

INSTRUCTIONS

BULKHEAD™ ROUND WALL SCONCE 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. ****



BULKH 10/15/20W



BULKH 40W

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.

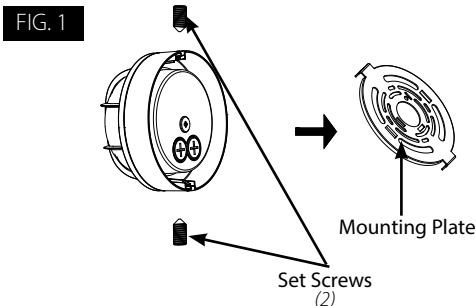
CAUTION: For proper weatherproof function all gaskets must be seated properly and all screws inserted and tightened firmly. Apply weatherproof silicone sealant around the edge of the ceiling or wall mounting box and/or junction box. This is especially important with an uneven surface.

Suitable for Wet locations. Suitable for operation in ambient not exceeding 45° C.

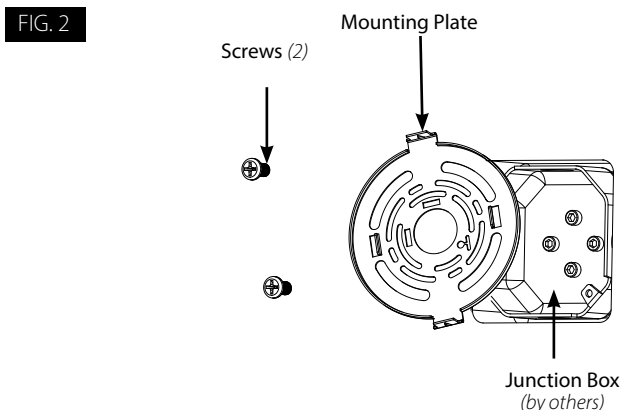
Do not switch under load.

FIXTURE MOUNTING (BULKH 10, 15, 20W)

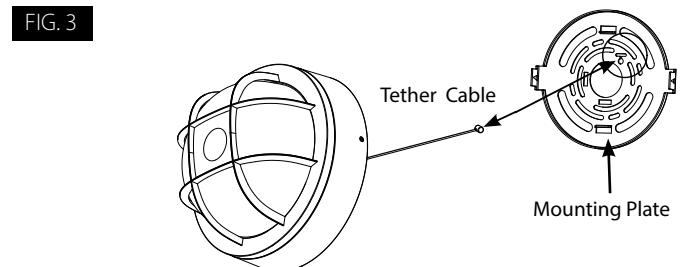
1. Use an Allen wrench to remove (2) **Set Screws** and the **Mounting Plate** from the fixture as shown in Fig. 1.



2. Install **Mounting Plate** with (2) **Screws** to Junction Box (by others) as shown in Fig. 2.



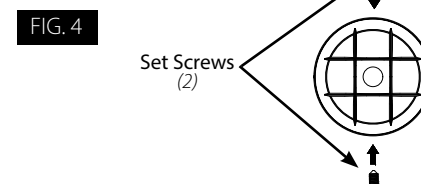
3. Secure fixture **Tether Cable** to the **Mounting Plate** (Fig. 3) for hands free wiring.



4. Connect the fixture wires to the supply wires making sure to use correct UL-certified wire connectors as required by NEC to complete electrical splices and connections (Fig. 6).

5. Make Field Adjustment selections at this time (Fig. 5).

6. Re-attach fixture to **Mounting Plate** using (2) **Set Screws** (Fig. 4).



7. Apply weatherproof silicone sealant around the edge of the ceiling or wall mounting box and/or junction box. This is especially important with an uneven surface.

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FIELD ADJUSTMENT

- Field-Adjustment, follow instructions below to change Photocell ON/OFF function, Color Temperature (CCT) and/or Power (W) from factory settings.

Photocell Operation:

This product is equipped with a photocell. Should you wish to disable this feature, slide the switch to the "Off" position. **Allow approximately 15-30 seconds for light to turn on/off when photocell is in "ON" position.**

Color Temperature (CCT) Selection:

3000, 4000 and 5000K CCT color temperature selection. For maximum light output use the 4000K Color Temperature.

