



Project:	Type:
Prepared By:	Date:

Driver Info		LED Info	
Type	Constant Current	Watts	8W
120V	0.07 A	Color Temp	2700K-6500K
208V	N/A	Color Accuracy	95 CRI
240V	N/A	L70 Lifespan	50,000 Hours
277V	N/A	Lumens	650 lm
Input Watts	8W	Efficacy	81

Technical Specifications

Performance

Product Type:

Recessed Retrofit

Description:

No Gateway or Hub required. These Bluetooth-enabled contractor grade retrofit downlights offers tunable white color tuning and Natural Spectrum Technology. Wirelessly control using a mobile phone via a Bluetooth connection.

Wattage Equivalency:

65W Halogen

Input Wattage:

8W

Lumens (Nominal):

650lm

Efficacy:

81lm/W

L70 Lifespan:

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

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 patent-pending 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

[Learn more at www.lightcloud.com](http://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:

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.

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 downlight is online and select 'Delete'.

Method 2: Manual

Power the downlight 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 downlight 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.

Technical Specifications (continued)

Electrical

Driver:

Constant Current, Class 2, 60 Hz, 120V, 120V: 0.07A

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:

120V

Operating Frequency:

50/60Hz

Input Current @ 120V (mA):

120mA

Operating Temperature:

-4°F to 104°F (-20°C to 40°C)

Flicker:

≤5%

LED Characteristics

Color Temperature:

Tunable White 2700K - 6500K

Color Accuracy (CRI):

>95 CRI

Natural Spectrum:

Low blue LEDs deliver a spectrum of light similar to that of natural Sunlight. They beautifully render colors with greater than 95+ CRI and an R9 value greater than 90. In addition, these LEDs don't suppress melatonin creation which aids in promoting better sleep/wake cycles.

R9 Value:

High color performance with R9 greater than 50

Color Consistency:

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

Color Stability:

RAB LEDs exceed industry standards for chromatic stability

Color Uniformity:

RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for (SSL) Products, ANSI C78.377-2017.

Installation

Mounting:

Recessed

Base Adapter:

E26 adapter included

Construction

Size:

4"

Shape:

Round

Finish:

White

Enclosure Material:

Metal

Trim Style:

Baffle

Lens:

Acrylic light guide distributes light evenly and smoothly for general lighting applications

Compliance

Listings:

UL Recognized, UL Classified

Environment:

Suitable for use in dry, damp, and wet environments.

IC Rated:

Suitable for direct contact with insulation

Air Tight:

No

Energy Star Approved:

This product is ENERGY STAR® Version 2.2 Certified

Energy Star ID:

2402458

Model Number for Certification:

R4R89TW120WB-SS-NS/LCB

T20 Compliant:

Can be used to conform with the requirements of California Title 20

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 15B of the FCC Rules

Technical Specifications (continued)

Other

Accessories:

[RFLED-GOOF-4R-6R-W](#)

Retrofit Downlight 4" Goof Ring

[DLTRIM/R4RS-BN](#)

[DLTRIM/R4RS-BN-L](#)

4" Smooth Brushed Nickel Color Trim

[DLTRIM/R4RS-BRZ](#)

[DLTRIM/R4RS-BRZ-L](#)

4" Smooth Bronze Color Trim

[DLTRIM/R4RS-B](#)

[DLTRIM/R4RS-B-L](#)

4" Smooth Black Color Trim

[DLTRIM/R4RB-BN](#)

[DLTRIM/R4RB-BN-L](#)

4" Baffle Brushed Nickel Color Trim

[DLTRIM/R4RB-BRZ](#)

[DLTRIM/R4RB-BRZ-L](#)

4" Baffle Bronze Color Trim

[DLTRIM/R4RB-B](#)

[DLTRIM/R4RB-B-L](#)

4" Baffle Black Color Trim

[DRI-25-EMGR-DC](#)

Emergency Back up Driver

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.

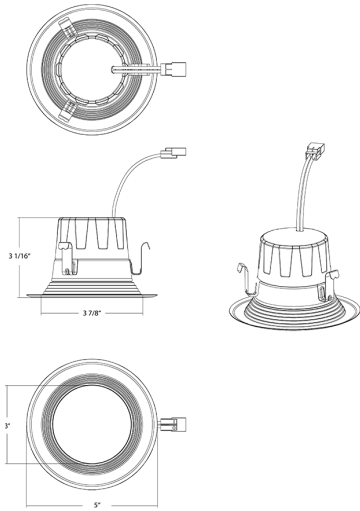
Note:

All values are typical (tolerance +/- 10%)

Buy American Act Compliance:

RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Dimensions



Features

- 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
- Natural Spectrum Technology mimics natural sunlight to see colors more accurately
- Tunable White 2700-6500K with smooth transition between color temperatures
- Circadian SmartShift Capable to sync with local sunrise/sunset

Ordering Matrix

Family	Size	Shape	Wattage	CRI/Color Temp	Voltage	Finish	Trim	SmartShift	Spectrum	Lightcloud Blue			
R	4	R	8	9TW	120	W	B	-	SS	-	NS	-	/LCB
	6 = 6" 4 = 4"	R = Round	8 = 8W	9TW = 90 CRI, Tunable White	120 = 120V	W = White	B = Baffle		SS = SmartShift		NS = Natural Spectrum		/LCB = Lightcloud® Blue Enabled