INSTRUCTIONS

TSLED™ 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

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.
WARNING: To prevent wiring damage or abrasion, do not expose wiring to edges of sharp objects.
Suitable for Damp locations.
Min. 75° Supply Conductors.

SURFACE MOUNTING

The fixture is suitable for indoor use only, ceiling or wall mounting.

1. Use appropriate mounting hardware *(by others)* to secure *(2)* Snap-On-Brackets to mounting surface as shown in Fig. 1. Refer to recommended Snap-On-Bracket position in Fig. 2 for TSLED 2FT and TSLED 4FT.
2. Pull supply wires through Center Knockout *(Fig. 3)*. Use appropriate UL approved wire connectors as required by code to complete wiring *(Fig. 9)*. 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.
3. For conduit mounting drill out End Cap or 1/2" knock-out hole on the cover, connect conduit. Tether Cables are provided *(Fig. 3)*.
4. Snap Housing on Snap On Brackets as shown in Fig. 4.

Fig: 2

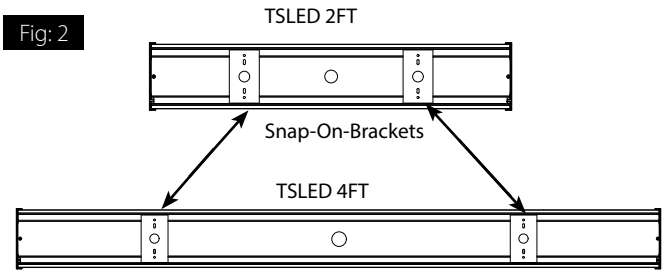


Fig: 3

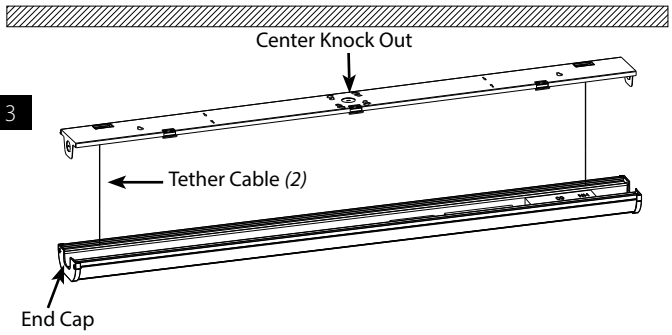


Fig: 1

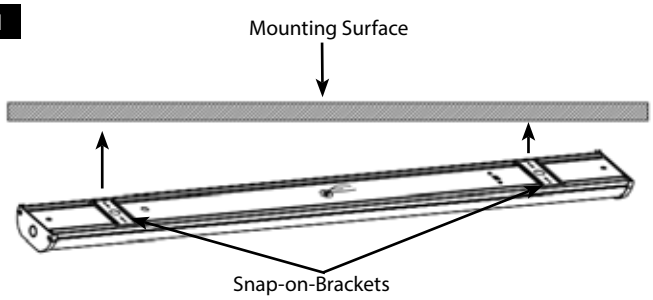
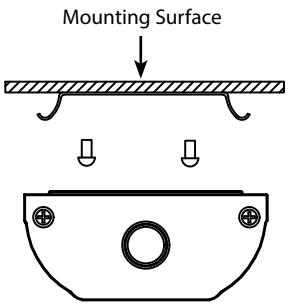


Fig: 4



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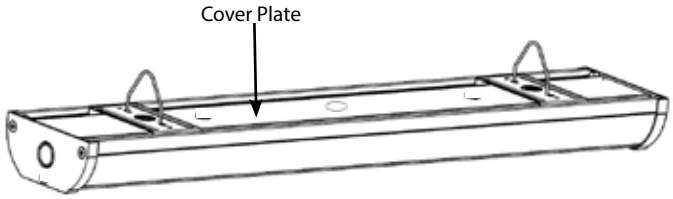
V-HOOK MOUNTING

Mount to a recessed junction box *(provided by others)* as follows:

1. Snap Housing on **Snap-On-Brackets.**
2. In order to use an alternate entry point for TSLED 2FT & 4FT follow steps 2-3 under **Surface Mounting section**.
3. **V Hook**s *(2)* are provided for chain mounting. Loop **V-Hooks** through **Snap-On-Brackets** at back of Housing as shown in Fig. 5.
4. Connect to two *(for TSLED 2FT & 4FT)* lengths of chain *(by others)* and/or appropriate hardware *(by others)* suitable for the mounting surface to suspend Housing from **V Hooks**.
5. Fixture mounting height and spacing should be determined by application requirements. Use chain suitable to support four *(4)* times the weight of the fixture to complete wiring.
6. For power connection use appropriate conduit and fittings or cord and strain relief *(by others)*
7. Once connections are made push all wires back through access hole into Junction Box. See wiring diagram Fig 9. Be careful not to pinch wires. Replace **Cover Plate** and tighten **Screws** *(4)*.

