

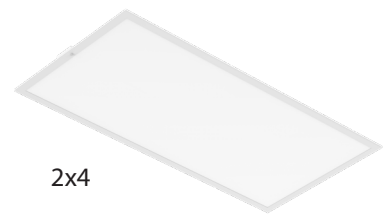
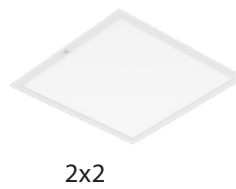
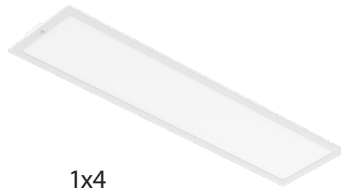
INSTRUCTIONS

EZPAN® 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

**** DON'T TOSS IT—RECYCLE IT! MAKE THE SUSTAINABLE CHOICE BY RECYCLING THIS FIXTURE AT END OF LIFE WITH A LICENSED RECYCLING PROVIDER. ****



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.

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. Some Jurisdictions require **Support Wires**. **Support Wires** may be installed to support the Fixture to the building structure through the **Grid Clip Hole** as shown in Fig. 3 (*support wires provided by others*).
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

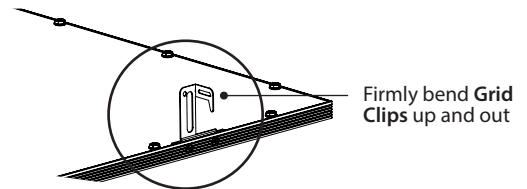


Fig: 2

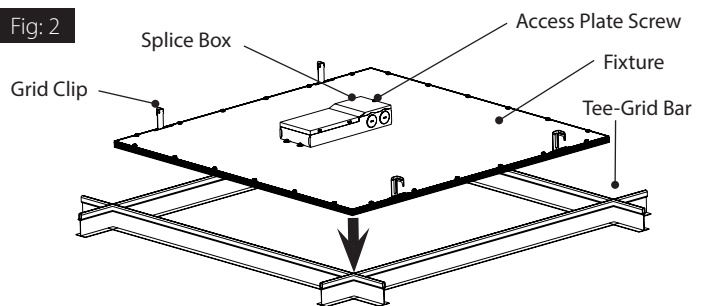


Fig: 3

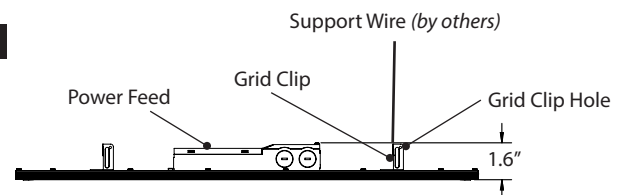
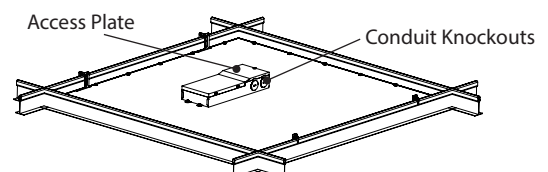


Fig: 4



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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.

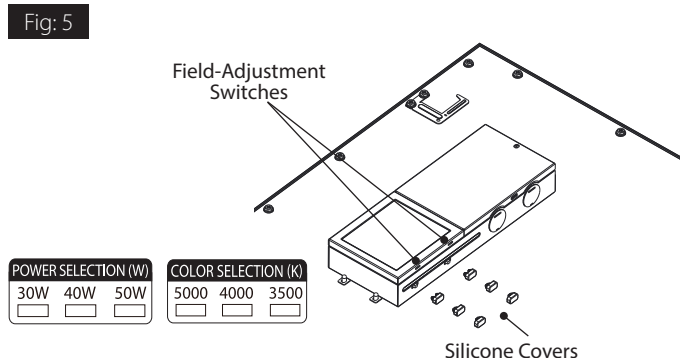
EZP1X4	40/30/25W
EZP2X2	40/30/25W
EZP2X4	50/40/30W
EZP1X4HE	36/30/25W
EZP2X2HE	36/30/25W
EZP2X4HE	50/40/30 W

Factory Settings:

EZP1X4	40W / 4000K
EZP2X2	40W / 4000K
EZP2X4	50W / 4000K
EZP1X4HE	36W / 4000K
EZP2X2HE	36W / 4000K
EZP2X4HE	50W / 4000K

1. Locate **Field-Adjustment Switches** on side of Fixture Driver as shown in Fig. 5.
2. Select a wattage and color temperature by sliding the respective switch to the desired setting.
3. After **Field-Adjustment Switches** are positioned to the desired settings insert the **Silicone Covers** to lock switches in place.

Note: Lightcloud Blue models offer color tuning via Lightcloud Blue mobile app.



