1. Switch Power OFF

2. Remove fluorescent lamps. Dispose of fluorescent lamps per local requirements and codes for mercury disposal. Gain access to ballast by removing cover.

3. Cut all wires to ballast (close to ballast case). Gather remove ballast or keep it in place.

4. Inspect lamp holders, ballast, and wiring to ensure these lamp holders are NON SHUNTED LAMP HOLDERS. TCP LiberaT5 Series lamps do not require a ballast to operate. They have an internal LED driver that operates on 120-277V. These tubes require power to only one end of the fixture, called the “power” side. The TCP LiberaT5 is clearly marked at one end to signify power end. The lamp holders (or tombstones) must be non-shunted as the power flows through the LED T5 tube. (Shunt means “an electrical conductor joining two points of a circuit, through which more or less current may be diverted.” Both “power” end and opposite end must be non-shunted tombstones. The “opposite” end acts as simply a mechanical holder with TCP LED LiberaT5 lamps.

5. Choose one side of the fixture as the “power” side. Connect the black “live” to each lamp holder on the power side per the wiring diagram. Connect the white wire “neutral” to each lamp holder. Use the white wire “neutral” to each lamp holder. The black “live” acts as the “power” side. The TCP LiberaT5 lamp is clearly marked at one end to signify power end. The lamp holders (or tombstones) must be non-shunted as the power flows through the LED T5 tube. (Shunt means “an electrical conductor joining two points of a circuit, through which more or less current may be diverted.”) Both “power” end and opposite end must be non-shunted tombstones. The “opposite” end acts as simply a mechanical holder with TCP LED LiberaT5 lamps.

6. Diagram of fixture with ballast removed.

7. Lamp holders (tombstones) Cut the wire leads from the lamp holders (tombstones) on opposite side of fixture.

8. Established Power Side Install ballast cover.

9. lamps (tombstones) on opposite side of fixture. Cut the wire leads from the lamp holders (tombstones) on the opposite side of the fixture.


IMPORTANT SAFETY INSTRUCTIONS

WARNING – To avoid potential fire or shock hazard, do not use this retrofit kit in luminaires containing unshunted lamp holders (tombstones). Existing fluorescent tubes must have a minimum spacing of 2 inches between the side of the neighboring fluorescent lamp when LiberaT5 is to be installed in a multi-tube luminaire.

PRIOR TO INSTALLING LIBERAT5 SERIES LAMPS, PLEASE TURN POWER OFF TO FIXTURE.

INSTALLATION SHALL BE PERFORMED BY A QUALIFIED ELECTRICIAN UNDERSTANDING THE CONSTRUCTION AND OPERATION OF THIS PRODUCT AND THE ELECTRICAL REQUIREMENTS INVOLVED.

THIS RETROFIT KIT IS ACCEPTED AS A COMPONENT OF A LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY AUTHORITIES HAVING JURISDICTION.

NOT FOR USE WITH SHUNTED LAMP HOLDERS.

NOT FOR USE WITH DIMMERS.

NOT FOR USE WITH FLUORESCENT LAMP BALLAST.

THIS PRODUCT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST UL SAFETY, NEC AND/OR LOCAL AUTHORITY HAVING JURISDICTION.

INSTALLATION SHALL BE PERFORMED BY A QUALIFIED ELECTRICIAN UNDERSTANDING THE CONSTRUCTION AND OPERATION OF THIS PRODUCT AND THE ELECTRICAL REQUIREMENTS INVOLVED.

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 – Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.

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 avoid potential fire or shock hazard, do not use this retrofit kit in luminaires employing shunted bi-pin lamp holders. Note: Shunted lamp holders are found in fluorescent luminaires with Instant-Start ballasts. Instant-Start ballasts can be identified by the words “Instant Start” or “I.S.” marked on the ballast. For more information, contact the LED luminaire retrofit kit manufacturer.

WARNING – Installations of LiberaT5 series LED lamp or lamps is intended to replace one or more existing 4 foot fluorescent tubes as used in dry or damp rated 4 foot luminaire.

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

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.

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.