

INSTRUCTIONS

GUS® 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

**** 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. No user serviceable parts inside.

CEILING MOUNTING

1. Carefully snap out **Lens** one side at a time from **Housing**.
2. Remove (2) **Screws** from **Reflector** and discard. Squeeze center of **Reflector** and release from the **Notches**.
3. Pull supply wires from Junction Box (*by others*) through **Center Access Hole** of **Housing** as shown in Fig. 1. Use appropriate UL-certified wire connectors as required by code to make electrical connections. Follow appropriate mounting and wiring instructions per code.
4. Once connections are made push all wires behind **Reflector**.
5. Replace **Reflector**. Be careful not to pinch wires or expose to wiring to sharp edges. Hook **Lens** to one side of **Housing** and snap **Lens** into place as shown in Fig. 2.

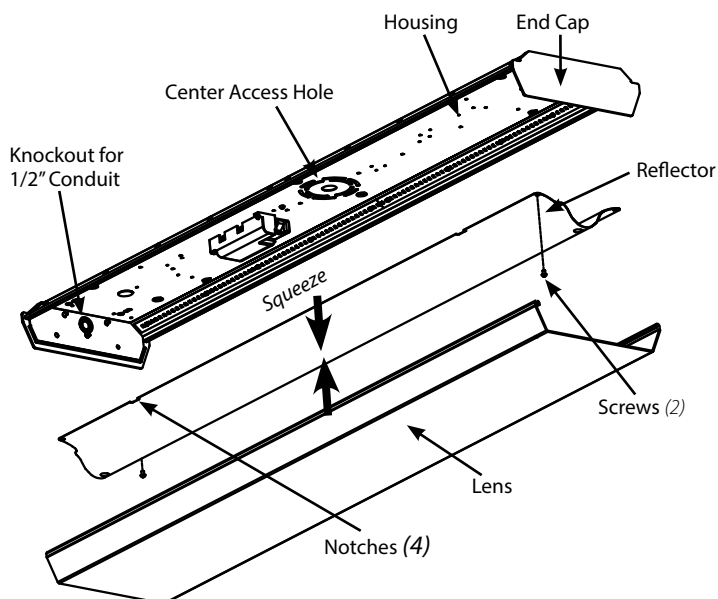
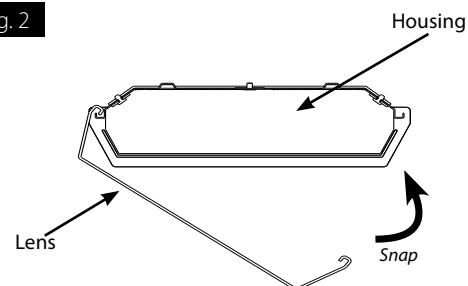


Fig. 2



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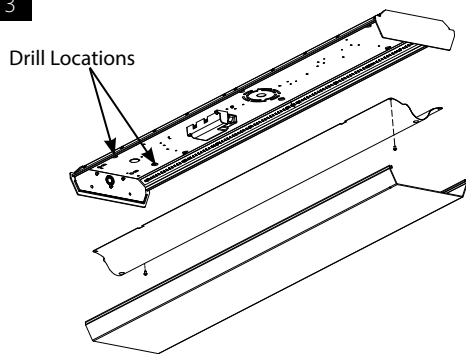
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SURFACE MOUNTING

The fixture is suitable for indoor applications for ceiling or wall mounting. Mount to a recessed junction box as follows:

1. Secure **Housing** to junction box and to the surface using the **Drill Locations** (6 holes for 4ft fixture, 4 holes for 2ft fixture) Fig. 3. Use the appropriate mounting hardware for the mounting surface.
2. Follow steps 4 and 5 in **Ceiling Mounting** section.

Fig. 3

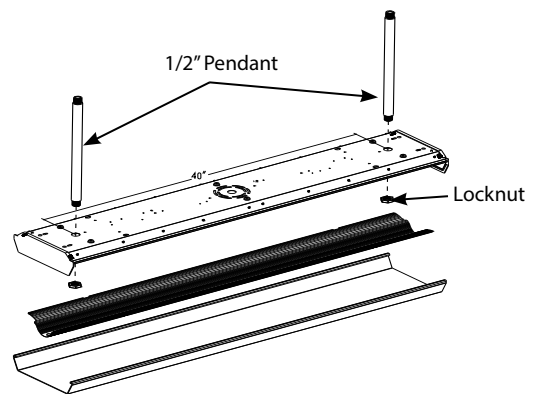


PENDANT MOUNTING

The fixture is suitable for pendant mounting indoor applications.

1. For pendant mounting, secure 1/2" **Pendant** (by others) into the two respective holes located on the back of the fixture as shown in Fig. 5.
2. Pass the supply wires through the **Pendant** and make electrical connections according to code.
3. Secure **Housing** to **Pendant** with the locknut from the inside as shown in Fig 5. Use the appropriate mounting hardware for mounting **Pendant** to mounting surface.