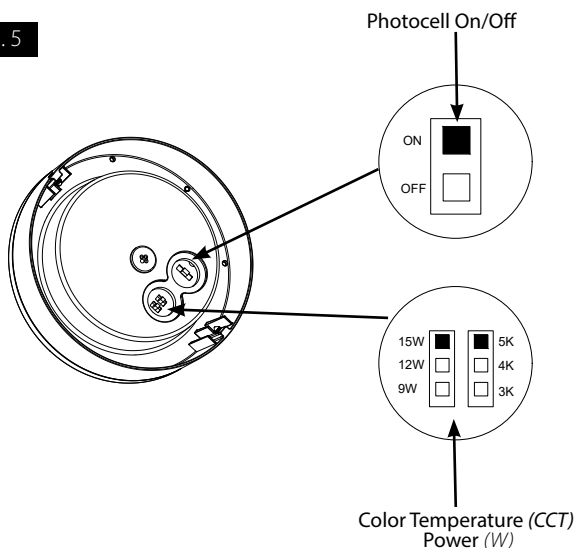
Power (Wattage) Selection:

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

BULKH10 (10/8/6W)
BULKH15 (15/12/9W)
BULKH20 (20/16/12W)

- Locate Field-Adjustable selector switches on back of Housing as shown in Fig. 5 and open cover.
- Select **Color Temperature (CCT)**, **Power (W)** and/or **Photocell on/off** function to the desired setting.
- Replace switch cover.

FIG. 5



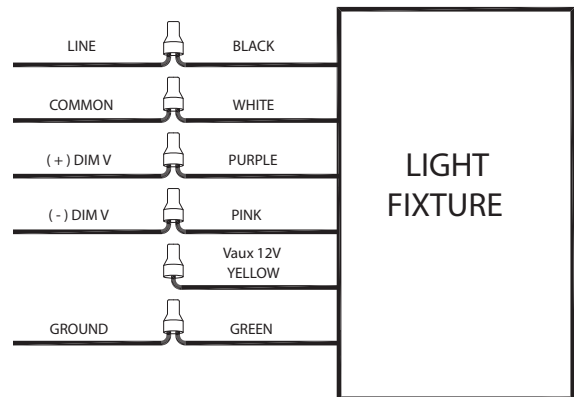
0-10V DIMMABLE WIRING

BULKH 10W, BULKH 15W are NOT dimmable (no dimming wires).

- Universal voltage driver permits operation at 120V through 277V, 50 or 60 Hz. For 0-10V dimming see wiring diagram as shown in Fig. 6.
- Connect the **Black** fixture lead to the **LINE** supply lead.
- Connect the **White** fixture lead to the **COMMON** supply lead.
- Connect the **Green GROUND** fixture lead to Ground supply lead.
- Connect the **Purple** fixture lead to the **(V+) DIM** lead.
- Connect the **Pink** fixture lead to the **(V-) DIM** lead.
- Cap the **Yellow** lead (*Vaux 12V*) if present and unused.

NOTE: Use UL-certified wire connectors per code and avoid pinching wires or routing them against sharp edges.

FIG. 6



CLEANING & MAINTENANCE

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

- Clean Lens and Fixture with non-abrasive cleaning solution.
- Do not open the fixture to clean the LED. Do not touch the LED.

TROUBLESHOOTING

- Check that the line voltage at the fixture is correct. Refer to wiring directions.
- 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.

