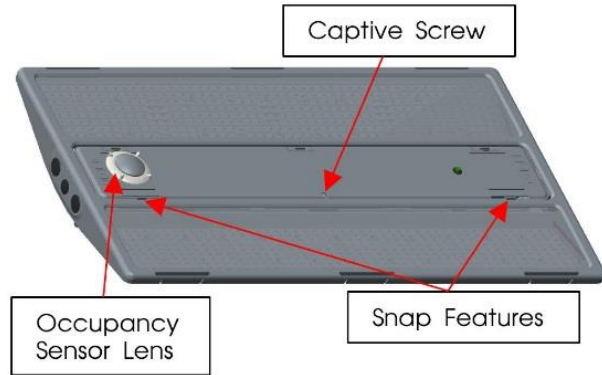




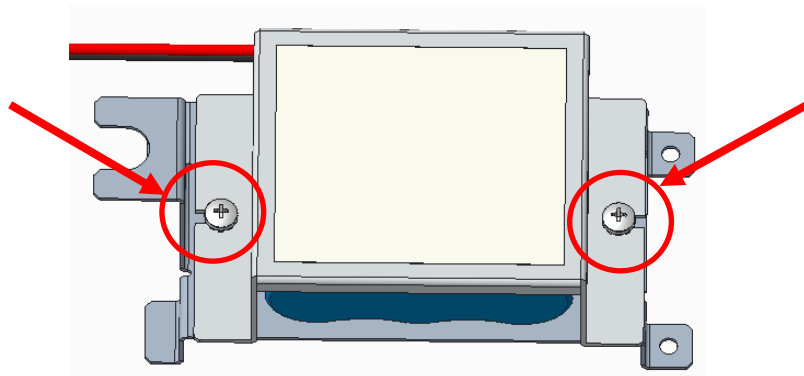
### Battery Pack Replacement

1. Open the access cover on the luminaire by loosening the captive screw. If the luminaire is equipped with a center mounted occupancy sensor, remove the sensor lens by rotating the lens ¼ turn counterclockwise. Then undo the snap features and slide the cover open.

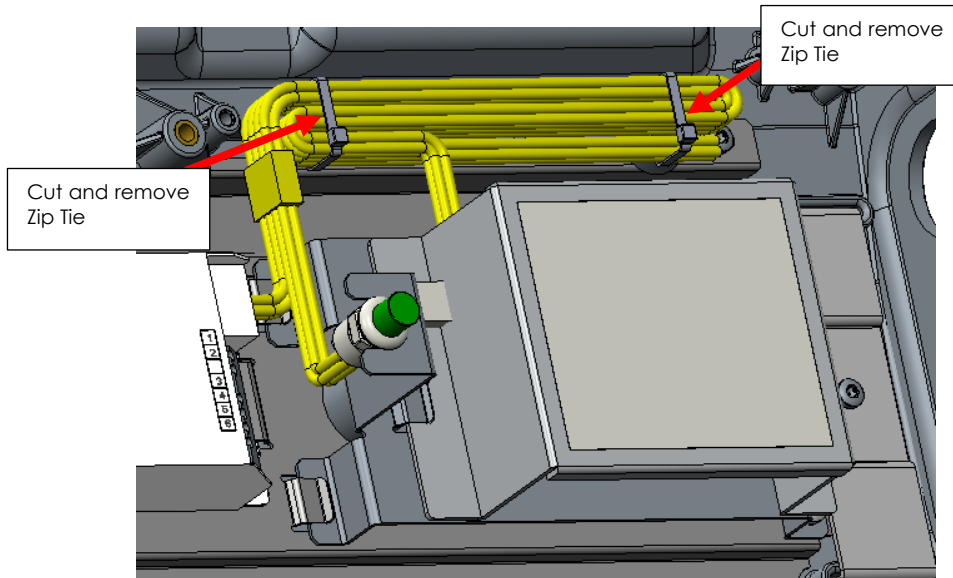
**WARNING:** To avoid fire and electrical shock, turn off power at circuit breaker or fuse and test that the power is off before wiring.



