RAB RPLED Field Adjustable Retrofit Panel

RAB RPLED Field Adjustable Retrofit Panel Installation Guide

Contents

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Specifications

- **Product Name:** RPLEDTM Field-Adjustable Retrofit Panel
- **Available Sizes:** 1×4, 2×2, 2×4
- **Application:** Indoor Recessed Ceiling
- **Compatibility:** Suitable for existing luminaires with insulated or non-insulated ceilings

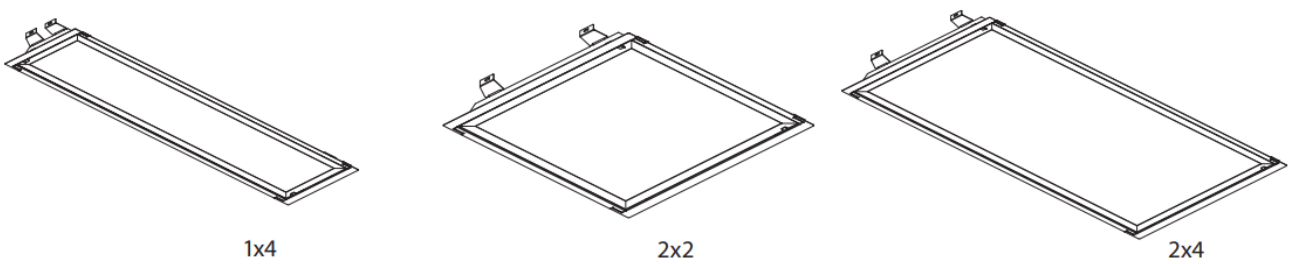
Product Usage Instructions

- **Recessed Ceiling Mounting:**
  - Remove existing lamps, door/lens frame, reflector, and cover from the existing luminaire.
  - If required, remove the ballast to create clearance space.
  - Gently lift the original luminaire housing and insert the two Side Brackets between the housing and the T-Grid. Ensure the Side Brackets sit on the top edge of the T-Grid.
  - Secure the Side Brackets in place using Self-tapping Screws provided through the bracket mounting holes from inside the fixture.
  - Insert the two Side Rails (filler strips) into the spaces between the Side Brackets and the T-Grid.
  - Insert the panel Pivot Pins into the Bracket Slots and slide the panel to the end of the Bracket Slots to secure it in place.
  - Make electrical connections following the wiring diagram provided. Use approved wiring connectors and adhere to local NEC codes.
  - Attach the Tether Cables with the Screws provided.
  - Raise the fixture Panel to close with Latches to the End Bracket.

FAQs

- **Q: Can this retrofit panel be used for outdoor applications?**
  - **A:** No, this retrofit panel is suitable only for indoor recessed ceiling applications.
- **Q: What should I do if I accidentally damage the luminaire wiring during installation?**
  - **A:** If luminaire wiring or electrical parts are damaged during installation, stop immediately and seek professional assistance to repair or replace the damaged components.
- **Q: Are there any specific tools required for installing this retrofit panel?**
  - **A:** You may need a power screwdriver for securing the Side Brackets and other basic tools for electrical connections. Refer to the installation manual for a detailed list of required tools.

SIZE



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 THE FIXTURE. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.
- RAB fixtures must be wired per the National Electrical Code and all applicable local codes. Proper grounding is required for safety. THIS PRODUCT MUST BE INSTALLED per 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 the fixture. No user-serviceable parts inside.
- WARNING: Risk of fire or electric shock. Luminaire wiring and electrical parts may be damaged when drilling for the installation of
- LED retrofit kit. Check for enclosed wiring and components.
- **WARNING** – Risk of fire or electric shock. Install this kit only in luminaires that have the construction features and dimensions shown in the photographs and/or drawings.
- **WARNING** – To prevent wiring damage or abrasion, do not expose wiring to the edges of sheet metal or other sharp objects.
- **WARNING** – Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of luminaire electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.
- Only those open holes indicated in the drawings may be made or altered as a result of kit installation. Do not leave any other open holes in an enclosure of wiring or electrical components.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.
- This retrofit kit is accepted as a component of a luminaire where the suitability of the combination shall be determined by authorities having jurisdiction.
- Suitable for damp locations. Class 1 Wiring. Suitable for operation in ambient not exceeding 40°C.

