

TSLED STAIRWELL INSTALLATION INSTRUCTIONS

Thank you for buying RAB lighting fixtures. Our goal is to design the best quality products to get the job done right. We'd like to hear your comments. Call the Marketing Department at 888-RAB-1000 or email: marketing@rabweb.com





TSLED-2FT

TSLED - 4FT

IMPORTANT

READ CAREFULLY BEFORE INSTALLING FIXTURE. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.

Fixtures must be wired in accordance with the National Electrical Code and all applicable local codes. Proper grounding is required for safety. THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.

WARNING: Make certain power is OFF before installing or maintaining fixture. No user serviceable parts inside. WARNING: To prevent wiring damage or abrasion, do not expose wiring to edges of sharp objects.

SURFACE MOUNTING

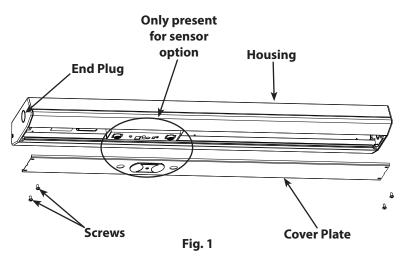
The fixture is suitable for indoor applications for ceiling or wall mounting.

- 1. Remove tamperproof Screws (4) from Cover Plate.
- 2. Mount **Housing** directly to sturdy surface by using **Key Hole Slots** on either end of the fixture. Use appropriate mounting hardware for the mounting surface.
- Make electrical splices, referring to page 2 for details. Supply can come from back or through either End Plug. Use appropriate UL approved wire connectors as required by code to complete wiring.
- 4. Being careful not to pinch wires, replace **Cover Plate** and tighten **Screws (4)**.

JUNCTION BOX MOUNTING

Mount to a recessed junction box (provided by others) as follows:

- 1. Remove tamperproof Screws (4) from Cover Plate.
- 2. Choose correctly spaced (4) Knock Out Locations as marked in Fig. 4 based on junction box size. Outer knock outs need to be knocked out for use. Use appropriate mounting hardware for the mounting surface.
- 3. Make electrical splices, referring to page 2 for details. Use appropriate UL approved wire connectors as required by code to complete wiring.
- 4. Once connections are made push all wires back through access hole into Junction Box. Be careful not to pinch wires. Replace **Cover Plate** and tighten **Screws (4)**.



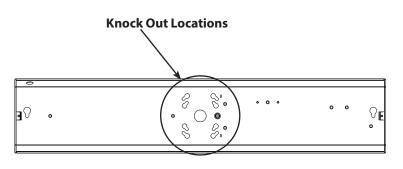


Fig. 2



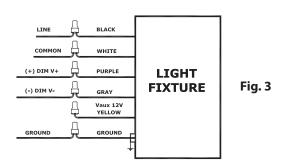
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0-10V DIMMABLE WIRING

Universal voltage driver permits operation at 120V thru 277V, 50 or 60 Hz. For 0-10V Dimming, follow the wiring directions in **Fig. 3**.

- 1. Connect the black fixture lead to the LINE supply lead.
- 2. Connect the white fixture lead to the COMMON supply lead.
- 3. Connect the GROUND wire from fixture to supply ground. Do NOT connect the GROUND of the dimming fixture to the output.
- 4. Connect the purple fixture lead to the (V+) DIM lead.
- 5. Connect the gray fixture lead to the (V-) DIM lead.
- 6. Cap the yellow fixture lead, if present. Do NOT connect.



BILEVEL DIMMER

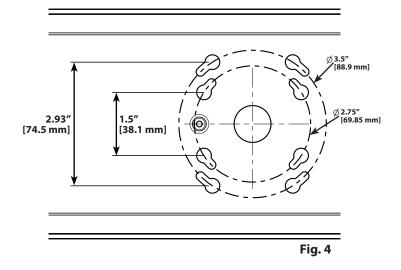
For 100% light output (disabling the dimmer), splice red wire with black line wire.

For chosen output only, leave red wire capped.

For Bilevel Function, connect red wire to switched device.

- Determine what % light output is desired and set switch prior to installation. Options are: 25%, 50%, and 75%.
- 2. Connect purple wire with driver's purple wire.
- 3. Connect gray wire with driver's gray wire.
- 4. Connect black wire with driver and supply line wires.
- 5. Connect white wire with driver and supply neutral wires.

KNOCK OUT LOCATIONS



TAMPERPROOF SCREWS

TSLED STAIRWELL fixtures are shipped with tamperproof screws for use with a Torx Screwdriver.



CLEANING & MAINTENANCE

CAUTION: Be sure fixture temperature is cool enough to touch. Do not clean or maintain while fixture is energized.

- 1. Clean polycarbonate lens with non-abrasive cleaning solution.
- 2. Do not open the fixture to clean the LEDs. Do not touch the LEDs.

TROUBLESHOOTING

- 1. Check that the line voltage at the fixture is correct. Refer to wiring directions.
- 2. Be sure the fixture is grounded properly.

Pending: Pat. pending

Note: These instructions do not cover all details or variations in equipment nor do they provide for every possible situation during installation operation or maintenance.

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Easy Installation & Product Help

Tech Help Line Call our experts 888 RAB-1000 **rabweb.com** Visit our website for product info

TSLED IN 0816

19400 ULTRASONIC SENSOR



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IMPORTANT

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FS-555 is used with a120-277VAC dimmable driver and is shipped pre-installed in each fixture with Factory Settings (refer to **Specifications**). Ultrasonic sensor may be used in ceiling or wall mounted fixtures.

SPECIFICATIONS

Indoor use only Load: 1W at 120V, 1.2W at 277V Operating Frequency: 40kHz Operating Temperature: 0°C to +55°C (32°F to +131°F)

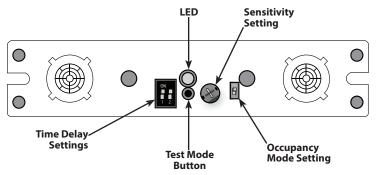
Factory Settings:

- **Time Delay**: 15 minutes Lights remain at full output for this amount of time after motion is no longer detected in sensor's coverage area
- Sensitivity: 80%

TESTING

Test Mode: use walk test to adjust coverage if needed

- Remove sensor cover from fixture
- Press Test Mode Button once to enter test mode
- Test period lasts 5 minutes with 5 second Time Delay
 - Sensor returns to previously set Time Delay following the test period
- Walk in and out of coverage area to check and adjust sensor:
 - Lights remain on and **LED** flashes until detection area is vacated (continuous flashing indicates motion detection)
 - After 5 seconds the LED should stop flashing and the light should turn off or dim
- Adjust sensitivity to desired coverage and repeat as needed



OPERATION

This ultrasonic sensor uses high frequency to detect room occupancy and motion

- If settings other than **Factory Settings** are desired, see **CUSTOMIZATION** (pg 2) for more information
- If room is vacant for selected **Time Delay**, lights turn off or dim
- LED flashes upon sensing motion and lights turn back on

Override Mode

- Press and hold Test Mode Button for 15 seconds
- Depending on **Occupancy Mode Setting**, override will clear that setting so load remains ON
- LED remains on during Override Mode (no blinking)
- To cancel Override Mode, press Test Mode Button once

Burn-In Mode

- Press and hold Test Mode Button for 5 seconds
- Fixture remains lit for 72 hours, then returns to normal sensor settings
- LED flashes throughout entire Burn-In period

Fail-On Mode

• Using N/C (**Normally Closed**)* wiring, fixture will turn on if sensor fails

19400 ULTRASONIC SENSOR



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CUSTOMIZATION Occupancy Mode Setting

For normal operation, leave the switch down in POSITION 1

ON

Time Delay Settings

Period of time fixture remains on once sensor detects no motion

Use the following guide for selecting preferred Time Delay

DIP Switch 1	DIP Switch 2	Time Delay
OFF	OFF	5 min
OFF	ON	10 min
ON	OFF	15 min
ON	ON	30 min

Sensitivity Setting

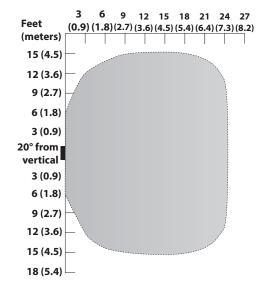
Adjust coverage zone by turning dial as shown below





COVERAGE PATTERN

*diagram based on ideal mounting conditions (no obstruction to sensor) and a 20° angle between sensor's line of sight and ground



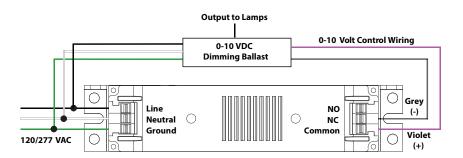
TROUBLESHOOTING

If the sensor does not detect motion as expected:

- 1. Check fixture mounting and compare fixture location and sensor coverage with coverage diagram. Adjust fixture location as necessary
- 2. Adjust sensitivity to maximum for best results with far away movement
- 3. Be sure sensor is not obstructed as this will diminish sensitivity to motion

Wiring Diagram

Factory-wired as shown below if pre-installed in fixture



Note: These instructions do not cover all details or variations in equipment nor do they provide for every possible situation during installation operation or maintenance.



