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## INSTALLATION INSTRUCTIONS

### LED RETROFIT KIT FOR FIXTURES WITH (2) T-8 FLUORESCENT LAMPS

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#### LED-3120xxRF Series

- LED-312022RF (2) 48" 22 watt lamps
- LED-312013RF (2) 36" 13 watt lamps
- LED-312009RF (2) 24" 11 watt lamps

**KIT INCLUDES:**

- (2) lamps
- (1) label - power end
- (1) label - fluorescent warning

#### TOOLS REQUIRED:

Flat screwdriver, wire cutter/stripper, awl or other pointed tool



**CAUTION:** Risk of fire or electrical shock. Installation requires knowledge of luminaires electrical systems. The following procedure is intended to be performed by a qualified electrician. If not qualified, do not attempt installation. Contact a qualified electrician.

The electrical rating of these products is 120 - 277 VAC.

To prevent wiring damage or abrasion do not expose wiring to edges of sheet metal or other sharp objects.

Luminaires wiring, ballasts or other electrical parts may be damaged when drilling for installation of LED reflector kit hardware. Check for enclosed wiring and components.

Only those open holes indicated in the drawings may be made or altered as a result of kit installation. Do not leave any other open holes in an enclosure of wiring of electrical components.

Not for direct replacement of fluorescent lamps.

Do not use where directly exposed to water.

The Retrofit Kit is accepted as a component of a luminaire where the suitability of the combination shall be determined by CSA or authorities having jurisdiction.

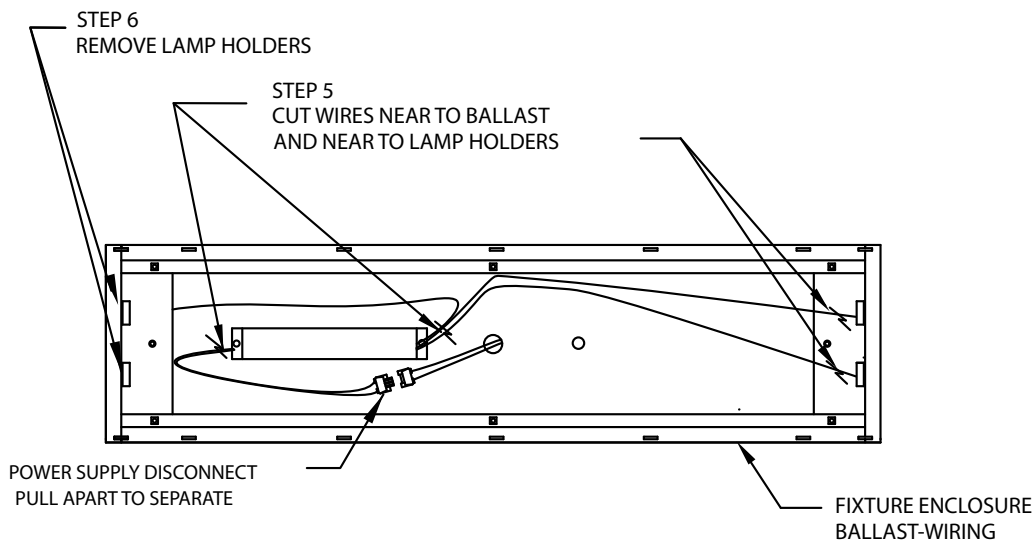
# LED-3120xxRF Series

## INSTALLATION PROCEDURE

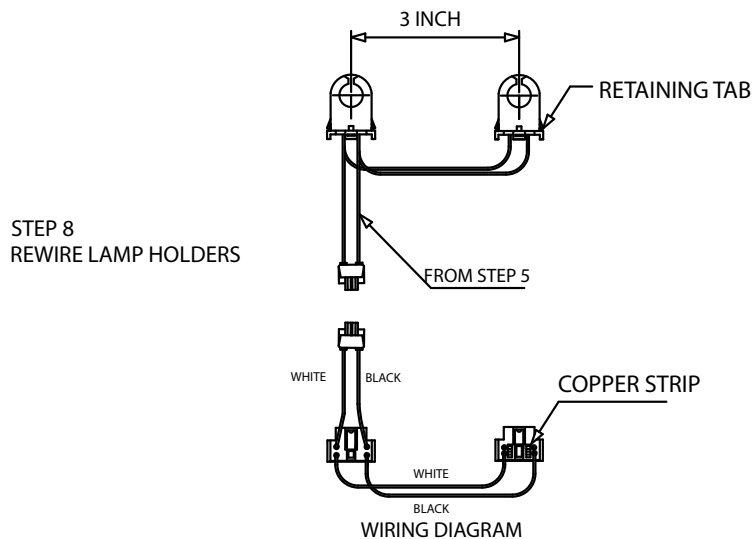
1. Verify electrical power to unit is OFF.
2. Remove lens cover to expose luminaire lamps and electronics. If equipped with retaining cables, allow to hang.  
Note: To assist with reassembly, do not fully remove screws from lens cover.
3. Remove fluorescent lamps.
4. Remove all screws from retaining reflector; remove reflector and set aside. Save all associated hardware.

