INSTRUCTIONS
WHALE™ 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

WHALE2 / WHALE2H

WHALE4 / WHALE4H

IMPORTANT

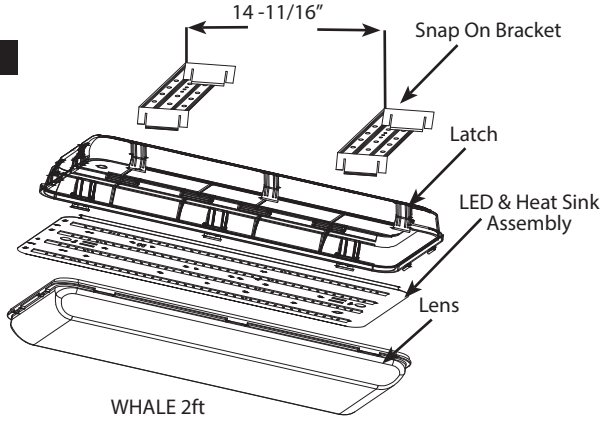
READ CAREFULLY BEFORE INSTALLING FIXTURE. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.
RAB fixtures must be wired in accordance with the National Electrical Code and all applicable local codes. Proper grounding is required for safety. THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.
WARNING: Disconnect or turn OFF power at the electrical panel before installing or maintaining fixture.
No User serviceable parts inside fixture.
Suitable for wet locations. Min. 75° C Supply Conductors.

SURFACE MOUNTING

The fixture is suitable for outdoor applications in wet location either ceiling or wall mount.

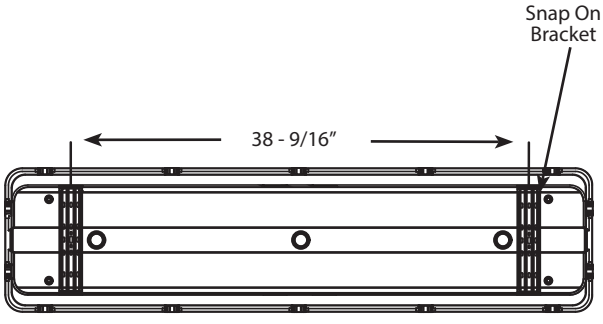
1. Use appropriate mounting hardware *(by others)* to secure the **Snap On Bracket** to the mounting surface *(Fig.1,2,3,4)*. Refer to recommended mounting locations for the **Snap on Brackets**.
   WARNING: Mount Snap On Bracket symmetrical about the center as shown in Fig. *1, 2. 3, 4*.
2. Unlatch the **Lens** from **Housing**.
3. Snap out the **LED Assembly**. **Tether Cables** are provided to hold **Assembly**.
4. Feed supply wires through one of the **Conduit Plugs** *(5)* to make electrical splices. **Cord-grip** *(1)* is provided and may be used based on application.
5. Use appropriate UL approved wire connectors as required by code to complete wiring with supply wires, see wiring diagram Fig. 9. Be careful not to pinch wires. **WARNING: To prevent wiring damage or abrasion, do not expose wiring to sharp objects.**
6. Snap in **LED Assembly** and secure **LENS** to housing by **Latch**. Check that the **Gasket** is fully seated.
7. Install Housing on **Snap On Brackets** as shown in Fig. 4.
8. Use silicone or Teflon® tape on all conduit entry points.