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e-mail Answered promptly - sales@rabweb.com

19400 IN 0318

TSLED STAIRWELL EMERGENCY BATTERY BACKUP INSTALLATION INSTRUCTIONS



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TSLED-2FT



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JUNCTION BOX MOUNTING

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- 2. Choose correctly spaced (4) Knock Out Locations as marked in Fig. 4 based on junction box size. Outer knock outs need to be knocked out for use. Use appropriate mounting hardware for the mounting surface.
- 3. Make electrical splices, referring to page 2 for details. Use appropriate UL approved wire connectors as required by code to complete wiring.
- 4. Once connections are made push all wires back through access hole into Junction Box. Be careful not to pinch wires. Replace **Cover Plate** and tighten **Screws (4)**.

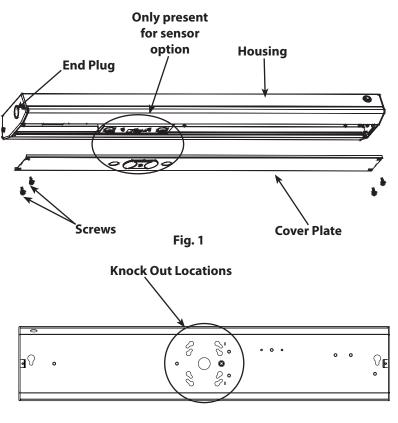


Fig. 2

TAMPERPROOF SCREWS

TSLED STAIRWELL fixtures are shipped with tamperproof screws for use with a Center Pin Torx Screwdriver.



TSLED STAIRWELL EMERGENCY BATTERY BACKUP INSTALLATION INSTRUCTIONS



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WIRING

CAUTION: THIS IS AN EMERGENCY BATTERY BACKUP FIXTURE. Voltage could be present in Battery. To prevent high voltage from being present on output leads, inverter connector must be open. Do not join inverter connector until installation is complete and AC power is supplied to the emergency ballast.

NOTE: Make sure that the necessary branch circuit wiring is available. An unswitched AC source of power is required. The emergency ballast must be fed from the same branch circuit as the AC ballast.

Do not use any supply voltage other than those specified below.

TSLED/E2 120V-277V, 50/ 60Hz

- 1. Connect the UNSWITCHED black fixture lead to the HOT supply lead.
- 2. Connect red and black lead together, if not using a switching method.
- 3. If switching, connect SWITCHED red lead to a switch.
- 4. Connect the COMMON fixture lead to the COMMON supply lead.
- For 0-10V Dimming, connect DIM (+) purple lead and DIM
 (-) gray lead to 0-10V dimmer. Do not connect the yellow lead.
- 5. Connect the GROUND wire from fixture to supply ground. Do NOT connect the GROUND of the dimming fixture to the output.
- 6. All unused leads must be capped and insulated.
- 7. After installation is complete, supply AC power to the emergency ballast and join the inverter connector.
- 9. At this point, power should be connected to both the AC ballast and the emergency ballast, and the Charging Indicator Light on the **Test Switch** should illuminate indicating the battery is charging.
- 10. A short-term discharge test may be conducted after the emergency ballast has been charging for one hour. Charge for 24 hours before conducting a long-term discharge test. Refer to OPERATION.

TROUBLESHOOTING

- 1. Check that the line voltage at the fixture is correct. Refer to wiring directions.
- 2. Be sure the fixture is grounded properly.

Pending: Pat. pending



Easy Answers

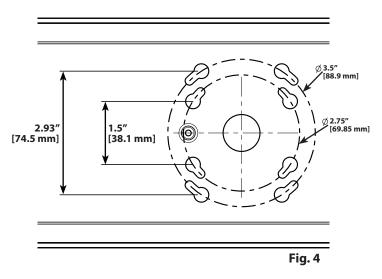
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Tech Help Line
Call our experts - 888 722-1000
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e-mail

Answered promptly - sales@rabweb.com

KNOCK OUT LOCATIONS



BILEVEL DIMMER

For 100% light output (disabling the dimmer), splice red wire with black line wire.

For chosen output only, leave red wire capped.

For Bilevel Function, connect red wire to switched device.

- Determine what % light output is desired and set switch prior to installation. Options are: 25%, 50%, and 75%.
- 2. Connect purple wire with driver's purple wire.
- 3. Connect gray wire with driver's gray wire.
- 4. Connect black wire with driver and supply line wires.
- 5. Connect white wire with driver and supply neutral wires.

CLEANING & MAINTENANCE

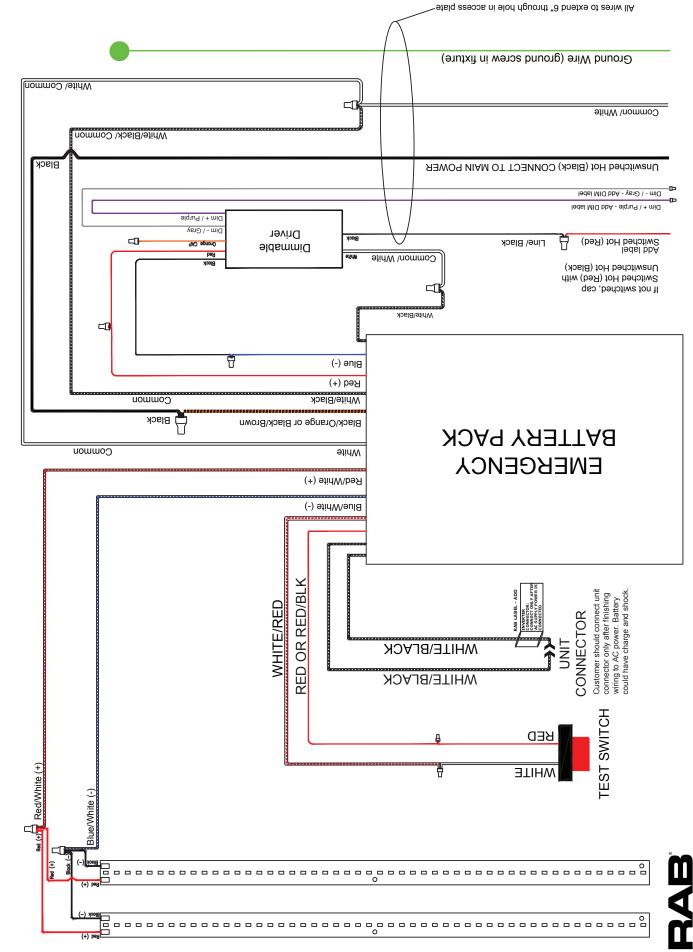
CAUTION: Be sure fixture temperature is cool enough to touch. Do not clean or maintain while fixture is energized.

- 1. Clean lens with non-abrasive cleaning solution.
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Note: These instructions do not cover all details or variations in equipment nor do they provide for every possible situation during installation operation or maintenance.