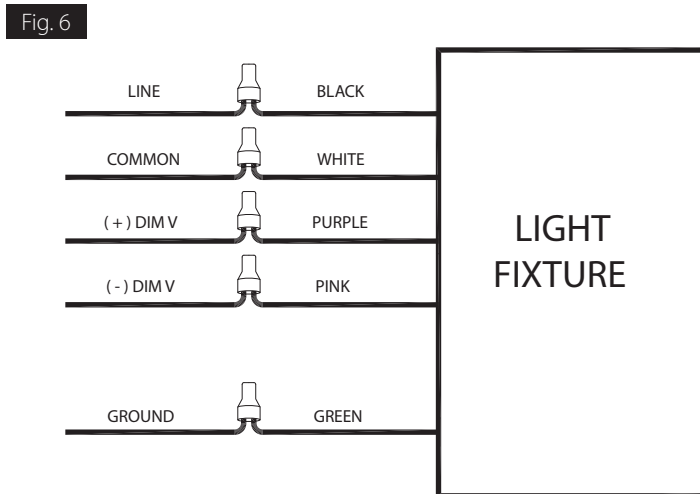
0-10V DIMMABLE WIRING

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. 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.

Note: 0-10V dimming circuit is not required when using Lightcloud Blue models.



TROUBLESHOOTING

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

CLEANING & MAINTENANCE

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.

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 MODELS

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.

WIRING

Lightcloud Blue fixtures do NOT require any 0-10V or other low voltage wiring between fixtures. All communication for on/off, dimming, color tuning (*if applicable*) is done over Bluetooth mesh via the Lightcloud Blue mobile app. This device requires **CONSTANT POWER** for wireless communication.

INSTALLATION

Lightcloud Blue devices should be placed within the specified range (~60 ft) to communicate within the Bluetooth Mesh network. See product specification sheet for more details.

DOWNLOAD THE MOBILE APP

The Lightcloud Blue mobile app is available for iOS and Android mobile phones and tablets. The mobile app can be used to commission and control your devices.

Note: The mobile device is not part of the mesh network and must be within ≤30 feet from at least one device on the Site.



iOS Users



Android Users

RAPID PROVISIONING

This patented technology allows users to pair up to 100 fixtures simultaneously. Any Lightcloud Blue fixture or device that is powered on can be discovered during this process.

Pro Tip: Pair devices Area by Area or by circuit. Power on only the devices for a single Area and begin the pairing process. Once paired, move the devices to their assigned Area and move on to the next Area. Once a device is paired it cannot be discovered again.

Note: Be sure that only one user is logged into the Site during Rapid Provisioning and throughout the commissioning process to avoid unfavorable results.

WARNING!

DO NOT power on more than 100 devices during the Rapid Provisioning process to avoid unfavorable results.

CONFIGURATION

All configuration of Lightcloud Blue products may be performed using the Lightcloud Blue mobile app. Visit our website for user guides, how-to videos, and other helpful tips on how to use the Lightcloud Blue system and features.

EMERGENCY DEFAULT BEHAVIOR

If there is a power loss, the Lightcloud Blue light will turn on at its last known ON state when power is restored. This can be adjusted in the app to last state, whether on or off.

RESET TO FACTORY SETTINGS

The factory reset options will vary by device. For more information visit our website.



Lightcloud Blue Resources

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BATTERY BACKUP MODELS

WIRING

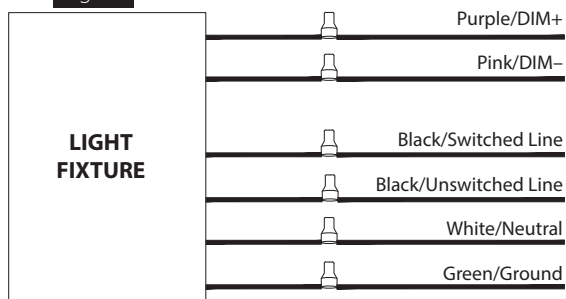
CAUTION: FOR BATTERY BACKUP FIXTURE. Voltage can be present in **BATTERY**. To prevent high voltage from being present on output leads, Inverter connector must be open. Do not join **BATTERY** connector until installation is complete and AC power is supplied to the emergency driver. (Fig. 10)

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.
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 power 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 will 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.
3. Is the Battery Backup Dip Switch Position set as shown in Fig. 11?

Fig. 11

EMERGENCY BATTERY SETTING		
PRODUCT	WATTAGE	DIP SWITCH POSITION (12W)
EZP 1X4	25-30-40	1 = Off 2 = On
EZP 2X2	25-30-40	
EZP 2X4	30-40-50	

EMERGENCY BATTERY SETTING		
PRODUCT	WATTAGE	DIP SWITCH POSITION (12W)
EZPHE 1X4	25-30-36	1 = Off 2 = On
EZPHE 2X2	25-30-36	
EZPHE 2X4	30-40-50	



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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 - sales@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