

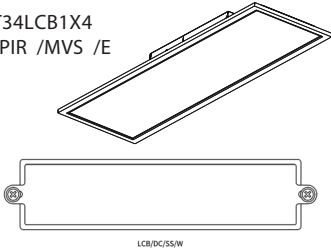
INSTRUCTIONS

T34® Smartshift 1x4, 2x2, 2x4 with Lightcloud Blue

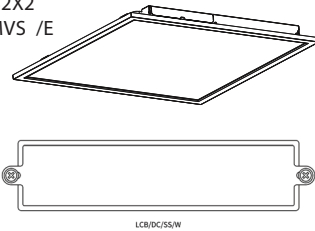


RAB Lighting is committed to creating high-quality, affordable, well-designed and energy-efficient LED lighting and controls that make it easy for electricians to install and end users to save energy. We'd love to hear your comments. Please call the Marketing Department at 888-RAB-1000 or email: marketing@rablighting.com

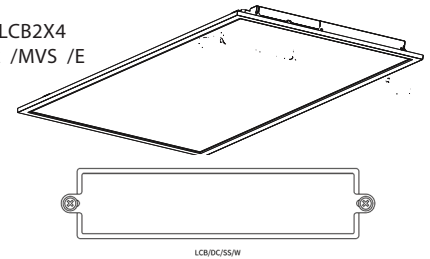
T34LCB1X4
/PIR /MVS /E



T34LCB2X2
/PIR /MVS /E



T34LCB2X4
/PIR /MVS /E



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. 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.

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. **Support Wires** are required by installation codes. Support the **Fixture** to the building structure with **Support Wires** (supplied by others) through the **Grid Clip Hole** as shown in Fig. 3.
4. Make sure that the orientation of the **Splice Box** and **Access Plate** faces an accessible tile to make electrical splices.
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. 4).
6. Connect wires as shown in wiring diagram (Fig 6). 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

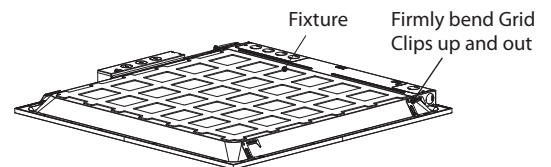


Fig. 2

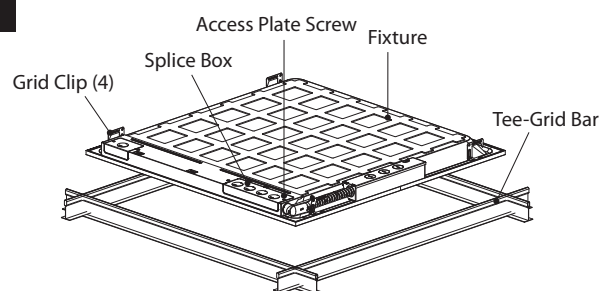


Fig. 3

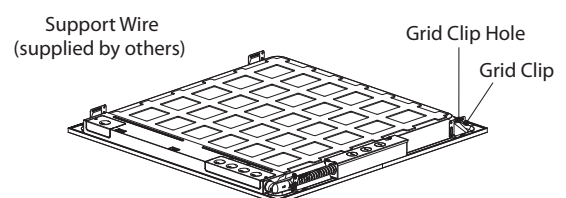
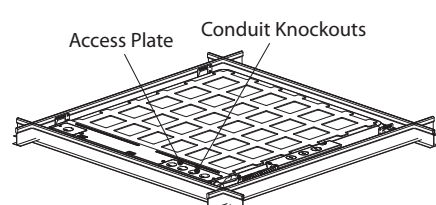


Fig. 4



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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. 
4. Tap the "add device" icon in the app to start connecting  devices.
5. Follow the remaining steps in the app. Create areas, groups, and scenes to organize and control your devices.
6. You're all set!