RECESSED CEILING MOUNTING

The fixture is suitable only for INDOOR RECESSED CEILING application in an existing luminaire with an insulated or non-insulated ceiling. Follow the steps below.

1. Remove existing lamps, door/lens frame (if applicable), reflector and cover. Depending on clearance space, ballast may need to be removed.
2. Gently lift the original luminaire housing and insert the two Side Brackets between the housing and the T-Grid (Fig. 1). Side Brackets should be sitting on the top edge of the T-Grid. Using Self-tapping Screws (provided) as shown in Fig. 3, use a power screwdriver to secure Side Brackets into place through bracket mounting holes from inside of the fixture.

   Caution: Luminaire wiring and electrical parts may be damaged when drilling for the installation of an LED retrofit kit. Ensure that enclosed wiring and components have not been damaged.
3. Insert the two Side Rails (filler strips) into the spaces between the Side Brackets and the T-Grid (Fig. 2).
4. Insert the panel Pivot Pins into the Bracket Slots (Fig. 4). Slide the panel to the end of the Bracket Slots to

secure the panel in place (Fig. 3 and 4)).

5. Make electrical connections as shown in the wiring diagram (Fig. 7). Use approved wiring connectors and appropriate wiring methods and wire to local NEC codes. Be careful not to pinch the wires.
6. Attach the Tether Cables with the Screws provided (Fig. 4).
7. Raise the fixture Panel to close with Latches to the End Bracket as shown in Fig. 5.