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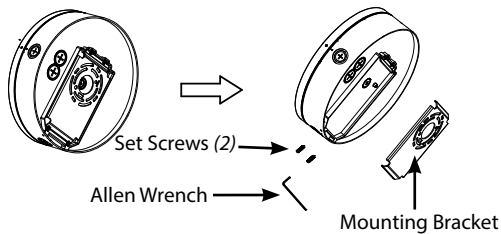
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FIXTURE BRACKET MOUNTING (BULKH 40W)

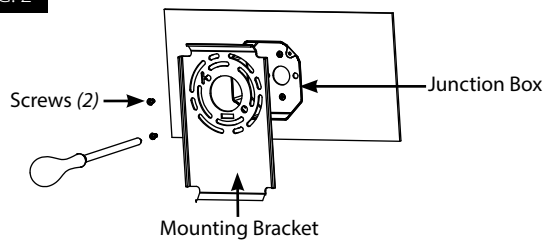
1. Use an Allen wrench to remove (2) **Set Screws** and **Mounting Bracket** as shown in Fig. 1.

FIG. 1



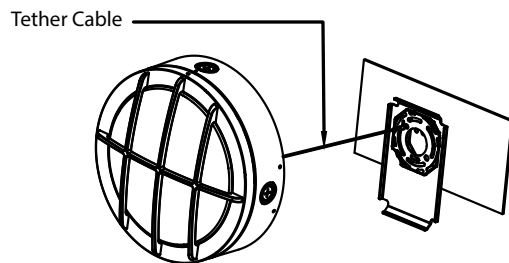
2. Install **Mounting Bracket** with (2) **Screws** to Junction Box (*by others*) as shown in Fig. 2.

FIG. 2



3. Secure fixture **Tether Cable** to the **Mounting Bracket** (Fig. 3) for hands free wiring.

FIG. 3



4. Connect the fixture wires to the supply wires making sure to use correct UL-certified wire connectors as required by NEC to complete electrical splices and connections (Fig. 6).

5. Place fixture onto the **Mounting Bracket** and secure with (2) **Set Screws** using an Allen wrench as shown in Fig. 4, 5.

FIG. 4

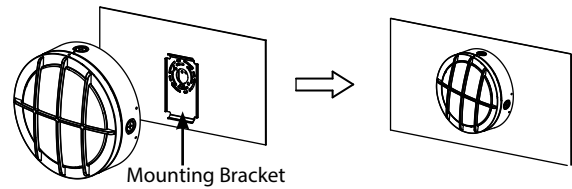
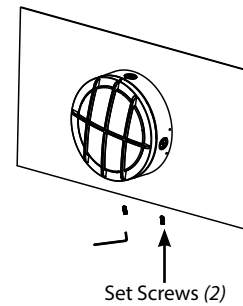


FIG. 5



INSTRUCTIONS

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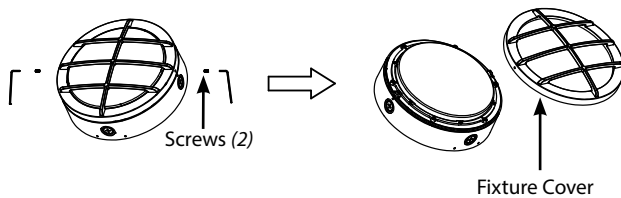
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SURFACE MOUNTING W/ CONDUIT (BULKH 140W)

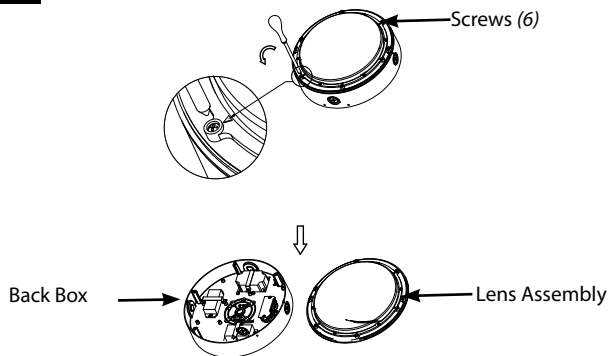
1. Using an Allen wrench remove (2) **Set Screws** on left and right side of fixture and remove **Fixture Cover** (Fig. 1).

FIG. 1



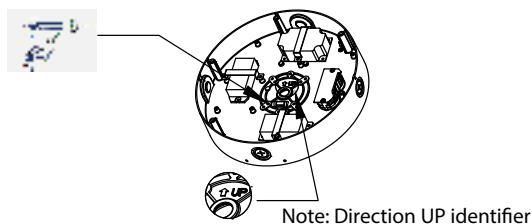
2. Using a screwdriver remove (6) **Screws** as shown in Fig. 2 and remove **Lens Assembly**.