2. Remove the existing battery pack by loosening and removing the two 8-32 Philips SEMS screws holding the pack to the bracket.



3. Take note of the wire routing. Remove the zip ties and disconnect the battery pack power connector from the battery driver connector. (shown below).

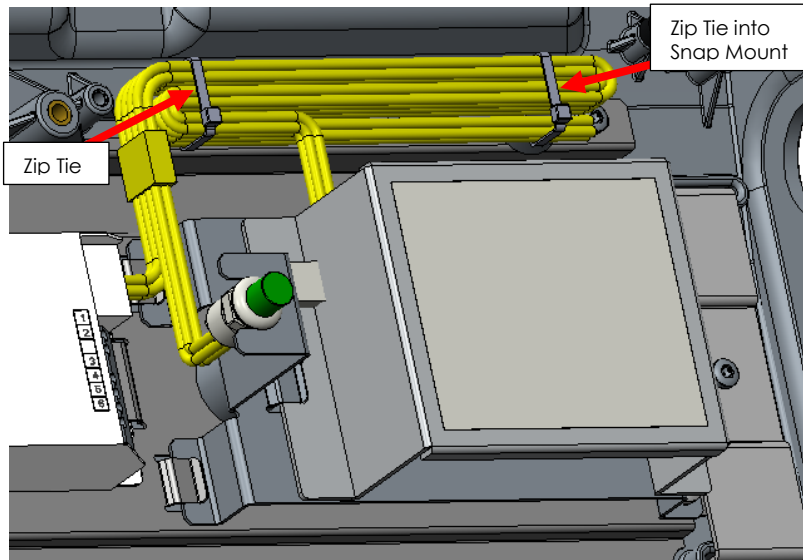


4. Remove the battery pack from the bracket and discard according to respective national regulations on waste disposal.

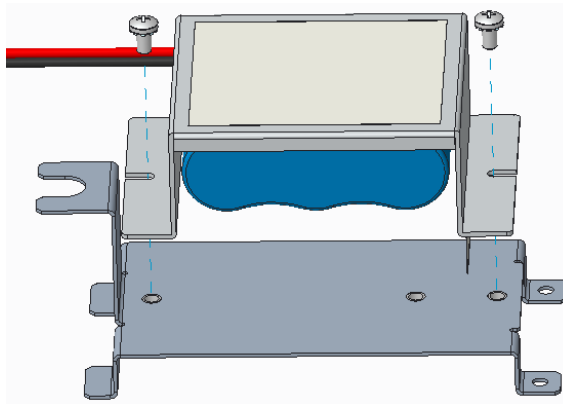


5. Connect the new battery pack power connector to the existing battery driver connector. Route wires as they were previously and secure with supplied zip ties.

**NOTE:** It is recommended to route wires prior to installing battery pack onto the bracket due to space limitations.



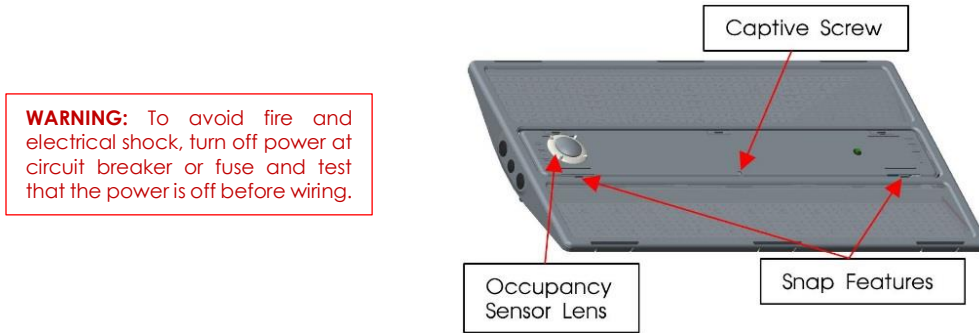
6. Install the supplied 8-32 Philips SEMS screws to hold the battery pack in place on the bracket. Torque to 14-16 in-lbs.