Fig: 1

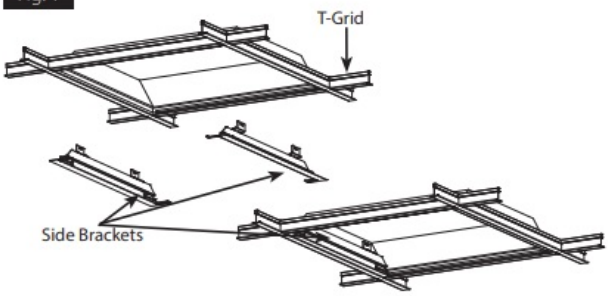


Fig: 2

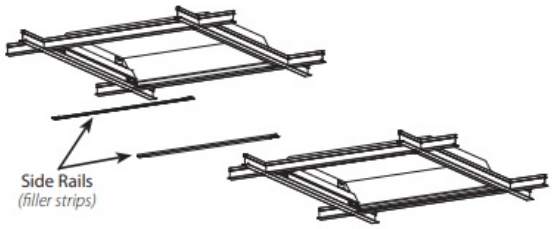


Fig: 3

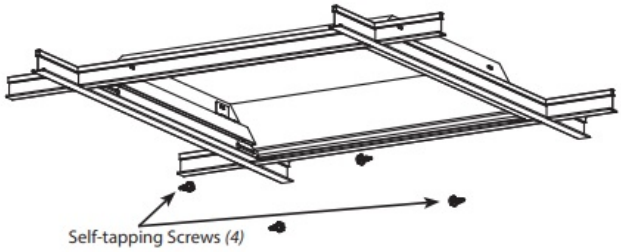


Fig: 4

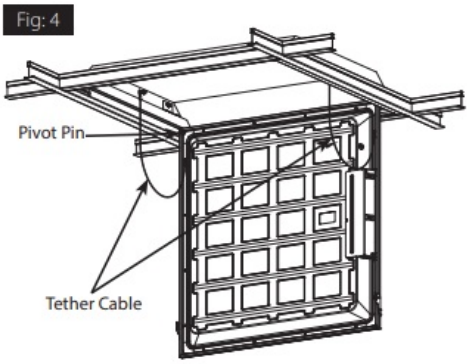
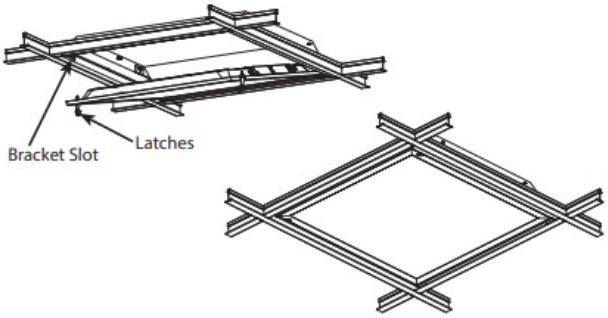
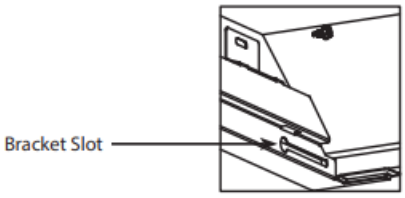


Fig: 5





FIELD ADJUSTMENT

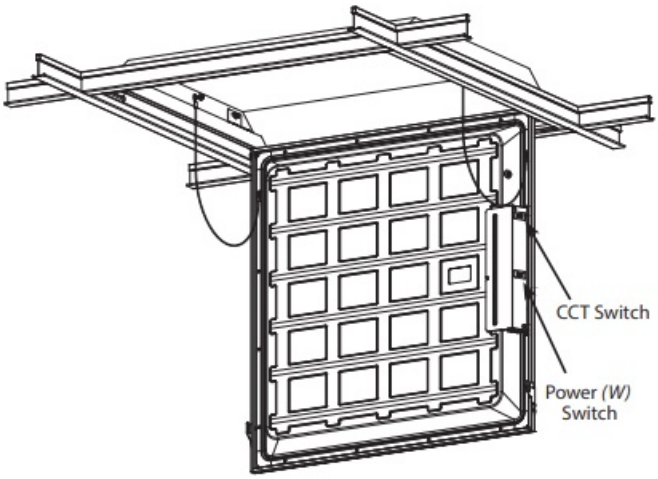
Follow the instructions below to change the Fixture Power (W) and/ or Color Temperature (CCT) from factory settings:

Factory Settings:

- RPLED1X4 30W / 4000K
- RPLED2X2 30W / 4000K
- RPLED2X4 35W / 4000K

1. Locate the Field Adjustable Switches located on the back of the Fixture Housing as shown in Fig. 6.
2. Select Power (W) and/or Color Temperature (CCT) by sliding the respective switch to the desired value.

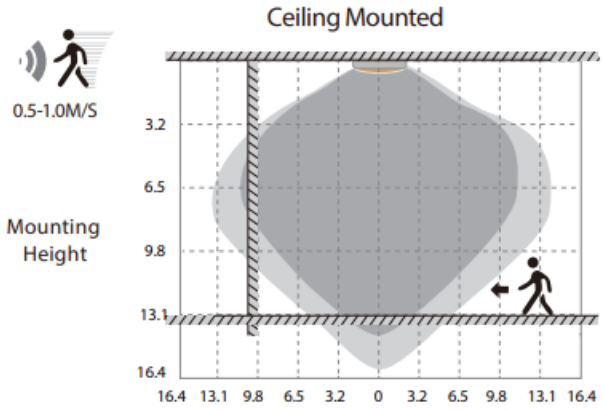
Fig: 6



MVS MODELS (Internal)

(optional remote sold separately for custom settings, CAT# MSR1).
Factory Settings:

- **Brightness:** 100%
- **Hold Time:** 20 Minute
- **Daylight:** Disabled
- **Motion Sensitivity:** High
- **Stand-by dimming level:** 20%
- **Stand-by time:** 1 Minute



The highest mounting height is 13.1ft

This figure indicates the maximum distance at the highest mounting height with 100% sensitivity.