Ballast and wiring should now be exposed. If not, remove the wiring compartment cover. There may be locking tabs or screws holding the wiring compartment in place. Remove and save all associated hardware for reassembly.

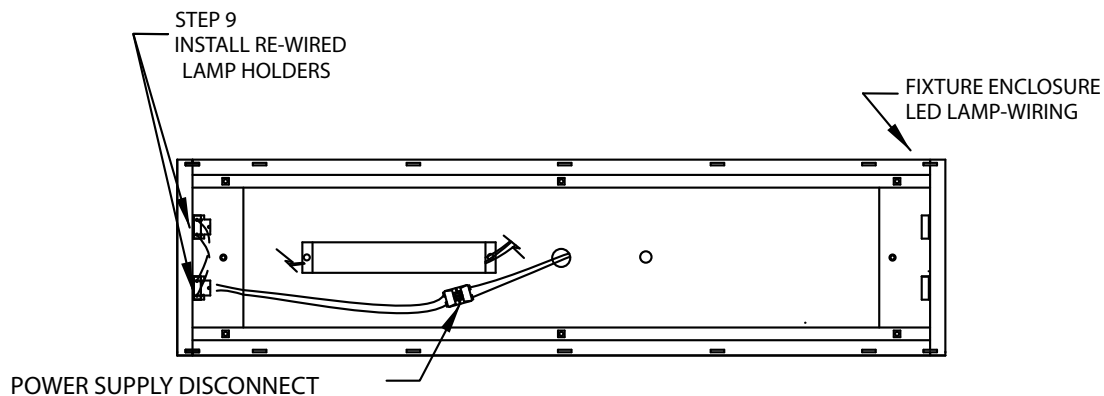
5. Locate power supply to ballast, disconnect and pull apart to separate. Cut disconnect lead wires to ballast and remove. Strip both leads 3/8" and set aside. (You will re-use wired disconnect in step 8.) Clip the ballast output leads as close to the ballast as possible. Clip the lamp leads as close to the lamp holders as possible. (Lamp holders will be for support only.)



6. Select two adjacent lamp holders nearest to power supply leads and remove these lamp holders by depressing retaining tabs while pushing down.
7. Remove all wires from both lamp holders. Use an awl or other pointed tool to gently depress the copper strip adjacent to the lead while pulling on the lead wire.

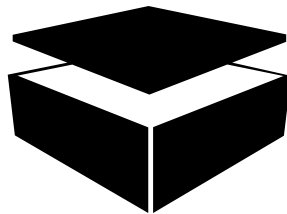


8. Using 18 AWG, 600V, 105° TYPE AWM1 or CSA-TEWN solid conductor wire, re-wire lamp holders as shown in the wiring diagram, including power supply leads from Step 5. Verify all leads are retained in lamp holder ports with a gentle pull.



9. Install re-wired lamp holder set on the same side. Insert from underside of retaining plate. Push to lock retaining tabs. This is now the line side of the luminaire.
10. Reconnect disconnect, separated in Step 5.
11. **IMPORTANT:** Apply supplied self-adhesive label “POWER TO THIS END ONLY” above re-wired lamp holders. Label must be visible for lamp installation.
12. Replace wiring compartment and/or reflector removed in Step 4.
13. **IMPORTANT:** Apply supplied self-adhesive label “NOTICE NOT FOR USE WITH FLUORESCENT LAMPS. Order replacement LED-T8 lamps – 800.526.3694”.
14. Install LED lamps with power input as marked on lamp, matched to labeled lamp holders.
15. Reinstall lens cover.
16. Restore power to fixture.

Note: Original ballast circuit will be disabled in Step 5. Lamp holders originally wired to ballast will also be electrically disabled, used only to support lamps when installed. Ballast with related wiring may remain in place, electrically disabled.



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