

INSTRUCTIONS

STRP™ FIELD-ADJUSTABLE INSTALLATION



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

**** DON'T TOSS IT—RECYCLE IT! MAKE THE SUSTAINABLE CHOICE BY RECYCLING THIS FIXTURE AT END OF LIFE WITH A LICENSED RECYCLING PROVIDER. ****



STRP2



STRP4



STRP2H



STRP4H

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 40° C.

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

SURFACE MOUNTING

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

1. Remove **LED Assembly** pushing in/squeezing the fixture's sides and lifting the **LED Assembly** to disengage. Disconnect LED Assembly Connectors on both ends.
2. Locate the line voltage input wires near one of the **Knockouts**. Remove the corresponding **Knockout** to access the fixture's leads. Pull supply wires through the **Knockout**.
3. Securely mount the **Housing** directly to a sturdy surface using appropriate hardware (by others), 2 places minimum) see Fig.1. The **J-Box Adapter** (ordered separately as JBSTRP, for 4' units only) is used to cover the Junction Box (by others).
4. Use appropriate UL-rated wire connectors as required by local codes to make electrical splices to fixture leads, see Fig. 5 for wiring diagram.
5. Attach the LED Assembly **Connectors**, tidy up the leads and secure the **LED Assembly** to the **Housing**.

Fig: 1

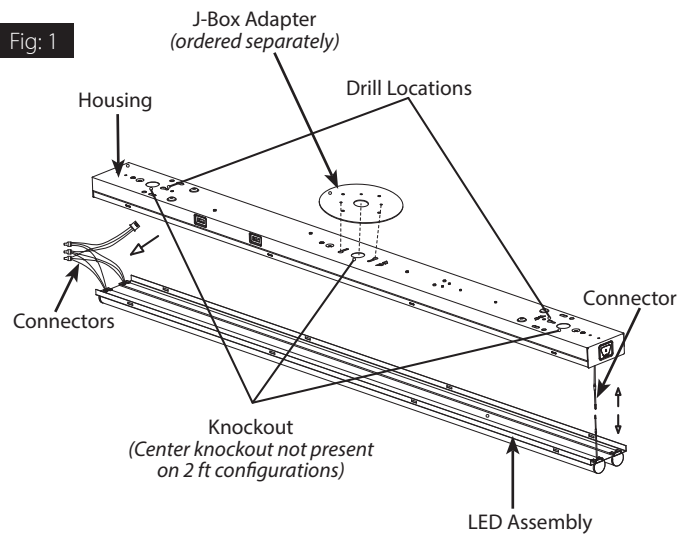
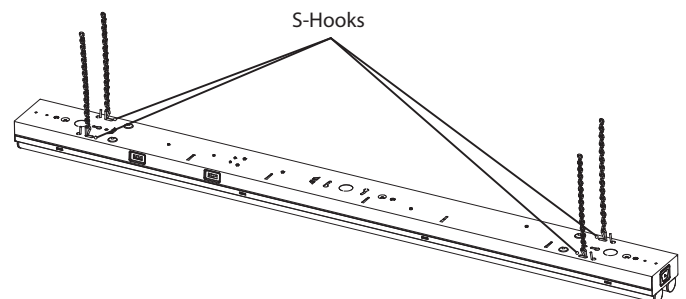


Fig: 2



SUSPENDED MOUNTING

The fixture can be mounted using **S-hooks** (ordered separately as STRP SHOOK).

1. Mount **S-hooks** (two S-hooks for the single tube, four S-hooks for the double tube) to the fixture as shown in Fig. 2.
2. For electrical wiring, follow steps 1, 2, and 4 above.

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CONTINUOUS RUN MOUNTING

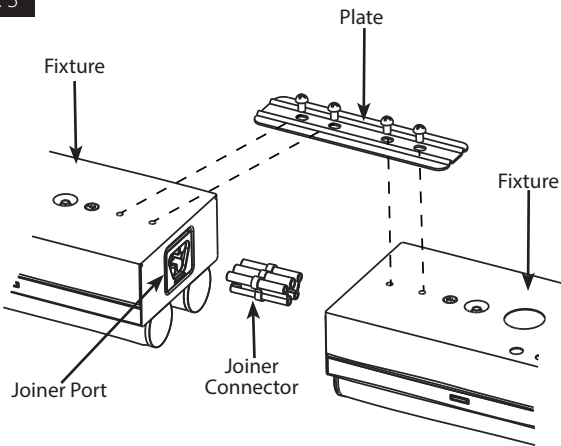
Multiple fixtures can be mounted together:

1. For continuous runs, remove **Joiner Port** cover. Plug together **Fixtures** using the **Joiner Connector** between fixtures for quick connect installation (Fig. 3). Only the first **Fixture** needs to be electrically hardwired from above. For suspended mount, join every two adjacent **Fixtures** by attaching a **Plate** using four screws as shown in Fig. 3. If surface mounted, all joined **Fixtures** must be mechanically secured to the mounting surface and are not required to be attached to a **Plate** with four screws.
2. **NOTE:** The **Joiner Port** at each end of the **Fixtures** is marked "A" or "B", please note that the "A" connector must be inserted in to the "B" end of the following fixture and vice versa.
3. **CAUTION:** The maximum number of fixtures allowed to be linked together is indicated in table below for fixtures with or without a Sensor.

One Sensor maximum for continuous run.

Catalog #	Maximum Number of Linked Fixtures
STRP2	Up to 30 fixtures
STRP2H	Up to 25 fixtures
STRP4	Up to 25 fixtures
STRP4H	Up to 15 fixtures

Fig. 3



FIELD ADJUSTMENT

Follow instructions below to change Color Temperature (CCT) and/or Power (W) from factory settings listed below.

Color Temperature (CCT) Selection:

This product is equipped with 3500K, 4000K or 5000K (CCT) **Color Temperature** selection. For maximum light output use the 4000K **Color Temperature**.

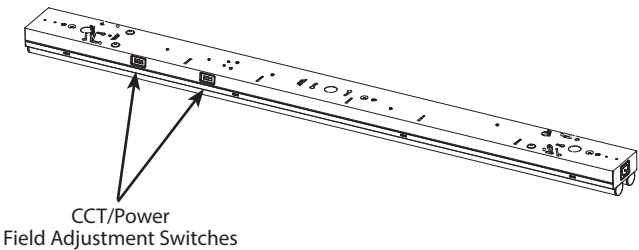
Power (Wattage) Selection:

This product is equipped with power output selection. See below for factory settings below.

STRP2	10W/8W/6W	(Factory setting 10W / 4000K)
STRP2H	20W/15W/10W	(Factory setting 20W / 4000K)
STRP4	20W/15W/10W	(Factory setting 20W / 4000K)
STRP4H	40W/30W/20W	(Factory setting 40W / 4000K)

1. Locate the **Selector Switches** as shown in Fig. 4.
2. Select **Color Temperature (CCT)** and/or **Power (W)** by sliding the respective switch to the desired setting.

Fig. 4



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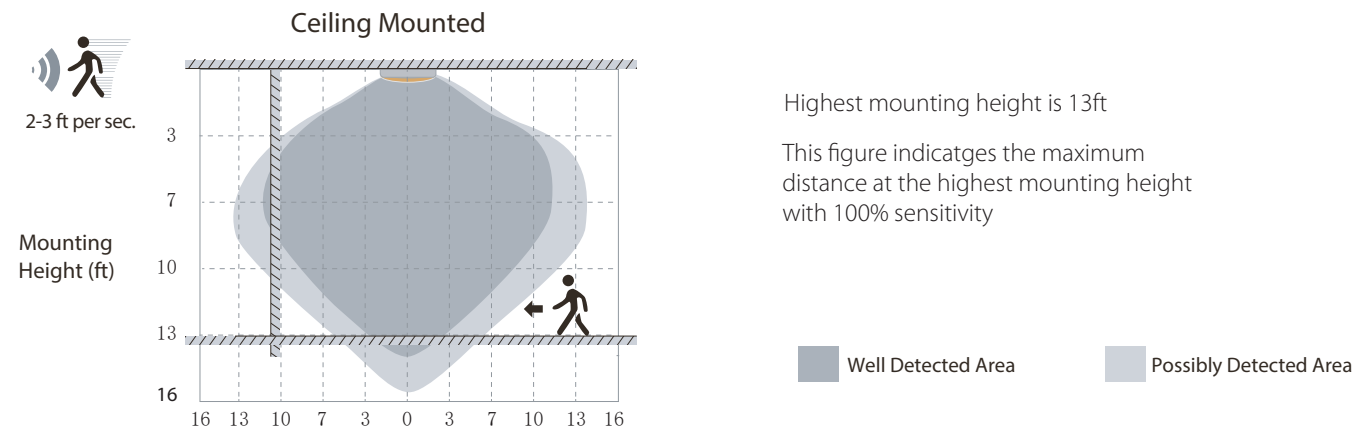
MVS MODELS *(External)*