Fig: 5



ACCESSORIES - 45° ANGLED BRACKET

TSLED45B - 45° Angled Bracket accessory is ordered separately.

1. Use appropriate mounting hardware *(by others)* to secure the **45° Angled Bracket** to the mounting surface as shown in Fig. 6. **Brackets** must face towards each other.
2. Secure *(2)* **Snap-On-Brackets** to **45° Angled Brackets** with *(4)* **Screws** *(provided)* as shown in Fig. 7.

Fig. 6

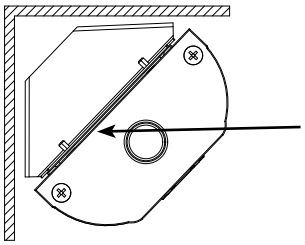
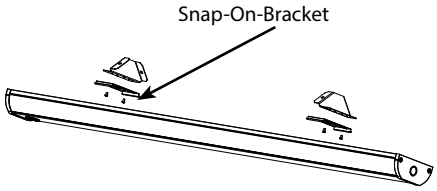


Fig. 7



Snap-On-Bracket

FIELD-ADJUSTMENT

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

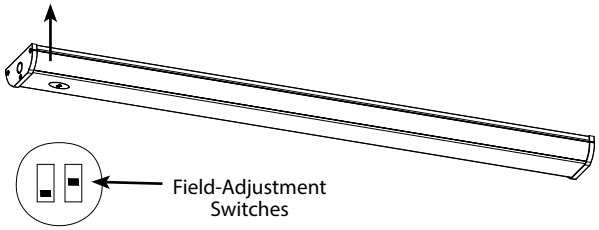
Color Temperature *(CCT)* Selection:
This product is equipped with 3500K, 4000K, 5000K, *CCT)* **Color Temperature** selection. For maximum light output use the 4000K **Color Temperature**.

Power *(Wattage)* Selection:
This product is equipped with power output selection.
TSLED2 25/20/15W
TSLED4 50/40/30W

Factory Settings:
TSLED2 25W / 4000K
TSLED4 50W /4000K

1. Locate **Field-Adjustment Switches** on Fixture housing as shown in Fig. 8.
2. Select **Power** *(W)* and/or **Color Temperature** *(CCT)* by sliding the respective switch to the desired setting.

Fig. 8



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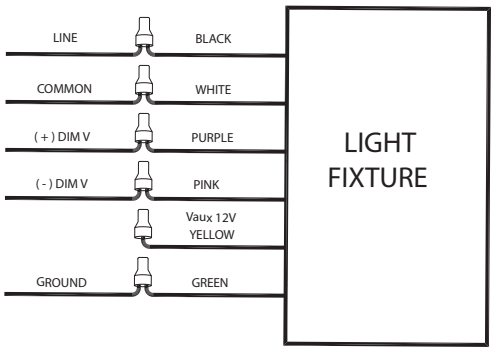
0-10V DIMMABLE WIRING

Universal voltage driver permits operation at 120V thru 277V, 50 or 60 Hz. For 0-10V Dimming, follow the wiring directions in Fig. 9.

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. Do **NOT** connect the **GROUND** of the dimming fixture to the output.
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.

Fig: 9



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.

TROUBLESHOOTING

1. Check that the line voltage at the fixture is correct. Refer to wiring directions.
2. Be sure the fixture is 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

