INSTRUCTIONS
FIELD-ADJUSTABLE SR™ INSTALLATION

RAB®

RAB Lighting is committed to creating high-quality, affordable, well-designed and energy-efficient LED lighting and controls that make it easy for electricians to install and end users to save energy. We'd love to hear your comments. Please call the Marketing Department at 888-RAB-1000 or email: marketing@rablighting.com

SR2   SR3   SR4   SR8

IMPORTANT

READ CAREFULLY BEFORE INSTALLING FIXTURE. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.
RAB 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.
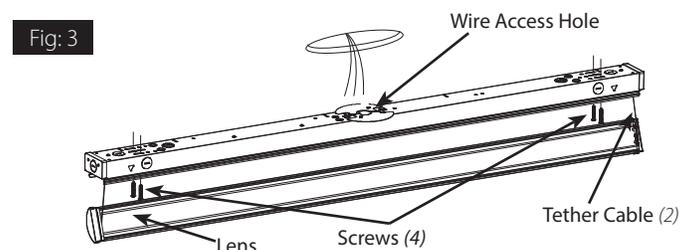**WARNING: Disconnect or turn OFF power at the electrical panel before installing or maintaining fixture. No User serviceable parts inside fixture.**
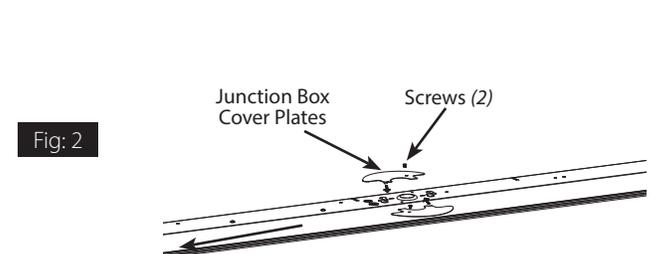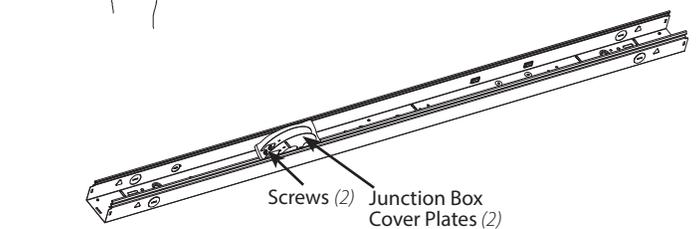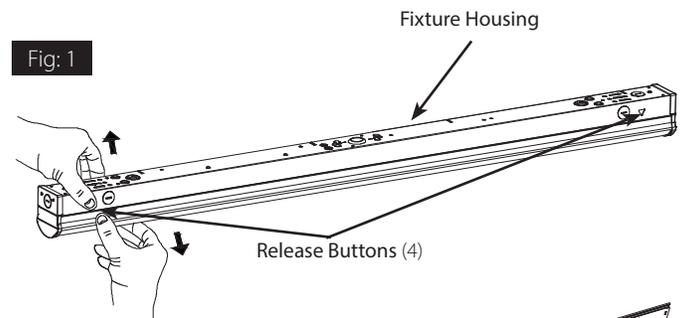**Suitable for damp locations. Suitable for operation in ambient not exceeding 50°C.**

SURFACE MOUNTING

The fixture is suitable for indoor ceiling mounting, as follows:

1. Press and hold the **Release Buttons** *(4)* on both sides of the **Fixture Housing** to release the **Lens** *(Fig. 1)*. When pressing the **Release Buttons** use one hand to hold the **Lens** and press the **Release Buttons** on both sides of the **Fixture** with the other hand. **CAUTION: The Lens may drop out quickly.** Lens is supported with *(2)* **Tether Cables** *(Fig. 3)*. The **Junction Box Cover Plate** is placed in the housing.

2. Feed supply wires through **Wire Access Hole**. Secure **Fixture Housing** to the junction box or building structure per NEC Code *(Fig. 3)*.