(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

DETECTION PATTERN



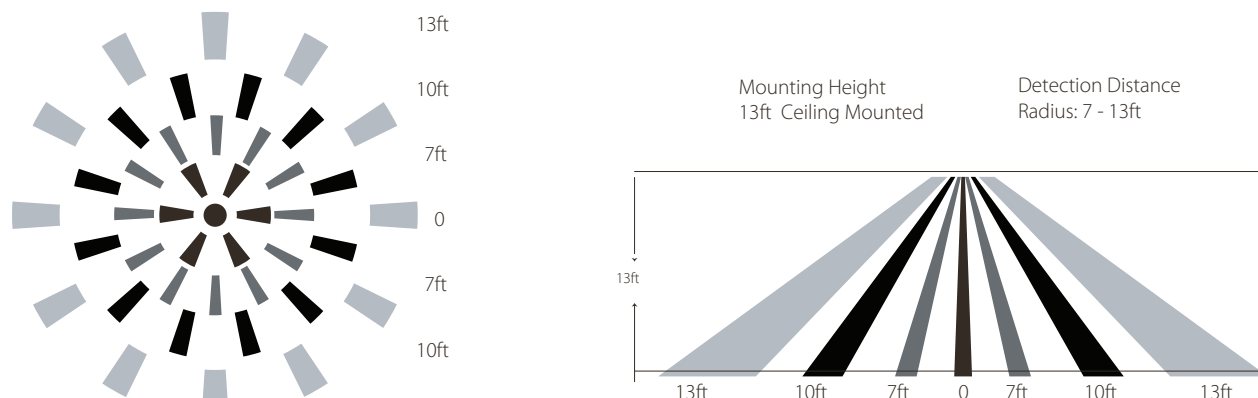
PIR MODELS *(External)*

(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

DETECTION PATTERN



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SAFETY INSTRUCTIONS

WARNING: Risk of fire or electric shock. Suitable for Damp locations.

WARNING: Suitable for 9/16" or 15/16" Flat Tee Grid in both insulated Ceilings and Non-insulated Ceilings. Access above ceiling is required.

WARNING: Do not handle energized fixture when hands are wet, when standing on wet or damp surfaces or in water.

WARNING: Vapor barrier must be suitable for 90° C.

WARNING: Fixture to be independently supported to building surface.

0-10V DIMMABLE WIRING

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. 5.

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.

CLEANING & MAINTENANCE

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

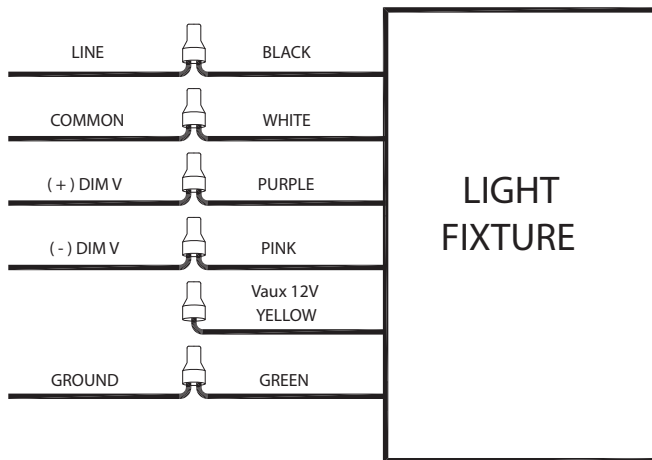
1. Do not open fixture to clean the LED. Do not touch the LED
2. Clean lens with non-abrasive cleaning solution..

TROUBLESHOOTING

1. Check that the line voltage at the fixture is correct. Refer to wiring directions.
2. Is the fixture grounded properly?

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.

Fig. 5



Note: 0-10V dimming circuit is not required when using Lightcloud Blue models.

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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 Bluetooth 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

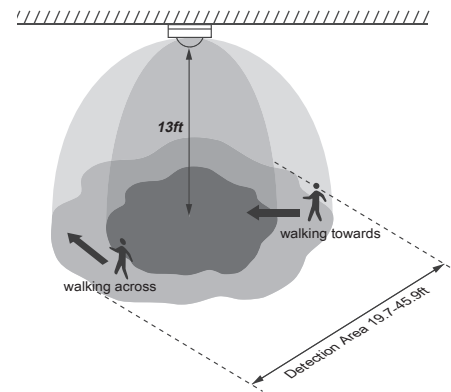
- Sensor Status: Enabled
- Motion Sensitivity: High
- Brightness when triggered: 100%
- Hold time: 20 Minutes
- Daylight harvesting: Disabled