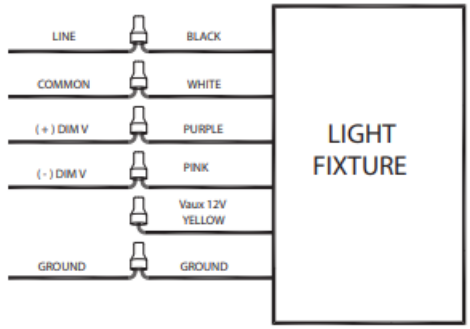
- Well Detected Area
- Possibly Detected Area

0-10V DIMMABLE WIRING

Universal voltage driver permits operation at 120V through 277V, 50 or 60 Hz. 0-10V control wires must be rated for 300V minimum. For 0-10V dimming, follow the wiring directions shown below (Fig. 7).

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 the fixture to the 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.

Fig: 7



TROUBLESHOOTING

1. Check that the line voltage at the fixture is correct. Refer to wiring directions.
2. Be sure the fixture is grounded properly.
3. If the Lightcloud Blue-enabled fixture does not connect follow the steps to enable device pairing mode and try to pair again.

CLEANING & MAINTENANCE

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

1. Clean polycarbonate lens & fixture with non-abrasive cleaning solution.
2. Do not open the fixture to clean the LEDs. Do not touch the LEDs.

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.

BATTERY BACKUP MODELS

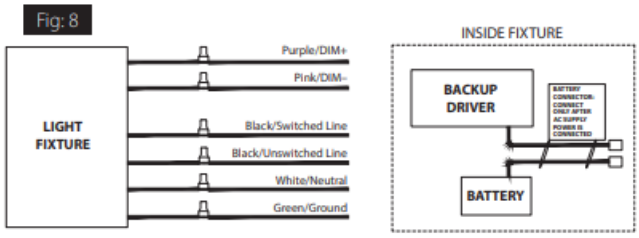
WIRING

- **CAUTION:** FOR BATTERY BACKUP FIXTURE. Voltage can be present in the BATTERY. To prevent high voltage from being present on output leads, the Inverter connector must be open. Do not join the BATTERY connector until installation is complete and AC power is supplied to the emergency driver (Fig. 8).

- **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 the 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. 9) After the battery has charged for 24 hours, a long-duration test can be performed by shutting power to the fixture.

Fig: 8



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

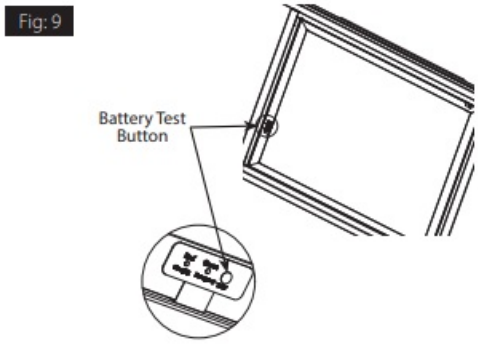
Although no routine maintenance is required to keep the emergency driver functional, it should be checked periodically to ensure that it is working. The following schedule is recommended:

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. The 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 the battery is connected properly.



Easy Answers

- **Visit our website for product info** rablighting.com.
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- **e-mail Answered promptly –** sales@rablighting.com.
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Documents / Resources

	RAB RPLED Field Adjustable Retrofit Panel [pdf] Installation Guide P-100922, 1X4, 2X2, 2X4, RPLED Field Adjustable Retrofit Panel, RPLED Retrofit Panel, Field Adjustable Retrofit Panel, Adjustable Retrofit Panel, Field Retrofit Panel, Retrofit Panel, Retrofit, Panel

References

- Welcome to RAB
- Legal - RAB Lighting
- User Manual

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