3. Make electrical connections as shown in wiring diagram *(Fig. 11)*. Use approved wiring connectors and wire to local NEC codes. Push all wires back into **Fixture Housing**. Be careful not to pinch wires.

4. Snap **Lens** back into **Fixture Housing** and remove protective plastic from **Lens**.

WARNING: To prevent wiring damage or abrasion, do not expose wiring to sharp objects.

Fig: 1

Fixture Housing

Release Buttons (4)

Screws *(2)*   Junction Box Cover Plates *(2)*

Fig: 2

Junction Box Cover Plates   Screws *(2)*

Fig: 3

Wire Access Hole

Tether Cable *(2)*

Lens   Screws *(4)*

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V-HOOK / CHAIN MOUNTING

The fixture can be mounted using **V-Hooks** and **Chain** *(ordered separately, CAT# SR VHOOK KIT)*.

1. Loop the **V-Hooks** into the **Mounting Slots** to each end of the **Fixture Housing** as shown in Fig. 4.

2. Connect the **Chains** to the mounting surface and hang the **Fixture** from **V-Hooks** as shown in *Fig. 5*.

3. Fixture mounting height and spacing should be determined by application requirements. **V-Hook** and **Chain i**s suitable to support four *(4)* times the weight of the Fixture.

4. Press and hold the **Release Buttons** *(4)* on both sides of the **Fixture Housing** to release the **Lens** *(Fig. 1)*. When pressing the **Release Buttons** use one hand to hold the **Lens** and press the **Release Buttons** on both sides of the **Fixture** with the other hand. **CAUTION: The Lens may drop out quickly**. Lens is supported with *(2)* **Tether Cables** *(Fig. 3)*.

5. Make electrical connections as shown in wiring diagram *(Fig. 11)*. Use approved wiring connectors and suitable conduit *(by others)*. Wire to local NEC codes. Push all wires back into **Fixture Housing**. Be careful not to pinch wires.

6. Snap **Lens** back into **Fixture Housing** and remove protective plastic from **Lens**.

WARNING: To prevent wiring damage or abrasion, do not expose wiring to sharp objects.
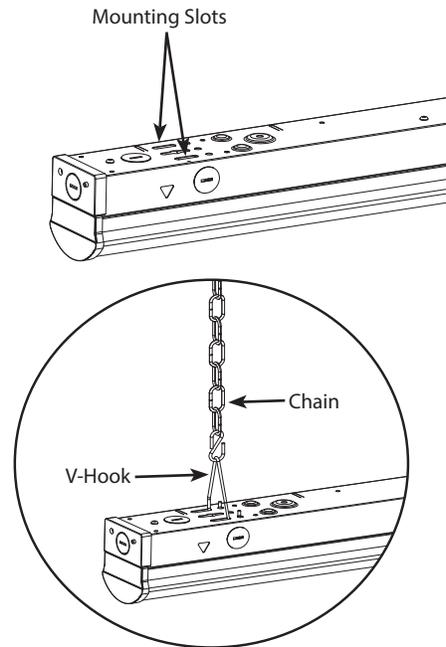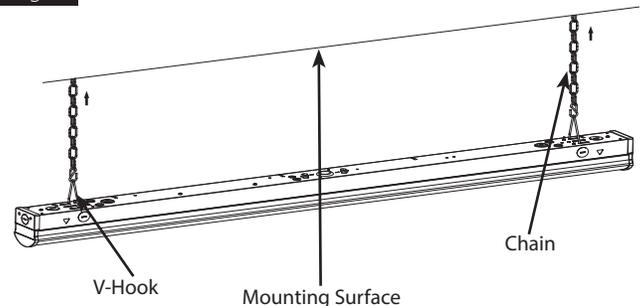
Fig: 4

Mounting Slots

Chain

V-Hook

Fig: 5

V-Hook

Mounting Surface

Chain

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CONTINUOUS RUN MOUNTING *(MULTIPLE FIXTURES CAN BE MOUNTED TOGETHER)*

For Surface Mounting
(Multiple fixture wiring kit sold separately, CAT# SR JOIN KIT)

1. Press and hold the **Release Buttons** *(4)* on both sides of the **Fixture Housing** to release the **Lens** *(Fig. 1)*. When pressing the Release Buttons use one hand to hold the **Lens** and press the **Release Buttons** on both sides of the **Fixture** with the other hand. **CAUTION: The Lens may drop out quickly**. Lens is supported with *(2)* **Tether Cables** *(Fig. 3)*.