For additional information about the Lightcloud Blue mobile app visit [change web link to: www.lightcloud.com/item/lcb-getting-started/](http://www.lightcloud.com/item/lcb-getting-started/)

LIGHTCLOUD® BLUE

Lightcloud Blue is a Bluetooth mesh wireless lighting control system that allows you to control various compatible devices. With RAB's patent-pending 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 fixtures should be placed within 60' of another Lightcloud Blue device through standard building materials or up to 200' clear line of sight.

Setting Device to Pairing Mode

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

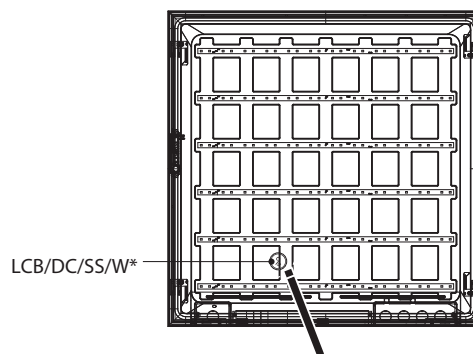
Open the app and access the device settings for the paired device. Be sure that the downlight is online and select "Delete".

Method 2: Manual

Power the downlight 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 downlight 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 Lightcloud logo on fixture for 2 seconds. The downlight will flash 3 times, then reset to 100% brightness at default CCT.



*LCB/DC/SS/W is Bluetooth controller that can work with fixtures.

CLEANING

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

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

TROUBLESHOOTING

1. Check that the fixture is powered.
2. Check that the line voltage at fixture is correct. Refer to wiring directions.
3. Be sure the fixture is grounded properly.
4. Call Lightcloud Blue Support at 1.844.LIGHTCLOUD.

CONFIGURATION

For additional information about the Lightcloud Blue mobile app visit www.lightcloud.com.

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BATTERY BACKUP MODELS

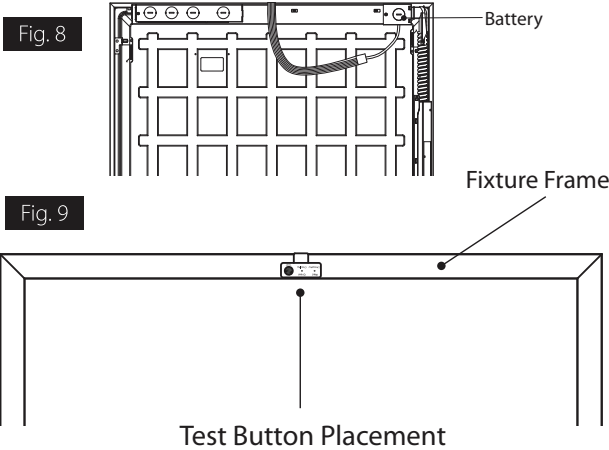
WIRING

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.

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. 8 & 9.

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. After installation is complete, supply AC power to the fixture and connect the **BATTERY**.
7. When power is on, the fixture should be on and the Charging Indicator Light should illuminate to indicate the battery is charging.
8. Once the **BATTERY** has charged for at least one hour, a short duration test may be performed by pressing the **Test Button**.
9. After the battery has charged for 24 hours, a long duration test can be performed by shutting 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. 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.

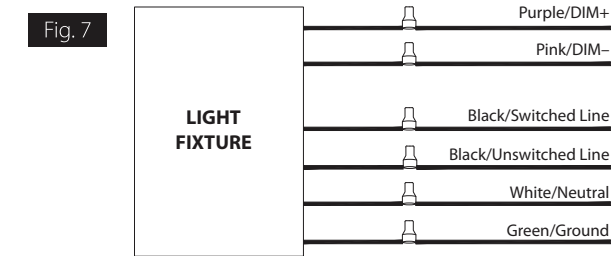
MAINTENANCE

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**, check if battery is connected 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.

FCC Statement

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment. 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 equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates,uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, 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 off and on, the user is encouraged to try to 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.