

# INSTRUCTIONS

## GUS® 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](mailto:marketing@rablighting.com)



GUS - 2FT



GUS - 4FT

### 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.

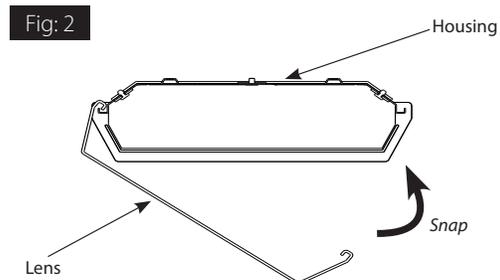
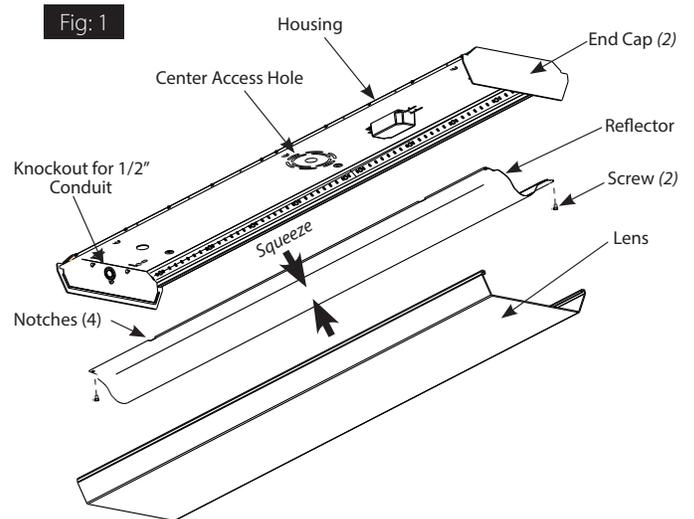
**WARNING: Make certain power is OFF before installing or maintaining fixture. No user serviceable parts inside.**

### CEILING MOUNTING

The fixture is suitable for indoor applications.

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

**WARNING: To prevent wiring damage or abrasion, do not expose wiring to edges of sharp objects.**



# INSTRUCTIONS

## GUS® 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](mailto:marketing@rablighting.com)

### SURFACE MOUNTING

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

1. Secure **Housing** to junction box or mount **Housing** directly to sturdy surface by 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 5 and 6 in **Ceiling Mounting** section.

### 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 (*not supplied*) through **Knock out Hole** of **Housing** as shown in Fig. 1.
3. Remove **Lens** and **Reflector** to access the fixture wire.
4. Follow appropriate mounting and wiring instructions per code.

### PENDANT MOUNTING

The fixture is suitable for pendant mounting indoor applications.

1. For pendant mounting, secure 1/2" **pendant** (*not provided*) into the two respective holes located on the back of the fixture as shown in Fig. 4.
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 4. Use the appropriate mounting hardware for mounting **Pendant** to mounting surface.

### 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. 5. 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 rated wire connectors as required by code to make electrical splices to fixture leads.

