LightCloud LCLC Luminaire Controller User Manual

Contents

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WE'RE HERE TO HELP:

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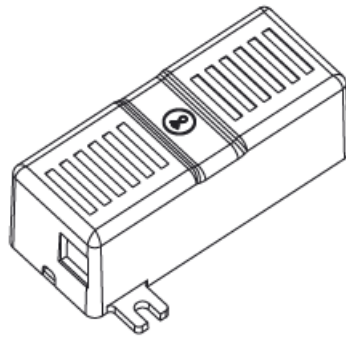- **support@lightcloud.com**

Hello
Lightcloud is a wireless lighting control system. The Lightcloud Luminaire Controller is a remotely controlled switching and dimming device that can be installed into luminaires.

Product Features

- Wireless Control & Configuration
- Switching up to 3A
- 0-10V Dimming
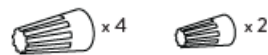- Power Monitoring
- Patent Pending
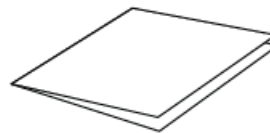
Contents

Actuator Module

Radio Module

Wire Nuts

x 4   x 2

Instruction Manual

O-ring

Specifications & Ratings

- **PART NUMBER** LCLC
- **INPUT** 120/277VAC, 50/60Hz
- **CURRENT DRAW** <0.6W (Standby) – 1W (Active)
- **LOAD SWITCHING CAPACITY LED**, CFL, Tungsten 120/277VAC 500W;
- **Magnetic** 120VAC 264VA, 277VAC 500VA; Resistive/Inductive 120VAC 500W
- **OPERATING TEMPERATURE**: -40°C to +50°C max temp
- **ACTUATOR MODULE OVERALL DIMENSIONS**: 3.7" x 1.5" x 1.3"
- **RADIO DIMENSIONS**: 1.3" x .8"
- **WIRELESS RANGE**
    - **Line of Sight**: 700 feet
    - **Obstructions:** 70 feet
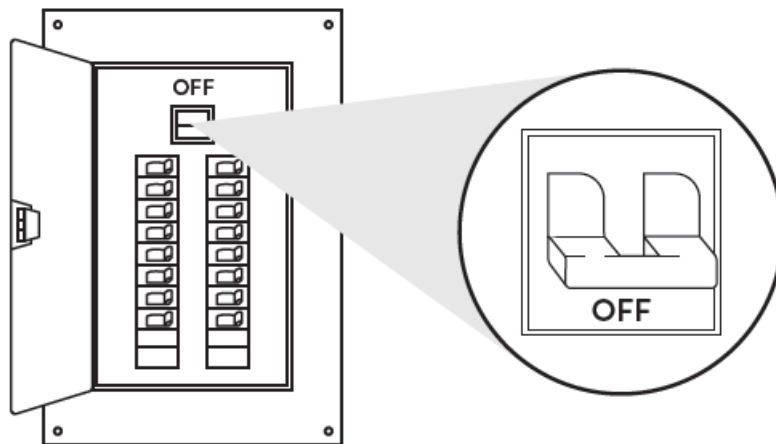- **RATINGS:** Radio is IP66 rated and suited for outdoor or wet locations

What you need

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

Setup & Installation

1. **Turn off power**

Find a suitable location

Use these guidelines when installing devices:

1. If there is a clear line of sight between a LuminaireController and another Lightcloud device they can be placed up to 700 feet apart.
2. If a Luminaire Controller and another Lightcloud device are separated by ordinary drywall construction, try to keep them within 70 ft. of each other.
3. Brick, concrete and steel construction may require additional Lightcloud devices to go around the obstruction.

