

INSTRUCTIONS

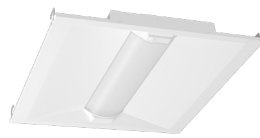
SWISH34™ FIELD-ADJUSTABLE INSTALLATION



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



SWISH34 1x4



SWISH34 2x2



SWISH34 2x4

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: Make certain power is OFF before installing or maintaining fixture. No user serviceable parts inside.

Suitable for damp locations. Type IC, Inherently protected. Min 75°C supply conductors.

RECESSED CEILING MOUNTING

The fixture is suitable only for indoor recessed ceiling application. Above ceiling access required.

To mount in an insulated or non-insulated ceiling - 9/16" or 15/16" exposed Flat Tee-Grid ceiling, follow the steps below.

1. Firmly bend the pre-installed **Grid Clips** (*up and out as shown in Fig. 1*).
2. Rotate and slide the **Fixture** as required to fit through the **Tee-Grid Bar** and place it as indicated by the directional arrow as shown in Fig. 2. Secure the **Fixture** to the **Tee-Grid Bar**.
3. Make sure that the orientation of the **Splice Box** and **Access Plate** faces an accessible tile to make electrical splices.
4. Support wires are required by installation Codes. Support the **Fixture** to the building structure by **Support Wires** (*by others*) through the **Grid Clip Hole** as shown in Fig. 2.
5. Loosen **Access Plate Screw** and remove the **Access Plate**. Knock out appropriate **Conduit Knockouts** on the **Access Plate** to route input conduit. Use appropriate conduit connectors as required by code (*Fig. 3*).
6. Connect wires as shown in wiring diagram (*Fig. 5*). Push all wires back into the **Splice Box**. Use appropriate UL approved wire connectors as required by code to complete wiring. Be careful not to pinch wires. **WARNING: To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.**
7. Replace **Access Plate** and tighten **Access Plate Screw**.

Fig: 1

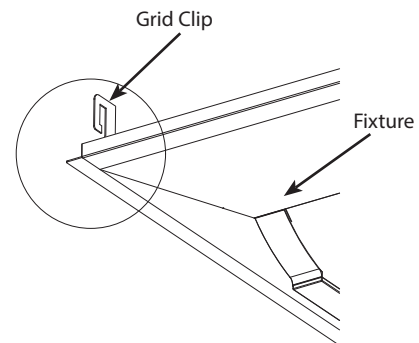


Fig: 2

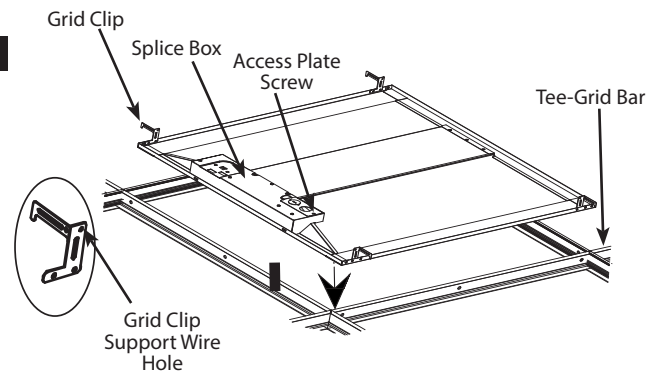
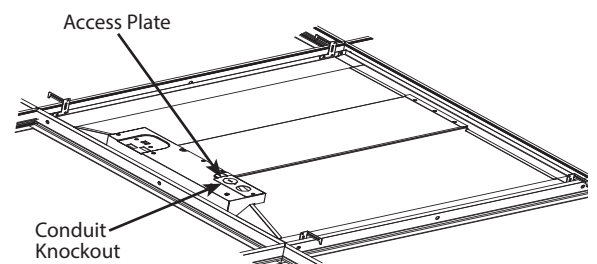


Fig: 3



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FIELD ADJUSTMENT

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

Color Temperature (CCT) Selection:

This product is equipped with 3500K, 4000K and 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.

