PIRW12/LCB

RAB®

Color: White   Weight: 0.4 lbs

Project:	Type:
Prepared By:	Date:

Technical Specifications

Lightcloud

Lightcloud Blue Installed:
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.

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.

Max # of Devices to Control:
This sensor can be assigned to a single Area in the Lightcloud Blue mobile app to control all lights in that Area.

Factory Reset:
To restore the Ceiling Sensor to factory settings, press the reset button on the face of the sensor for 10 seconds until the indicator light flashes red.

Performance

Product Type:
Occupancy/Daylight Sensor

Description:
Ceiling sensors for indoor and outdoor applications for low or high ceilings. Configure sensors for occupancy, vacancy, and daylight using the Lightcloud Blue app. Now with load switching capacity up to 8A.

Electrical

Load Switching Capacity:
Magnetic/Resistance:
8A @ 120VAC; 5A @ 277VAC

LED:
5A @ 120VAC; 3A @ 277VAC

Dimmable:
Yes.
When controlling non-Lightcloud Blue lights, requires separate 0-10V DC dimming circuit.

When controlling Lightcloud Blue lights, no load should be connected for wireless communication.

Input Voltage:
120-277V

Operating Frequency (Hz):
60Hz

Input Current @ 120V (mA):
0.007mA

Input Current @ 277V (mA):
0.001mA

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

Need help? Tech help line: **(888) 722-1000** Email: **techsupport@rablighting.com** Website: **www.rablighting.com**

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Technical Specifications (continued)

Sensor Settings

Sensor Connection Type:
Hardwired

Max Mounting Height:
12 ft

Detection Range:
45 ft diameter at 12 ft mounting height

Detection Angle:
Wall mounted <120°; Ceiling mounted 360°

Sensor Technology:
Passive Infrared (PIR)

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 Sensing: Disabled
Photocell: 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 Sensing: Disabled
Photocell: Disabled

Adjustable Sensor Settings?:
Yes, using the Lightcloud Blue mobile app

Sensing Type:
Occupancy, Vacancy

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:
At the time of the first occupancy event the light will stay off or turn on at an appropriate dim level to meet the daylight threshold level set in the Lightcloud Blue mobile app.
Dim levels will continuously adjust based on the daylight threshold level set in the Lightcloud Blue mobile app.

Installation

Mounting:
Surface mount

Construction

Shape:
Round

Finish:
White

Enclosure Material:
Polycarbonate

Compliance

Listings:
UL Listed, UL Recognized

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

IP Rating:
IP66

DLC NLC Listed:
This system is on the Design Lights Consortium (DLC) Network Lighting Controls (NLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.
DLC system - N1XMLOEATBA (Interior); NHCZ2BIA17L (Exterior)

California Title 20 Compliant:
No

California Title 24 JA8 Compliant:
No

California Energy Commission (CEC) Status:
Lawful for Sales in California

RoHS:
Mercury and UV free. RoHS-compliant components.
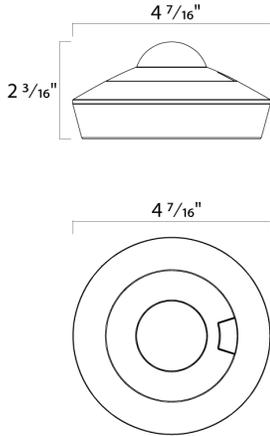
FCC:
Complies with Part 15 of the FCC Rules

Other

5-Year, No-Compromise Warranty:
RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) 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.

Dimensions

4 $^7/_{16}$"

2 $^3/_{16}$"

4 $^7/_{16}$"

Features

- Hardwired occupancy sensor, easily mounts to junction box
- Occupancy and vacancy sensing with adjustable sensitivity and timeouts
- Communicates over secure wireless Bluetooth Mesh network - no Gateway or Hub required
- Motion detector with built-in fixture and zone control
- Closed loop daylight harvesting

Ordering Matrix

Family	Connection Type	Mounting Height	Mounting	Control
PIR	W	12		/LCB
	W = Wired	**12 =** 12 ft **40 =** 40 ft	**Blank =** Standard **/ARM =** Arm	**/LCB =** Lightcloud Blue