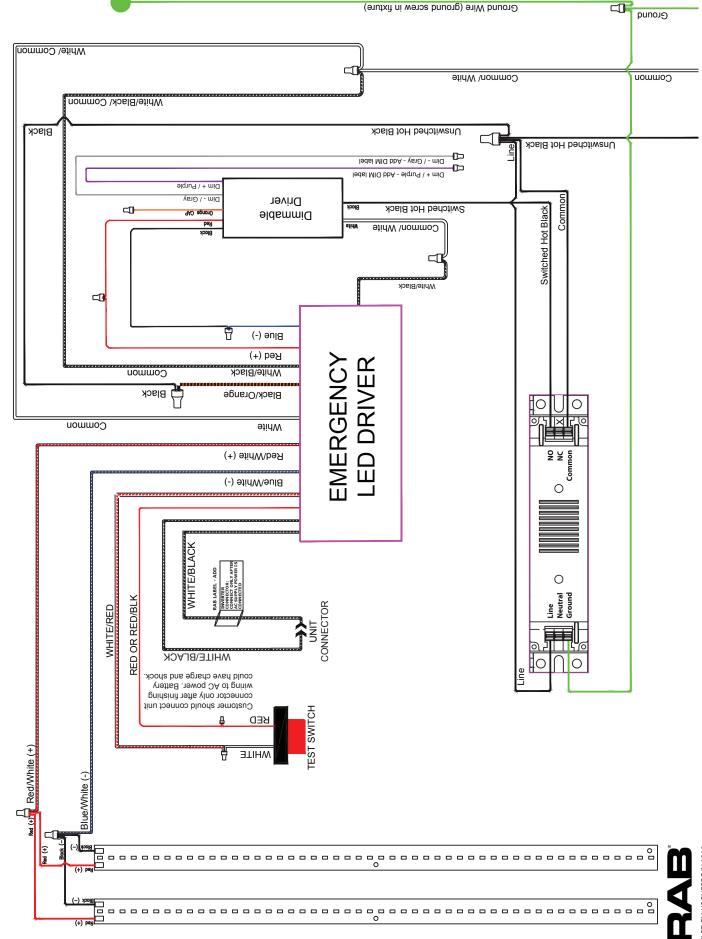
Free Lighting Layouts

Answered online or by request



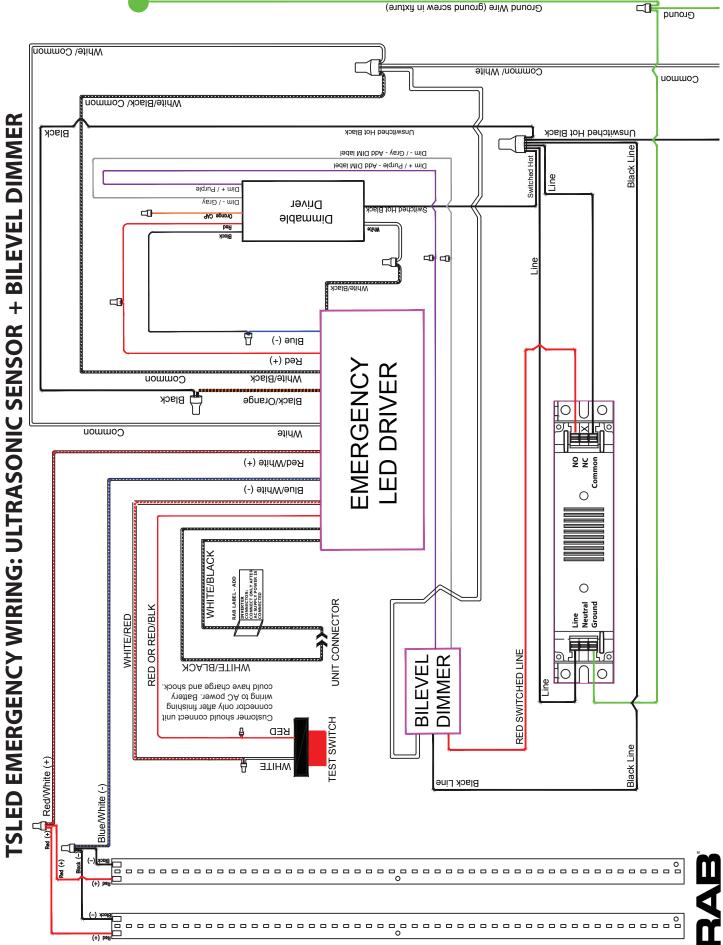
TSLED EMERGENCY WIRING: STANDARD D10

TSLED EM IN 1016



TSLED EMERGENCY WIRING: ULTRASONIC SENSOR

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Lightcloud is a commercial wireless lighting control system & service. It's powerful and flexible, yet easy to use and install. Learn more at lightcloud.com

1 (844) LIGHTCLOUD

1 (844) 544-4825 support@lightcloud.com



Custom manufactured in China

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Welcome



we're here to help: **1 (844) LIGHTCLOUD** 1 (844) 544-4825

support@lightcloud.com

Hello

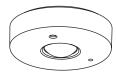
Lightcloud is a wireless lighting control service. The Lightcloud Ceiling Sensor is a remotely configurable passive infrared motion sensor that can switch and dim both hardwired circuits and remote circuits using Lightcloud Controllers.

Product Features

Advanced PIR Sensing Secure Cloud Control & Configuration Retrofit-Friendly Local Control Scheduling & Astronomical Clock Power Monitoring 0-10V Dimming Patent Pending

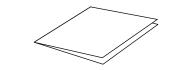
Contents

Lightcloud Ceiling Sensor











What You Need

Lightcloud Gateway

A Lightcloud installation requires at least one Lightcloud Gateway to manage your devices.

Specifications

PARTNUMBER

LCSENSE15/D10

INPUT

120-277VAC, 50/60Hz, <1W (Standby) - 2W (Active)

MAXIMUM SWITCHED LOAD RATINGS

Electronic Ballast: 277VAC, 3300W Magnetic Ballast: 277VAC, 1200W / 120VAC, 800W Tungsten: 220VAC, 3000W Dimming: 0-10V (Class2)

OPERATING TEMPERATURE -20°C to 40°C

OPERATING HUMIDITY

10% RH to 95% RH Non-Condensing

OVERALL DIMENSIONS 4.91" Diameter, 1.61" Height

WIRELESS RANGE

Line-of-Sight: 1000 feet Obstructions: 100 feet

Warranty is active as long as service plan is active. Indoor Damp Location

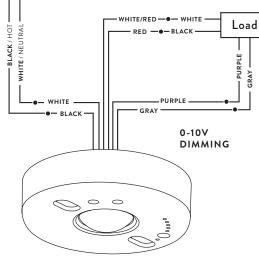
we're here to help: **1 (844) LIGHTCLOUD** or 1 (844) 544-4825 support@lightcloud.com



Panel

SWITCHED NEUTRAL

The "Switched Neutral" white with red stripe wire is the neutral line for the load being switched. This enables power measurement. See the Power Measurement section under "Functionality" for more information.





Any wires not in use must be capped off or otherwise insulated.

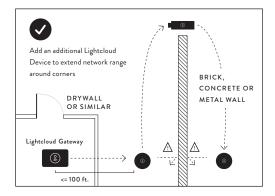
This product should only be installed by a qualified electrician and in compliance with local and national electrical codes.

Setup & Installation

) Find a suitable location

Use these guidelines when installing devices:

- If there is a clear line of sight between two Lightcloud devices, they can be placed up to 1000 feet apart.
- If the two devices are separated by ordinary drywall construction, try to keep them within 100 feet of each other.
- Brick, concrete and steel construction may require additional Lightcloud devices to go around the obstruction.

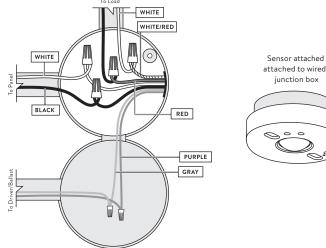


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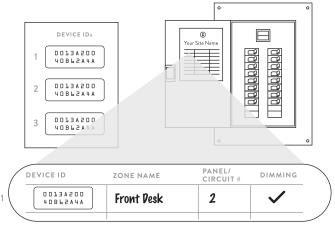
Install your Lightcloud Ceiling Sensor

INSTALL AT A JUNCTION BOX (INDOOR/OUTDOOR)

The Ceiling Sensor can control other Lightcloud devices, wirelessly. If you don't need to hard-wire a switched circuit to the Sensor, no problem—just tie the white/red wire to neutral and cap off any unused wires.



3 Labeling your device



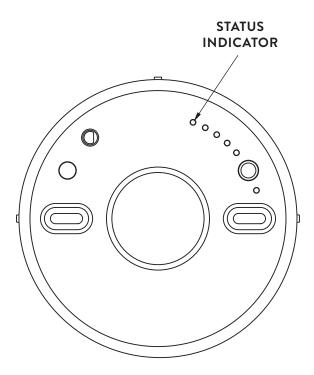
For setup and maintenance, we provide two Lightcloud Device Tables with the Gateway: one that you can attach to your panel and one to hand off to a building manager. Attach the Device Identification stickers included with each device to a row, then write in additional information, such as Zone name, Panel/Circuit Number, and whether or not a zone uses dimming.

4 Power up

To add new devices to your Lightcloud network, call RAB at 1 (844) LIGHTCLOUD, or email us at support@lightcloud.com.

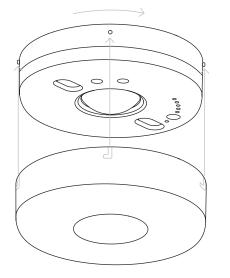
5 Confirm device connectivity

Confirm Status Indicator is solid green. If it is not, make sure your device is within range of another Lightcloud AC-powered device.



6 Place cover

Secure cover onto sensor by pushing up and twisting to the right (clockwise).