2. Use a screwdriver to remove **End Cap** on fixture, install fixture to the Ceiling then install the next fixture to the first one (Fig. 6).

3. Attach both **Junction Box Cover Plates** to the **Fixture Housing** by sliding in the direction of arrows as shown in Fig. 2. Secure with *(4)* **Screws** *(provided)*. Only one Fixture needs to be electrically hardwired from above.

4. Feed wires through the Knockout holes on the **End Caps**. Connect the fixtures to be connected in series with WAGO terminals according to colors and connect them to the main wires. *(Fig. 7)*.

5. Make electrical connections as shown in wiring diagram *(Fig. 11)*. Use approved wiring connectors and wire to local NEC codes. Push all wires back into **Fixture Housing**. Be careful not to pinch wires.

6. Snap Lens back into Fixture Housing and remove protective plastic from Lens.

   CAUTION: The maximum number of fixtures allowed to be linked together is indicated in the table below *(Fig. 9)*.

   WARNING: To prevent wiring damage or abrasion, do not expose wiring to sharp objects.

For V-Hook/Chain Mounting
(Multiple fixture wiring kit sold separately, CAT# SR JOIN KIT)

1. Use a screwdriver to open the **Knockout Hole** and install the **Wire Guard** *(provided with Junction Box Cover Plate)* to protect wires from sharp edges *(Fig. 7)*.

2. Install **Joiner Bracket** to connect multiple fixtures together and secure with *(8)* **Screws** *(Fig. 8)*.

3. Connect the **Chains** to the mounting surface and hang Fixture from the V-Hooks as shown in Fig. 5

4. Fixture mounting height and spacing should be determined by application requirements. **V-Hook** and **Chain** is suitable to support four *(4)* times the weight of the fixture.

5. Press and hold the **Release Buttons** *(4)* on both sides of the **Fixture Housing** to release the **Lens** *(Fig. 1)*. When pressing the **Release Buttons** use one hand to hold the **Lens** and press the **Release Buttons** on both sides of the Fixture with the other hand. CAUTION: The Lens may drop out quickly. Lens is supported with *(2)* **Tether Cables** *(Fig. 3)*.

6. Make electrical connections as shown in wiring diagram *(Fig. 11)*. Use approved wiring connectors and suitable conduit *(by others)*. Wire to local NEC codes. Be careful not to pinch wires.

7. Snap **Lens** back into **Fixture Housing** and remove protective plastic from **Lens**.

   CAUTION: The maximum number of fixtures allowed to be linked together is indicated in the table below *(Fig. 9)*.

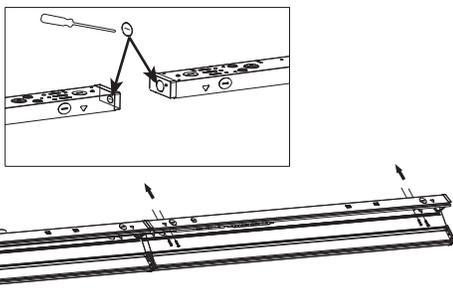   **WARNING: To prevent wiring damage or abrasion, do not expose wiring to sharp objects.**
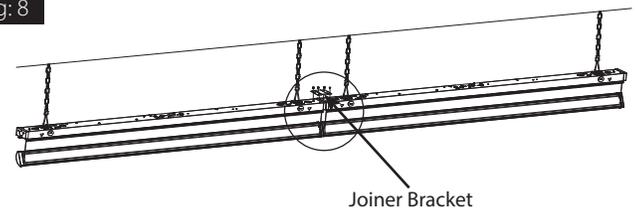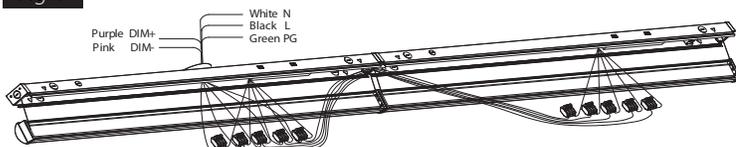
Fig: 6