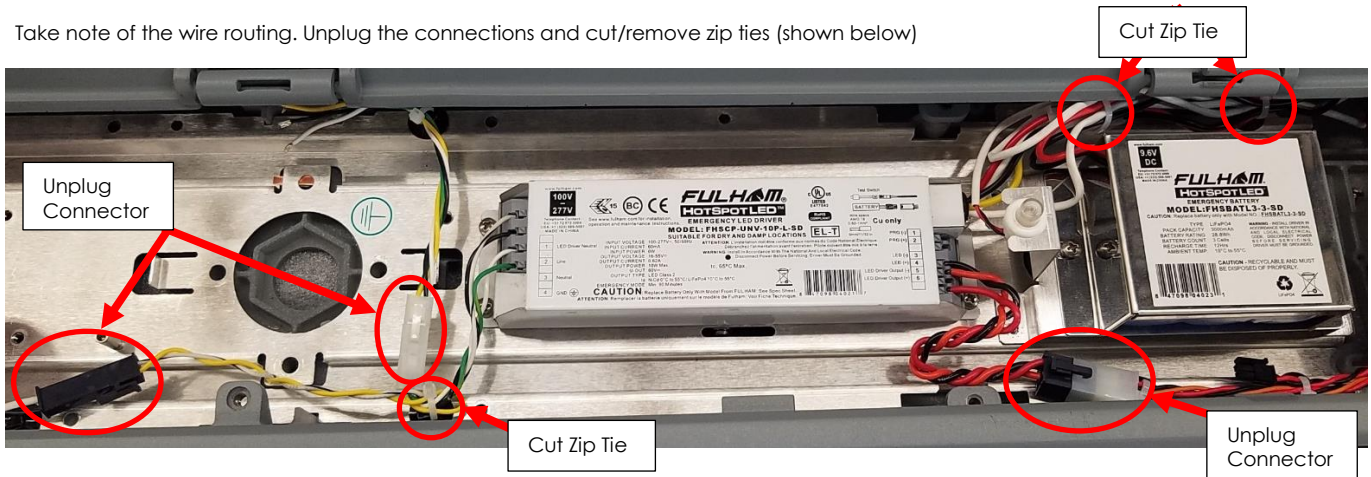
7. Tilt the access cover closed, engage the snap features, and tighten the captive screw. Torque to 14-16 in-lbs.
  - a. If the luminaire contains an occupancy sensor, replace the sensor lens by sliding it onto the sensor and then twisting ¼ turn clockwise until snug.
8. Power the luminaire on and insure proper function. Take note of the indicator light. See "Battery Backup Indicator Light Functions" table below for Indicator function.

### Battery Driver Replacement

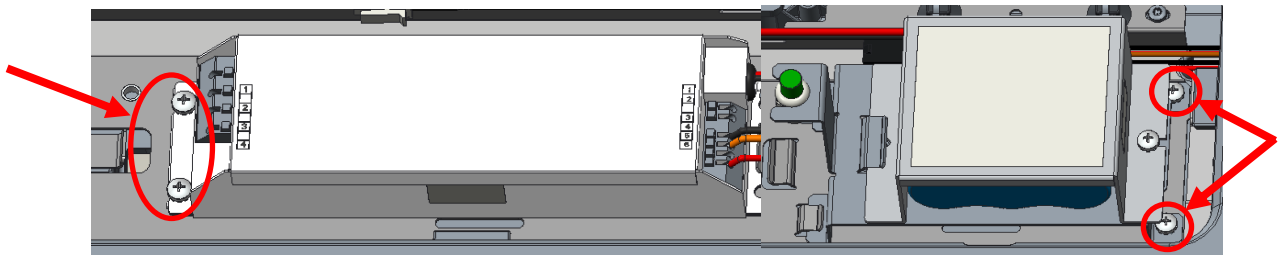
1. Open the access cover on the luminaire by loosening the captive screw. If the luminaire is equipped with a center mounted occupancy sensor, remove the sensor lens by rotating the lens ¼ turn counterclockwise. Then undo the snap features and slide the cover open.



