

INSTRUCTIONS

FIELD-ADJUSTABLE T34® 1X4, 2X2, 2X4 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. ****



1X4



2X2



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.

SAFETY INSTRUCTIONS

WARNING: Risk of fire or electric shock.

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.

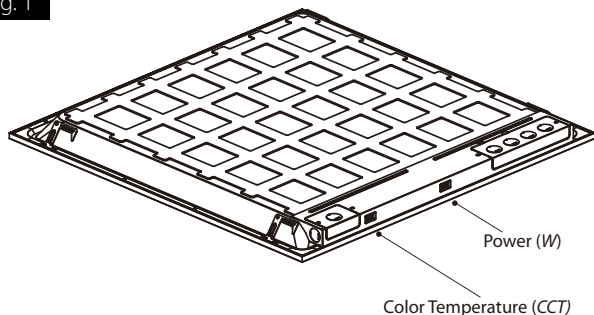
WARNING: Fixture to be independently supported to building structure.

INSTALLATION

Note: For indoor recessed ceiling installation only. Suitable for damp locations. Fits 9/16" or 15/16" exposed flat tee-grid ceilings, insulated or non-insulated. Access above the ceiling is required

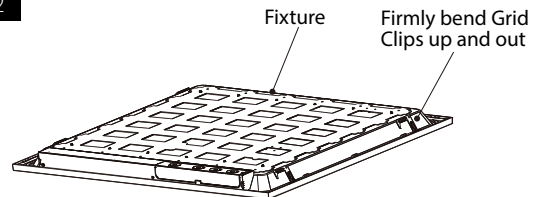
1. Set the fixture **Power (W)** and/or **Color Temperature (CCT)** before installing the fixture in the ceiling. Locate the **Power (W)** **Color Temperature (CCT)** selector switches on the back of the Fixture and slide each switch to the desired setting (Fig. 1).

Fig. 1



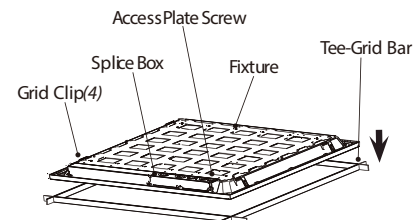
2. Firmly bend the pre-installed **Grid Clips** up and out (Fig. 2).

Fig. 2



3. Orient the Fixture so the **Splice Box** and **Access Plate** face an accessible ceiling tile. Tilt the fixture up through the grid opening, then lower it onto the **Tee-Grid Bars** in the direction of the **Arrow** (Fig. 3). Secure the fixture to the **Tee-Grid Bars**.

Fig. 3



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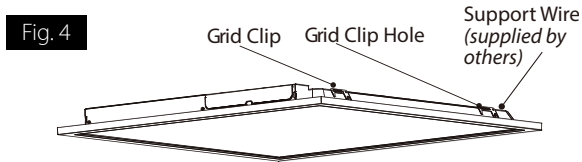


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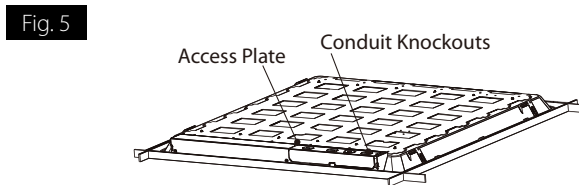
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INSTALLATION (cont'd)

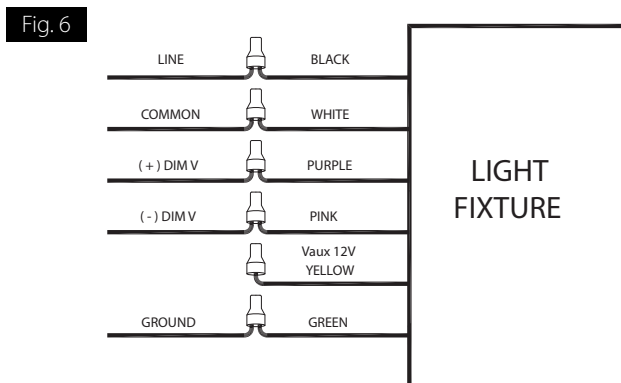
- If local code requires support wires, attach **Support Wires** (by others) from the building structure to the **Grid Clip Holes** (Fig. 4). If support wires are not required, continue to step 5.



- Loosen the **Access Plate Screw** and remove the **Access Plate**. Remove the appropriate **Conduit Knockouts** and route the supply conduit using conduit connectors (by others) as required by code (Fig. 5).



- Wire the fixture using Standard Wiring below (Fig. 6). For battery backup models, use Battery Backup Wiring on the Battery Backup Models page.



Note: Lighcloud Blue models do not require a 0-10V dimming circuit.

- Push all wires back into the **Splice Box**. Use UL-certified wire connectors to complete supply wiring per code. Avoid pinching wires or routing them against sharp edges.
- Replace the **Access Plate** and tighten the **Access Plate Screw**.

OCCUPANCY SENSORS

Sensors can be configured for each application. See Occupancy Sensor Guide for factory settings, [link below](#). Standard sensors can be configured using the MSR1Remote (sold separately).

Sensor settings for LIGHTCLOUD BLUE models are made using the LIGHTCLOUD BLUE mobile app.

drive.rablighting.com/Occupancy-Sensor-Guide/1/

CLEANING & MAINTENANCE

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

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

TROUBLESHOOTING

- Check that the line voltage at the fixture is correct. Refer to wiring directions.
- 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.

