

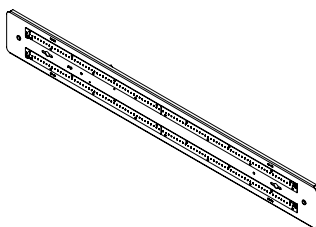
! CAUTION

- All wiring should be done by a licensed electrician in accordance with state codes, local codes and National Electric Code (NEC) standards.
- Improper installation may result in serious injury and void warranty.
- Contains parts and assemblies susceptible to damage by electrostatic discharge (ESD).
- 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.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.
- Do not alter the exterior housing or lens cover.
- **CAUTION:** Risk of fire. Consult a qualified electrician to ensure correct branch circuit conductor.
- **WARNING:** Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.
- **WARNING:** Risk of fire or electric shock. Install this kit only in luminaires that have the construction features and dimensions shown in the photographs and/or drawings and where the input rating of the retrofit kit does not exceed the input rating of the luminaire.
- **WARNING:** To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.

Tools and Materials

Phoenix Provided

- (1) LED retrofit tray with driver (2 foot or 4 foot)
- (2) 1 $\frac{1}{2}$ nut
- (2) Replacement lanyards



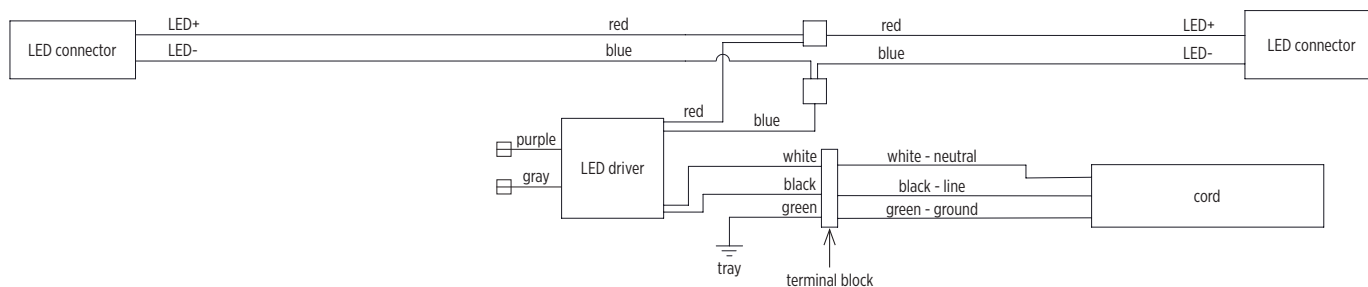
Wiring

The standard fixture contains a factory-installed terminal block, which accepts up to 12 AWG wire.

For AC systems: Green is ground (PE), black is line and white is neutral.

For 0-10V dimming: Purple is DIM (+) and gray is DIM (-).

Wiring Diagram for Retrofit Driver Tray



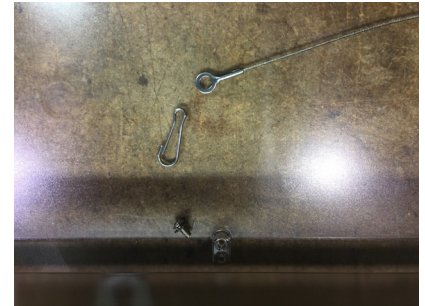
Installation



1. Turn off power supply.
2. Unhook diffuser clips.



3. Remove lanyard clips from ballast tray.



4. Remove screw that holds diffuser lanyards in place. Remove clip from other end of the lanyard. Keep screws, washers and clips.



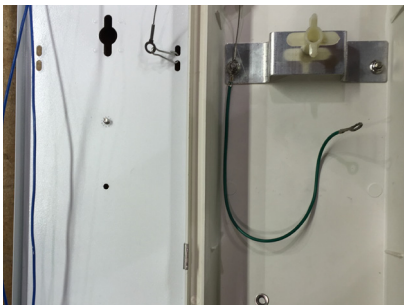
5. Take the lanyards from the retrofit kit and attach the clip saved in Step 4 to one end. Reattach lanyards to diffuser using the screw and washer from Step 4.



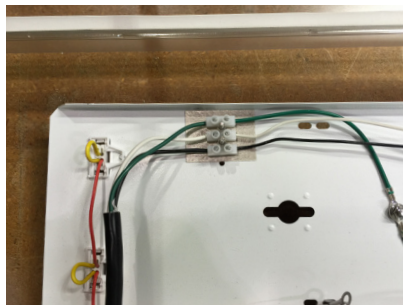
6. Turn the ballast hold-down so it fits inside of the cutout hole on the driver tray.



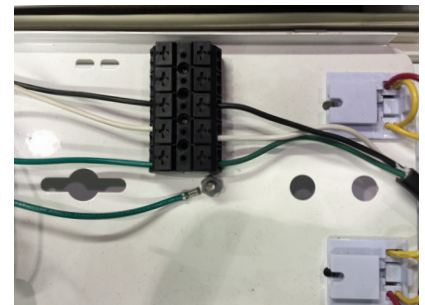
7. Pull ballast tray out of housing.