Fig: 3

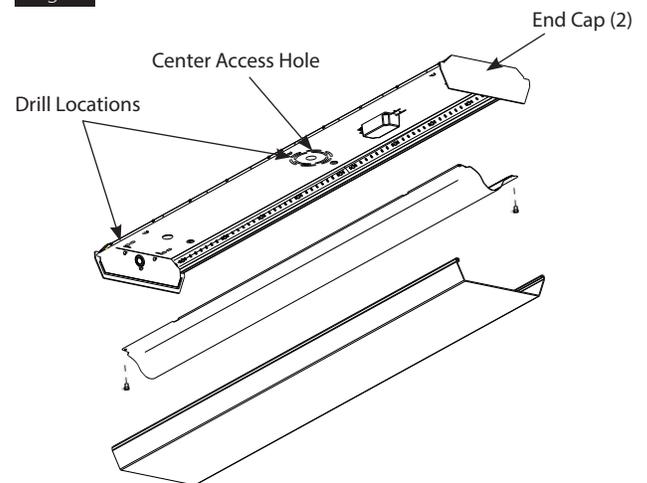


Fig: 4

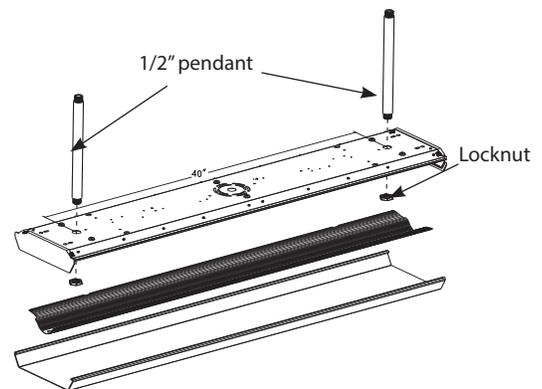
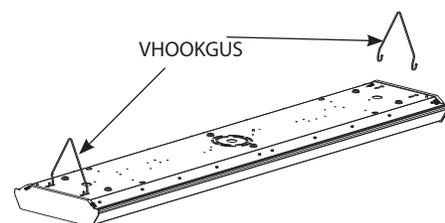


Fig: 5



# INSTRUCTIONS

## GUS® INSTALLATION

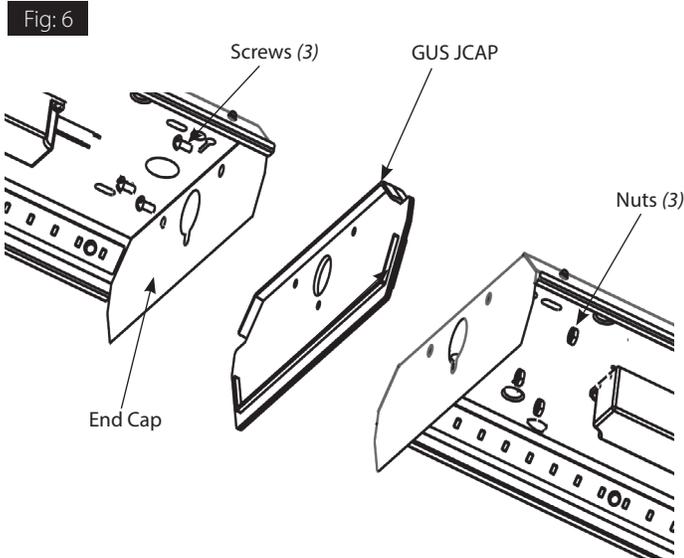


RAB Lighting is committed to creating high-quality, affordable, well-designed and energy-efficient LED lighting and controls that make it easy for electricians to install and end users to save energy. We'd love to hear your comments. Please call the Marketing Department at 888-RAB-1000 or email: [marketing@rablighting.com](mailto:marketing@rablighting.com)

### ACCESSORIES - GUS JCAP

(Ordered separately) - Fig. 6

1. Remove **End Caps** (2) from both **Housings** and replace with **GUS JCAP**.
2. Secure **GUS JCAP** with **Screws** (3) and **Nuts** (3) provided as shown in Fig. 6 to join both **Housings**.
3. Follow directions on Page 1 to secure **Housings** to mounting surface. If necessary feed wires through from one fixture to the other.

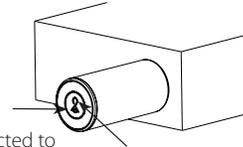


### LED Indicators:

**Blinking Red** = Looking for a network

**Solid Green** = Connected to network

Fig: 7



### STATUS INDICATOR

Solid GREEN when connected to your Lightcloud Blue network.  
Blinking RED when unprovisioned.

### DEVICE IDENTIFICATION BUTTON

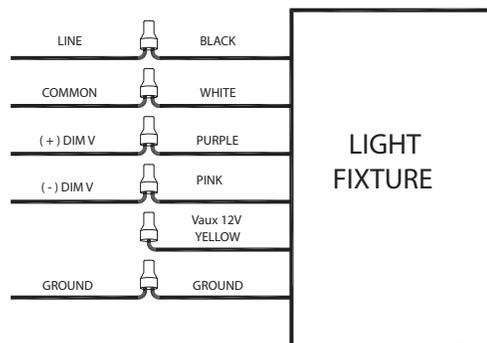
- Press once to rapid identify this device in the Lightcloud Blue Application when provisioned
- Press twice to toggle circuit on and off
- Press twice and hold to set dim level
- Press and hold for 10s to reset the device to factory settings and into pairing mode

### 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. 8.

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: 8



### 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.

Lightcloud Blue devices should be placed within the specified range to communicate within the Bluetooth Mesh network. Up to 60 feet between standard building materials. Up to 200 feet clear line of sight.