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LIGHTCLOUD BLUE MODELS

LIGHTCLOUD BLUE

Lightcloud Blue is RAB's wireless lighting control. Fixtures, sensors, and switches talk to each other and to your phone. Set up an area in minutes with the Lightcloud Blue app, and keep using Lightcloud Blue switches and sensors for everyday control. Add a Nano (*sold separately*) to control your lights from anywhere. Learn more at rablighting.com/lcb.

ALL FIXTURES MUST BE WIRED TO CONSTANT POWER (HOT FEED) FOR WIRELESS COMMUNICATION.

CREATE A RELIABLE NETWORK

- Keep devices within about 60 ft of each other so they can communicate. See the product specification sheet.
- Brick, concrete, steel construction, and heavy trees or shrubs can block the signal. You may need additional Lightcloud Blue devices to reach around them. Contact Lightcloud Support for help.
- Keep devices close together and avoid long chains of devices.

DOWNLOAD THE MOBILE APP

Lightcloud Blue mobile app is available for IOS and Android mobile phones and tablets. The mobile app is required to commission and configure the Lightcloud Blue fixtures and devices.

Note: *The mobile device is NOT part of the mesh network and must be within ≤30 ft from at least one device paired to the Site.*



IOS Users



Android Users

GETTING STARTED

1. Confirm your device is powered On.
2. Launch the App and create an account or login.
3. Tap the "add device" icon in the app to start connecting devices.
4. Select the fixture in the app and move it to an Area.
5. You are all set!

RESET TO FACTORY SETTINGS

If your Lightcloud Blue fixture is already paired, you can reset it to factory settings by using below methods.

Method 1: Delete from the App

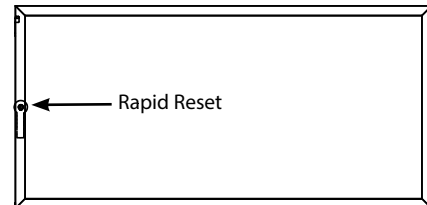
Open the app and access the device settings for the paired fixture. Confirm the fixture is online (green status bars are visible), then select "Delete from Site."

Method 2: Manual

Power the fixture off and on 5 times consecutively. Allow no less than 5 seconds and no more than 10 seconds between switching off and back on, and no more than 2 seconds between switching on and back off. The fixture will flash 3 times, then reset to 100% brightness at the default CCT.

Method 3: Rapid Reset Tool

This method must be performed by a professional electrician qualified by RAB. Contact your RAB sales manager to request Rapid Reset Tool. Hold the tool directly against the fixture for 2 seconds. The fixture will flash 3 times, then reset to 100% brightness at the default CCT.



CONFIGURATION

All configuration of Lightcloud Blue products is done in the Lightcloud Blue mobile app



System overview



Resources

POWER OUTAGE RECOVERY

If there is a power loss, the connected fixture turns ON AT LAST DIM LEVEL when power is restored. This behavior can be adjusted to LAST STATE using the mobile app. When using Schedules, be sure to add a Nano (*sold separately*) to maintain accurate timekeeping after a power loss.

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BATTERY BACKUP MODELS

WIRING

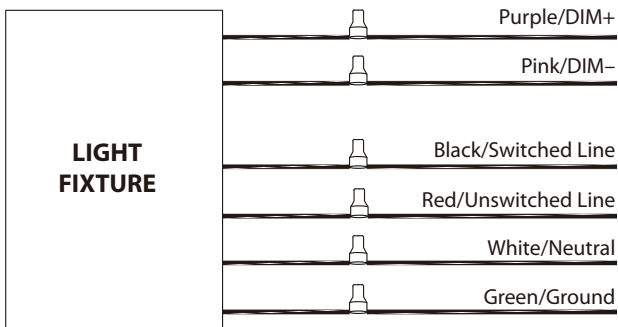
CAUTION: FOR BATTERY BACKUP FIXTURE. Voltage can be present in **BATTERY**. To prevent high voltage from being present on output leads, Inverter connector must be open. Do not join **BATTERY** connector until installation is complete and AC power is supplied to the emergency driver. (Fig. 7)

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. For 0-10V dimming, connect **DIM (+)** purple and **DIM (-)** pink leads to 0-10V dimming connection. Do not connect **GROUND** to the output leads.
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. 8).
8. After the battery has charged for 24 hours, a long duration test can be performed by shutting power to the fixture.

Fig. 7



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

MAINTENANCE

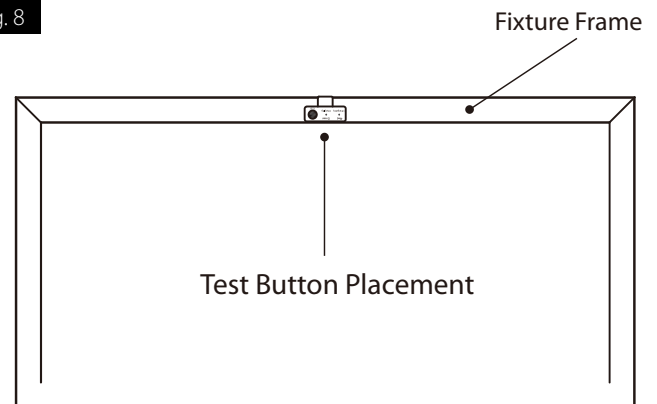
Although no routine maintenance is required to keep the emergency driver functional, it should be checked periodically to ensure that it is working. The following schedule is recommended:

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 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** (Fig. 8), check if battery is connected properly.

Fig. 8



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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 - tech@rablighting.com

Free Lighting Layouts
Answered online or by request