Fig. 1



WHALE 2ft

Fig. 2



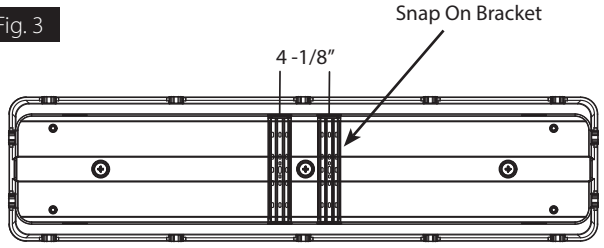
WHALE 4ft

INSTRUCTIONS

WHALE™ 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

Fig. 3



WHALE 2ft & 4ft

Fig. 4

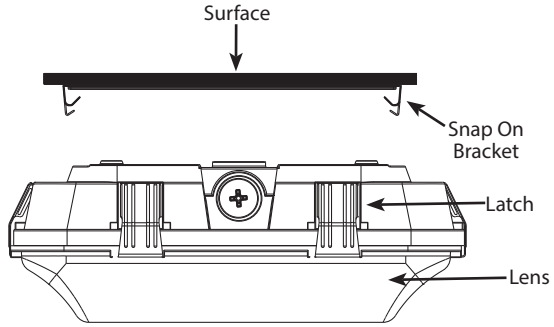
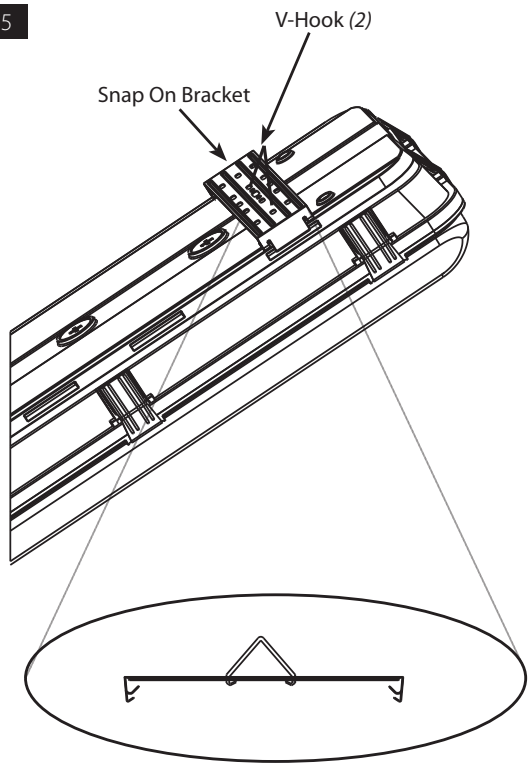


Fig: 5

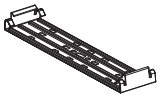


V-HOOK MOUNTING

1. Snap Housing on the **Snap On Bracket** as shown in Fig.1.
2. V-Hooks *(2pcs provided for WHALE 2ft and 4ft)* for chain mounting. Loop **V-Hooks** through **Snap On Bracket** at back of Housing as shown in Fig. 5.
3. Connect to two equal lengths of chain *(by others)* and/or appropriate hardware *(by others)* suitable for the mounting surface to suspend Housing from **V-Hooks**. Use chain suitable to support *(4)* four times the weight of the fixture.
4. Use silicone or Teflon® tape on all conduit entry points.
5. Use appropriate UL approved wire connectors as required by code to complete wiring with supply wires, see Fig. 9. Be careful not to pinch wires.

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

ACCESSORIES *(provided)*

V-Hook 	2PCS
Mounting Bracket 	2PCS
Cord Grip 	1PC

INSTRUCTIONS

WHALE™ 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

FIELD ADJUSTMENT

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

Power *(Wattage)* Selection:

This product is equipped with *(W)* Power output selection.

WHALE 2	90/75/60W
WHALE 2H	135/100/70W
WHALE 4	160/140/120W
WHALE 4H	265/225/145W

Color Temperature *(CCT)* Selection:

This product is equipped with 3000/4000/5000K (CCT) Color Temperature. For maximum light output use the 4000K Color Temperature.

Factory Settings:

WHALE 2	90W	4000K
WHALE 2H	135W	4000K
WHALE 4	160W	4000K
WHALE 4H	265W	4000K

1. Release the **Latches** and unlatch the Lens from the Housing.
2. Locate the **Field Adjustable Switches** on the **LED Assembly** as shown in Fig. 6.
3. Select **Power** *(W)* and **Color Temperature** *(CCT)* by sliding the respective switch to the desired value *(Fig. 7)*.
4. Secure the **Lens** to the **Housing** by **Latch**. Be careful not to pinch the wires.