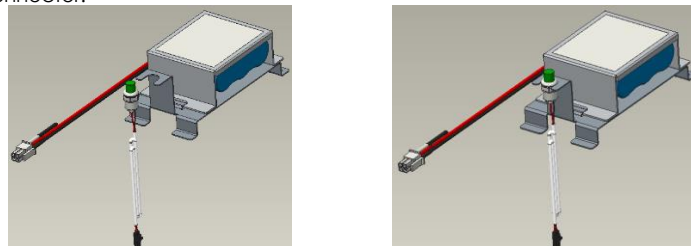
2. Take note of the wire routing. Unplug the connections and cut/remove zip ties (shown below)



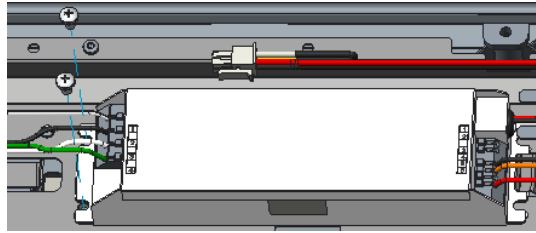
3. Remove the existing battery driver and battery pack assembly by loosening and removing the 8-32 Phillips SEMS screw holding the driver and pack to the luminaire. Slide the battery driver and battery pack assembly out of the mounting tabs and remove from the luminaire.



4. Disconnect the battery pack power connector from the battery driver connector. Remove the battery test switch indicator from the battery pack assembly. The battery pack assembly should now be fully removed from the battery driver. Discard old battery driver according to respective national regulations on waste disposal.
5. Collect the replacement battery driver. Install the new battery test switch indicator to the battery pack assembly. Tighten to hand tight plus ¼ turn. Ensure that the 2 position test switch has been plugged into the new battery driver. Connect the 4 position battery pack power connector to the 4 position battery driver connector.

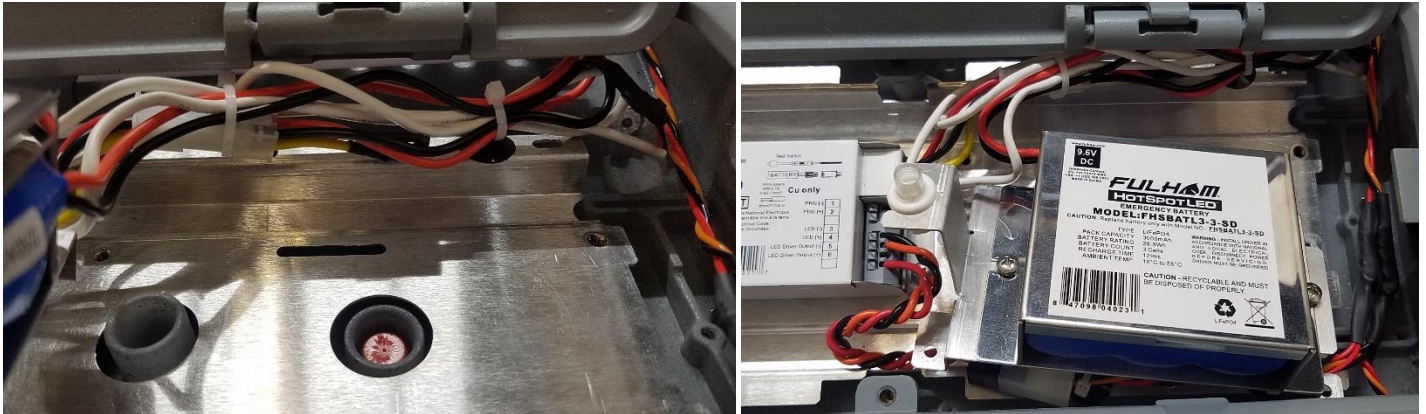


- Install the new battery driver into the luminaire by sliding fully into the mounting tabs and then installing the 2x 8-32 SEMS screws. Torque to 14-16 in-lbs.