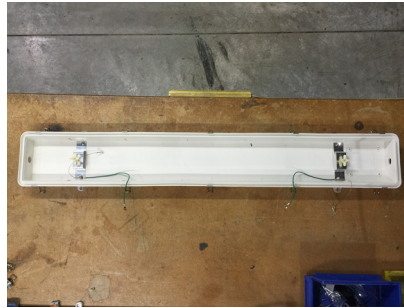
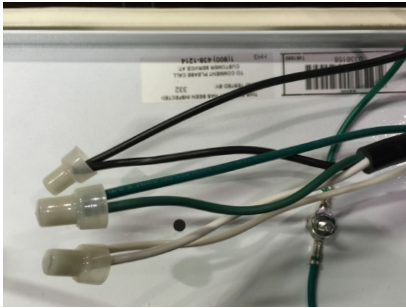


8. Unclip housing lanyards and ground wire from ballast tray in both locations. Note that the 4 foot fixture will have two ground wires from housing to ballast tray, and the 2 foot fixture will have one. Leave ground wires attached to housing. Keep all hardware for later use.

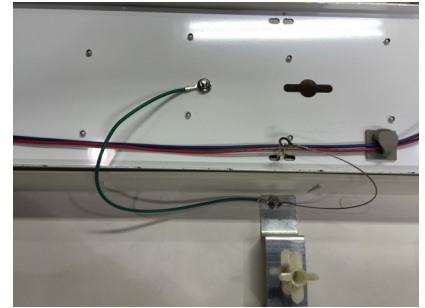


9. Disconnect power leads to ballast tray from terminal block (white or black) or crimp connection.

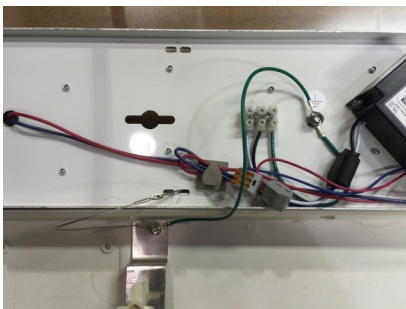




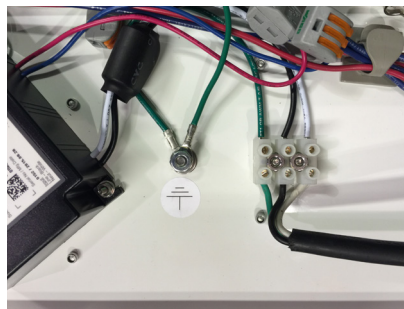
10. Properly dispose of ballast tray.



11. Reconnect ground wire on opposite end from driver on the tray (only on 4 foot model). Use hardware from Step 8 (or the $\frac{1}{8}$ nut supplied with kit).



12. Reconnect both lanyards on same side of driver tray. Reinstall ground wire and nut removed in Step 8 (or the $\frac{1}{8}$ nut supplied with kit) to location designated by ground sticker on driver tray.



13. Reconnect the supply wires to the driver tray. Refer to the "Wiring" section on page 1.



14. Insert driver tray into housing. For best light performance, center the driver tray within the housing.



15. Install diffuser lanyards supplied with kit to driver tray on opposite side from where housing lanyards are located.



16. Secure diffuser to housing using the diffuser clips on the housing. Turn on power supply.



UL listed luminaires by Phoenix for LFW and LFSB Series.



Accepted Models for UL Retrofit

UL and cUL listed luminaires by Phoenix for the following models listed below.

LFW Fixtures Suitable for Wet Locations	LFSB-WT Fixtures Suitable for Outdoor Type (Saltwater)	LFSB Fixtures Suitable for Wet Locations & Outdoor Type (Saltwater)
LFW217	LFSB120-LTB-WT	LFSB217
LFW217-SL	LFSB217-12V-WT	LFSB232
LFW217-TB	LFSB217-UNIV-LTB-WT	
LFW217-TB-USA	LFSB217-UNIV-WT	
LFW217-TWAG	LFSB220-ELB-WT	
LFW217-TWAG-USA	LFSB220-EMB-WT	
LFW217-TWAG-YGZ	LFSB220-LTB-WT	
LFW217-WAG	LFSB232-277-PRG-WT	
LFW217-WAG-EMB	LFSB232-LTB-WT	
LFW217-WAG-EMB-USA	LFSB232-RM-WT	
LFW217-WAG-NO LBL	LFSB232-TB-WT	
LFW217-WAG-USA	LFSB232-UNIV-EMB-WT	
LFW232-SL	LFSB232-UNIV-LTB-WT	
LFW232-SL-TB	LFSB232-WT	
LFW232-SL-TB-RIO	LFSB240-EMB-WT	
LFW232-SL-USA	LFSB240-WT	
LFW232-TB	LFSB254-EMB-WT	
LFW232-TB-USA	LFSB254-LTB-WT	
LFW232-TWAG	LFSB254-UNIV-FS-TB-WT W/15' CORD	
LFW232-TWAG-USA	LFSB254-WT	
LFW232-TWAG-YGZ	LFSB317-DB-WT	
LFW232-WAG	LFSB320-DB-WT	
LFW232-WAG-NO LBL	LFSB320-ELB-WT	
LFW232-WAG-USA	LFSB340-DB-WT	
	LFSB354-UNIV-WT	

UL listed luminaires by Phoenix for LFW and LFSB Series.



