

INSTALLATION INSTRUCTIONS for Lithonia Lighting AFO models

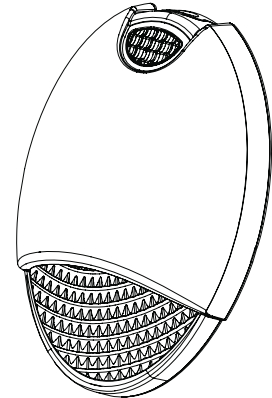
LED Wet Location Indoor/Outdoor Normally-On/Off Emergency Unit

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

WARNING: RISK OF ELECTRIC SHOCK-NEVER CONNECT TO, DISCONNECT FROM, OR SERVICE WHILE EQUIPMENT IS ENERGIZED.

WARNING: FAILURE TO FOLLOW THESE INSTRUCTIONS AND WARNINGS MAY RESULT IN DEATH, SERIOUS INJURY OR SIGNIFICANT PROPERTY DAMAGE - For your protection, read and follow these warnings and instructions carefully before installing or maintaining this equipment. These instructions do not attempt to cover all installation and maintenance situations. If you do not understand these instructions or additional information is required, contact Lithonia Lighting or your local Lithonia Lighting distributor.

- All service shall be performed by qualified service personnel. This product must be installed and maintained in accordance with the applicable installation codes by a person familiar with the construction operation of the product and the hazards involved.
- This product must be installed in accordance with the applicable installation codes and ordinances.
- Before wiring to power supply, turn off electricity at fuse or circuit breaker.
- Disconnect A. C. power and unplug battery before servicing.
- Consult your local building code for approved wiring and installation.
- UL listed for wet locations (Standard: 0°C - 50°C or Cold Weather -30°C - 50°C).
- Do not let power supply cord touch hot surfaces.
- Do not mount near gas or electric heater.
- Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Do not use this equipment for other than intended use.
- The AC voltage rating of this equipment is specified on the product label. Do not connect equipment to any other voltage.



NOTE: Max mounting height is 30ft to achieve at least 1 ft-candle of luminance in emergency mode.

NOTE: This unit should be mounted ONLY through a pair of the preformed keyholes onto a junction box, (junction box not included), with #8-32 x 0.875" screws (provided) or using conduit entry.

CONDUIT ENTRY MOUNT

1. Separate the **FRONT COVER (F)** from the **BACK PLATE (A)** with a flat blade screwdriver by inserting screwdriver into slots (top and sides), and gently twist (see Figure 1).
2. Using a flat blade screwdriver, unscrew the **PIPE PLUG (B)** from the top of the **BACK PLATE (A)** (see Figure 3).
3. Drill out the two **ADDITIONAL MOUNTING HOLES (C)** (see Figure 3)
4. Feed conduit into **CONDUIT ENTRY HOLE (D)** opening (see Figure 2).

NOTE: When installing in an outdoor application; prior to installation, wrap the conduit threads at least 5 times with Teflon tape (not provided) to create a water-tight seal.

5. Secure **BACK PLATE (A)** to wall using **ADDITIONAL MOUNTING HOLES (C)** with appropriate hardware (not provided).
6. Make the proper supply lead connections. See **ELECTRICAL CONNECTIONS** section for proper instructions. Cap off unused hot leads.
7. Connect **TRANSFORMER POWER CONNECTOR (E)** to PCBA (not shown).
8. Make **BATTERY** (not shown) connection.
9. Attach **FRONT COVER (F)** to **BACK PLATE (A)** ensuring there are no gaps.
10. Apply continuous AC power and manually initiate a self-test (see **MANUAL TESTING** section).

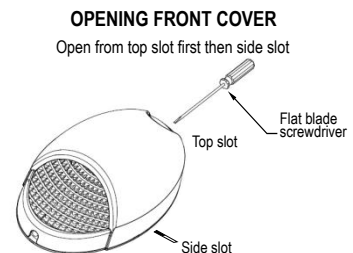


Figure 1

NOTICE-Use flat blade screwdriver to open. Insert screwdriver in the slot (one on the top, two on the sides) and gently pry off the cover.

INSTALLATION INSTRUCTIONS

JUNCTION BOX MOUNT

1. Separate the **BACK PLATE (A)** with a flat blade screwdriver by inserting screwdriver into slots (top and sides), and gently twist (see Figure 1).
2. Remove knockout hole in the center of the **BACK PLATE (A)**. Remove preformed keyholes on the **BACK PLATE (A)** that correspond to the size of the junction box.
3. Remove backing from self-adhesive **JUNCTION BOX GASKET** (not shown) and adhere to the **BACK PLATE (A)**.
4. Feed AC supply leads through the center hole of the **BACK PLATE (A)** (see Figure 3). See **ELECTRICAL CONNECTIONS** section for proper instructions. Cap off unused hot leads.
5. Secure **BACK PLATE (A)** to junction box (not provided) using provided **#8-32 x 0.875" screws (G)** (see Figure 3).
6. Connect **TRANSFORMER POWER CONNECTOR (E)** to PCBA (not shown).
7. Make **BATTERY** (not shown) connection.
8. Attach **FRONT COVER (F)** to **BACK PLATE (A)** ensuring there are no gaps.
9. Apply continuous AC power and manually initiate a self-test (see **MANUAL TESTING** section).