Fig: 8

Joiner Bracket

Fig: 7

White N
Black L
Green PG
Purple DIM+
Pink   DIM-

Fig: 9

Catalog #	Maximum Number of Linked Fixtures
SR2	Up to **27** fixtures
SR3	Up to **13** fixtures
SR4	Up to **13** fixtures
SR8	Up to 9 fixtures

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FIELD ADJUSTMENT

Follow instructions below to change the **Fixture Power** *(W)* and/or **Color Temperature** *(CCT)* from factory settings:

Factory Settings:

SR2	19/15/11/7/4W	19W / 4000K
SR3	30/26/22/18/14W	30W / 4000K
SR4L	28/24/20/16/12W	28W / 4000K
SR4	40/35/30/25/20W	40W / 4000K
SR8	60/52/44/36/28W	60W / 4000K
SR8H	85/75/65/55/45W	85W / 4000K

1. Locate the **Field Adjustable Switches** on the side of **Fixture Housing** as shown in Fig. 10.

2. Select **Power** *(W)* and **Color Temperature** *(CCT)* by sliding respective switch to the desired setting *(Fig. 10)*.

Fig: 10

Power *(W)*
Color Temperature *(CCT)*

SR VHOOK ACCESSORY KIT

SR VHOOK Kit includes the following:

- 40" Chain *(2)*
- V-Hooks *(2)*

SR JOIN ACCESSORY KIT

SR Join Kit-G2 includes the following:

- Joiner Bracket
- WAGO *(12)*
- 4 Screws
- Wires *(12 - Tinned Copper)*

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.

0-10V DIMMABLE WIRING

RISK OF FIRE. Universal voltage driver permits operation at 120V through 277V, 50 or 60 Hz. For 0-10V dimming follow the wiring directions as shown in Fig. 11.

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 green GROUND wire from fixture to supply ground.

4. Connect the purple fixture lead to the (V+) DIM lead.

5. Connect the pink fixture lead to the (V-) DIM lead.

6. Cap the yellow fixture lead, if present. Do NOT connect.

Note: 0-10V dimming circut is not required with using Lightcloud Blue models.

Fig. 11

MVS / PIR MODELS

(optional remote sold separately for custom settings, CAT# MSR1).

Factory Settings:

- Brightness: 100%
- Hold Time: 20 Minutes
- Daylight: Disabled
- Sensitivity: 100%
- Stand-by dimming level: 20%
- Stand-by time: 1 Minute

Fig. 12

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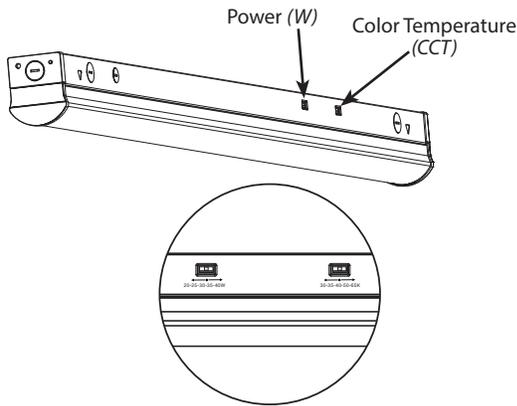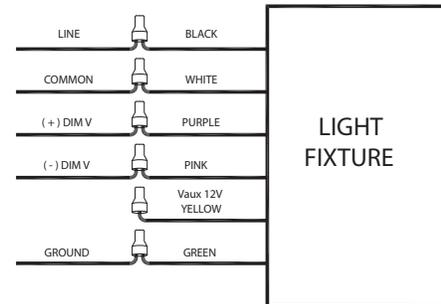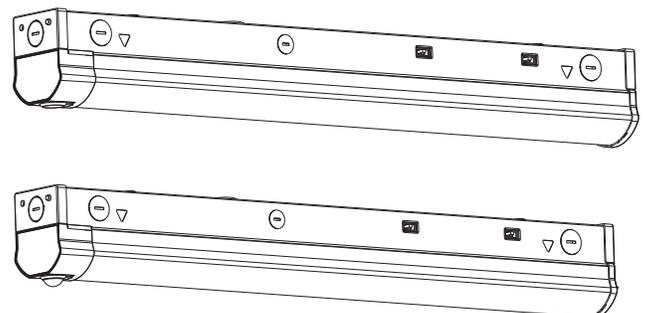
LIGHTCLOUD® BLUE MVS & PIR MODELS