FIG. 2



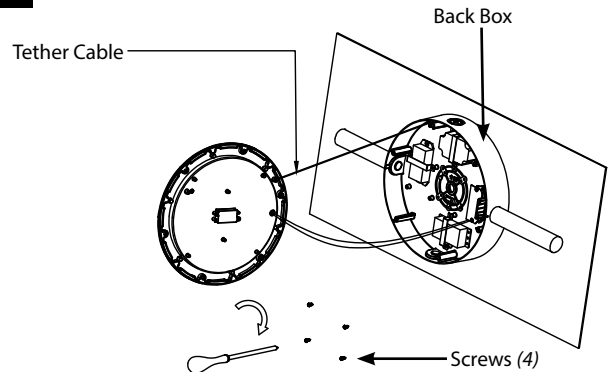
3. Use an electric drill to make installation holes on the mounting surface (Fig. 3).

FIG. 3



4. Make **Field-Adjustments**, see Fig. X and secure fixture **Back Box** with (4) **Screws** to the Junction Box as show in Fig. 4.

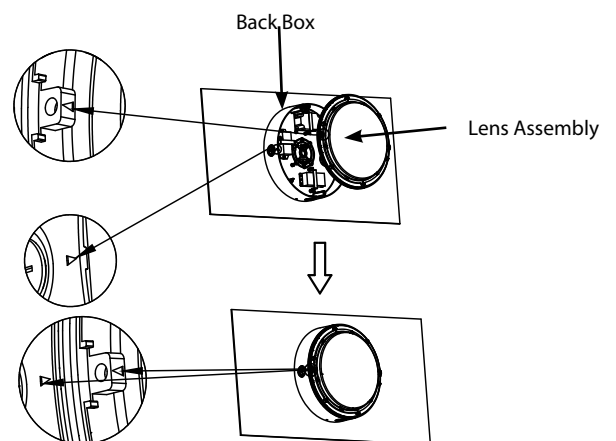
FIG. 4



5. Connect the fixture wires to the supply wires making sure to use correct UL-certified wire connectors as required by NEC to complete electrical splices and connections (Fig. 6).

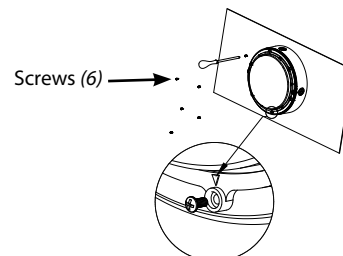
6. Align arrows on the **Lens Assembly** and **Back Box** as shown in Fig. 5.

FIG. 5



7. Tighten (6) **Screws** as shown in Fig. 6 to re-install **Lens Assembly**. Choose optional **Guard Accessory** (ordered separately) see Fig. 7.