SWISH 1X4 30/25/18W

SWISH 2X2 30/25/18W

SWISH 2X4 40/35/30W

Factory Settings:

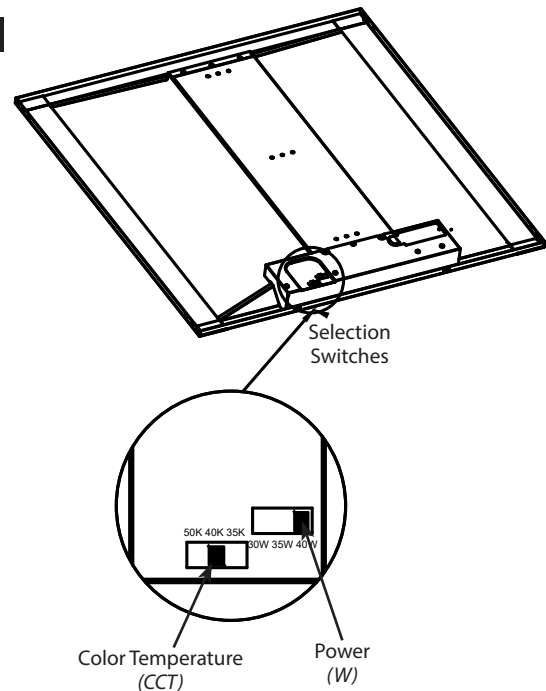
1X4 - 30W / 4000K

2X2 - 30W / 4000K

2X4 - 40W / 4000K

1. Locate the **Selection Switches** on the side of **Fixture** as shown in Fig. 3.
2. Select **Color Temperature (CCT)** and/or **Power (W)** by sliding the respective Switch to the desired value.

Fig: 4



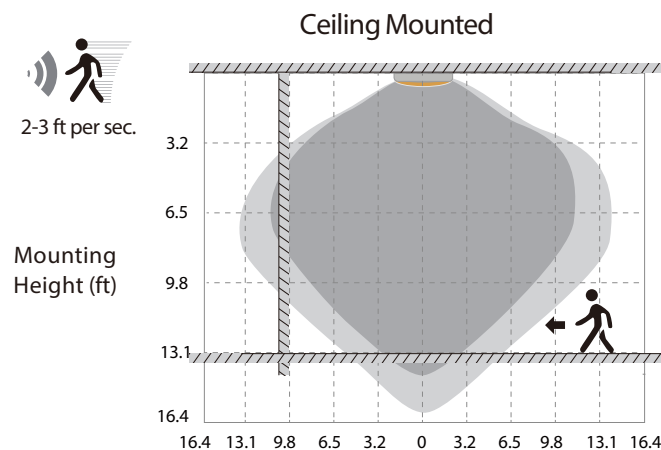
MVS MODELS *(Internal)*

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

Factory Settings:

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

DETECTION COVERAGE



Highest mounting height is 13.1ft

This figure indicates the maximum distance at the highest mounting height with 100% sensitivity