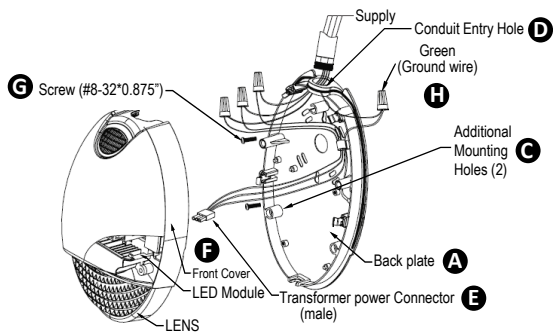


Figure 2

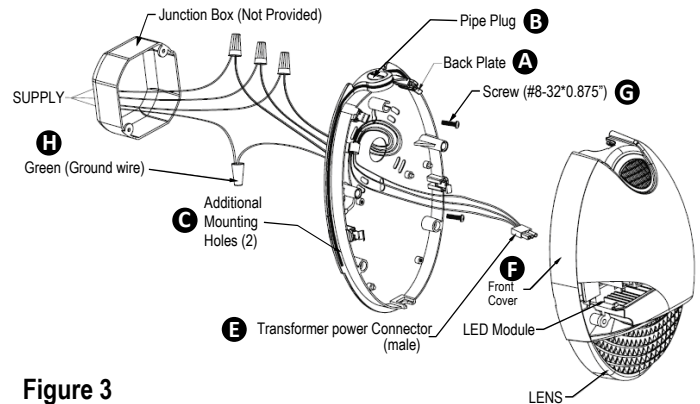


Figure 3

BACK PLATE (A)

ELECTRICAL CONNECTIONS

1. Verify the power is off before installation.
2. Connect green **GROUND (H)** lead to suitable ground, (see Figures 2 and 3).
3. Connect fixture neutral (white) lead to supply neutral (white) lead.
4. Connect hot lead (orange) to supply hot lead (120VAC through 277VAC).
5. Connect switch (red) wire for operating fixture:
 - a. Photo Sensor (factory wired/ships standard) – Cap off the red wire. The photo sensor will be connected directly to the board (see Figure 4). Unit will illuminate from dusk to dawn and in emergency mode.
 - b. Normally off – Do not connect red wire, cap off. Unit will illuminate in emergency mode only (see Figure 5).
 - c. Normally on – Connect red wire to orange wire. Unit will illuminate in AC mode and in emergency mode (see Figure 6).
 - d. Switched – Connect red wire to switch leg of the device that will be controlling the unit. Unit can be switched on and off. Unit will illuminate in emergency mode no matter what the position the switch device is in (See Figure 7).

NOTE: Photocell bypass jumper (provided), must be used in place of Photo Sensor for b, c and d electrical connections.

SAVE THESE INSTRUCTIONS

INSTALLATION INSTRUCTIONS

Wiring Diagrams

Photo Sensor (a)

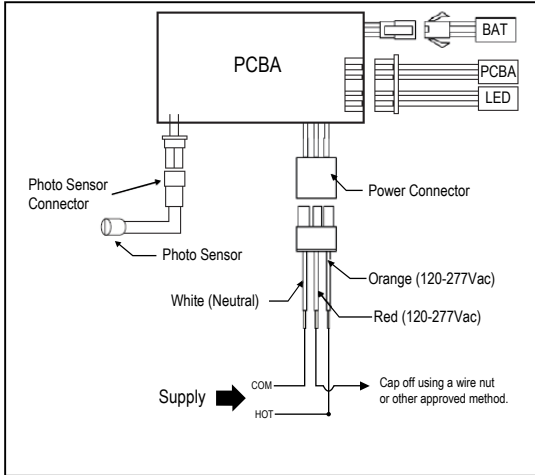


Figure 4: (Factory wired/ships standard)

Normally Off (b)

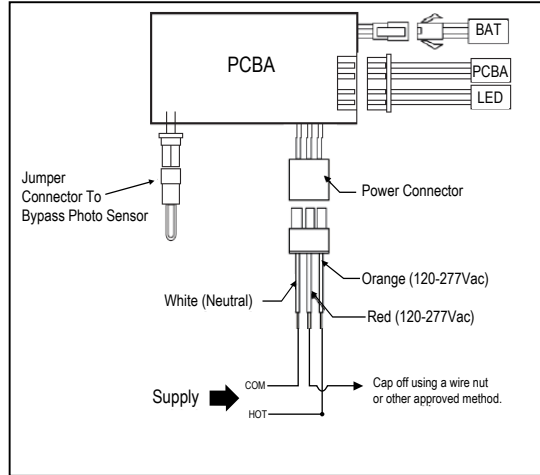


Figure 5

Normally On (c)