Add an additional Lightcloud Device to extend network range around corners

DRYWALL OR SIMILAR

BRICK, CONCRETE, OR METAL WALL

Lightcloud GATEWAY

<= 70 ft.
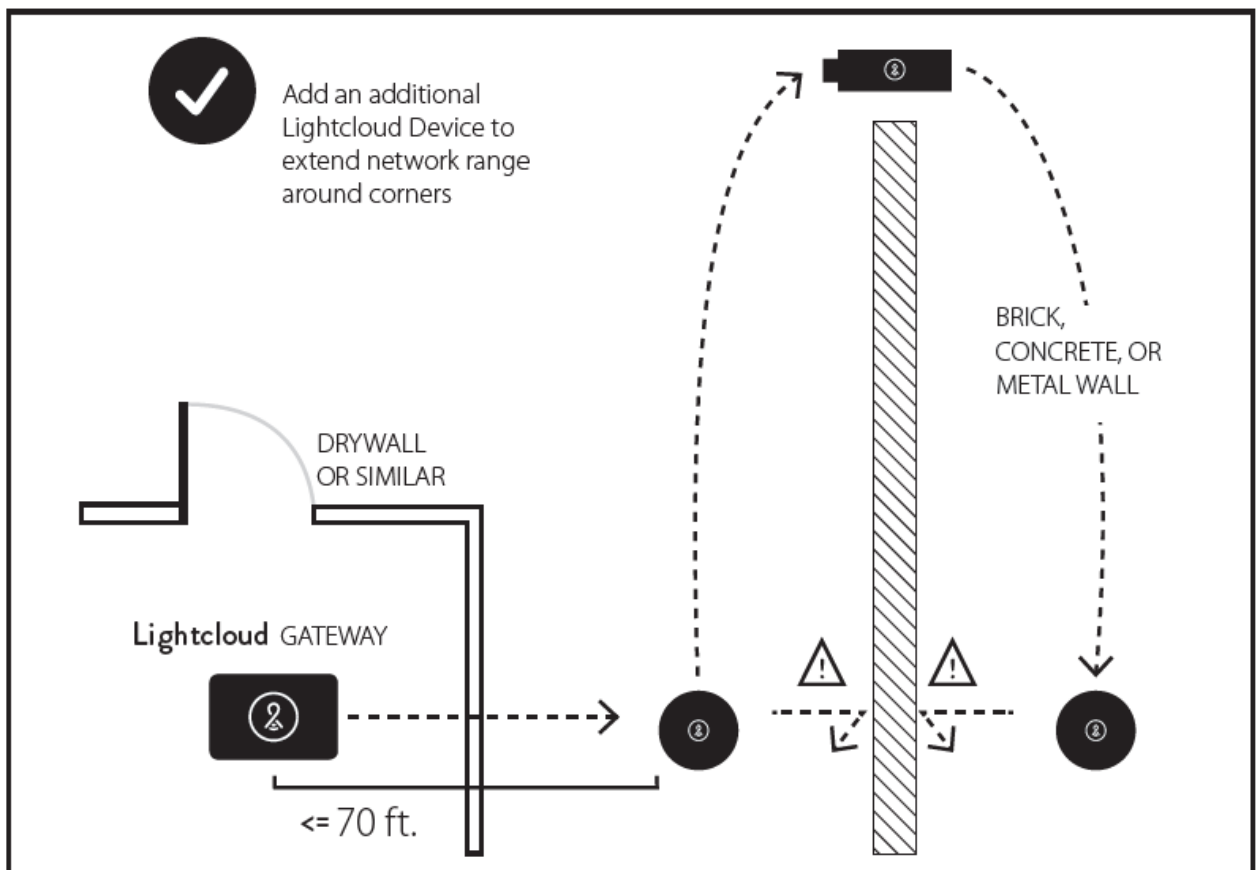
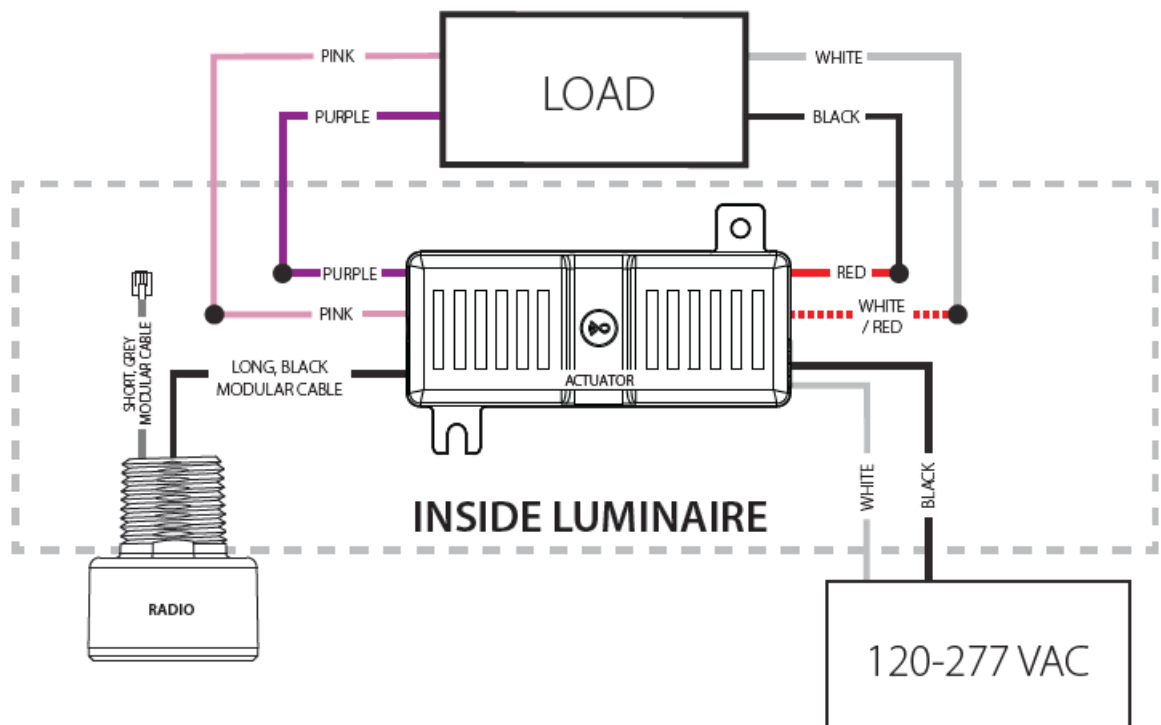2. **Install the Luminaire Controller**