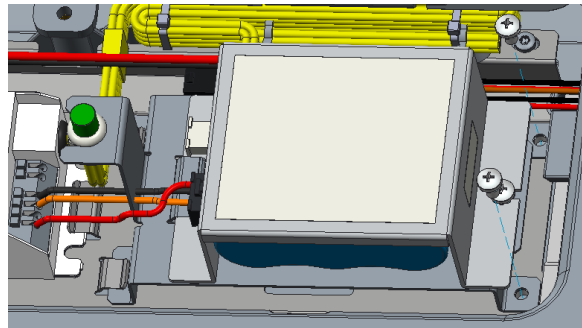


- Route wires as they were previously and secure with zip ties.

**NOTE:** It is recommended to route wires prior to re-installing the battery pack assembly.



- Re-install the battery pack assembly by sliding the bracket fully into the mounting tabs and then installing the 2x 8-32 SEMS screws. Torque to 14-16 in-lbs.



- Connect power connectors and install zip ties as shown below.

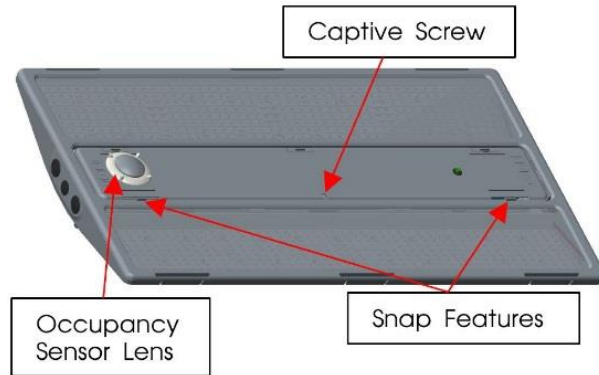


10. Tilt the access cover closed, engage the snap features, and tighten the captive screw. Torque to 14-16 in-lbs.
  - a. If the luminaire contains an occupancy sensor, replace the sensor lens by sliding it onto the sensor and then twisting ¼ turn clockwise until snug.
11. Power the luminaire on and insure proper function. Take note of the indicator light. See "Battery Backup Indicator Light Functions" table below for Indicator function

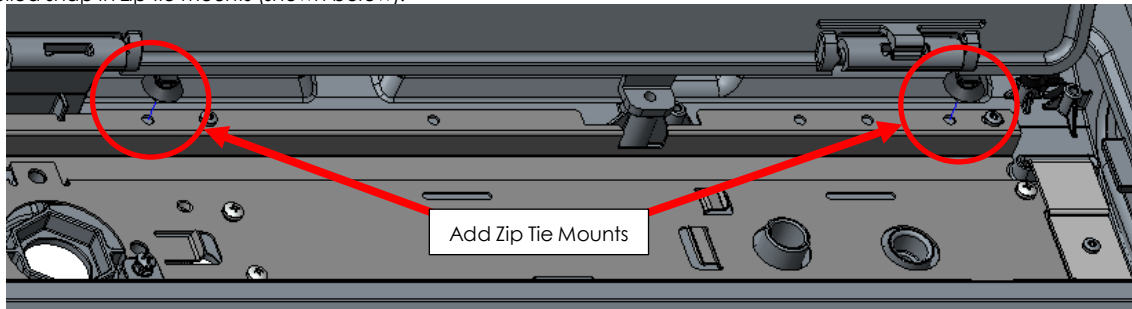
### Battery Backup Upgrade

1. Open the access cover on the luminaire by loosening the captive screw. If the luminaire is equipped with a center mounted occupancy sensor, remove the sensor lens by rotating the lens ¼ turn counterclockwise. Then undo the snap features and slide the cover open.

