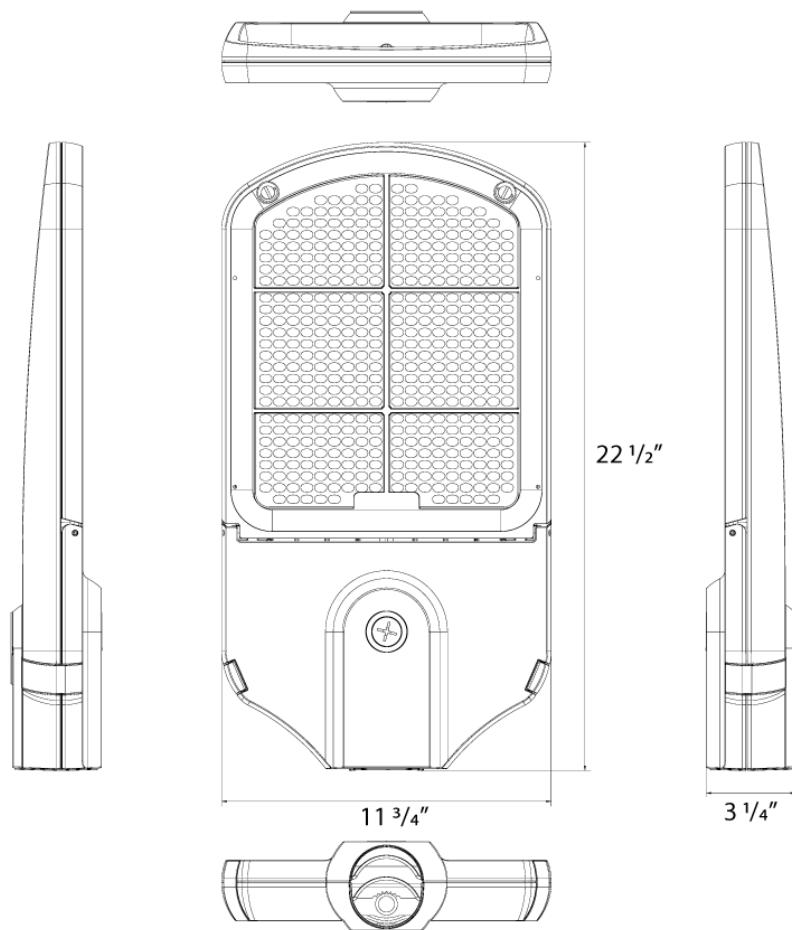
150W: B3-U0-G3

120W: B3-U0-G3

100W: B3-U0-G3

**Other****10-Year Limited Warranty:**

The RAB 10-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**

Ordering Matrix

| Family | Distribution                                  | Size/Wattage                                                                   | Mounting                      | Color Temp              | Finish                              | Driver                                                        | Controls                                                                                                                                                                   |
|--------|-----------------------------------------------|--------------------------------------------------------------------------------|-------------------------------|-------------------------|-------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| KAI    | 4T                                            | 150                                                                            |                               |                         | RG                                  | /480                                                          | /LCBS/MVS                                                                                                                                                                  |
|        | 3T = Type III<br>4T = Type IV<br>2T = Type II | 70 = 70/60/50W<br>100 = 100/80/60W<br>150 = 150/120/100W<br>200 = 200/180/160W | Blank = Adjustable Pole Mount | Blank = 3000/4000/5000K | Blank = Bronze<br>RG = Roadway Gray | Blank = 120-277V, 0-10V Dimming<br>/480 = 480V, 0-10V Dimming | Blank = None<br>/7PRS = 7-Pin Receptacle with Shorting Cap + 3-Pin Twistlock Photocell<br>/LCBS = Lightcloud Blue w/PIR Sensor<br>/LCBS/MVS = Lightcloud Blue w/MVS Sensor |