

Refit Solutions

energy smart® LED tubes with GE driver



BEFORE YOU BEGIN

Read these instructions completely and carefully.

Save These Instructions

These instructions do not cover all details or variations in components nor provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should a particular problem arise which is not covered sufficiently for the purchaser's purpose, the matter should be referred to General Electric Company. GE Lighting does not claim liability for any installation not performed according to this guide or not by a qualified electrician.

For Your Safety

Read and observe all **CAUTIONS** and **WARNINGS** shown throughout these instructions.

- Installation to be performed by factory trained or qualified personnel. Ensure this manual is provided to the installers and users.
- Use this product only in the manner intended by the manufacturer. If there are any questions or concerns, contact the manufacturer.
- This tube is designed for indoor application only, and should not be used in environment of high temperature and high humidity.
- Energy smart LED tubes & GE LED drivers (products SKUs on last page of this installation guide) are sold separately. Do not operate energy smart® LED tubes without the corresponding GE LED driver.
- This device is not intended for use with Emergency exits.
- Suitable for dry or damp location.
- Suitable for "Type IC" or "Type non-IC" luminaires.
- Max.4pcs LED tubes can be operated in a luminaire.
- Minimum fixture volume for 4 lamps is 36 inches long x 12 inches wide x 4 inches deep. Minimum socket spacing is 2.5 inches apart.
- This device complies with Part 15 Class A of FCC Rules.



imagination at work

Provided Components

The components have been properly packed to avoid damage during transit. Inspect the components to confirm there is no physical damage. Do not install damaged components.

energy smart® LED Tube with remote GE driver

The carton consists of:

- LED tubes
- Driver
- Instruction sheet
- Labels (Affixed to Luminaire)

⚠ WARNING

RISK OF FIRE OR ELECTRIC SHOCK

- Disconnect power before installation or maintenance. Contact a qualified electrician for installation.
- LED Retrofit Kit installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.
- Install this kit only in the luminaires that have the construction features and dimensions shown in the photographs and/or drawings.
- To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects. Installers should not disconnect existing wires from lamp holder terminals to make new connections at lamp holder terminals. Instead installers should cut existing lamp holder leads away from the lamp holder and make new electrical connections to lamp holder lead wires by employing applicable connectors.

⚠ CAUTION

RISK OF INJURY

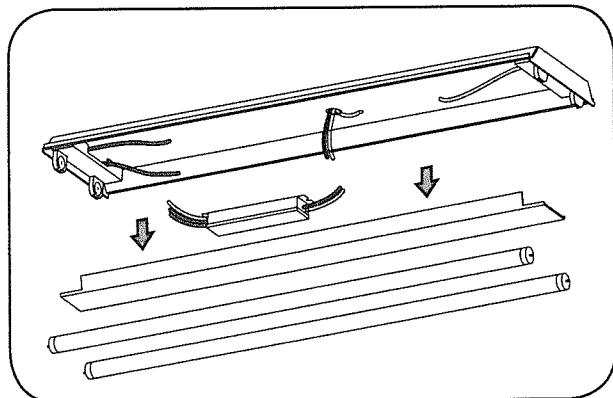
- Tube may fall down if not installed properly, follow installation instructions.
- Wear safety glasses and proper aid during installation and maintenance.

RISK OF PRODUCT DAMAGE

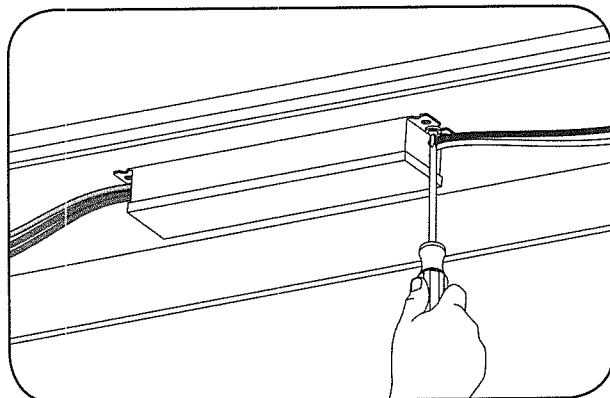
- Do not replace conventional LFL directly with energy smart LED tubes. Energy smart LED tubes need a DC voltage to work.