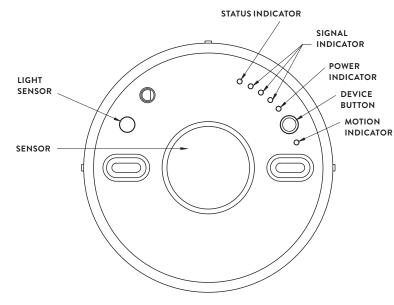
7 Commission & Configure Your Devices

All Lightcloud products can be commissioned and configured by:

- Logging on to lightcloud.com
- Calling RAB at 1 (844) LIGHTCLOUD
- Emailing us at support@lightcloud.com

Functionality

Overview



STATUS INDICATOR:

- Solid GREEN when connected to your Lightcloud network
- Blinking RED when not connected to a Lightcloud network. The device will automatically continue trying to connect to a network that is in Setup Mode.

POWER INDICATOR:

Illuminated when powered. Blinking when indicated from the Lightcloud application.

SIGNAL INDICATOR:

After the Device Button has been pressed, this indicator illuminates when the device receives a message and indicates the strength of the signal.

- 3 Best Signal
- 2 Acceptable Signal
- 1 Unacceptable Signal

Consult the "Finding a Location" section for more information.

DEVICE BUTTON:

- Press once to highlight this device in the Lightcloud Application (pressing once also enables display of the Signal Indicators)
- Press twice to toggle circuit on and off
- Press twice and hold to set dim level
- Press and hold for 10 seconds to remove this device from a Lightcloud network

MOTION INDICATOR:

Illuminates when motion is detected

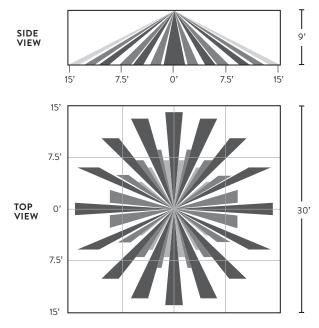
SENSOR:

Passive-infrared motion sensor

Functionality (cont'd)

Features

PASSIVE INFRARED MOTION DETECTION



OCCUPANCY & VACANCY SENSING:

The Lightcloud Ceiling Sensor can operate in either Occupancy or Vacancy Sensor modes, selectable via the Lightcloud application. In Occupancy mode, the attached circuit will be switched on when motion is detected, and off (or dimmed) when the timeout expires. In Vacancy mode, the attached circuit will be turned off when the motion timeout expires, but will only be turned on via the Lightcloud application, Lightcloud Wall Switch, or similar. Motion detection and timeout can still be used via Lightcloud Automations to control other devices.

CONTROLLER MODE:

In Controller Mode, the attached circuit is controllable as an independent zone in the Lightcloud application. Motion detection and timeout can still be used via Lightcloud Automations to control other devices.

RANGE TEST MODE:

When Range Test Mode is activated via the Lightcloud application, the timeout period is shortened so that you can test different sensitivities quickly. All indicators will go off except for the Motion Indicator. When satisfied, turn off Range Test Mode to continue normal operation.

Functionality (cont'd)

Features

0-10V DIMMING:

0-10V is a common method of low-voltage control of dimmable drivers and ballasts. Purple: 0-10V positive | Gray: 0-10V common

Note: The National Electrical Code requires that low-voltage wiring used in the same enclosure as high voltage wiring have an equal or better insulation rating. You may need to complete your low-voltage wiring in another enclosure or use a partition.

DEVICE IDENTIFICATION:

For help with installation, there are two ways to identify this device:

- Pressing the Device Button on the actual product will produce a message in the Lightcloud application indicating which device you are working with.
- Pressing the "Indicate" button in the Lightcloud application will cause the device's Status Indicator to blink green. This will also switch the device's relay on and off repeatedly, allowing you to quickly identify which circuit it is.

POWER MEASUREMENT:

The Lightcloud Ceiling Sensor is capable of measuring the power usage of the attached circuit. In order to utilize this function, the neutral wire of the load must be connected to the white-red switched neutral wire. If this wire is not used, it should be tied to the regular neutral wire (i.e. all neutral wires joined).

POWER LOSS DETECTION:

If power to the Ceiling Sensor is lost, the device will detect this and alert the Lightcloud application.

EMERGENCY DEFAULT:

If communication is lost, the Ceiling Sensor may optionally fall back to a specific state, such as turning the attached circuit on. This may be configured via the Lightcloud application or by calling RAB.

FCC Information:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1. This device may not cause harmful interference, and 2. This device must accept any interference received, including interference that may cause undesired operation.

Note: This device has been tested and found to comply with the limits for Class B digital devices pursuant to Part 15 Subpart B, of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential environment. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures: • Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 Consult the dealer or an experienced radio/TV technician for help.

To comply with the FCC's RF exposure limits for general population / uncontrolled exposure, this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

CAUTION: Changes or modifications to this equipment not expressly approved by RAB Lighting may void the user's authority to operate this equipment.



Lightcloud is a commercial wireless lighting control system & service. It's powerful and flexible, yet easy to use and install. Learn more at lightcloud.com

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Custom manufactured in China

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Welcome



LCCONTROL20/D10

WE'RE HERE TO HELP: 1 (844) LIGHTCLOUD

1 (844) 544-4825 support@lightcloud.com

Hello

Lightcloud is a wireless lighting control service. The Lightcloud Controller is a remotely controlled switch and 0-10V dimming device.

Product Features

Wireless Control & Configuration

Switching up to 20A

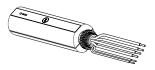
0-10V Dimming

Power Monitoring

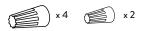
Patent Pending

Contents

Lightcloud Controller



Wire Nuts



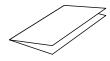
NPT Nut





O-ring

Instruction Manual



Specifications

PARTNUMBER

LCCONTROL20/D10

INPUT

120-277VAC, 50/60Hz <2W (Standby - 4W (Active)

MAXIMUM SWITCHED LOAD RATINGS

For Control of Magnetic, Electronic Ballast or LED 277VAC: 20A Magnetic/Resistive 240VAC: 5A Tungsten/Electronic, 20A FLA/ 60 LRA, 2HP 120VAC: 15A Tungsten, 1HP

OPERATING TEMPERATURE -40°C to +40°C

OVERALL DIMENSIONS

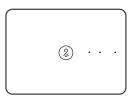
1.55" diameter, 5.75" length 1/2" NPT Mount, Male 16AWG pigtails

WIRELESS RANGE

Line-of-Sight: 1000 feet Obstructions: 100 feet

Warranty is active as long as service plan is active Class 2 IP66 Rated Indoor and Outdoor Rated Wet and Damp Location Plenum Rated

What You Need

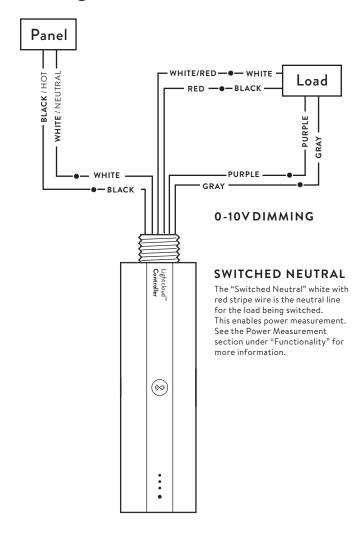


Lightcloud Gateway

A Lightcloud installation requires at least one Lightcloud Gateway to manage your devices.

we[']RE HERE TO HELP: **1 (844) LIGHTCLOUD** or 1 (844) 544-4825 support@lightcloud.com

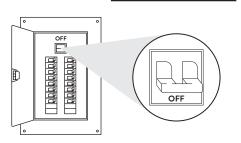
Wiring



Setup & Installation

1 Turn off power

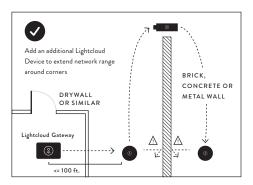
\Lambda WARNING



1a Find a Suitable Location

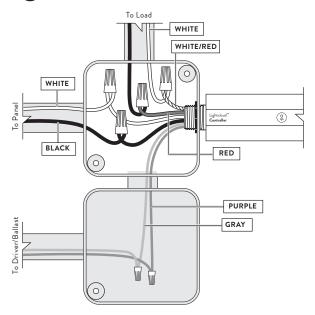
Use these guidelines when installing devices:

- If there is a clear line of sight between two Lightcloud devices, they can be placed up to 1000 feet apart.
- If the two devices are separated by ordinary drywall construction, try to keep them within 100 ft. of each other.
- Brick, concrete and steel construction may require additional Lightcloud devices to go around the obstruction.



