

Lightcloud Blue Retrofit Downlights



4"

6"

Lightcloud Blue Retrofit Downlight, Natural Spectrum



PROJECT: _____

DATE: _____

TYPE: _____

PREPARED BY: _____



KEY 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.
- **Tunable White 2700 – 6500K** with smooth transition between color temperatures
- **SmartShift** Ready to sync with local sunrise/sunset for healthier, **circadian lighting**
- **Natural Spectrum technology** mimics natural light that renders color accurately
- **5-Year, No-Compromise Warranty**

PERFORMANCE

Catalog Number	Size	Equivalency	Input Wattage	Lumens (Nominal)	Efficacy	Input Voltage	Color Temperature	CRI	L70 Lifespan
R4R89TW120WB-SS-NS/LCB	4"	65W Halogen	8W	650 Lm	81 Lm/W	120V	Tunable White 2700K - 6500K	95+	50,000 hours
LCBR6R119TW120WB-SS-NS	6"	75W Halogen	11W	880 Lm	80 Lm/W				

TECHNICAL SPECIFICATIONS

LIGHTCLOUD BLUE FEATURES

Museum-Quality Light

Natural Spectrum technology mimics natural sunlight to deliver ultra-high, 95+ CRI that renders colors accurately so you can see them as they are. It also emits less sleep-disturbing blue light.

Tunable White

Adjust the color temperature from 2700K to 6500K via the Lightcloud Blue mobile app, Remote Control, or other control devices.

Direct Connect

Use the Lightcloud Blue mobile app to connect to your lamps in minutes via Bluetooth Mesh; no Gateway or Hub required.

Mobile App Control

Use the Lightcloud Blue mobile app to configure features for On/Off Control, Dim Level, Color Temperature, Schedules, Scenes, SmartShift and more.

SmartShift Circadian Lighting

Automatically tunes the color and intensity of lights throughout the day, mimicking the sun's natural pattern.

Scalable

Devices within 60 feet of each other can communicate within the Bluetooth Mesh network to manage a maximum of up to 3,000 devices per account.

TECHNICAL SPECIFICATIONS (CONT.)

LIGHTCLOUD BLUE

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 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 switchin 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.

CONSTRUCTION

Product Type

Recessed Retrofit Downlight

Shape

Round

Enclosure Material

Metal

Trim Style

Baffle

Finish

White

Lens

Acrylic

INSTALLATION

Mounting

Recessed

Base Adapter

E26 adapter included

COMPLIANCE

Safety Listing

UL Recognize, UL Classified

Environment

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

IC Rated

Suitable for direct contact with insulation

Air Tight

Not compliant

Energy Star Approved

This product is ENERGY STAR® Version 2.2 Certified.

Energy Star ID

4" : 2402458

6" : 2390211

DLC Listed

No. There is no product category on the Design Lights Consortium (DLC) Qualified Products List for this product to qualify under.

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 Sale in California

NEC Compliant

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

IESNA LM-79 & LM80 Testing

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

FCC

Complies with Part 15 of the FCC Rules.

RoHS

Mercury and UV free. RoHS-compliant components.

ELECTRICAL

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.

Driver

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

6" : Constant Current, Class 2, 60 Hz, 120V, 120V: 0.12A

Power Factor

≥0.9

THD

≤20%

Input Voltage

120V

Operating Frequency

50/60 Hz

Operating Temperature

-4°F to 104°F (-20°C to 40°C)

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TECHNICAL SPECIFICATIONS (CONT.)

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 or equal to 50

Color Consistency

4-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.

OTHER

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%)

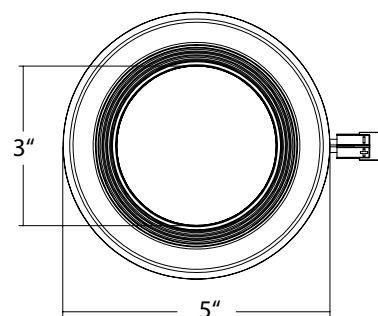
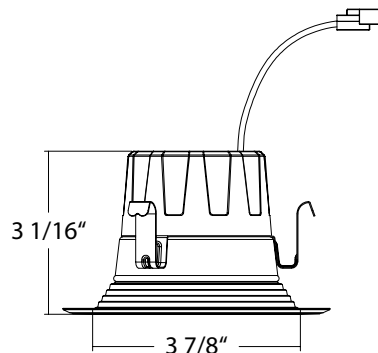
Download the Lightcloud Blue app for free to get started!