Well Detected Area

Possibly Detected Area

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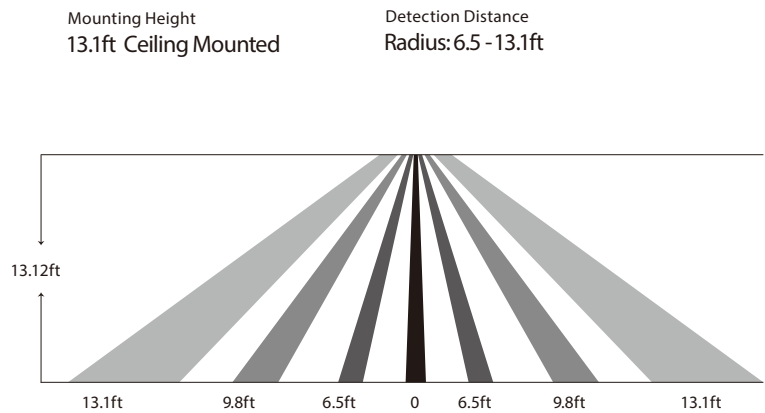
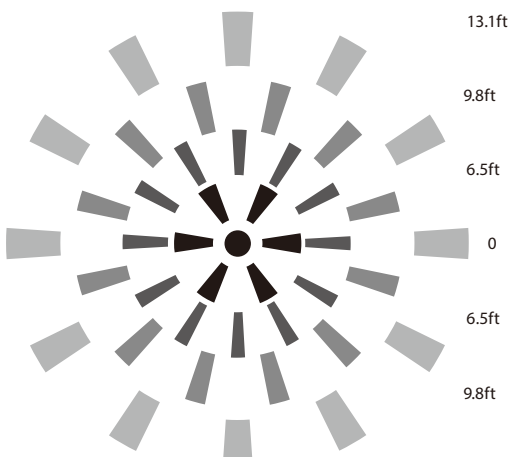
PIR MODELS *(External)*

(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

PIR DETECTION COVERAGE



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 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.

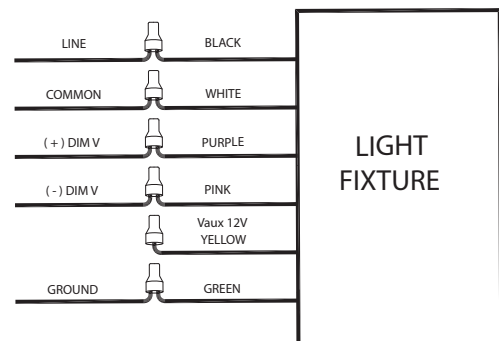
WARNING: Fixture to be independently supported to building structure.

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 GROUND wire from fixture to supply ground.
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**.

Fig: 5



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CLEANING

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

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

TROUBLESHOOTING

1. Check the line voltage at fixture. Refer to wiring directions.
2. Is the fixture grounded properly?
3. Blinking light of this thermally protected luminaire may indicate overheating.

***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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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.

Reset to Factory Settings: To enable pairing or reset the device, locate the device identification button at the top of the Controller under the Lightcloud logo. Press and hold this button for 10 seconds or until the indicator light begins flashing red and the fixture will flash on/off 3 times.

LED Indicators:

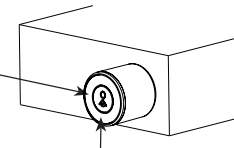
Blinking Red = Looking for a network

Solid Green = Connected to network

Fig: 1

DEVICE IDENTIFICATION BUTTON

- Press once to rapid identify this device in the Lightcloud Blue Application when provisioned
- Press twice to toggle circuit on and off
- Press twice and hold to set dim level
- Press and hold for 10s to reset the device to factory settings and into pairing mode



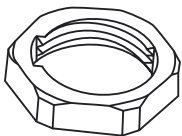
STATUS INDICATOR

Solid GREEN when connected to your Lightcloud Blue network.
Blinking RED when unprovisioned.

ASSEMBLY

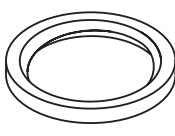
Below accessories are installed on this fixture and should not be removed.

NPT Nut



(Outside)

Rubber O-Ring

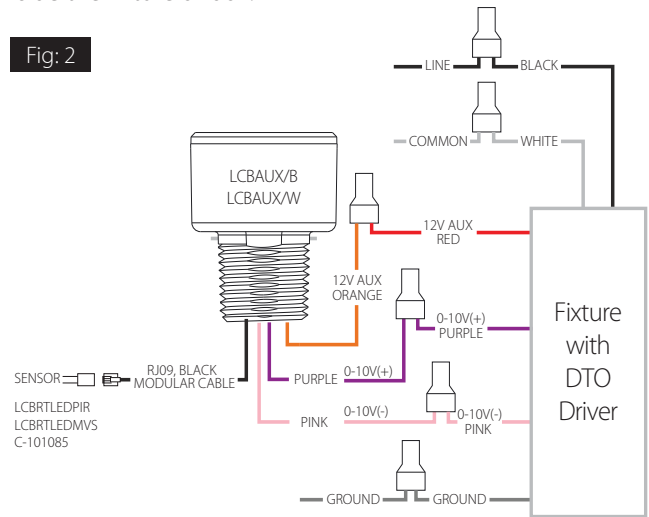


(Inside)