   For luminaires pre-installed with the Luminaire Controller, skip to Step 3.

   1. Fixture installation with actuator module inside
   2. If the interior of your luminaire can accommodate the dimensions of the actuator module, install the actuator module inside the housing, and attach the radio module to the outside of the housing via a knockout

   3. Installation with junction box

      If the interior of your luminaire cannot accommodate the actuator module, the Luminaire Controller can be mounted into a junction box, with the radio module always outside any metal enclosure. If no sensor is

used then the second modular cable can be tied off and placed inside the fixture or box
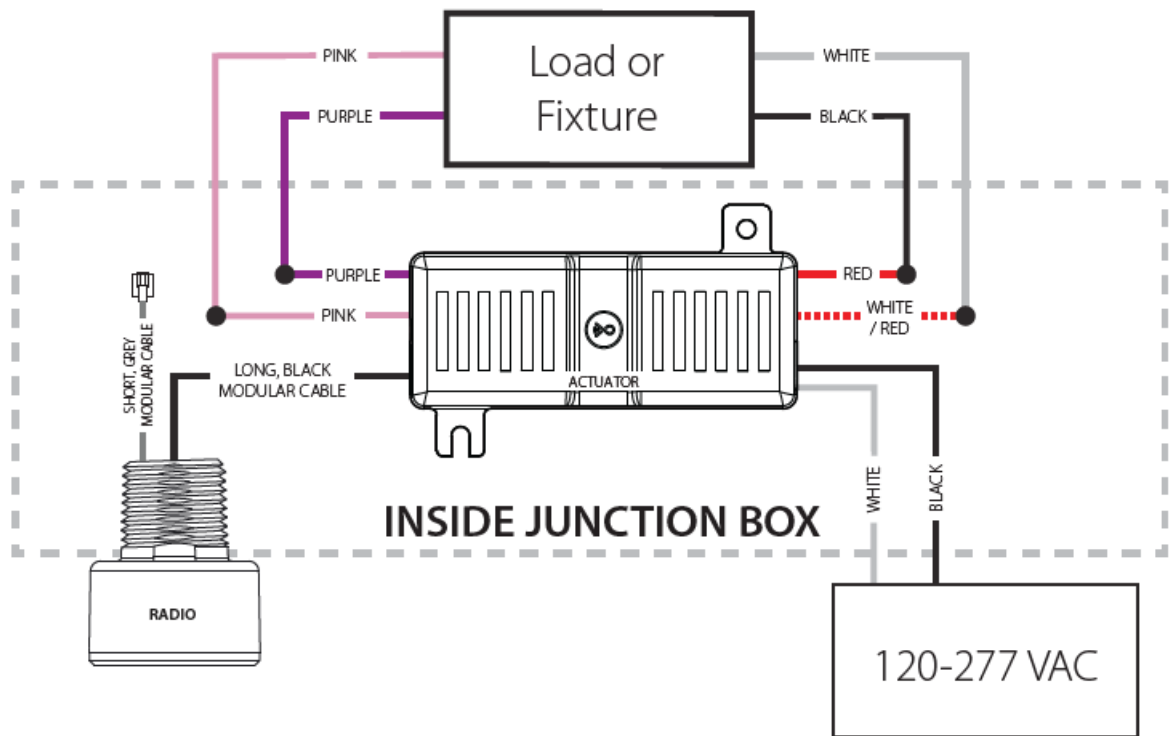

3. **Install Luminaire**
    1. Install the fi xture with integrated Luminaire Controller to a constant power source.
    2. Do not place Lightcloud-controlled fi xtures down circuit from any other switching devices such as switches, sensors, or time clocks

4. **Labeling your device**
    1. When installing devices, it's important to keep track of their
    2. Device IDs, installation locations, panel/circuit #s, dimming function, and any additional notes. To organize this information, use the Lightcloud Installer Application (A) or Device Table (B).