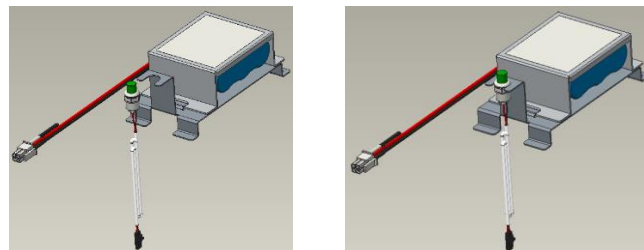
**WARNING:** To avoid fire and electrical shock, turn off power at circuit breaker or fuse and test that the power is off before wiring.



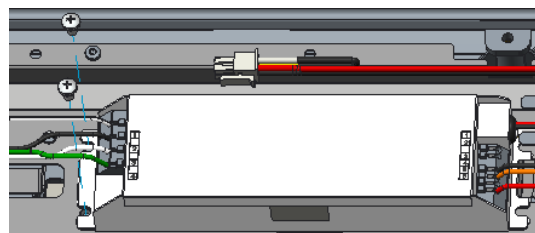
2. Install supplied snap in zip tie mounts (shown below).



3. Collect the battery driver. Install the battery test switch indicator to the battery pack assembly. Tighten to hand tight plus ¼ turn. Ensure that the 2 position test switch has been plugged into the battery driver. Connect the 4 position battery pack power connector to the 4 position battery driver connector.

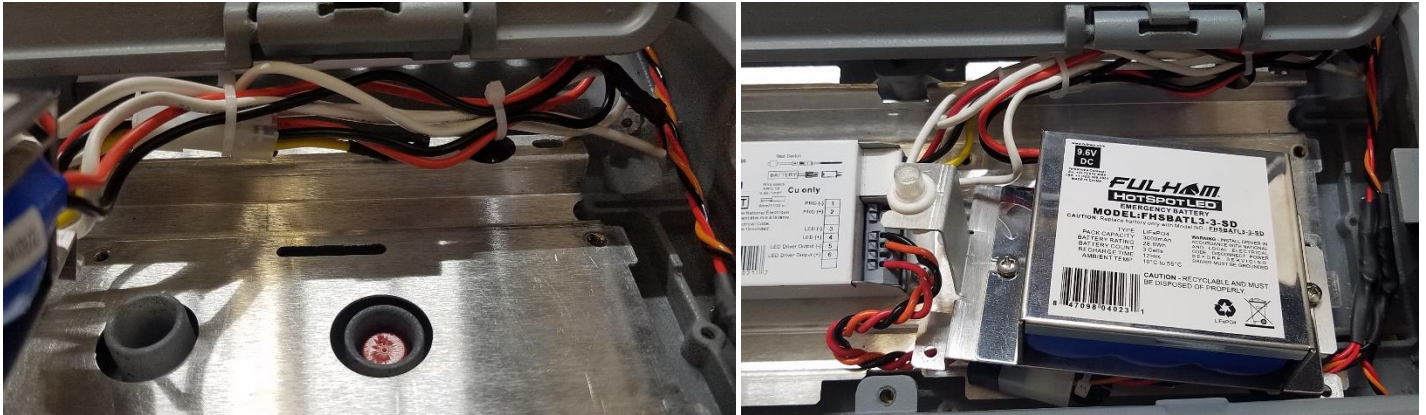


4. Install the new battery driver into the luminaire by sliding fully into the mounting tabs and then installing the 2x 8-32 SEMS screws. Torque to 14-16 in-lbs.

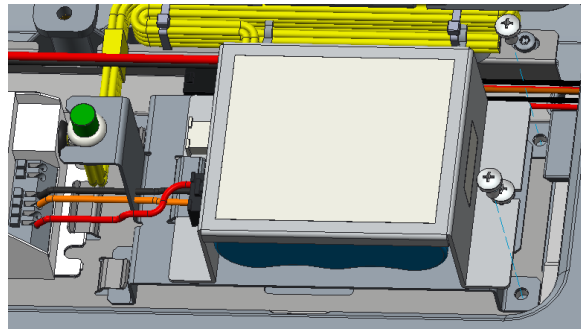


- Route wires from the back of the battery driver and front of the battery pack assembly as they are shown below and secure with zip ties.