DIMENSIONS

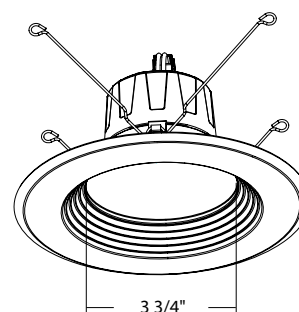
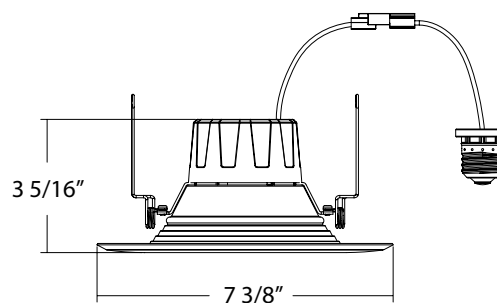
4" 8W

Weight: 0.59 lb



6" 11W

Weight: 0.63 lb



ACCESSORIES (SOLD SEPARATELY)

Smooth Trims



Brushed Nickel



Black



Bronze

Catalog Number	UPC	Description
DLTRIM/R4RS-BN	192552000895	4" Smooth brushed nickel color trim
DLTRIM/R4RS-BRZ	192552022248	4" Smooth bronze color trim
DLTRIM/R4RS-B	192552000918	4" Smooth black color trim

Baffle Trims



Brushed Nickel



Black



Bronze

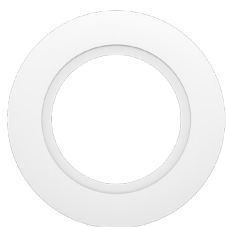
Catalog Number	UPC	Description
DLTRIM/R4RB-BN	192552000956	4" Baffle brushed nickel color trim
DLTRIM/R4RB-BN-L	192552028219	4" Baffle brushed nickel color extended trim
DLTRIM/R4RB-BRZ	192552022262	4" Baffle bronze color trim
DLTRIM/R4RB-BRZ-L	192552028226	4" Baffle bronze color extended trim
DLTRIM/R4RB-B	192552000970	4" Baffle black color trim
DLTRIM/R4RB-B-L	192552028202	4" Baffle black color extended trim

Emergency Backup Driver



Catalog Number	UPC	Description
DRI-25-EMGR-DC	019813519180	Emergency backup driver

Goof Ring



Catalog Number	UPC	Description
RFLED-GOOF-4R-6R-W	192552013727	Retrofit downlight 4" goof ring

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ORDERING INFO

Catalog Number	Model Number	UPC	Case Pack
R4R89TW120WB-SS-NS/LCB	R4R89TW120WB-SS-NS/LCB	192552025621	4
LCBR6R119TW120WB-SS-NS	LCBR6R119TW120WB-SS-NS	192552007436	4

ORDERING MATRIX

Family	Size	Shape	Wattage	CRI/Color Temp	Voltage	Finish	Trim	SmartShift	Natural Spectrum	Controls		
R	4	R	8	9TW	120	W	B	-	SS	-	NS	/LCB
	4 4" R	Round	8 8W	90CRI, Tunable White 2700-6500K	120 120V	W White	B Baffle	SS SmartShift	NS		Natural Spectrum	/LCB Lightcloud Blue-enabled 95+ CRI

Family	Size	Shape	Wattage	CRI/Color Temp	Voltage	Finish	Trim	SmartShift	Natural Spectrum		
LCBR	6	R	11	9TW	120	W	B	-	SS	-	NS
	6 6" R	Round	11 11W	90CRI, Tunable White 2700-6500K	120 120V	W White	B Baffle	SS SmartShift	NS		Natural Spectrum, 95+ CRI