PLC-9-O-HYB/LCB

RAB®

UPC: 192552044486

Color: White   Weight: 0.2 lbs

Project:	Type:
Prepared By:	Date:

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.lightcloud.com.

Gateway Required:
No

Communication Protocol:
Bluetooth Mesh

SmartShift:
SmartShift is the most advanced - yet easiest to use - circadian lighting system, which syncs white color tuning with the local sunrise and sunset.

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:
Compact

Description:
PLC lamp to replace 26W CFL lamps. Complete wireless control with Lightcloud Blue.

Wattage Equivalency:
26W Fluorescent

Technical Specifications (continued)

Input Wattage:
9.5W

Lumens:
1,200lm

Efficacy:
126lm/W

L70 Lifespan:
50,000-Hour LED lifespan based on IES LM-70 results

Electrical

Driver:
Constant Current, 50/60 Hz

THD:
20%

Power Factor:
0.9

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

Input Voltage:
120-277V

Operating Frequency:
50/60Hz

Input Current @ 120V (mA):
100mA

Input Current @ 208V (mA):
58mA

Input Current @ 240V (mA):
50mA

Input Current @ 277V (mA):
43mA

Operating Temperature:
-4°F to 113°F (-20°C to 45°C)

Flicker:
50%

LED Characteristics

Beam Angle:
360°

Color Temperature:
Default: 3000K
Adjustable using the Lightcloud Blue mobile app
Tunable White 2700K - 6500K

Color Accuracy (CRI):
≥80 CRI

R9 Value:
High color performance with R9 greater than 0

Color Consistency:
<6-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

Color Stability:
LED color temperature is warrantied to shift no more than 200K in color temperature over a 5-year period

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.

Installation

Installation Method:
UL Type A+B, Hybrid

Installation Orientation:
Universal Installation

Base Type:
G24d

Construction

Shape:
PLC

Finish:
White

Endcap Material:
Copper

Enclosure Material:
Polycarbonate

Lens Finish:
Frosted

Compliance

Listings:
UL Recognized, UL Classified

Environment:
Suitable for use indoors in dry and damp environments.

Fixture Rating:
Suitable for use in enclosed fixtures

Energy Star Approved:
No

DLC Listed:
No

Certification Model Number:
PLC-O-9-HYB/LCB

California Title 20 Compliant:
No

California Title 24 JA8 Compliant:
No

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

NSF Listed:
Meets NSF/ANSI standards for use in Food Zone (non-contact), Splash, and Non-Food Zones. Tube guard required in open fixtures.

Rohs:
Mercury and UV free. RoHS-compliant components.

FCC:
Complies with Part 15 of the FCC Rules

Other

Compatible Accessories:
LCBLUEREMOTE/W
Wireless Remote for Lightcloud Blue devices

ZDIM/LCB[S]
In-wall dimmer, optional PIR sensor for Lightcloud Blue devices

SENSE/PIR/W/LCB
Wireless PIR sensor

NANO/LCB Nano for voice control & remote access of Lightcloud Blue devices

Search other Lightcloud Blue products and accessories on rablighting.com.

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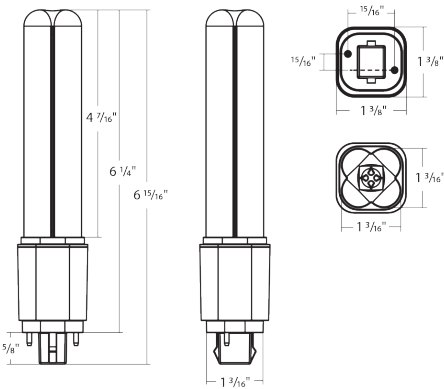## Technical Specifications (continued)

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.

Case and Pallet Dimensions

	QTY	LENGTH (in)	WIDTH (in)	HEIGHT (in)
CASE	12	7.3	6.2	4.8
PALLET	3	47.2	39.4	45

Dimension

Features

- Omnidirectional light distribution

- Plug-and-play on existing magnetic CFL ballasts or can be wired directly to line voltage without need for an external driver or ballast

- Direct connect to the Lightcloud Blue mobile app via Bluetooth; no Gateway or Hub required

- Use mobile device to configure features for On/Off Control, Dim Level, Color Temperature, Schedules, Scenes, SmartShift and more

- Tunable White 2700-6500K with smooth transition between color temperatures

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

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