This is a 12V low voltage controller with an integrated occupancy sensor. Screw the Sensor Head onto the **Bracket *(RAAS)*** as shown

Factory Settings: Uncommissioned State

- Sensor Status: Enabled
- Motion Sensitivity: High
- Brightness when triggered: 100%
- Hold time: 1 Minute
- Standby to dim: 20%

Factory Settings: Commissioned State

- Sensor Status: Disabled *(When the sensor is enabled in the Lightcloud Blue app it will have the following default settings):*
- Motion Sensitivity: High
- Brightness when triggered: Last on status
- Hold time: 20 Minutes
- When vacant: Off

CONTROLLING LIGHTCLOUD BLUE DEVICE

1. Confirm your device is powered on.
2. Download the Lightcloud Blue app from the Apple® App store or Google Play™ store.
3. Launch the App and create an account or login.
4. Tap the "add device" icon in the app to start connecting devices.
5. Follow the remaining steps in the app. Create Areas and Groups and add Scenes to organize and control your devices.
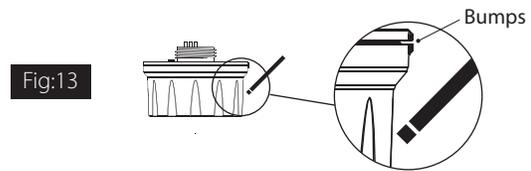
ENABLE DEVICE PAIRING MODE

If your Lightcloud Blue Low Voltage Controller+Sensor is already paired there are various options to choose from to return the device to the default factory settings.

Method 1: Delete from the App

Open the app and access the device settings for the paired device. Be sure that the device is online with a strong connection and select 'Delete'. The fixture will flash 3x, then reset to 100% brightness.
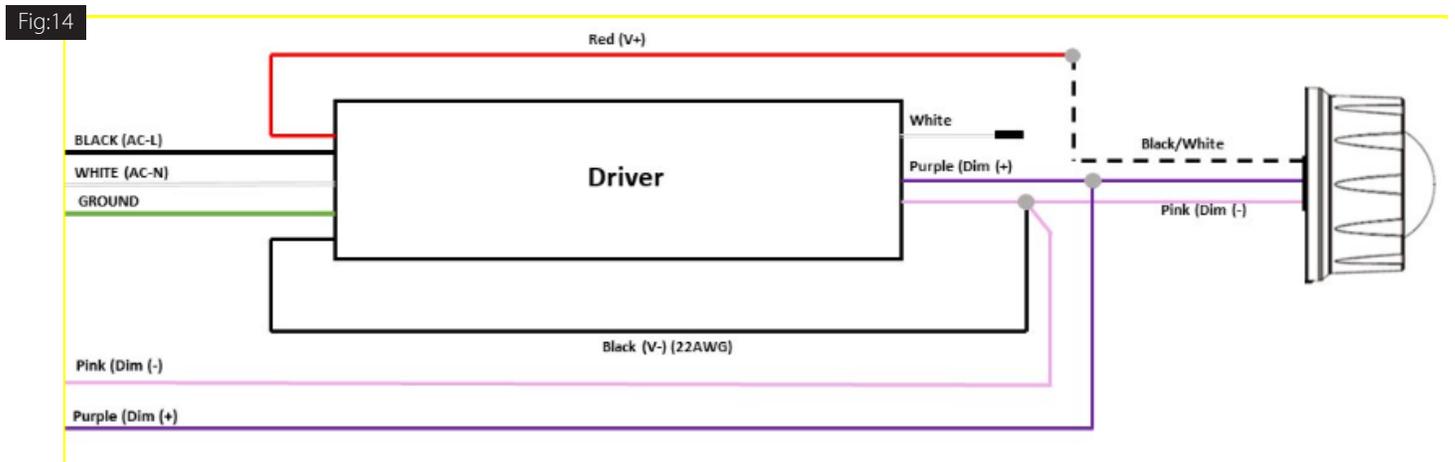
Method 2: Rapid Reset Tool