Fig. 5

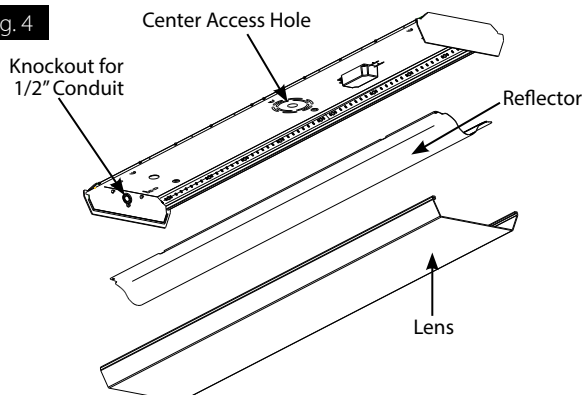


CONDUIT MOUNTING

Housing can be mounted with 1/2" conduit on the **End Cap**.

1. Knock out the conduit location before removing the **Lens**.
2. Pull supply wires from Conduit (by others) through **Knockout Hole** of **Housing** as shown in Fig. 4.
3. Remove **Lens** and **Reflector** to access fixture wire.
4. Follow appropriate mounting and wiring instructions per code.

Fig. 4

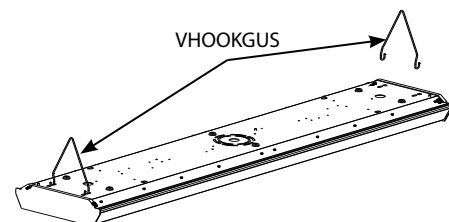


V-HOOK MOUNTING

The fixture can be mounted using V-Hooks.
(Ordered separately as **VHOOKGUS**)

1. Mount **V-hook** to the housing as shown in Fig. 6. Use the appropriate mounting hardware for the mounting surface.
2. For electrical wiring, snap out the **Lens** and **Reflector** as shown in Fig.1.
3. Pull supply wires in fixture through **Center Access Hole**. Use appropriate UL-certified wire connectors as required by code to make electrical splices to fixture leads.

Fig. 6



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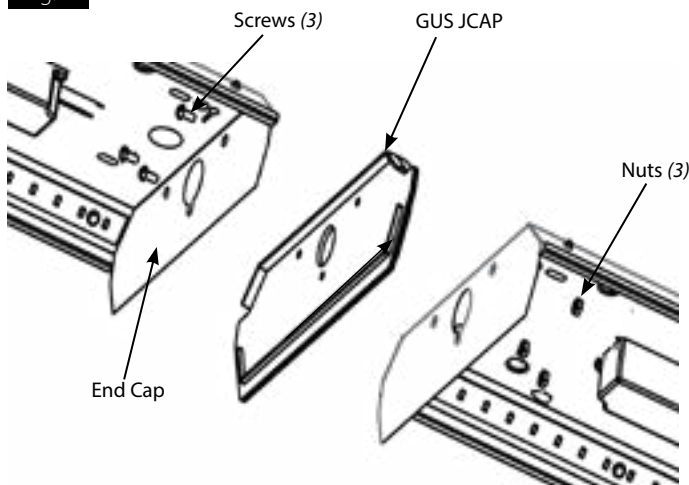
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ACCESSORIES - GUS JCAP

(GUS JCAP accessory is ordered separately)

1. Remove **End Caps** from both ends of **Housing** and replace with **GUS JCAP**.
2. Secure **GUS JCAP** with provided (3) **Screws** and (3) **Nuts** to join both housings as shown in Fig. 7.
3. Follow directions on Page 1 to secure **Housings** to mounting surface. If necessary feed wires through from one fixture to the other.

Fig. 7

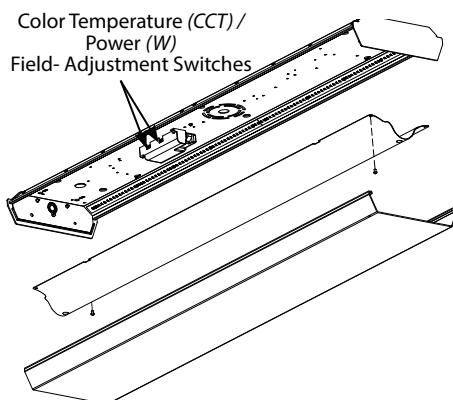


Catalog #	Maximum Number of Connected Fixtures
GUS2	Up to 36 fixtures
GUS4	Up to 18 fixtures

FIELD ADJUSTMENT

Locate **Field-Adjustment Switches** as shown in Fig. 8. Select **Power (W)** and/or **Color Temperature (CCT)** to the desired setting.

Fig. 8



OCCUPANCY SENSORS

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*) and Lightcloud Blue sensors can be configured using the mobile app.

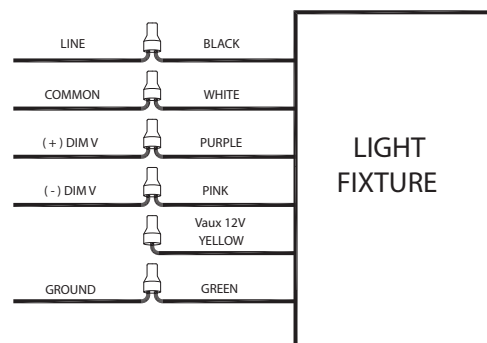
drive.rablighting.com/Occupancy-Sensor-Guide/1/

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. 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.
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



Note: Lightcloud Blue models do not require a 0-10V dimming circuit.