) Install your Lightcloud Controller

2a Install at a Junction Box (Indoor/Outdoor)

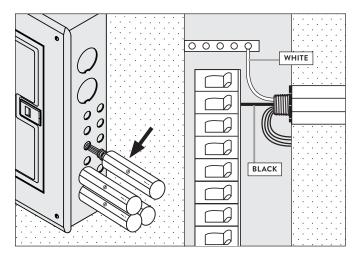


0-10V DIMMING

0-10V is a common method of low-voltage control of dimmable drivers and ballasts. **Purple:** 0-10V positive | **Gray:** 0-10V common

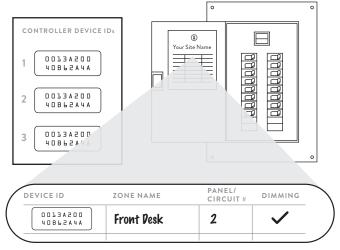
NOTE: The National Electrical Code requires that low-voltage wiring used in the same enclosure as high-voltage wiring have an equal or better insulation rating. You may need to complete your low-voltage wiring in another enclosure or use a partition.





Space and code allowing, you may install Lightcloud devices directly in your breaker box or lighting panel. Alternatively, break out lighting circuits and install Lightcloud devices in a separate trough.

3 Labeling your device



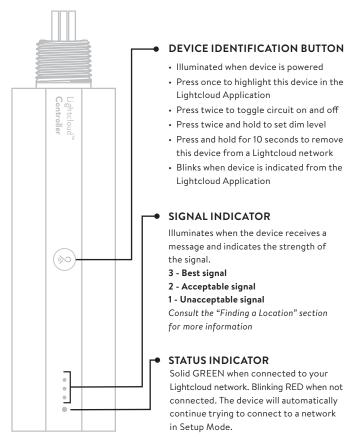
For setup and maintenance, we provide two Lightcloud Device Tables with the Gateway: one that you can attach to your panel and one to hand off to a building manager. Attach the Device Identification stickers included with each device to a row, then write in additional information, such as Zone name, Panel/Circuit Number, and whether or not a zone uses dimming.

4 Power up

To add new devices to your Lightcloud network, call RAB at 1 (844) LIGHTCLOUD, or email us at support@lightcloud.com.

5 Confirm Device Connectivity

Confirm Status Indicator is Solid Green (see details below)





Commission your devices

Log on to www.lightcloud.com or call 1 (844) LIGHTCLOUD

Functionality

Configuration

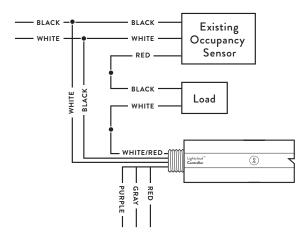
All configuration of Lightcloud products may be performed using the Lightcloud web or mobile application, or by calling RAB.

we're here to help: **1 (844) LIGHTCLOUD** or 1 (844) 544-4825 support@lightcloud.com

Operating Modes

CONTROLLER Provides switching and dimming for a single zone

TRIGGER Detect when an attached circuit is open or closed. For example, you could attach the Controller in Trigger mode to an existing occupancy sensor to allow your Lightcloud system to react to the sensor.



REPEATER: Disables zone control and power measurement, and extends the range of your network.

POWER MEASUREMENT: The Lightcloud Controller is capable of measuring the power usage of the attached circuit. In order to utilize this function, the neutral wire of the load must be connected to the white-red sense wire. If the Switched Neutral line cannot be used, it should be tied to the regular neutral wires (i.e. all neutral wires joined).

POWER LOSS DETECTION: If mains power to the Controller is lost, the device will detect this and alert the Lightcloud application.

EMERGENCY DEFAULT: If communication is lost, the Controller may optionally fall back to a specific state, such as turning the attached circuit on.



Any wires not in use must be capped off or otherwise insulated.

FCC Information:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

Note: This device has been tested and found to comply with the limits for Class B digital devices pursuant to Part 15 Subpart B, of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential environment. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- · Consult the dealer or an experienced radio/TV technician for help.

To comply with the FCC's RF exposure limits for general population / uncontrolled exposure, this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

CAUTION: Changes or modifications to this equipment not expressly approved by RAB Lighting may void the user's authority to operate this equipment.



Lightcloud is a commercial wireless lighting control system & service. It's powerful and flexible, yet easy to use and install. Learn more at lightcloud.com

1 (844) LIGHTCLOUD

1 (844) 544-4825 support@lightcloud.com



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Welcome



WE'RE HERE TO HELP:

1 (844) LIGHTCLOUD 1 (844) 544-4825

support@lightcloud.com

FCC Information:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1. This device may not cause harmful interference, and

2. This device must accept any interference received, including interference that may cause undesired aperation.

Note: This device has been tested and found to comply with the limits for Class B digital devices pursuant to Part 15 Subpart B, of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential environment. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined

by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

· Reorient or relocate the receiving antenna.

· Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
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To comply with FCC RF exposure limits for general population/uncontrolled exposure, this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

CAUTION: Changes or modifications to this equipment not expressly approved by RAB Lighting, Inc. may void the user's authority to operate this equipment.

Hello

Lightcloud is a wireless lighting control service. The Lightcloud Daylight is a remote, self-powered, open-loop light sensor that can switch and dim Lightcloud Controllers and other Lightcloud devices.

Product Features

Wireless Sensing & Configuration Ambient Light Sensor Innovative Self-Powered Design No Batteries Patent Pending

Contents

Lightcloud Daylight







Straight & Angled Mounting Brackets



Power Supply for Setup



USB Cable for Setup

Specifications

PART NUMBER

OPERATING TEMPERATURE -10°C to 40°C

OPERATING HUMIDITY 10% RH to 95% RH

OVERALL DIMENSIONS 5.25" x 3.16" x 1"

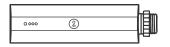
USB POWER SPECIFICATIONS

Nominal Input Voltage100-240VACNominal Input Current6mANominal Power0.2WFrequency47Hz-63Hz

Warranty is active as long as service plan is active. Indoor Rated.

What You Need

2 . . .



Lightcloud Gateway

A Lightcloud installation requires at least one Lightcloud Gateway to manage your devices.

Lightcloud Controller (Or similar Lightcloud actuation device)

The Daylight is designed to remotely control one or more Lightcloud devices that are capable of switching or dimming, such as the Lightcloud Controller or Ceiling Sensor.

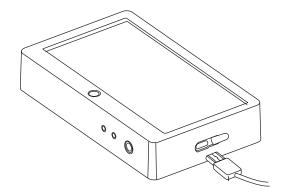
we're here to help: **1 (844) LIGHTCLOUD** 1 (844) 544-4825

support@lightcloud.com

Setup & Installation

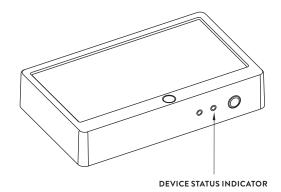
Plug in the Daylight device (setup only)

To join your Daylight to a Lightcloud network, plug it in with the included Micro USB power adapter. The white Power Indicator will come on and the Device Status Indicator will blink red every 10 seconds until it is joined to your network. For setup purposes, you can plug the device in anywhere that's convenient, but please stay near the location where it will be permanently installed in order to ensure continued network connectivity. Once setup has been completed, you can unplug the device and it will operate exclusively on solar power—no batteries necessary.



2 Contact RAB to add your Daylight

Call us at 1(844) LIGHTCLOUD or email support@lightcloud.com and we'll get your Daylight device added to your Lightcloud network immediately. When USB power is removed, it is normal for this LED to be unlit.

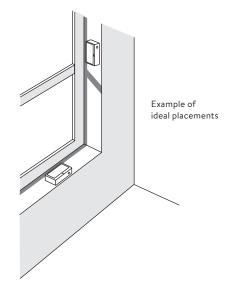


Find a Suitable Location



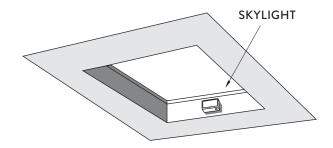
(3)

The Daylight needs sunlight to operate, and must be within range of another Lightcloud device. Direct sunlight is ideal, but indirect sunlight may be acceptable if there's enough of it.





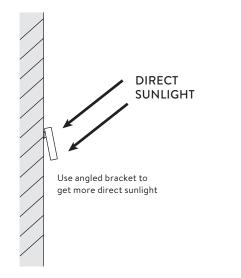
A skylight is a great location for the Lightcloud Daylight. Be aware of where shadows will land throughout the day and position the device where it will receive the most direct sunlight.



NOTE: Remember, south-facing surfaces usually receive more direct sunlight than north-facing surfaces.

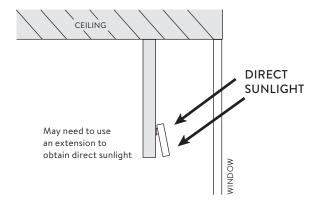


The Daylight includes an angled mounting bracket that can be used to maximize the amount of sunlight landing on the device's face.