Accepted Models for UL Retrofit (continued)

UL listed luminaires by Phoenix for the following models listed below.

LFSB Fixtures Suitable for Wet Locations

LFSB117	LFSB220-ELB-RM	LFSB232-SPC2-277-NO CORD	LFSB317-TB
LFSB117-UNIV	LFSB220-TB	LFSB232-TB	LFSB317-UNIV-TB
LFSB120	LFSB220-TB-RM	LFSB232-TB-DIM	LFSB317-W/BRKTS
LFSB120-120V-ELB	LFSB224	LFSB232-TB-DIM-RFF	LFSB320
LFSB120-TB	LFSB228-UNIV	LFSB232-TWAG	LFSB328-UNIV
LFSB132	LFSB232	LFSB232-TWAG-DCG	LFSB332
LFSB132-LTB	LFSB232	LFSB232-TWAG-ULTB-YGZ	LFSB332
LFSB132-ULTB	LFSB232-120V/60HZ-5' CRD&PLG	LFSB232-TWAG-YGZ	LFSB332-277-PRG
LFSB154	LFSB232-220-50HZ	LFSB232-ULTB	LFSB332-CPP-GKHS
LFSB217	LFSB232-220V/50HZ -W/LFS BRKTS	LFSB232-UNIV	LFSB332-CPP-W/BRKTS
LFSB217	LFSB232-220V/50HZ-5' CRD&PLG	LFSB232-UNIV-50HZ-LTB-TB	LFSB332-CPP-WHUF
LFSB217 PHX BLST TRAY	LFSB232-220V/50HZ-LTB-CRD&PLG- W/BRKTS	LFSB232-UNIV-EMB-LTB-TB	LFSB332-DB
LFSB217-105V BLST	LFSB232-220V/50HZ-TB	LFSB232-UNIV-LTB-TB	LFSB332-UNIV
LFSB217-120V-50HZ	LFSB232-277	LFSB232-UNIV-LTB-TB-HYDRALIFT	LFSB332-UNIV-ADVBLST-ICN3P32-N
LFSB217-220-50HZ	LFSB232-277-EMB	LFSB232-UNIV-TB-DIM	LFSB332-W/BRKTS
LFSB217-220V/50HZ-W/LFS BRKTS	LFSB232-277-PRG	LFSB235	LFSB340
LFSB217-240V-50HZ	LFSB232-347	LFSB240 (ELB STD)	LFSB354-277
LFSB217-24V	LFSB232-CPP-WHUF-W/GSKT	LFSB240-220V	LFSB354-IF
LFSB217-347	LFSB232-DB	LFSB240-RM	LFSB354-LTB
LFSB217-DB	LFSB232-DIM	LFSB240-TB	LFSB354-SPC2-277-LV(14W34)
LFSB217-DIM	LFSB232-DIM-TWAG	LFSB240-TB-RM	LFSB354-UNIV
LFSB217-LTB	LFSB232-DIM-TWAG-ULTB-YGZ	LFSB244	LFSB354-UNIV-DB-ADVBLST
LFSB217-TB	LFSB232-DIM-TWAG-YGZ	LFSB254-277-LTB	
LFSB217-TB-LTB	LFSB232-DSL	LFSB254-277-TLCRD&PLG&LMPS	
LFSB217-TWAG-ULTB-YGZ	LFSB232-IF	LFSB254-LTB	
LFSB217-TWAG-YGZ	LFSB232-LTB	LFSB254-UNIV	
LFSB217-UNIV	LFSB232-PRG-RM	LFSB254-UNIV-RM	
LFSB217-UNIV-DIM-TB	LFSB232-RFF	LFSB260	
LFSB217-UNIV-EMB-TWAG-TGZ	LFSB232-RM	LFSB260-277-IF	
LFSB217-UNIV-TB-LTB	LFSB232-SPC1-277-DW(14W34)	LFSB260-TB	
LFSB220	LFSB232-SPC2-277-DW(14W34)	LFSB317	
LFSB220-220V-50HZ	LFSB232-SPC2-277-LV(14W34)	LFSB317-DB	
LFSB220-24V	LFSB232-SPC2-277-LV(26W49)	LFSB317-DB-RLS	