FIG. 6



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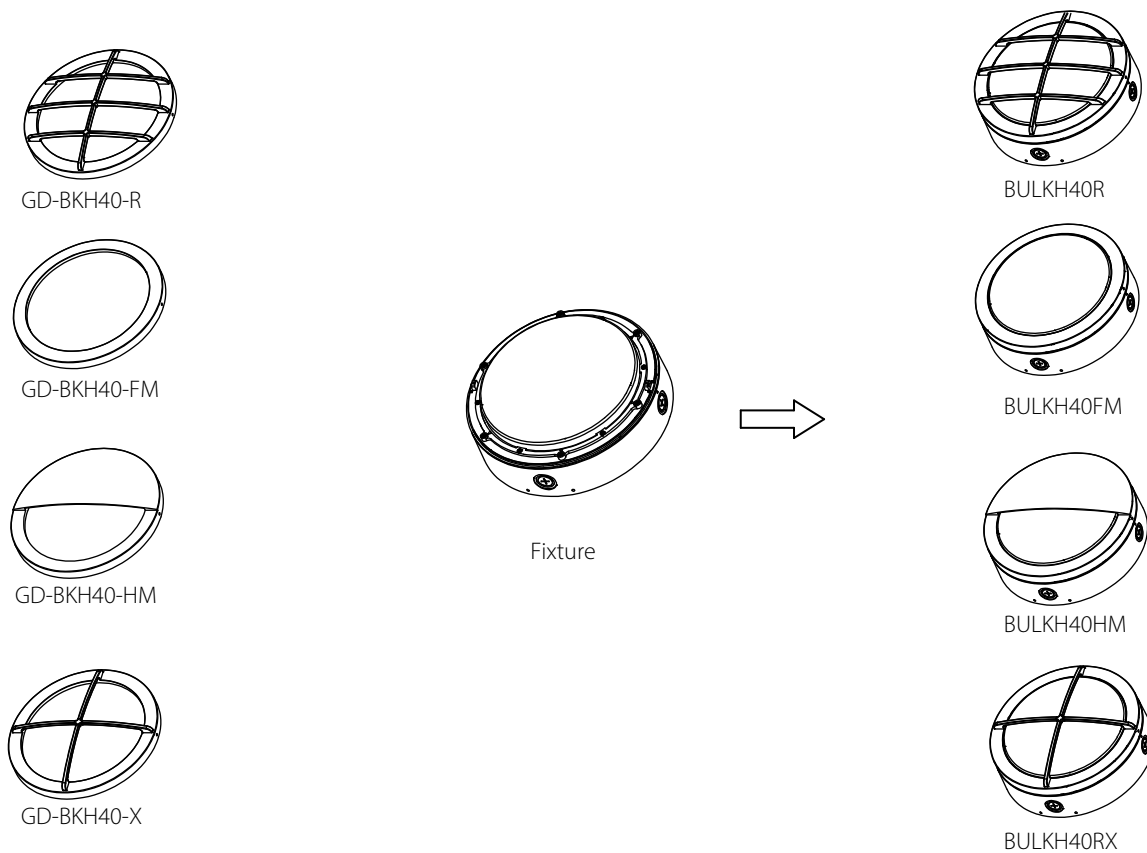
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GUARD ACCESSORIES (BULKH 140W, ORDERED SEPARATELY)

GD-BKH40-X	Round Cross Guard Bronze
GD-BKH40-HM	Round Half Moon Guard Bronze
GD-BKH40-FM	Round Full Moon Guard Bronze
GD-BKH40-XW	Round Cross Guard White
GD-BKH40-HMW	Round Half Moon Guard White
GD-BKH40-FMW	Round Full Moon Guard White

FIG. 7



GUARD ACCESSORY INSTALLATION (BULKH 140W, ORDERED SEPARATELY)

1. Remove (2) **Set Screws** on left and right side of Fixture, remove existing **Guard**.
2. Choose selected **Guard Accessory** and install with (2) **Set Screws** (Fig. 9).

FIG. 8

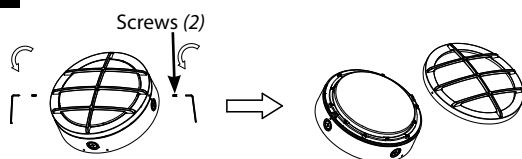
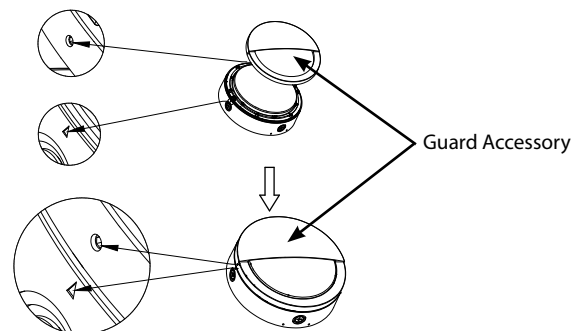


FIG. 9



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FIELD ADJUSTMENT *(BULKH40)*

3. Field-Adjustment, Follow instructions below to change Photocell ON/OFF function, Color Temperature (CCT) and/or Power (W) from factory settings.