In some cases, you may want to use an extension of some kind (not included) to mount the device from the ceiling. Just be sure it ends up in direct sunlight as much as possible.





The Daylight must be within range of a Lightcloud device or Gateway. See "Finding a Location"

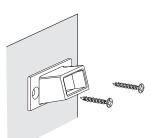


The Daylight will not act as a "repeater" to extend the range of your Lightcloud network. If you need to extend your network range, use a Lightcloud Controller or other AC-powered device.

4 Install



Screw the straight or angled mounting bracket to the mounting surface.

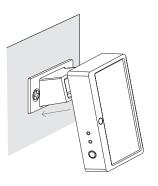


5 Configure

Login at lightcloud.com and click on Devices to associate a zone at your site. The application will show the last measured light level so you can configure actions to take at different levels. Or, simply call or email us:



Snap the Daylight onto the mounting bracket.

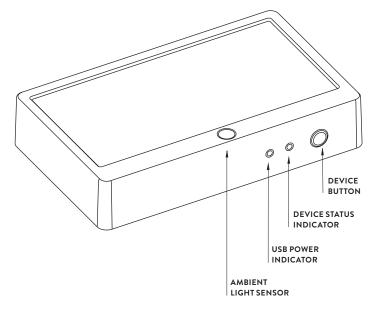


1 (844) LIGHTCLOUD

1 (844) 544-4825 support@lightcloud.com

Functionality

Overview



DEVICE STATUS INDICATOR:

- **Unlit:** When not powered by USB, indicates that the device is joined to a Lightcloud network and is operating normally
- Solid green: When powered by USB, indicates that the device is joined to a Lightcloud network
- Green blink: After pressing the Device Button, indicates that a light level measurement has been transmitted
- Single red blink every 10 seconds: Not joined to a Lightcloud network
- Green/Red alternating: Resetting to factory defaults

USB POWER INDICATOR:

• White: Powered by USB

DEVICE BUTTON:

- Press: Indicate in Lightcloud application and measure light level
- Hold for 10 seconds while USB powered: Force device to leave current Lightcloud network
- Hold for 10 seconds while connecting USB power: Reset to factory defaults and leave current network

DAYLIGHT HARVESTING:

Daylight Harvesting is the use of daylight to offset the use of electric lighting to light a space. If there's enough daylight in a space, the Lightcloud Daylight can make sure the lights are turned down or off, and turn them back on when the sun goes down.

The Lightcloud Daylight automatically takes light level measurements every 10 minutes. Pressing the Device Button will make an immediate measurement. Call or email RAB, or log in to lightcloud.com to configure actions to take at different light levels, such as turning off a zone when the light level exceeds 50 foot-candles.



Lightcloud is a commercial wireless lighting control system & service. It's powerful and flexible, yet easy to use and install. Learn more at lightcloud.com

1 (844) LIGHTCLOUD 1 (844) 544-4825



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Welcome



we're here to help: **1 (844) LIGHTCLOUD** or 1 (844) 544-4825

Hello

Lightcloud is a wireless lighting control service. The Lightcloud Dimmer is an in-wall switch that connects wirelessly to a Lightcloud Controller to provide switching, dimming and scene control.

Product Features

Wireless Control & Configuration Zone Switching & Dimming Dim Level Indicator Scene Selection Nightlight

Contents

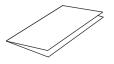




Faceplate Bracket







2x 6-32 1/2" Screws



2x 6-32 5/16" Screws



Specifications

PART NUMBER

INPUT 120-277VAC, 50/60Hz, 2W

OPERATING TEMPERATURE 0°C to 40°C

DIMENSIONS

Dimmer: 1.77"W x 2.7"H x 1.49"D Faceplate: 2.94"W x 4.69"H x 0.06"D Faceplace Bracket: 2.8"W x 4.55"H x 0.13"D

18AWG grounding; terminals supporting up to 12AWG wire

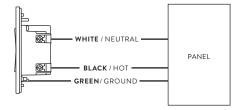
WIRELESS RANGE Line-of-Sight: 1000 feet Obstructions: 100 feet

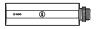
What You Need





A Lightcloud Gateway







A Ceiling Sensor (Or similar actuator)

we're here to help: 1 (844) LIGHTCLOUD

or 1 (844) 544-4825

CAUTION

- Use only copper wire.
- Do not operate with the faceplate removed.
- This product should only be installed by a qualified electrician and in compliance with local and national electrical codes.
- This product should only be installed in a UL-approved single gang wall-box enclosure.
- Indoor use only.

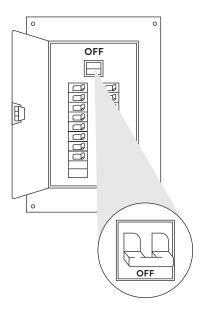
Finding a suitable location

Lightcloud uses a wireless mesh network to connect devices such as the Dimmer to the Gateway. Unlike a WiFi router, each Lightcloud device may connect another device to the network. If there is a clear line of sight between two Lightcloud devices, they can be placed up to 1000 feet apart. If the two devices are separated by ordinary drywall construction, try to keep them within 100 feet of each other. Brick, concrete and steel construction may require additional AC-powered Lightcloud devices to go around the obstruction. See the Deployment section of your Gateway for more information.

Setup & Installation

1 Turn off power

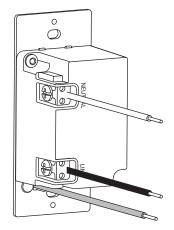
▲ WARNING



(2) Install the Lightcloud Dimmer

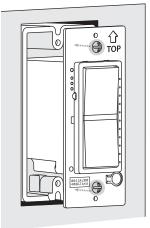


2a Screw the line (black) and neutral (white) wires into the labeled connectors on the back of the Dimmer. Connect the ground wire (green).





Use the two 6-32 1/2" Phillips round head screws to secure the Dimmer to the junction box.

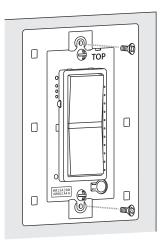


Make sure the arrow labeled "TOP" is pointing up.

2 Install the Lightcloud Dimmer (cont'd)

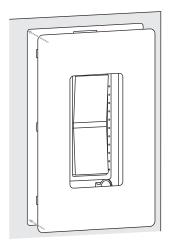


Use the two 6-32 5/16" Phillips flat-head screws provided to secure the faceplate bracket to the Dimmer.

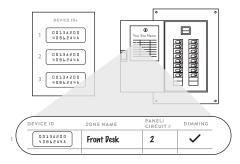




Snap the faceplate onto the faceplate bracket.



3 Labeling your device



For setup and maintenance, we provide two Lightcloud Device Tables with the Gateway: one that you can attach to your panel and one to hand off to a building manager. Attach the Device Identification stickers included with each device to a row, then write in additional information, such as Zone name, Panel/Circuit Number, and whether or not a zone uses dimming.

Power up

To add your Lightcloud Dimmer to your system, enable Setup Mode via the Lightcloud application or call RAB at 1 (844) 544-4825. When the Dimmer powers up, it will automatically try to join, and keep trying until it is able to join.

If you are installing multiple devices, you may wait until they are all installed to enable Setup Mode.



When all devices have been commissioned, remember to disable Setup Mode.

5 Confirm device connectivity

Confirm Network Status Indicator is solid green (see details below).

Functionality

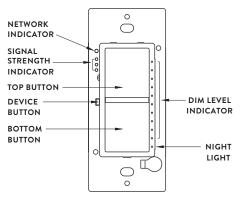
Configuration

To pair the Dimmer with a zone, assign scenes or perform other configuration, use the Lightcloud web application or call RAB:

> WE'RE HERE TO HELP: 1 (844) LIGHTCLOUD

> > or 1 (844) 544-4825

Overview



DEVICE BUTTON (press using paperclip):

- Single press: Indicate in Lightcloud application
- Hold for 10 seconds: Force device to leave current Lightcloud network

DIM LEVEL INDICATOR:

• Displays current dim level (Zone mode)

NIGHTLIGHT:

• White: Lit when zone is off so you can find the dimmer

SIGNAL STRENGTH INDICATOR:

• Indicates strength of the connection to next Lightcloud Device

NETWORK INDICATOR:

- Solid green: Connected to a Lightcloud network
- Blinking red: Not connected to a Lightcloud network The network and signal strength indicators are lit for 10 minutes following initial power on. To display the indicators later on, simply press the device button once.

TOP AND BOTTOM BUTTONS:

Functionality depends on which mode is being used; see next page for details.

Functionality (cont'd)

Features

The Lightcloud Dimmer can be used in Switch Mode, Dimmer Mode or Scene Mode. To switch between these modes and access other configuration options, use the Lightcloud web application, or call RAB at 1-844-LIGHTCLOUD.