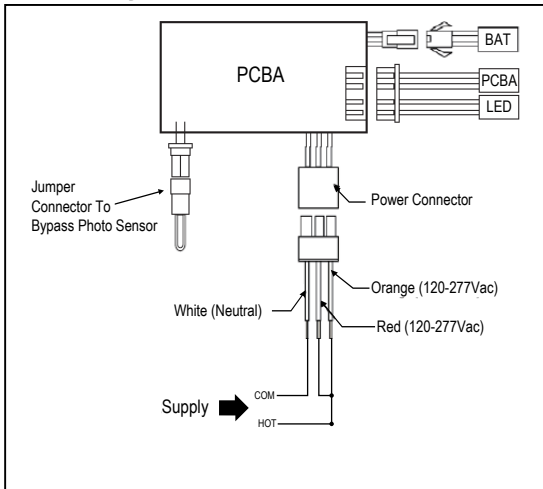


Figure 6

Switched (d)

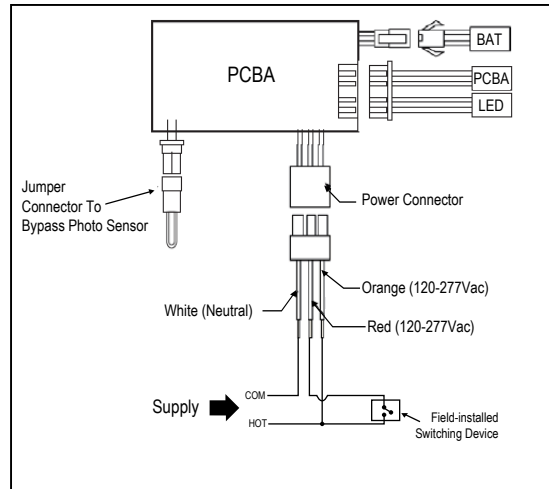


Figure 7

INSTALLATION INSTRUCTIONS

Self-Diagnostic/Self-Test Operation

INTRODUCTION

Once the unit is properly installed according to the installation instruction sheet and AC power supplied, the dual-color LED indicator will come on and the self-diagnostic test function will automatically initiate. The LED points out the current unit status. A STEADY GREEN on the LED indicator indicates normal service; BLINKING GREEN indicates the unit is in testing mode; GREEN/RED FLASHING indicates that the battery is charging; RED (STEADY) and (BLINKING) would indicate a fault or service alert. Refer to Service Indication Section for more details. The LED indicator would be OFF when the unit is in emergency mode.

SELF-DIAGNOSTIC SERVICE

The self-diagnostic function is factory pre-set without any field adjustment. The automatic self-diagnostic feature serves the following tests.

- On-line real time monitoring of battery and LEDs: monitoring of battery, battery charger and LEDs.
- Self testing in a 30 second discharge once every 30 days (conforming to NFPA 101 current Life Safety Code requirements), after AC power has been supplied for a minimum of 24 hours.
- Self testing in a 30 minute discharge once every 180 days, after AC power has been supplied for a minimum of 24 hours.
- Self testing in a 90 minute discharge once every 365 days, (conforming to NFPA 101 current Life Safety Code requirements), after AC power has been supplied for a minimum of 24 hours.

SERVICE INDICATION

LED INDICATOR	STATUS
Steady Red	Battery Disconnected
Flashing Red	Battery Recharge Failure
Two Flash Red	Battery Failure
Four Flash Red	LED Failure

MANUAL TESTING

This unit also provides manual testing by pushing the test button in a specific pattern. The different patterns and the resulting tests are listed in the table below.

ACTION	REACTION & LED INDICATION
Push test button once (within 2 seconds).	30-second test: FLASHING GREEN.
Push test button twice (within 2 seconds).	30-minute test: FLASHING GREEN twice.
Push test button three times (within 2 seconds).	90-minute test: FLASHING GREEN three times.
Push test button and hold for 3 seconds (in test mode).	Cancels test. If self-test is cancelled it is recommended that a manual test of the same duration be performed at a more convenient time to ensure compliance.
Push test button and hold for 6 seconds (in test mode)	System reset

OPERATION

During an electrical power failure, the LEDs will transfer into emergency mode and stay illuminated for a minimum of 90-minutes. To test this unit, the battery needs to be charged initially for 24 hours (to do manual test). In the test mode, the LEDs will transfer into a simulated emergency mode with the LED indicator FLASHING GREEN.

WARNING:

- Make sure that power is OFF before making any electrical connections.
- Unused wires must be capped using enclosed wire nuts.

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