**Reset to Factory Settings:** To enable pairing or reset the device, locate the device identification button at the top of the Controller under the Lightcloud logo. Press and hold this button for 10 seconds or until the indicator light begins flashing red. and the fixture will also on/off 5 times.

# INSTRUCTIONS

## GUS® 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)

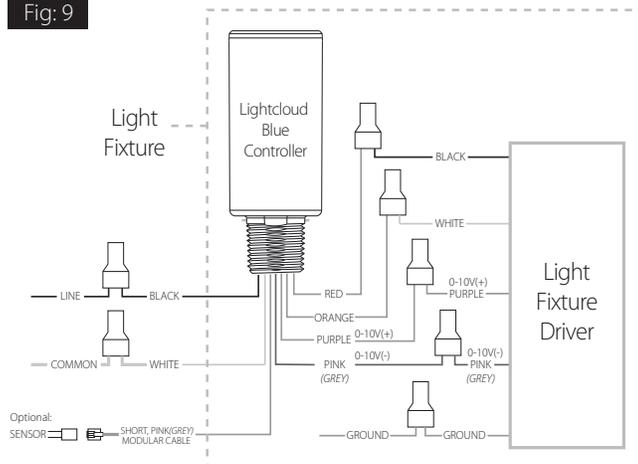
### WIRING

**WARNING:** Lightcloud Blue-enabled fixtures require constant power and shouldn't be placed down circuit from any switching devices.

Universal voltage driver permits operation at 120V thru 277V, 50 or 60 Hz. For 0-10V Dimming, follow the wiring directions 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** wire from fixture to supply ground.
5. Connect the **Pink (Grey)** wire from fixture to supply ground.

Fig. 9



**NOTE:** Do not connect DIM V+ (purple)/ DIM V- (pink(grey)) to line voltage or supply ground.  
To test, double click the Lightcloud Blue button to turn on and off the fixture shown in (Fig. 7).

### CONTROLLING LIGHTCLOUD® BLUE DEVICE

1. Confirm your device is powered on.
2. Download the Lightcloud Blue app from the Apple App Store or Google Play store.
3. Launch the App and create an account or sign into an existing account.
4. Tap the "add device" icon in the app to start connecting devices.
5. Follow the remaining steps in the app. Create areas, groups, and scenes to organize and control your devices.

### CONFIGURATION

To configure the Lightcloud Blue please login to the Lightcloud Blue app for details. For additional startup information, please visit [www.lightcloud.com/item/lcb-getting-started/](http://www.lightcloud.com/item/lcb-getting-started/)

### CLEANING & MAINTENANCE

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

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

### 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.

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)

## BATTERY BACKUP MODELS

### WIRING

#### CAUTION: FOR BATTERY BACKUP FIXTURE.

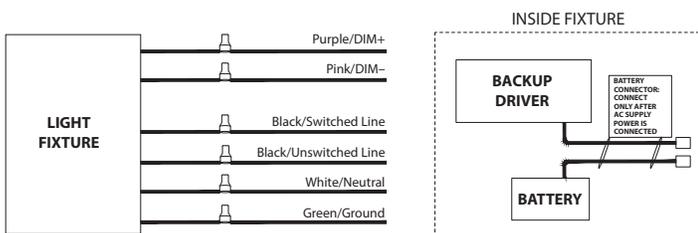
Voltage can be present in **BATTERY**. To prevent high voltage from being present on output leads, Inverter connector must be open. Do not join **BATTERY** connector until installation is complete and AC power is supplied to the emergency driver (Fig. 10).

**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.
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, check if battery is connected 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.