SWITCH MODE: In Switch Mode, the Dimmer is paired with a specific zone to provide switching.

Top and Bottom Buttons:

• Single Press: Switch zone on/off

DIMMER MODE: Dimmer Mode takes Switch Mode and adds dimming capabilities.

Top Button:

- Single press while zone is off: switch zone on.
- Single press while zone is on: dim up to max gradually, stopping at current position if bottom button is pressed.
- Press and hold while zone is on: dim up gradually, release to set dim level.

Bottom Button:

- Single press while zone is on: switch zone off.
- Press and hold while zone is on: dim down gradually, release to set dim level.

SCENE MODE: In Scene Mode, the top and bottom buttons activate preselected scenes. This can be configured using the Lightcloud web application or by calling RAB.

FCC Information:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

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- . Increase the separation between the equipment and receiver.
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CAUTION: Changes or modifications to this equipment not expressly approved by RAB Lighting, Inc. may void the user's authority to operate this equipment. Custom manufactured in China.





Manual

Device Specifications

PART NUMBER

LCGATEWAY

ELECTRICAL

The Lightcloud Gateway is designed to be hard-wired to AC power by a qualified electrician.

INPUT

120-277 VAC, 50/60 Hz 60-45mA

BATTERY

Li-ion battery. Contact RAB only for replacement batteries. CAUTION! RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO LOCAL LAWS. Some communities offer recycling or collection of rechargeable batteries contact your local government for disposal practices in your area.

DISCONNECT

An external readily accessible disconnect device, such as a circuit breaker, is required.

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- 8 Lightcloud Devices

9 Finding a Suitable Location

- 10 Best Practices
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- 12 Getting Started

13 Installation

- 14 Lightcloud Gateway
- 17 Lightcloud Devices & Table
- 18 Setup
- 18 Network Setup
- 18 Gateway Activation
- 18 Lightcloud Devices

Welcome to lighting control that just works.

Lightcloud is a cloud-based wireless lighting control system that makes it easy to take charge of your lighting—from sensing to dimming, schedules to scenes, and everything in between. Control and configure your system remotely using the Lightcloud Application, or call RAB to have our experts set up your system just how you need it.

System Overview

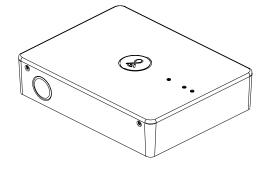
An individual Lightcloud installation, or Site, requires at least one Lightcloud Gateway depending on the environment and usage. Your Lightcloud devices communicate with each other and the Gateway via a wireless mesh network, which allows site layout to be flexible and robust.

The Lightcloud Gateway and Devices require a subscription to function beyond the installation period. Call RAB at **1 (844) LIGHTCLOUD** or visit lightcloud.com to set up your account. Your Lightcloud subscription gets you these state-of-the-art features:

- Online control & configuration at control.lightcloud.com
- Device commissioning
- Free support
- Telephone concierge
- Energy monitoring

Lightcloud Gateway

The Gateway connects your system to our secure, private server via a cellular signal, so you don't have to worry about providing your own internet connection. With the Gateway powered and connected, your Lightcloud site is at your command with the Lightcloud Application. For maximum security, the Gateway isn't exposed to the internet at all, and for maximum reliability, the Gateway contains an Uninterruptible Power Supply (UPS) that will maintain power for up to 2 hours. When the Gateway is not powered or available, switching devices such as the Controller will fall back to a configurable emergency mode, such as turning on to full brightness.



Lightcloud Devices

LIGHTCLOUD DEVICES THAT CONNECT TO THE GATEWAY



Lightcloud Controller

The Controller switches circuits up to 20A as well as provides a 0-10V dimming interface for dimmable drivers and ballasts.



Lightcloud Ceiling Sensor

The Ceiling Sensor is an intelligent passive infrared motion sensor that can be configured for both occupancy and vacancy sensing. Switches up to 15A and provides 0-10V dimming.



Lightcloud Daylight

The Daylight is an innovative, self-powered daylight harvesting sensor that measures available light and adjusts your lighting automatically.



8

Lightcloud Dimmer

The Wall Dimmer puts advanced control at your fingertip. Configure via the Lightcloud App to switch & dim a zone or change scenes.

Finding a Suitable Location

The Gateway should be installed in a dry or non-condensing damp environment only.

Use these guidelines when installing additional Lightcloud devices: • If there is a clear line of sight between two devices, they can be placed up to 1000 feet apart.

- If the two devices are separated by ordinary drywall construction, try to keep them within 100 feet of each other.
- Brick, concrete and steel construction may require additional devices to go around the obstruction.

Best Practices

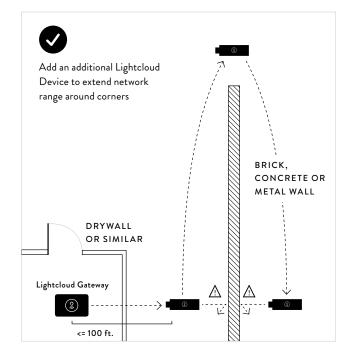
Unlike an ordinary WiFi router, where all devices must be within range of the router, hard-wired Lightcloud devices extend the range of the network—so as long as each device is within range of another, you'll have a strong, reliable system.

NOTE: Lightcloud Daylight devices do not extend the range of a Lightcloud network.

PROBLEM MATERIALS



Large amounts of metal, concrete and brick are bad news for radio signals; in some cases, you'll have to go around these obstacles with additional AC-powered Lightcloud devices.



Best Practices (Continued)

Lastly, consider sources of invisible interference. Avoid placing Lightcloud devices near microwaves, motors (especially elevator mechanical rooms) or any other radio amplifiers and antennas.

PROBLEM DEVICES & SIGNALS



MICROWAVES

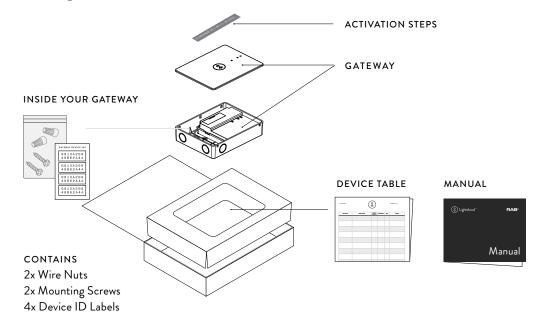


ELEVATOR MECHANICAL ROOMS



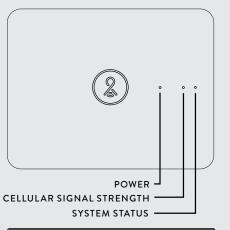
AMPLIFIERS & ANTENNAS

Getting Started



Installation

The Lightcloud Gateway is rated 120-277VAC and contains an integral junction box for hard-wired installation by a qualified electrician.





LED Indicators

POWER Green: Fully powered

CELLULAR

Off: No or poor cellular signal. You must move the Gateway to a location with better cellular signal. Solid Yellow: Adequate cellular signal. This signal strength works for most applications, but if possible, move to a location with better signal. Solid Green: Good cellular signal.

SYSTEM STATUS

Blinking Yellow: Initializing Solid Yellow: Error: Cannot reach Lightcloud service. Check Cellular Signal Strength and call RAB for technical support. Blinking Green: Ready to connect with new

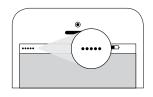
Lightcloud devices
Solid Green: Normal operation

Installing the Lightcloud Gateway

Follow instructions and steps to successfully install your Gateway.

(2)

(1) STEP ONE



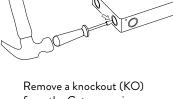
Choose a location with good cellular signal. Check your phone's signal for reference.

NOTE: Locations with significant concrete and brick construction, or underground locations, are not recommended. Do not install inside metal enclosures. © OFF © OFF © OFF © OFF © OFF

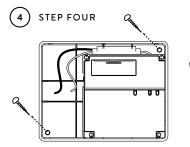
STEP TWO

Turn off the breaker and prepare the circuit you'll use to power the Gateway. A dedicated circuit is recommended.



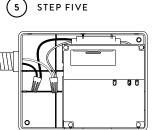


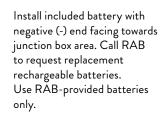
Remove a knockout (KO) from the Gateway using a flat-blade screwdriver and hammer. Place the screwdriver blade at the edge of the KO, then tap the screwdriver with the hammer to weaken the attachment. Work your way around the edge of the KO until it breaks away.



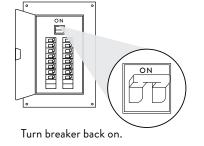
Mount the Gateway to the installation surface using size 10 screws appropriate for the surface material. For direct installation onto an external junction box, use the junction box's included screws.