    Lightcloud installer application

        1. Install the LC Installer Application:
            1. LC Installer is available for iOS and Android.
        2. Scan & Install Lightcloud Devices:
            1. Scan each device and assign to a room. It's recommended that each device is scanned just before or just after being wired so no devices are missed. The more notes that are given, the easier it is to commission the system
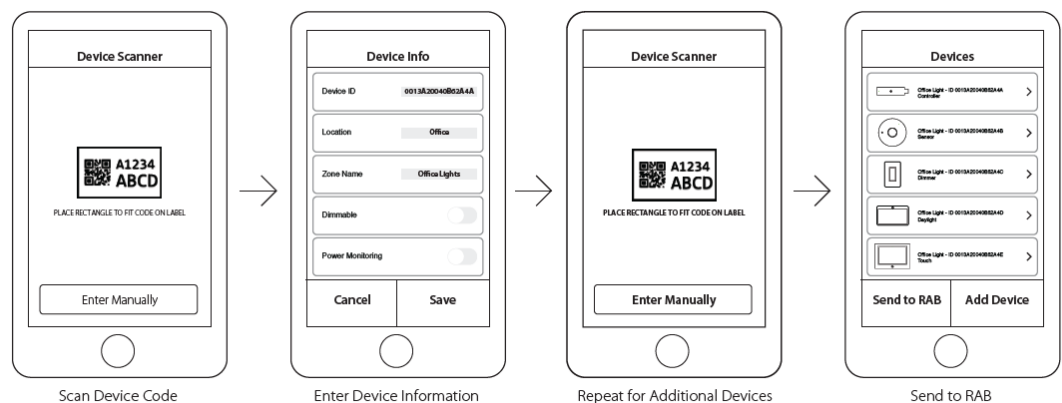
Send to RAB:

Once all of the devices have been added and organized, submit the information for commissioning.

3. **Device table**

Two Lightcloud Device Tables are provided with each Gateway: one that you can attach to your panel and one to hand off to a building manager. Attach the Device Identifi cation 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.

5. **Power up**

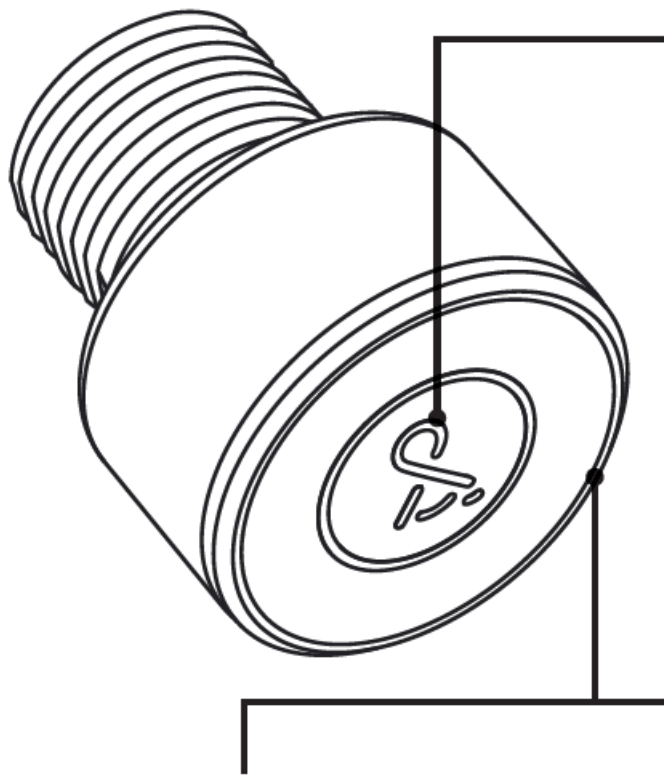To add devices to your Lightcloud network, call RAB at 1 (844) LIGHT CLOUD, or email us at **support@lightcloud.com**

6. **Verify power and local control**

Confi rm Status Indicator is blinking red. Confirm local control using the Device Indentification Button

DEVICE IDENTIFICATION BUTTON

- Press once to highlight this device in the Lightcloud App
- 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

STATUS INDICATOR

To check the signal strength, press the device button once. Also Illuminates when the device receives a message and indicates the strength of the signal by number of blue blinks:

3 - Best signal
2 - Acceptable signal
1 - Unacceptable signal
Consult the "Finding a Location" section for more information

SIGNAL INDICATOR

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

7. **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 Application, or by calling RAB.

Power measurement

The Lightcloud Luminaire Controller is capable of measuring the power usage of the attached luminaire. In order to utilize this function, the neutral wire of the load must be connected to the white-red neutral wire. If the white-red 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 luminaire on. (Warning: 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 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 of 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. 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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Documents / Resources

LightCloud LCLC Luminaire Controller [pdf] User Manual
LCLC Luminaire Controller, LCLC, Luminaire Controller, Controller