Fig: 6

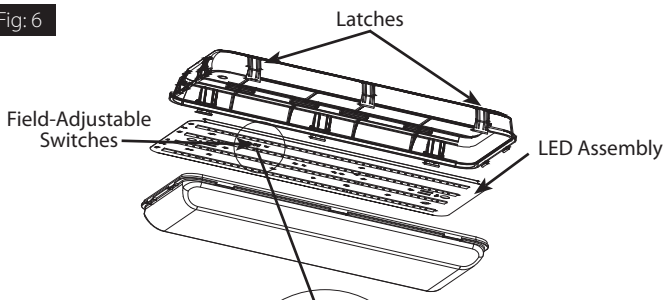
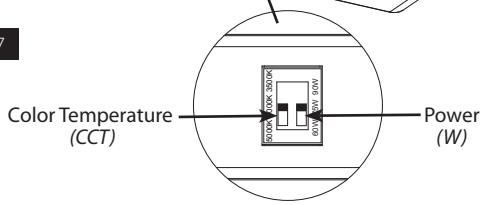


Fig: 7



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.

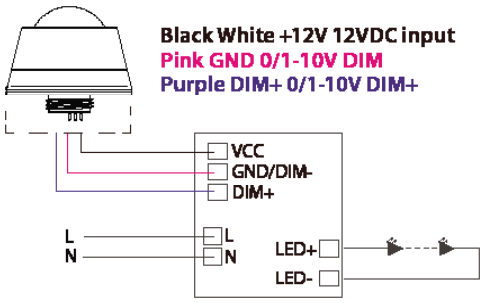
Each device in a system can communicate with any other device, eliminating the need for a Gateway or Hub and maximizing the control system's reach.

Lightcloud Blue devices should be placed within the specified range to communicate within the Bluetooh Mesh network. Up to 60 feet between standard building materials.

SENSORS WIRING

The Lightcloud Blue High Bay Low Voltage Controller installs in compatible sensor ports using a 3-pogo pin connection.

Fig: 8



0-10V DIMMABLE WIRING

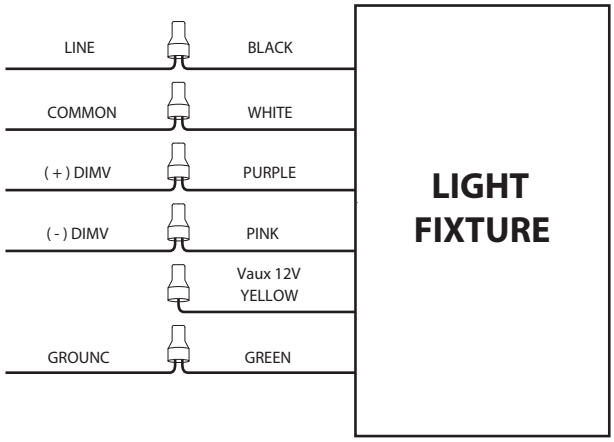
RISK OF FIRE. Universal voltage driver permits operation at 120V through 277V, 50 or 60 Hz. For 0-10V dimming follow the wiring directions as shown in Fig. 9.

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 green 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.

INSTRUCTIONS
WHALE™ 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

Fig: 9



LIGHTCLOUD® BLUE SENSORS

This is a 12V low voltage controller with integrated occupancy sensor. Screw the Sensor Head into the sensor port of a compatible fixture. Sensor will operate in Occupancy mode in their Uncommissioned State. Once paired to the Lightcloud Blue mobile app, the sensor will be disabled. Sensor Settings can be adjusted in the Lightcloud Blue mobile app. Once the sensor is enabled in the mobile app, the sensor will respond based on Commissioned State factory settings. For use with compatible fixtures without a sensor port, see BRACKET ***(RAAS)*** INSTALLATION.

Factory Settings: Uncommissioned State

- Sensor Status: Enabled
- Motion Sensitivity: High
- Brightness when triggered: 100%
- Hold time: 20 Minute
- Daylight harvesting: Disabled

Factory Settings: Commissioned State

- Sensor Status: Disabled.
- Motion Sensitivity: High
- Brightness when triggered: Last on status
- Hold time: 20 Minute
- When vacant: Off
- Daylight harvesting: Disabled

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.
4. Tap the "add device" icon in the app to start connecting devices.
5. Select the fixture in the app and move it to an Area with other Lightcloud Blue lights.
6. You're all set!

Learn more about the Lightcloud Blue system and app features.

