

# INSTRUCTIONS

## T34® FIELD-ADJUSTABLE 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](mailto: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. 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-certified 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

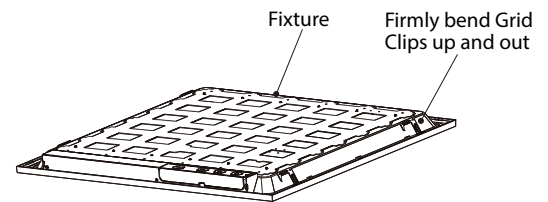


Fig. 2

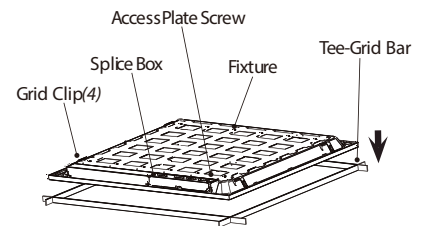


Fig. 3

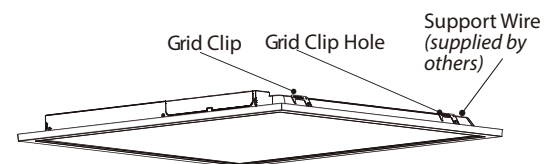
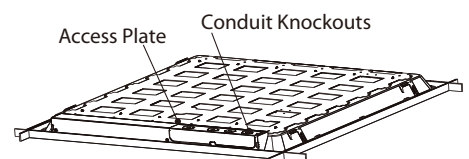


Fig. 4



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### FIELD ADJUSTMENT

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

#### Color Temperature (CCT) Selection:

This product is equipped with 3000/3500/4000/5000/6500K CCT **Color Temperature** selection.

#### Power (Wattage) Selection:

This product is equipped with power output selection.

1x4 40/35/30/25/20W

2X2 40/35/30/25/20W

2X4 50/45/40/35/30W

#### Factory Settings:

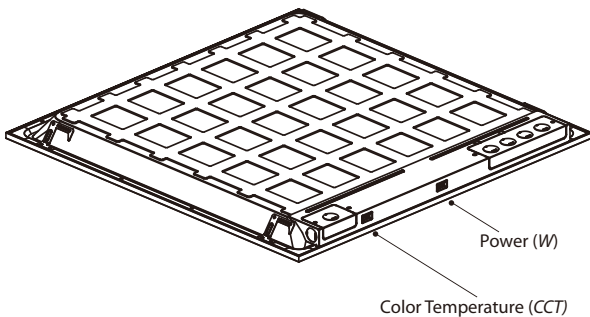
1x4 30W / 4000K

2X2 30W / 4000K

2X4 40W /4000K

1. Locate the **Selector Switches** for Field-Adjustment on **Housing** as shown in Fig. 5.
2. Select **Power (W)** and/or **Color Temperature (CCT)** by sliding the respective switch to the desired setting.

Fig. 5



### OCCUPANCY SENSORS / MVS

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).

[drive.rablighting.com/Occupancy-Sensor-Guide/1/](http://drive.rablighting.com/Occupancy-Sensor-Guide/1/)

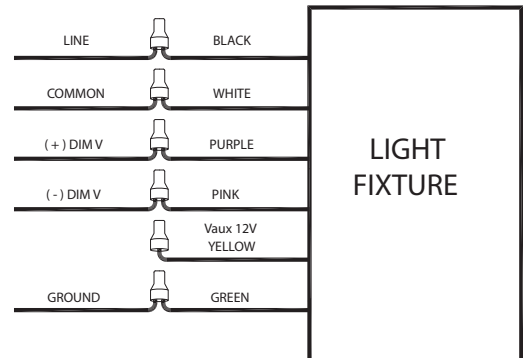
### 0-10V DIMMABLE WIRING

Universal voltage driver permits operation at 120V through 277V, 50 or 60Hz. For 0-10V dimming follow the wiring directions as shown in Fig. 6.

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 **pink** fixture lead to the **(V-) DIM** lead.

NOTE: Do not connect DIM V+ (purple)/ DIM V- (pink) to line voltage or supply ground.

Fig. 6



### 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 LED. Do not touch the LED.

### 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.

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## BATTERY BACKUP MODELS

### WIRING

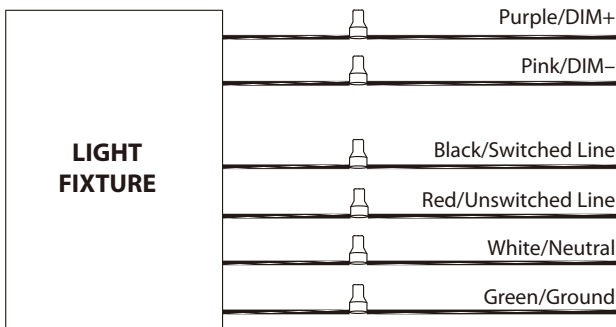
**CAUTION: FOR BATTERY BACKUP FIXTURE.** Voltage can be present in **BATTERY**. To prevent high voltage from being present on output leads, Inverter connector must be open. Do not join **BATTERY** connector until installation is complete and AC power is supplied to the emergency driver. (Fig. 7)

**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

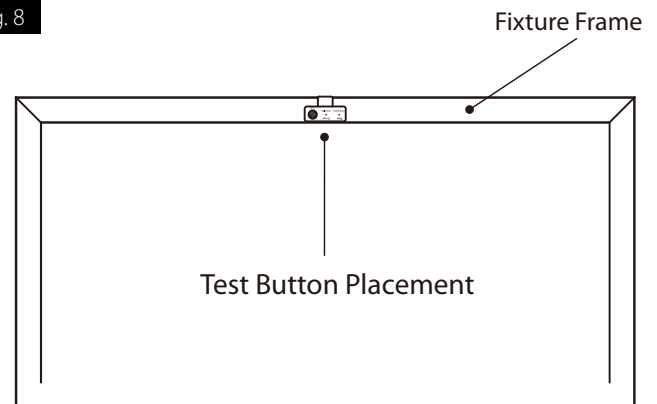
Although no routine maintenance is required to keep the emergency driver functional, it should be checked periodically to ensure that it is working. The following schedule is recommended:

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](http://rablighting.com)  
Visit our website for product info

Tech Help Line  
Call our experts: 888 722-1000

e-mail  
Answered promptly - [sales@rablighting.com](mailto:sales@rablighting.com)

Free Lighting Layouts  
Answered online or by request