WIRING

Lightcloud Blue Low Voltage Controller is compatible with the Dim to Off 0-10V driver with 12V Aux supply, it can be mounted to any 1/2" NPT knockout hole on the fixture or junction box, with the radio module always outside any metal enclosure. If no sensor is used, then the RJ09 cable can be tied off and placed inside the fixture or box.

Fig: 2



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 Minute
- Daylight harvesting: Disabled

Factory Settings: Commissioned State

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

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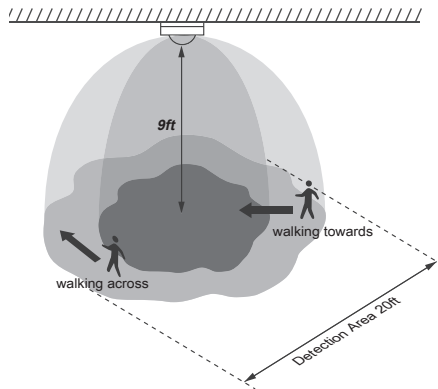
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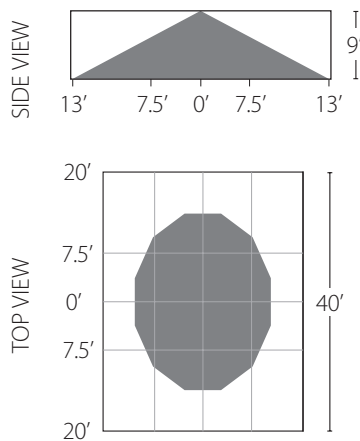
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SENSOR COVERAGE

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.

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

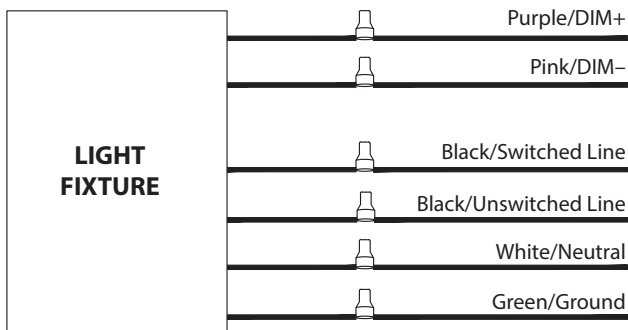
NOTE: Make sure that the necessary branch circuit wiring is available. An **UNSWITCHED** AC source of power is required. The emergency driver must be fed from the same branch circuit as the LED driver.

CAUTION: Do not use any supply voltage other than 120-277V 50/60 HZ (Fig. 6).

Battery Test Button is provided with adhesive backing. Align the Test Button to edge of Fixture Frame closest to the lens for easy accessibility as shown in Fig. 7.

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. 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** (Fig. 7).
8. 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 standby power for a minimum of 90 minutes.
3. When AC power is restored, the emergency driver automatically returns to charging mode.

MAINTENANCE

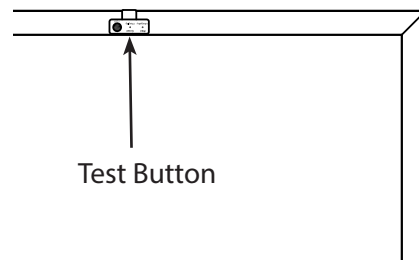
Although no routine maintenance is required to keep the emergency driver functional, it should be checked periodically to ensure that it is working. The following schedule is recommended:

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 would 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**, check if battery is connected properly.

Fig: 7



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.