Factory Settings: Commissioned State

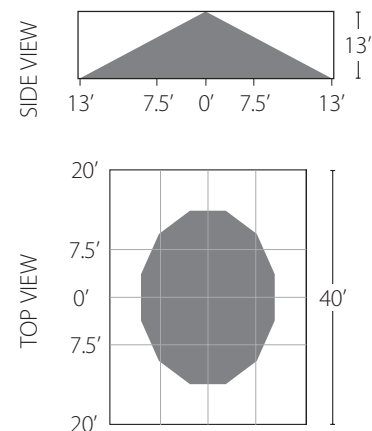
- Sensor Status: Disabled.
- Motion Sensitivity: High
- Brightness when triggered: Last on status
- Hold time: 20 Minutes
- When vacant: Off
- Daylight harvesting: Disabled

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.

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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

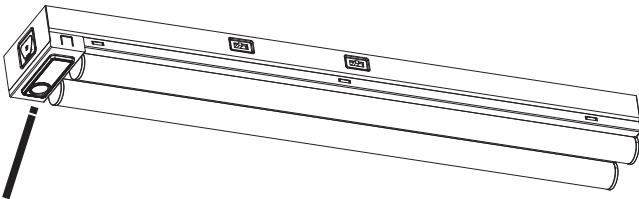
Open the app and access the device settings for the paired device. Be sure that the downlight is online (green status bars are visible) and select "DELETE FROM SITE".

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 fixture for 2 seconds as below shows. 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/

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BATTERY BACKUP MODELS

WIRING

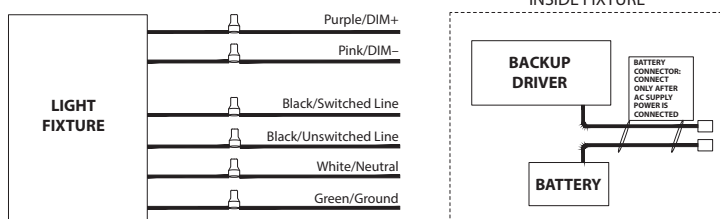
CAUTION: FOR BATTERY BACKUP FIXTURE (STRP440 only). Voltage can be present in **BATTERY**. To prevent high voltage from being present on output leads, Inverter connector must be open. Do not join **BATTERY** connector until installation is complete and AC power is supplied to the emergency driver (Fig. 6).

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.

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** AC fixture lead to the external.
4. Connect the pink fixture lead to the (V-) DIM lead.
5. For 0-10V Dimming, connect **DIM (+)** and **DIM (-)** to the supply **DIM (+)** and **DIM (-)**.
6. Connect **Ground** lead from the fixture to the supply ground. Do not connect **Ground** to the output leads.
7. All unused leads must be capped and insulated.
8. After installation is complete, supply AC power to the fixture and connect the **BATTERY**.
9. When power is on, the fixture should be on and the Charging Indicator Light should illuminate to indicate the battery is charging.
10. Once the **BATTERY** has charged for at least one hour, a short duration test may be performed by pressing the **Test Button** (Fig. 7).
11. After the battery has charged for 24 hours, a long duration test can be performed by shutting power to the fixture.

FIG. 6



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. The emergency driver supplies power in standby power for a minimum of 90 minutes.
3. When AC power is restored, the emergency driver automatically returns to charging mode.

MAINTENANCE

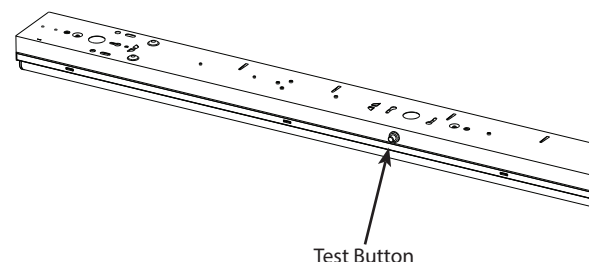
Although no routine maintenance is required to keep the emergency driver functional, it should be checked periodically to ensure that it is working. The following schedule is recommended:

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 will operate at reduced illumination for a minimum of 90 minutes.

TROUBLESHOOTING

1. Is the fixture grounded properly?
2. If the charging indicator light does not illuminate after pressing the **Test Button** (Fig. 7), check if battery is connected properly.

FIG. 7



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STRP-IN-1025
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Easy Answers

rablighting.com
Visit our website for product info

Tech Help Line
Call our experts: 888 722-1000

e-mail
Answered promptly - sales@rablighting.com

Free Lighting Layouts
Answered online or by request