NOTE: Conduit must be used to connect to side knockouts.





Connect hot and neutral wires with included wire nuts.

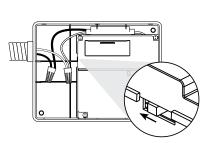


(6)

STEP SIX

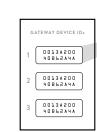
Installing Lightcloud Gateway (Continued)

(8)



STEP SEVEN

(7)

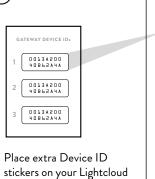


STEP EIGHT

Turn on the Gateway main power switch. Replace outer cover and use included screws to secure.

When all devices are installed and powered, you're ready to call RAB to activate and verify your system, and complete your site's configuration.

NOTE: Use only RAB authorized parts.



stickers on your Lightcloud Device Table (see page 18) for future reference.

For each device, find the number from the panel board and write it down on the Device Table.

SITE NAME: GATE MAY ID-Device Table 1 (844) LIGHTCLOUD 10844) 544-4825 lightcloud.com RAB

Lightcloud Devices

Lightcloud devices that are mains hard-wired powered are designed to be installed on a junction box or similar enclosure, and must be installed by a qualified electrician. Refer to your device's manual for installation considerations and best practices.

TIP: Use extra Device ID stickers on or near your devices or circuits for easier identification.

Lightcloud Device Table

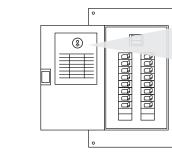
The Device Table is essential for referencing during setup or for troubleshooting-don't forget it! Two copies are provided: one to keep near your Gateway, and one for the building owner or facility manager to file.

IN THE BOX 2 443044710-NAME AND ADDRESS OF ADDRESS

Device Table

MOUNTIT

Mount device table to breaker box.



HOW TO USE IT

Place Gateway ID sticker at the top.



PWR/ENGY: if a zone uses the Controller's integrated power monitoring, place a checkmark.

DIM: if a zone uses the Controller's 0-10V dimming wires, place a checkmark here.

Setup

Gateway Activation

When you power your Gateway and it shows sufficient cellular signal (solid yellow or green LED), call **1 (844) LIGHTCLOUD** or 1 (844) 544-4825 to activate it and complete the rest of your site setup.

Network Setup

To add new devices to your Lightcloud network, call RAB at **1 (844)** LIGHTCLOUD.

Software Setup

Lightcloud is cloud-based—no software to install or maintain, ever. Once you have a Lightcloud account, you can login to lightcloud.com at any time to configure and control your system.

Full Service

Need to change something about your system? No need to log in-RAB can do it for you! Call **1 (844) LIGHTCLOUD** and our support specialists will get you where you want to be.

FCC Information:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1. This device may not cause harmful interference, and

2. This device must accept any interference received, including interference that may cause undesired operation.

Note: This device has been tested and found to comply with the limits for Class B digital devices pursuant to Part 15 Subpart B, of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential environment. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

To comply with the FCC's RF exposure limits for general population / uncontrolled exposure, this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

CAUTION: Changes or modifications to this equipment not expressly approved by RAB Lighting may void the user's authority to operate this equipment.



Lightcloud is a commercial wireless lighting control system & service. It's powerful and flexible, yet easy to use and install. Learn more at lightcloud.com

1 (844) LIGHTCLOUD 1 (844) 544-4825 support@lightcloud.com



© RAB Lighting, Inc 170 Ludlow Avenue Northvale, NJ 07647 Custom manufactured in China

Welcome



we're here to help: **1 (844) LIGHTCLOUD** 1 (844) 544-4825

support@lightcloud.com

Hello

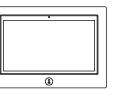
Lightcloud is a wireless lighting control service. The Lightcloud Touch is a wall-mounted 10" touchscreen tablet that gives users a convenient and customizable interface for controlling a Lightcloud site.

Product Features

AC-powered for permanent installation Customizable zone and scene control Direct local control for minimum latency Easy setup from your computer or mobile device—or just call RAB Patent Pending

Contents

Lightcloud Touch





Six #6-18 x 1" Drywall Screws





. . .

2

Lightcloud Gateway

A Lightcloud installation requires at least one Lightcloud Gateway to manage your devices.



Lightcloud Controller (Or similar Lightcloud actuation device)

WE'RE HERE TO HELP: 1 (844) LIGHTCLOUD

1 (844) 544-4825 support@lightcloud.com

Specifications

PART NUMBER LCTOUCH10

INPUT 120VAC, 0.3-0.15A, 50/60Hz

OPERATING TEMPERATURE 0°C to 40°C **OVERALL DIMENSIONS** 11" x 7.8" x 2.3"

WIRELESS RANGE Line of Sight 1000 feet Obstructions 100 feet

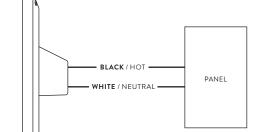
Indoor Rated.

MAXIMUM RELATIVE HUMIDITY 90%

Finding a Suitable Location

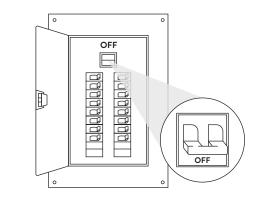
Lightcloud uses a wireless mesh network to connect devices such as the Dimmer to the Gateway. Unlike a WiFi router, each Lightcloud device may connect another device to the network. If there is a clear line of sight between two Lightcloud devices, they can be placed up to 1000 feet apart. If the two devices are separated by ordinary drywall construction, try to keep them within 100 feet of each other. Brick, concrete and steel construction may require additional AC-powered Lightcloud devices to go around the obstruction. See the Deployment section of your Gateway for more information.

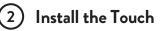
Wiring



Setup & Installation

1 Turn off power AWARNING

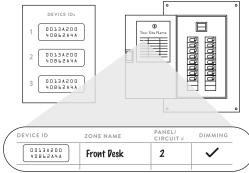


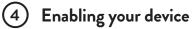


- a. Choose a junction box at which to install the Touch, keeping in mind the guidelines from "Finding a Suitable Location".
- b. Affix the bracket to the wall using the six #6-18 x 1" screws included.
- c. Connect hot and neutral wires to the wires on the back of the Touch as shown in the "Wiring" section.d. Hang the touch from the bracket.

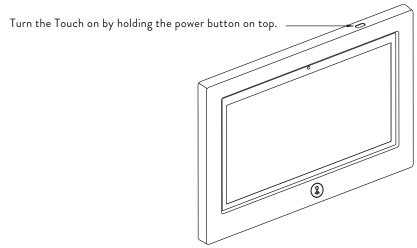
3 Labeling your device

For setup and maintenance, we provide two Lightcloud Device Tables with the Gateway: one that you can attach to your panel and one to hand off to a building manager. Attach the Device Identification stickers included with each device to a row, then write in additional information, such as Zone name, Panel/Circuit Number, and whether or not a zone uses dimming.





4a



4 Enabling your device (cont'd)



Call RAB at 1 (844) LIGHTCLOUD, or email us at support@lightcloud.com, to add the Touch to your Lightcloud network.





Once the Touch has joined your network, you'll see the screen below.

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		2	

Functionality

Configure

All Lightcloud products can be commissioned and configured by:

- Logging on to lightcloud.com
- Calling RAB at 1 (844) LIGHTCLOUD
- Emailing us at support@lightcloud.com

1 Configuring the Touch by calling or emailing RAB

1 (844) LIGHTCLOUD

1 (844) 544-4825 support@lightcloud.com





Navigate to https://control.lightcloud.com and log in.



Functionality (cont'd)

Configuring the Touch using the web/mobile application (cont'd) (2)

2b Click the menu icon in the top left.

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2c Navigate to your Site, then click Devices.





2d Find your Touch device in the Device List on the left

Acme Office Park	⊙ (-
All Devices	Phase when a decision the laft.
- Terrer Davis	
controller 1	
controller 2	
Touch CE00	-

Functionality (cont'd)

2

Configuring the Touch using the web/mobile application (cont'd)



Click the icon to add zone and/or scene controls to your Touch.

In this example, we've configured our Touch to control two zones and one scene:

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Within a few seconds, the tablet UI refreshes to reflect our changes.

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FCC Information:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1. This device may not cause harmful interference, and

2. This device must accept any interference received, including interference that may cause undesired operation.

Note: This device has been tested and found to comply with the limits for Class B digital devices pursuant to Part 15 Subpart B, of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential environment. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 Consult the dealer or an experienced radio/TV technician for help.

To comply with FCC RF exposure limits for general population/uncontrolled exposure, this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

CAUTION: Changes or modifications to this equipment not expressly approved by RAB Lighting, Inc. may void the user's authority to operate this equipment.