Photocell Operation:

This product is equipped with a photocell. Should you wish to disable this feature, slide the switch to the "Off" position. **Allow 15 seconds for light to turn on/off when photocell is in "ON" position.**

Color Temperature (CCT) Selection:

3000, 4000 and 5000K CCT color temperature selection. For maximum light output use the 5000K Color Temperature.

Power (Wattage) Selection:

This product is equipped with Power (W) output selection. BULKH40R (40/32/24W)

Factory Settings: 40W / 5000K / Photocell On

1. Locate the Field-Adjustment selector switches on back of housing as shown in Fig. 10.
2. Select **Color Temperature (CCT)**, **Power (W)** and/or **Photocell On/Off** function to the desired setting.
3. Replace switch cover.

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

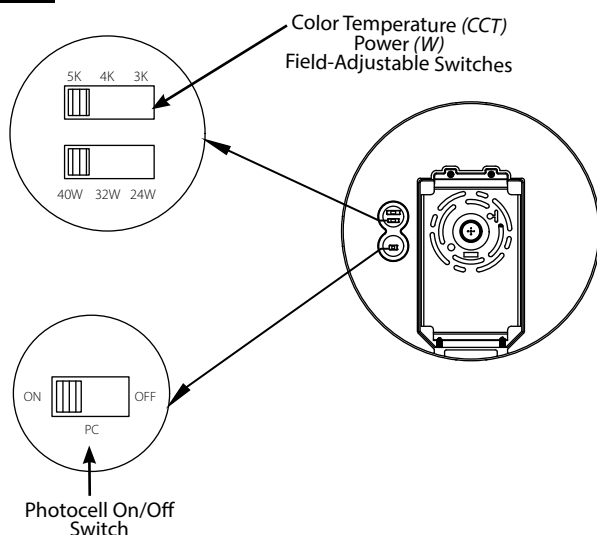
WARNING: Do not open fixture or touch the LED.

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.

FIG. 10



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BATTERY BACKUP MODELS

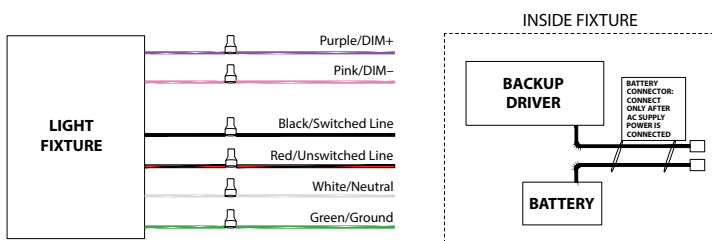
WIRING

Note: An unswitched AC source of power is required. The emergency driver must be fed from the same branch circuit as the LED driver — see wiring diagram (Fig. 11).

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. After installation is complete, supply AC power to the fixture and connect the **BATTERY**.
4. When power is on, the fixture should be on and the **CHARGING INDICATOR LIGHT** should illuminate to indicate the battery is charging.
5. Once the **BATTERY** has charged for at least one hour, a short duration test may be performed by pressing the **Test Button** as shown in Fig. 12. After the battery has charged for 24 hours, a long duration test can be performed by disconnecting 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 emergency driver 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

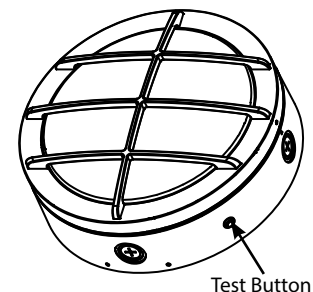
Although no routine maintenance is required to keep the emergency driver functional, it should be checked periodically to ensure that it is working. The following schedule is recommended:

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. Be sure the fixture is grounded properly.
2. If the charging indicator light does not illuminate after pressing the **Test Button** (Fig. 12), check if battery is connected properly. Check AC power.
3. **Test Button:**
 - RED Indicator Light - **On:** Power is on and battery is charging
 - RED Indicator Light - **Off:** Power is off or test button being pressed (*battery is discharging*).

FIG. 12



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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