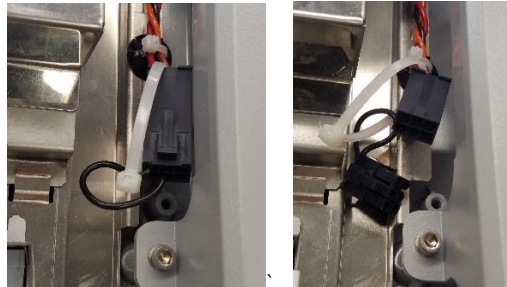
**NOTE:** It is recommended to route wires prior to installing the battery pack assembly.



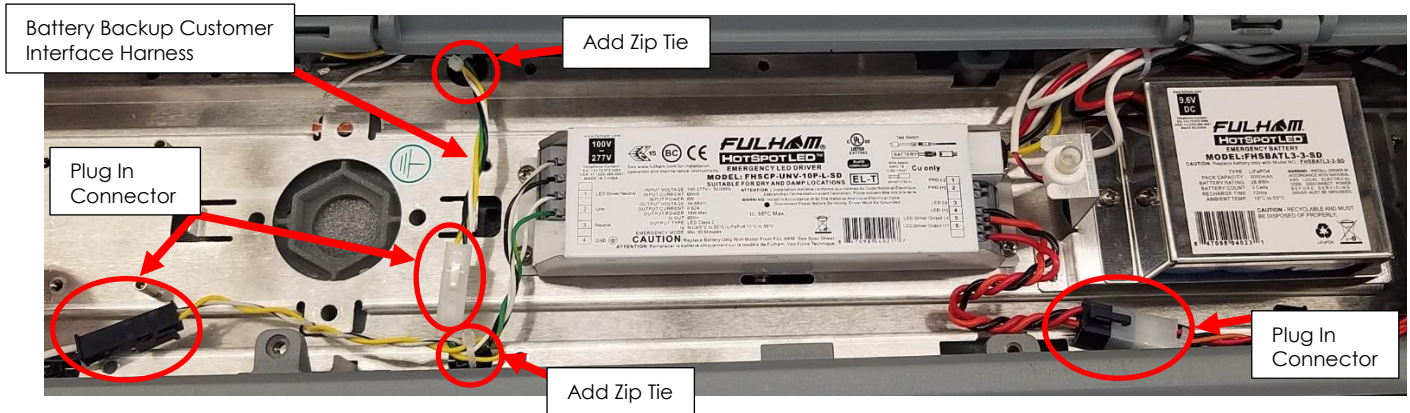
- Install the battery pack assembly by sliding the bracket fully into the mounting tabs and then installing the 2x 8-32 SEMS screws. Torque to 14-16 in-lbs.



- Unplug the 6 position jumper plug from the wire harness as shown below. It is recommended to leave the zip tie connected and to allow the plug to dangle freely.



- Connect power connectors and install zip ties as shown below.



