

Project:	Type:
Prepared By:	Date:

Driver Info		LED Info	
Type	Constant Current	Watts	12W
120V	0.12A	Color Temp	2700/3000/3500/4000/5000K
208V	0.06A	Color Accuracy	90 CRI
240V	0.05A	L70 Lifespan	50,000 Hours
277V	0.04A	Lumens	1,150 lm
Input Watts	12W	Efficacy	96

Technical Specifications

Lightcloud

Lightcloud Blue:

Lightcloud Blue is a Bluetooth® Mesh lighting control system designed for fast setup and flexibility. Install quickly with no gateways, hubs, or additional control wiring. Start with a single device and easily scale to control entire buildings. Learn more at rablighting.com/lcb.

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

Gateway Required:

No

Communication Protocol:

Bluetooth Mesh

SmartShift:

No

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.

Performance

Product Type:

Commercial Downlight

Description:

Smart, canless commercial downlights with integrated sensors and Bluetooth® Mesh control. Adjust wattage and color temperature on the fixture, then use the Lightcloud Blue app for wireless dimming, scheduling, and occupancy-based automation—no gateway required.

Wattage Equivalency:

23W CFL

Input Wattage:

12W

Lumens (Nominal):

1,150lm

Efficacy:

96lm/W

L70 Lifespan:

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

Electrical

Driver:

Constant Current, Class 2 120-277V 50/60 Hz; 120V: 0.12mA; 208V: 0.06mA; 240V: 0.05mA; 277V: 0.04mA

THD:

20%

Power Factor:

0.9

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.

Operating Temperature:

-4°F to 104°F (-20 to 40°C)

Flicker:

30%

For Emergency Use:

This fixture should not be used in emergency applications. Contact RAB for alternative options.

Technical Specifications (continued)

Sensor Settings

Max Mounting Height:

8 to 12 feet

Detection Range:

20 ft diameter at 9 ft mounting height

Sensor Technology:

Passive Infrared (PIR)

Adjustable Sensor Settings?:

Yes, using the Lightcloud Blue mobile app

Sensing Type:

Occupancy or vacancy, adjustable using the Lightcloud Blue mobile app

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:

Continuous dimming based on target light levels configured using the Lightcloud Blue mobile app.

Photocell:

Integrated and disabled. Configure using the Lightcloud Blue mobile app.

LED Characteristics

Beam Angle:

85°±10°

Color Temperature:

Default 4000K

Field-adjustable via dip switch

2700/3000/3500/4000/5000K

Color Accuracy (CRI):

90 CRI

R9 Value:

High color performance with R9 no greater than 50

Color Consistency:

<4-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

Color Stability:

LED color temperature is warranted 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

Integrated Driver:

Driver is integrated on top of the light fixture and connects to junction box (not included) using the provided MC Whip cable.

Installation Types:

Designed for remodel or direct mounting in the ceiling, or can be retrofitted into existing commercial downlight housings.

Construction

Mounting:

Recessed with retention tabs, no housing required

Size:

4"

Shape:

Round

Finish:

White

Enclosure Material:

Metal

Trim Style:

Smooth

Lens Finish:

Frosted

Lens:

Polycarbonate light diffuser distributes light evenly and smoothly for general lighting applications

Air Tight:

Housing certified Air Tight as per ASTM-E283

Compliance

Listings:

UL Listed, UL Classified

Environment:

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

IC Rated:

Suitable for direct contact with insulation.

Type IC inherently protected, suitable for direct contact to air permeable insulation and cULus listed for damp locations. Not for use in direct contact with spray foam insulation, consult NEMA LSD57-2013.

Energy Star Approved:

This product is ENERGY STAR® Version 2.2 Certified

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:

Can be used to conform with the requirements of California Title 24 Part 6.

California Energy Commission (CEC) Status:

Lawful for Sales in California

NEC Compliant:

Suitable for use in closets. Compliant with NEC Sec. 410.16 (A)(1) and 410.16 (C3).

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.

RoHS:

Mercury and UV free. RoHS-compliant components.

FCC:

Complies with Part 15 of the FCC Rules

Trade Agreements Act Compliant:

This product is a product of Cambodia and a "designated country" end product that complies with the Trade Agreements Act

Other

Compatible Accessories:

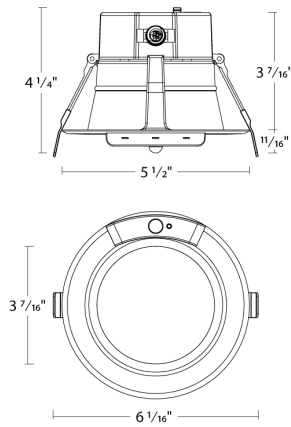
Combine with other [Lightcloud Blue Devices](#) to expand your system capabilities.

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.

Dimensions



Features

- Luminaire level lighting control with Lightcloud Blue
- Wireless control for on/off, dimming, and schedules
- Integrated passive infrared motion sensor and photocell, adjustable settings via the mobile app
- Selectable wattage and color temperature via on-board dip-switch
- Suitable for new construction and remodel applications

Ordering Matrix

Family	Size/Wattage	Shape	CRI/Color Temp	Driver	Finish	Trim	Controls
CR	4						/LCBS
	4 = 4", 12W 6 = 6", 23/19/14W 8 = 8", 33/28/26W 10 = 10", 37/34/29W	Blank = Round	Blank = 90 CRI, 2700/3000/3500/4000/5000K CCT Adjustable	Blank = 120-277V	Blank = White	Blank = Smooth	/LCBS = Lightcloud Blue w/PIR & Photocell