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

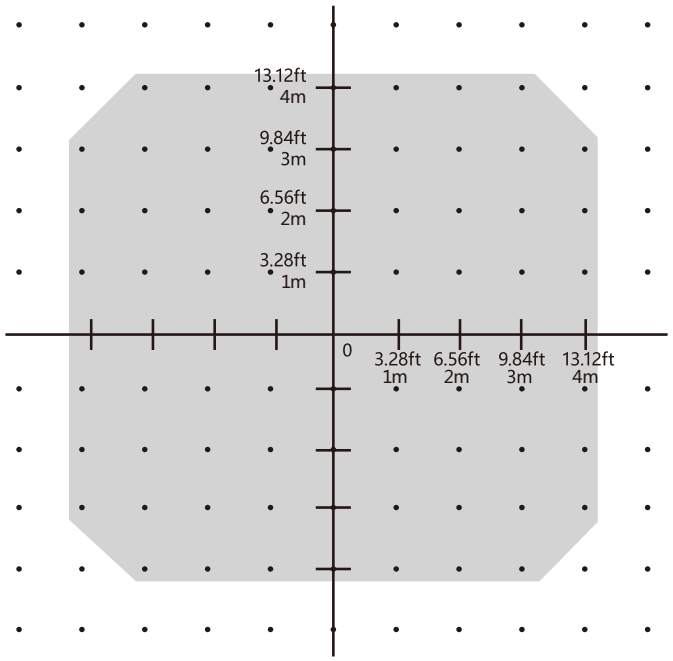
- Sensor Status: Enabled
- Motion Sensitivity: High
- Brightness when triggered: 100%
- Hold time: 20 Minutes
- Daylight harvesting: Disabled

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

Detection Area for 7.9ft *(2.4m)* ceiling Mounted



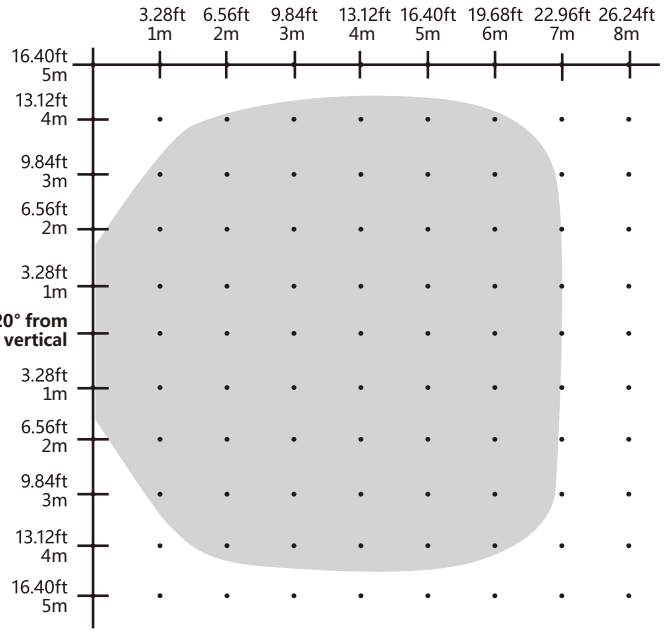


*diagram based on ideal mounting conditions *(no obstruction to sensor)* and a 20° angle between sensor's line of sight and ground

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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 or login.
4. Tap the ADD DEVICES icon in the app to start the Rapid Provisioning process.
5. Create Areas, Scenes and Schedules to organize and control your devices.
6. You're all set!

For additional information about the Lightcloud Blue mobile app visit www.lightcloud.com/item/lcb-getting-started/

Learn more about the Lightcloud Blue system and app features.

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

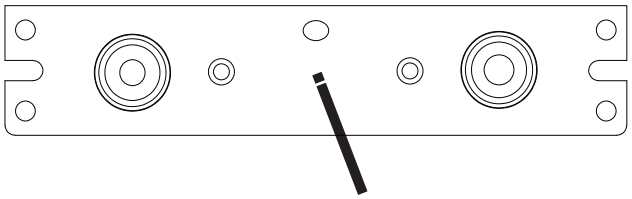
Open the app and access the device settings for the paired device. Be sure that the downlight is online (green status bars are visible) and select "DELETE FROM SITE".

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 middle of sensor for 5 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/

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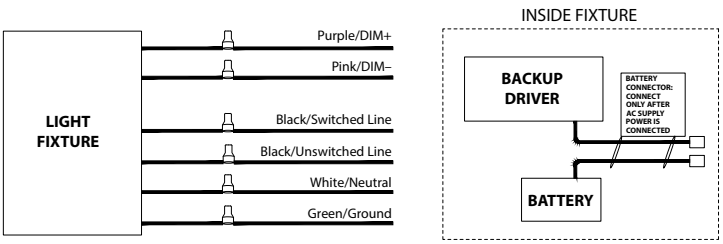
BATTERY BACKUP MODELS

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

Fig. 10



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 *(Fig. 11)*, check if battery is connected properly.

Fig. 11

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

TSLED IN 0525
P-102170

RAB WARRANTY: *RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.*