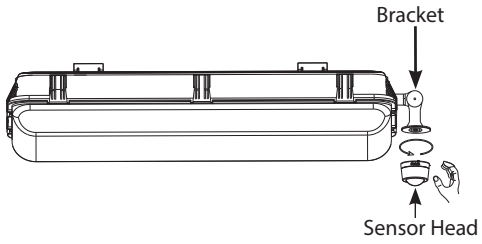
CONFIGURATION

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

BRACKET *(RAAS)* INSTALLATION

Connect the Low Voltage Controller/Sensor to the Bracket ***(RAAS)***: Unscrew the 1/2" knockout on the **Bracket** ***(RAAS)*** with a screwdriver and screw on the Low Voltage Controller/Sensor. Connect the **Bracket** ***(RAAS)*** to a 1/2" knockout on a compatible facture.

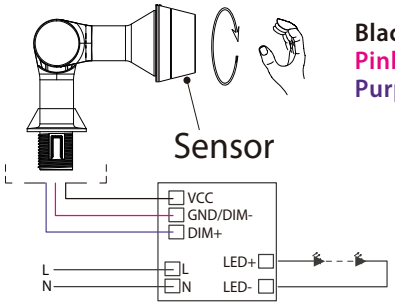
Fig: 10



INSTRUCTIONS
WHALE™ 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

BRACKET *(RAAS)* WIRING

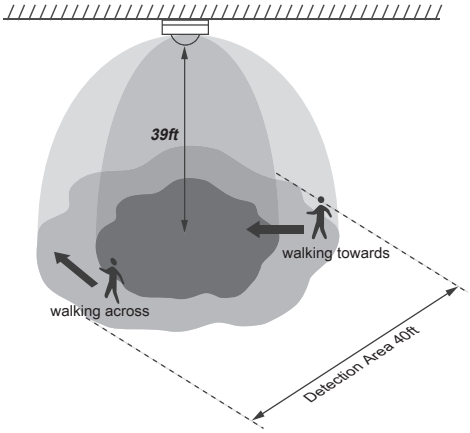


Black White +12V 12VDC input
Pink GND 0/1-10V DIM
Purple DIM+ 0/1-10V DIM+

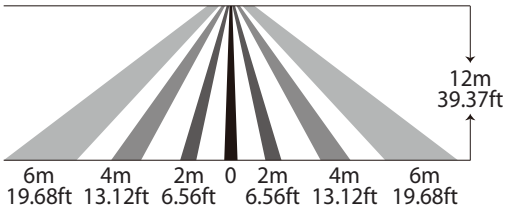
SENSOR COVERAGE

High Bay Low Voltage PIR Controller:

Highest ceiling mounted height is 12m/39ft.



Radius of detection range is 3-6m/9.84-19.68ft.

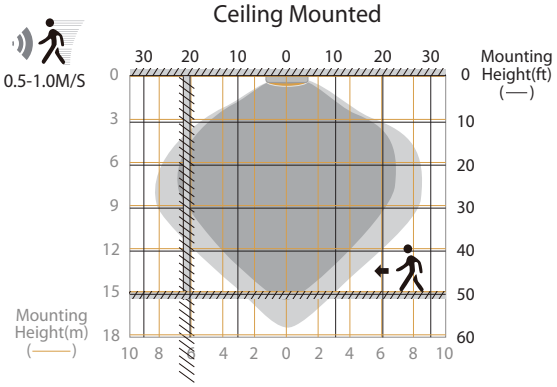


SENSOR COVERAGE *(cont'd)*

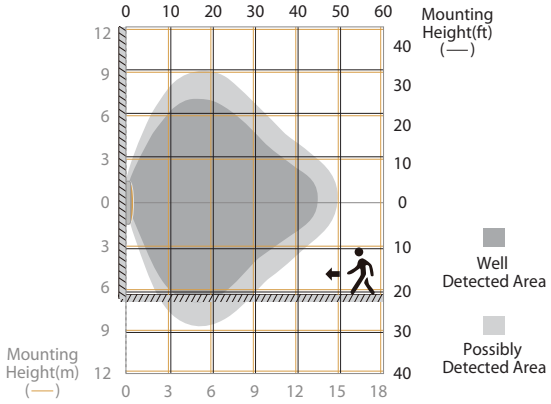
High Bay Low Voltage MVS Controller:

Highest mounting height is 15m/49ft:
this figure indicates the maximum distance at the highest mounting height with 100% sensitivity.

