

INSTRUCTIONS

FRAME LIGHT FIELD-ADJUSTABLE INSTALLATION

RAB®

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.

- Suitable for operation in ambient not exceeding 45° C.
- Caution Risk of Fire.
- Access above ceiling is required.
- Min 90° Supply Conductor.
- Suitable for Damp Locations.

RECESSED CEILING MOUNTING

The fixture is suitable only for indoor recessed ceiling application.

1. Remove **Ceiling Tile** and place the **Frame Light** into **Ceiling Grid** (Fig. 1). Clip the **LED Driver Assembly** onto the **T-BAR** and attach the connector to the **Frame Light** (Fig. 2).
2. Attach the **Tether Cable** onto **Grid Support Wire** or other suitable structure (Fig. 3).
3. Remove the **LED Driver Box Cover** and connect power. Use appropriate UL rated wire connectors as required by code to make electrical splices to fixture leads. Follow appropriate mounting and wiring instructions as per code (Fig. 5).
WARNING: To prevent wiring damage or abrasion do not expose wiring to edges of sheet metal or other sharp objects.
4. Secure the **Driver Box Cover**.
5. Set desired **Field-Adjustable** settings for **Color Temperature (CCT)** and/or **Power (W)**, see **Field-Adjustment** section (Fig. 4).
6. Place the **Ceiling Tile** onto the **Frame Light**.

Fig: 2

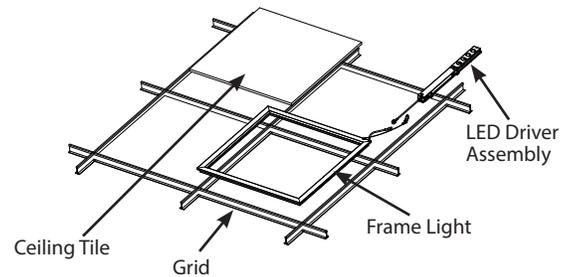


Fig: 3

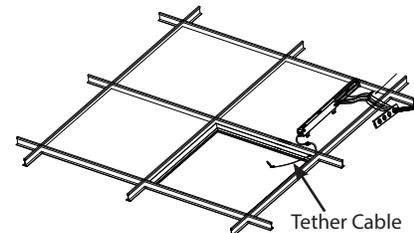
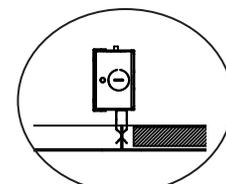
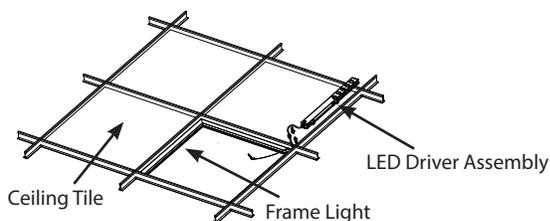


Fig: 1



End-view of Driver Assembly

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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 3000K, 3500K, 4000K, 5000K, 6500K (CCT) **Color Temperature** selection. For maximum light output use the 4000K **Color Temperature**.

Power (Wattage) Selection:

This product is equipped with power output selection.

FR1X4 40/35/30/25/20W

FR2X2 40/35/30/25/20W

FR2X4 50/45/40/35/30W

Factory Settings:

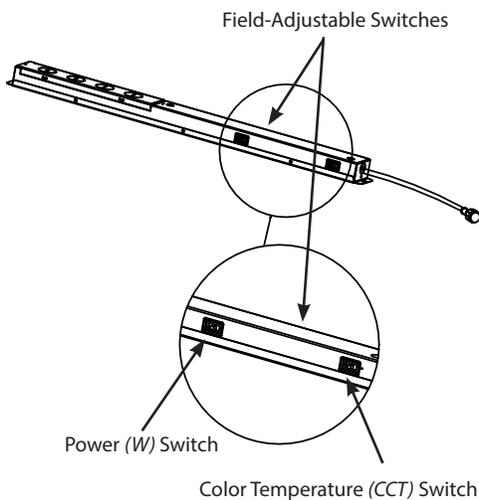
1X4 - 40W / 4000K

2X2 - 40W / 4000K

2X4 - 50W / 4000K

1. Locate the **Selection Switches** on the side of **LED Driver Assembly** as shown in Fig. 4.
2. Select **Color Temperature (CCT)** and/or **Power (W)** by sliding the respective Switch to the desired setting.

Fig: 4

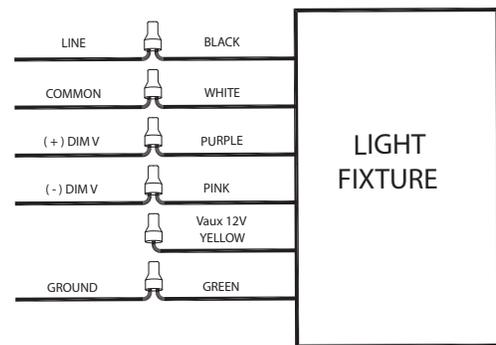


0-10V DIMMABLE WIRING

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.

Fig: 5



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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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. **IMPORTANT:** After installation is complete supply AC power and then connect the **BATTERY**.
7. When **Unswitched** and **Switched** power are **ON** the Fixture should be on and the **Charging Indicator Light** will illuminate.
8. Once the **BATTERY** has charged for at least one hour a short duration test may be performed by pressing the **Test Button** (Fig. 7).
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 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. 7), check if battery is connected properly.

Fig: 6

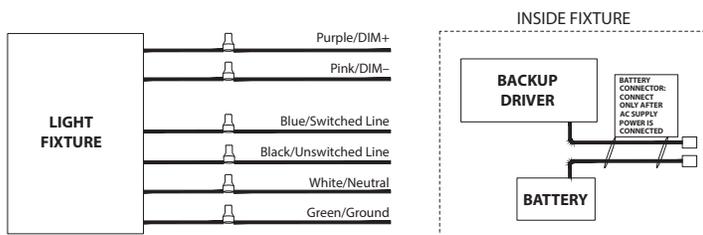


Fig: 7



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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

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