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CLEANING & MAINTENANCE

Wash Lens with warm water and mild non-abrasive detergent: rinse and wipe dry.

CAUTION: Fixture must be cool to the touch before cleaning.

WARNING: Do not clean or service while energized. Disconnect power first.

WARNING: Polycarbonate is damaged by some cleaning chemicals. See list of damaging chemicals on product information web page for chemical list:

rablighting.com/downloads/resources/damaging_chemical_list/damaging-chemical-list.pdf

WARNING: Do not open fixture or touch the LED.

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 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.

ALL FIXTURES MUST BE WIRED TO CONSTANT POWER (HOT FEED) FOR WIRELESS COMMUNICATION.

CREATE A RELIABLE

Lightcloud Blue devices should be placed within the specified range (**~60 ft**) to communicate within the Bluetooth Mesh network. Building materials such as brick, concrete and steel construction or heavy vegetation, bushes or trees may require additional Lightcloud Blue devices to extend around an obstruction. Contact RAB Lighting for more information.

DOWNLOAD THE MOBILE APP

Lightcloud Blue mobile app is available for IOS and Android mobile phones and tablets. The mobile app is required to commission and configure the Lightcloud Blue fixtures and devices.

Note: The mobile device is NOT part of the mesh network and must be within ≤ 30 ft from at least one device paired to the site.



IOS Users



Android Users

GETTING STARTED

1. Confirm your device is powered On.
2. Launch the App and create an account or login.
3. Tap the "add device" icon in the app to start connecting devices.
4. Select the fixture in the app and move it to an Area.
5. You are all set!

RESET TO FACTORY SETTINGS

If your Lightcloud Blue fixture is already paired, you can reset it to factory settings by using below methods.

Method 1: Delete from the App

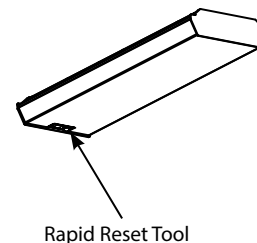
Open the app and access the device settings for the paired device. Be sure that the fixture is online (*green status bars are visible*) and select **"DELETE FROM SITE"**

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 as default CCT.

Method 3: Rapid Reset Tool

The rapid reset process must be done by a professional electrician 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 fixture for 2 seconds as shown below. The fixture will flash 3 times, then reset to 100% brightness at default CCT.



CONFIGURATION

All configuration of Lightcloud Blue products may be performed using the Lightcloud Blue mobile app.



System overview



Resources

POWER OUTAGE RECOVERY

If there is power loss, the Lightcloud Blue light will turn ON AT LAST DIM LEVEL when power is restored. This behavior can be adjusted to LAST STATE using the mobile app. When using Schedules, be sure to add a NANO/LCB (*sold separately*) to maintain accurate timekeeping after a power loss.

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BATTERY BACKUP MODELS

WIRING

CAUTION: FOR BATTERY BACKUP FIXTURE.

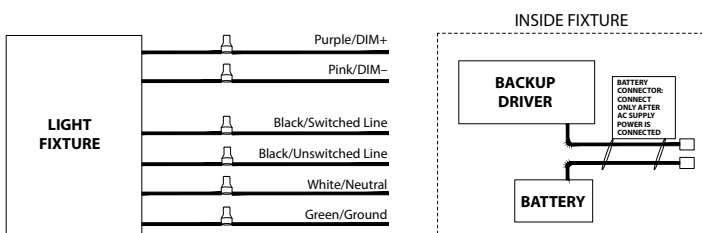
Voltage can be present in **BATTERY**. To prevent high voltage from being present on output leads, Inverter connector must be open. Do not join **BATTERY** connector until installation is complete and AC power is supplied to the emergency driver (Fig. 10).

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 (-)** lead 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.
Note: The charging indicator light and test switch are located on the LED tray below the lens.
2. When power fails, the standby power automatically switches to backup mode at reduced power, resulting in lower illumination. The emergency driver supplies power in standby mode for a minimum of 90 minutes.
3. When AC power is restored, the emergency driver automatically returns to charging mode.

MAINTENANCE

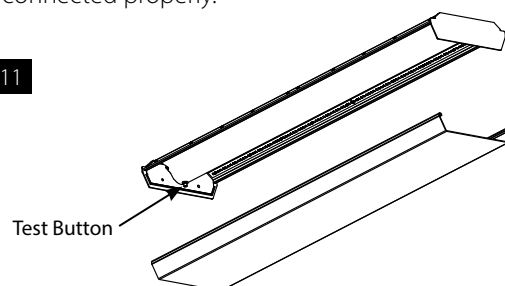
Although no routine maintenance is required to keep the emergency driver functional, it should be checked periodically to ensure that it is working. The following schedule is recommended:

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



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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

GUS-IN-0826
73372-RAB

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