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 side of the device for 2s or until the fixture flashes 3x, then resets to 100% brightness.

Fig:13 — Bumps

BRACKET *(RAAS)* INSTALLATION

Connect the Bracket (RAAS) to a 1/2" knockout of a compatible fixture, see wiring diagram as shown in Fig. 14. Unscrew the 1/2" knockout on the Bracket (RAAS) with a screwdriver and screw on the Low Voltage Controller+Sensor. Screw in the Low Voltage Controller+Sensor to the Bracket (RAAS). Follow the wiring instructions as shown in Fig. 14.

BRACKET *(RAAS)* WIRING DIAGRAM

Fig:14

Red (V+)
BLACK (AC-L)
WHITE (AC-N)
GROUND
Driver
White
Purple (Dim (+)
Black/White
Pink (Dim (-)
Black (V-) (22AWG)
Pink (Dim (-))
Purple (Dim (+))

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LIGHTCLOUD® BLUE

Lightcloud Blue is a Bluetooth mesh wireless lighting control system that allows you to control various compatible devices. With RAB's patented Rapid Provisioning technology, devices can be quickly and easily commissioned for residential and large commercial applications using the Lightcloud Blue mobile app.

Each device in a system can communicate with any other device, eliminating the need for a Gateway or Hub and maximizing the control system's reach.

Lightcloud Blue devices should be placed within the specified range to communicate within the Bluetooh Mesh network. Up to 60 feet between standard building materials.

LIGHTCLOUD® BLUE SENSORS

Sensors are integrated at the factory and operate in Occupancy mode in their Uncommissioned State. Once paired to the Lightcloud Blue mobile app, the sensor will be disabled. Sensor Settings can be adjusted after being moved into an Area in the Lightcloud Blue mobile app. Once the sensor is enabled in the mobile app, the sensor will respond based on Commissioned State factory settings.

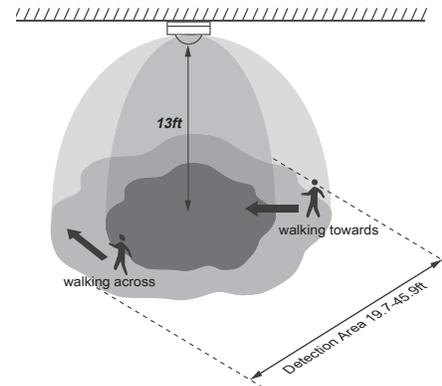**Factory Settings:** Uncommissioned State

• Sensor Status: Enabled

• Motion Sensitivity: High

• Brightness when triggered: 100%

• Hold time: 20 Minutes

• Daylight harvesting: Disabled
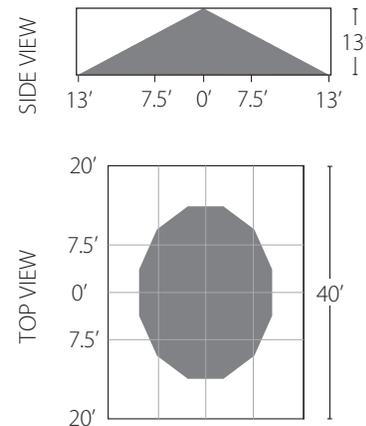
Factory Settings: Commissioned State

• Sensor Status: Disabled.