Ceiling Mounted



Wall Mounted



INSTRUCTIONS

WHALE™ 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

RESTORE FACTORY SETTINGS

To restore your Lightcloud Blue Low Voltage Controller to factory settings, you can reset it using the following methods:

Method 1: Delete from App

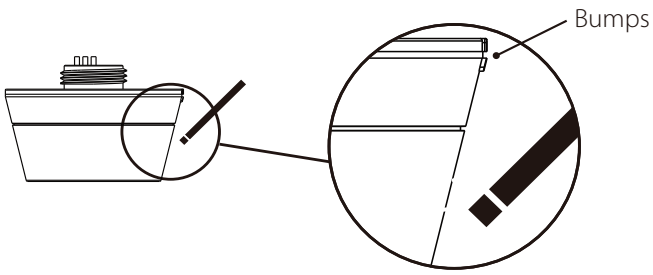
If the controller was previously paired, open the mobile app and access the device settings for the paired device. Be sure that the device is online and select 'Delete from Site'. The light will flash on/off 3x, then reset to 100% brightness.

Method 2: Manual

Remove the controller and reattach 5x in a row. The light will flash on/off 3x then reset to 100% brightness.

Method 3: Rapid Reset Tool

The rapid reset process must be done by professional electricians 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 the small Lightcloud logo on fixture for 2 seconds. The fixture will flash 3 times, then reset to 100% brightness at default CCT.



TROUBLESHOOTING

1. Check that the line voltage at the fixture is correct. Refer to wiring diagram.
2. Is the fixture grounded properly?

CLEANING & MAINTENANCE

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

1. Lens should be washed in a solution of warm water and any mild, non-abrasive household detergent, rinsed with clean water and wiped dry.

   WARNING: Polycarbonate is affected by cleaning agents or other liquids containing partial solvents such as low molecular weight aldehydes and ethers, ketones, esters, aromatic hydrocarbons and perchlorinated hydrocarbons. In addition, chemical attack ranging from partial to complete destruction of polycarbonate occurs in contact with alkalines, alkali salts, amines and high zone concentrations. Please go to rablighting.com for a detailed list of damaging chemicals.
2. Do not open the fixture to clean the LED. Do not touch the LED.

INSTRUCTIONS
WHALE™ 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

BATTERY BACKUP MODELS

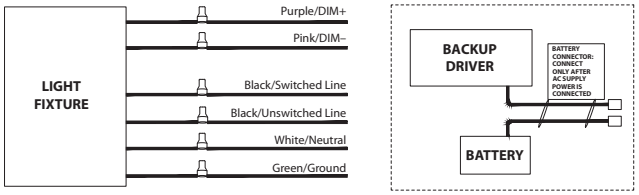
WIRING

CAUTION: FOR BATTERY BACKUP FIXTURE. Voltage could 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. 11)*.

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 control.
4. Connect the **NEUTRAL** fixture lead to the **NEUTRAL** supply line.
5. For 0-10V dimming, connect **DIM** (+) purple lead and **DIM** (-) pink lead to 0-10V dimmer connections.
6. Connect **GROUND** lead from the fixture to the supply ground. Do not connect **GROUND** to the output leads.
7. All unused leads must be capped and insulated.
8. After installation is complete, supply AC power to the fixture and connect the **BATTERY** *(Fig. 11)*.
9. When power is on, the fixture should be on and the **Charging Indicator Light** should illuminate to indicate the battery is charging.
10. Once the **BATTERY** has charged for at least one hour, a short duration test may be performed by pressing the test button *(Fig. 12)*.
11. After the battery has charged for 24 hours, a long duration test can be performed by shutting power to the fixture.

Fig: 11



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.
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:

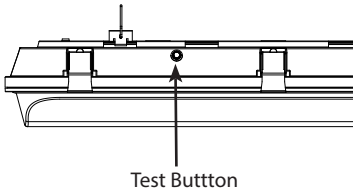
1. Visually inspect the charging indicator light monthly. It should be illuminated.
2. Test the emergency operation of the fixture at 30-day intervals for a minimum of 30 seconds.
3. Conduct a 90-minute discharge test once a year. Fixture would operate at reduced illumination for a minimum of 90 minutes.

TROUBLESHOOTING

1. Is the fixture grounded properly?
2. If the charging indicator light does not illuminate after pressing the **Test Button** *(Fig. 12)*, 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.*

Fig: 12



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.*