9. Connect the mains supply wires to the Battery Backup Customer Interface Harness (harness shown in above image).

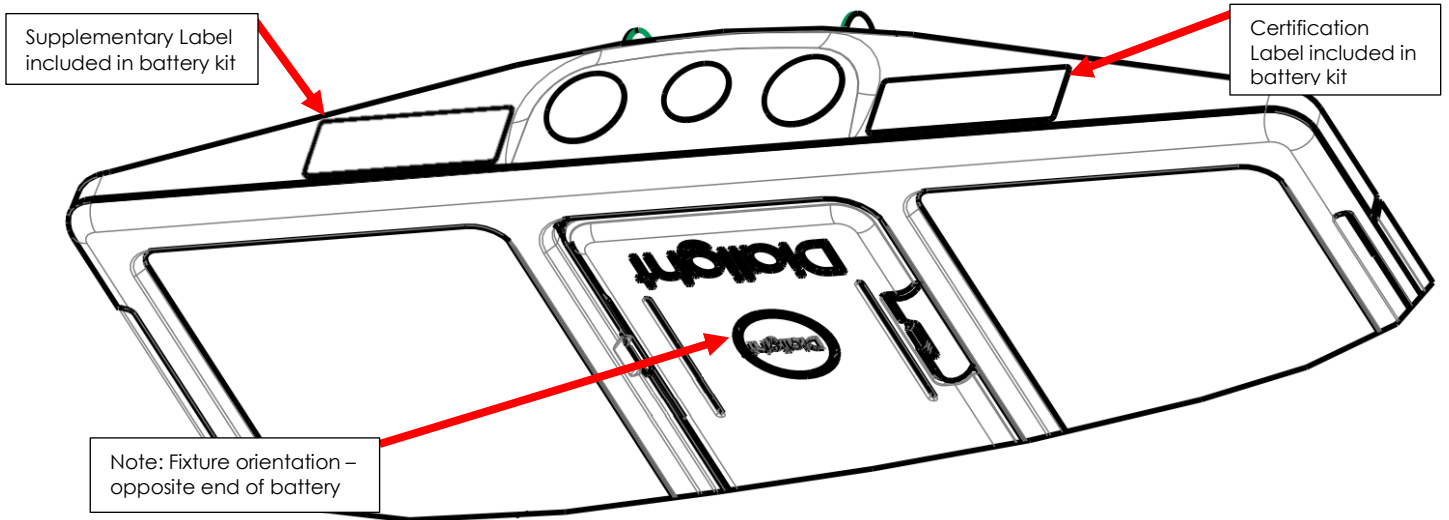
100-277 VAC BATTERY BACKUP SWITCH LIVE – NORTH AMERICA		
SYMBOL	COLOR	CONNECTION
	GREEN	EARTH
L	BLACK	PERMANENT LIVE
L'	YELLOW	SWITCH LIVE
N	WHITE	NEUTRAL
DIM +	VIOLET	DIMMING
DIM -	GREY	DIMMING

**NOTE:** For maintained battery backup, connect the black wire to the supply permanent live and the yellow wire to the supply switch live. For sustained battery backup, connect both the yellow and black wires to the supply live.

10. Remove the smaller blanking plug on the access cover to allow for the Battery Backup Test Switch. Tilt the access cover closed, engage the snap features, and tighten the captive screw. Torque to 14-16 in-lbs.

a. If the luminaire contains an occupancy sensor, replace the sensor lens by sliding it onto the sensor and then twisting ¼ turn clockwise until snug.

11. After closing the luminaire, attach label to the outside of the fixture (label location shown below). Ensure surface is clean and free of all debris.



12. Power the luminaire on and insure proper function. Take note of the indicator light. See “Battery Backup Indicator Light Functions” table below for Indicator function.

## Battery Backup Function

Battery Backup systems are offered in 800 lumen and 1500 lumen options. Actual lumen outputs may vary depending on application options. Additional manufacturer operation instructions are located at the link below.

### Battery Backup Indicator Light Functions

LED Indicator Status	EM Driver Status/Mode
Solid Green	System OK/AC OK
Slow Flashing Red 4s on / 1s off	Battery not detected, check connections
Flashing Red 1s on / 1s off	Battery Failure Replace Battery
Flashing Green 2s on / 2s off	Self-Diagnostic Test Underway
Fast Flashing Red 0.1s on / 0.1s off	Abnormal Driver Perf Replace Driver
None. Both LED's off	Normal working in EM Mode
Very Slow Flashing Red 1s on / 7s off	OTM* or other internal protections triggered

\*OTM=Over Temp Protection; ensures max temperature ratings are not exceeded.



<https://cdn.fulham.com/PDFs/SpecSheets/FHSCP-UNV-10P-L-SD-2017-689-INSTALLATION.pdf>

### Official Statement

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