• Motion Sensitivity: High

• Brightness when triggered: Last on status

• Hold time: 20 Minutes

• When vacant: Off

• Daylight harvesting: Disabled

SENSOR COVERAGE

PIR:

MVS:

CONTROLLING LIGHTCLOUD® BLUE DEVICE

1. Confirm your device is powered on.

2. Download the Lightcloud Blue app from the Apple® App store or Google Play™ store.

3. Launch the App and create an account or login.

4. Tap the "add device" icon in the app to start connecting devices.

5. Select the fixture in the app and move it to an Area with other Lightcloud Blue lights.

6. You're all set!

Learn more about the Lightcloud Blue system and app features.

INSTRUCTIONS
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RESET TO FACTORY SETTINGS

If your Lightcloud Blue fixture is already paired, you can reset it to factory settings by using the below methods.
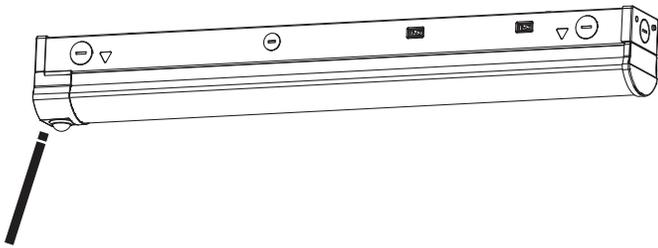
Method 1: Delete from App

Open the app and access the device settings for the paired device. Be sure that the downlight is online (green status bars are visible) and select "DELETE FROM SITE".

Method 2: Manual

Power the fixture off and on 5 times consecutively. Do not allow less than 5 seconds and more than 10 seconds to elapse from switch off to on, do not allow more than 2 seconds to elapse from switch on to off. The fixture will flash 3 times, then reset to 100% brightness at default CCT.

Method 3: Rapid Reset Tool

The rapid reset process must be done by professional electricians 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 "Reset" label on fixture for 2 seconds. The fixture will flash 3 times, then reset to 100% brightness at default CCT.

CONFIGURATION

To configure the Lightcloud Blue please login to the Lightcloud Blue app for details. For additional startup information, visit www.lightcloud.com/item/lcb-getting-started/

TROUBLESHOOTING

1. Check that the line voltage at the fixture is correct. Refer to wiring diagram.
2. Be sure the fixture is grounded properly.
3. If the Lightcloud Blue Low Voltage Controller+Sensor does not connect try the Rapid Reset Tool to reset the device to enable device pairing mode..

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.
2. Do not open the fixture to clean the LEDs. Do not touch the LEDs.

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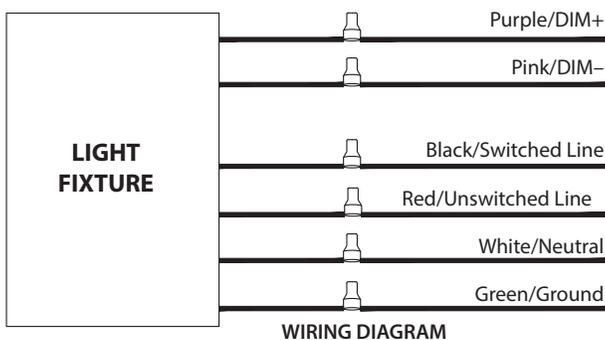
BATTERY BACKUP MODELS

WIRING

CAUTION: FOR BATTERY BACKUP FIXTURE. Voltage can be present in **BATTERY.** To prevent high voltage from being present on output leads, Inverter connector must be open. Do not join **BATTERY** connector until installation is complete.

NOTE: Make sure that the necessary branch circuit wiring is available. An **UNSWITCHED AC** source of power is required. The emergency driver must be fed from the same branch circuit as the LED driver. Reference Fig.11for wiring diagram. For Battery Backup Models with **BRACKET** reference wiring diagram as shown in Fig. 15.

CAUTION: Do not use any supply voltage other than 120-277V. 50/60 Hz.

1. Connect **UNSWITCHED HOT** fixture lead to **HOT AC** supply line.
2. If using an **UNSWITCHED** circuit, connect **UNSWITCHED** and **SWITCHED** lines together.
3. If using a **SWITCHED** circuit, connect **SWITCHED HOT** lead to the switch.
4. For 0-10V dimming, connect **DIM** (+) purple and **DIM** (-) pink leads to 0-10V dimming connection.
5. All unused leads must be capped and insulated.
6. When power is on, the fixture should be on and the **CHARGING INDICATOR LIGHT** should illuminate to indicate the battery is charging.
7. Once the **BATTERY** has charged for at least one hour, a short duration test may be performed by pressing the **Test Button** as shown in Fig. 16.
8. After the battery has charged for 24 hours, a long duration test can be performed by disconnecting power to the fixture.

OPERATION

1. When AC power is applied the charging indicator light is illuminated indicating that the **BATTERY** is being charged.
2. When power fails the standby power automatically switches to emergency power *(internal battery)* operating at reduced illumination.
3. When AC power is restored the emergency driver automatically returns to charging mode.
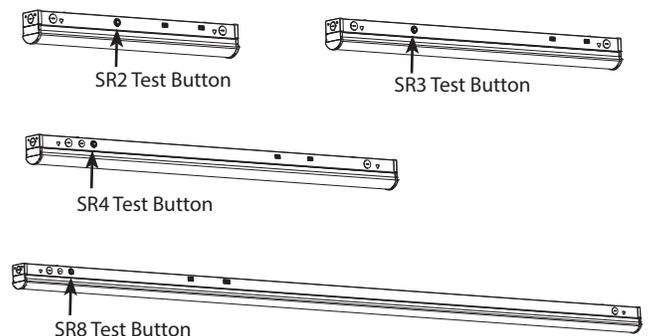
MAINTENANCE

Although no routine maintenance is required to keep the emergency driver functional, it should be checked periodically to ensure that it is working. The following schedule is recommended:

1. Visually inspect the charging indicator light monthly. It should be illuminated
2. Test the emergency operation of the fixture at 30-day intervals for a minimum of 30 seconds.
3. Conduct a 90-minute discharge test once a year. Fixture would operate at reduced illumination for a minimum of 90 minutes.

TROUBLESHOOTING

1. Be sure the fixture is grounded properly.
2. If the charging indicator light does not illuminate after pressing and releasing the **Test Button** *(Fig. 16)*, check power and check if battery is connected properly.

LIGHT FIXTURE

Purple/DIM+
Pink/DIM–
Black/Switched Line
Red/Unswitched Line
White/Neutral
Green/Ground

WIRING DIAGRAM

FIG. 15

FIG. 16

SR2 Test Button

SR3 Test Button

SR4 Test Button

SR8 Test Button

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BRACKET *(RAAS)* WITH BATTERY BACKUP INSTALLATION

Fig:17

SENSOR

+12v (RED)
DM+ (Yellow)
GND (BLACK)

+12v (RED)
DM+ (Purple)
DM- (Pink)
GND (BLACK)

AC INPUT
120-277V

N   N-(White)
G   G-(Green)
RED A.C.Line（24/7）
Black A.C.Line Switch

L-(Black)

LED Driver

LED+ (RED)
LED1- (BLACK)
LED2- (BLUE)
LED- (WHITE)

W-(BLACK)
C-(BLUE)
V+(RED)

LED PCB

RED A.C.Line（24/7）
White Neutal
Black A.C.Line Switch
B&W Led Driver-L
G-(Green)

Automatic Emergency
Device

RED   LED+
BLACK LED-
PURPLE LED DRIVER+
GRAY   LED DRIVER-
Brown
White

TEST SWITCH AND INDICATOR
LIGHT

Battery
connector

Battery pack