Components Installation

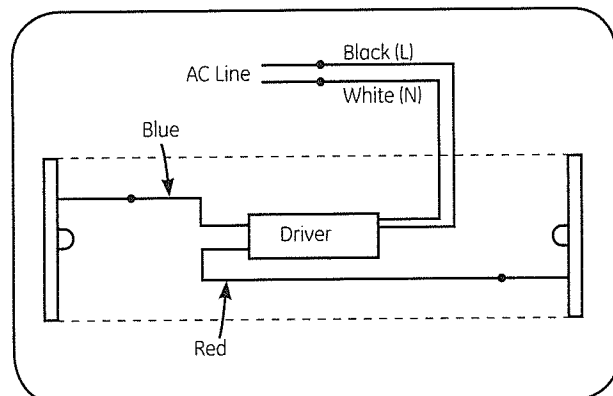
- 1 Ensure that the power to the unit is turned off. Use proper lockout and tagout procedures.



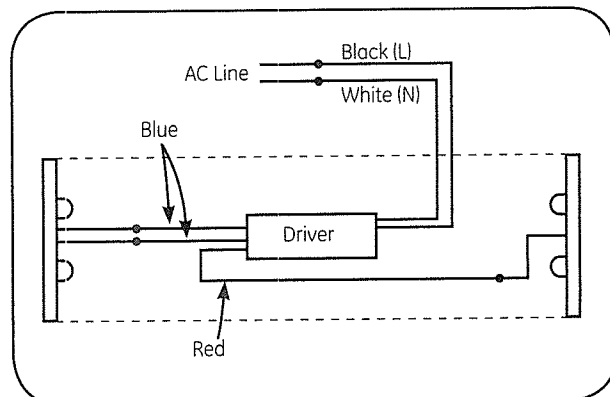
- 2 Remove existing lamps, fixture coverplate, and ballast. Leave wiring in place and make sure wire length is long enough to attach to the new LED driver. Verify that the AC supply line is provided with a ground wire connected to the luminaire.



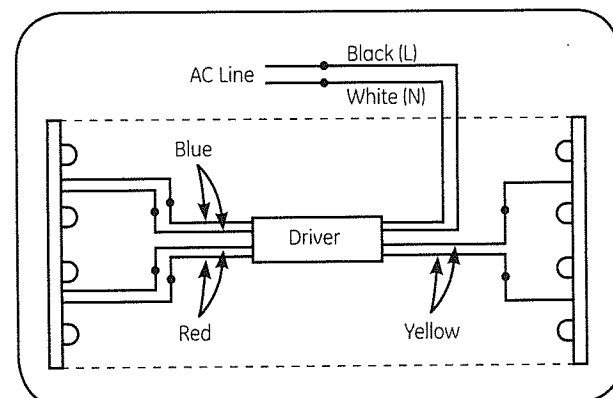
- 3 Secure the GE driver to fixture by using existing ballast mounting holes and screws. Use self-tapping screws (not provided) to create new mounting holes if necessary.



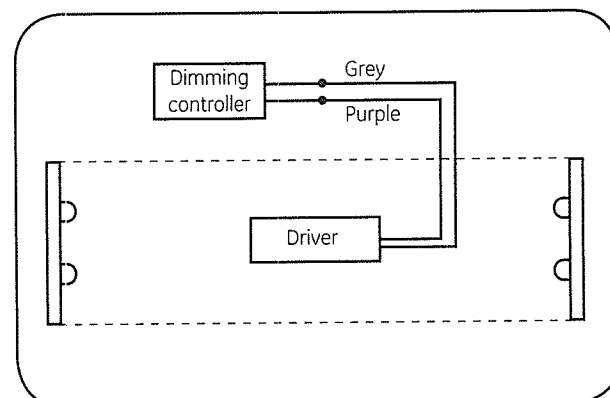
- 4A **One Tube Fixture:** Connect the black (L) and white (N) wires of driver to black and white wires of AC line, respectively. Connect the blue wire of the driver to the lamp holder at one end. Connect the red wire of the driver to the lamp holder at the opposite end.



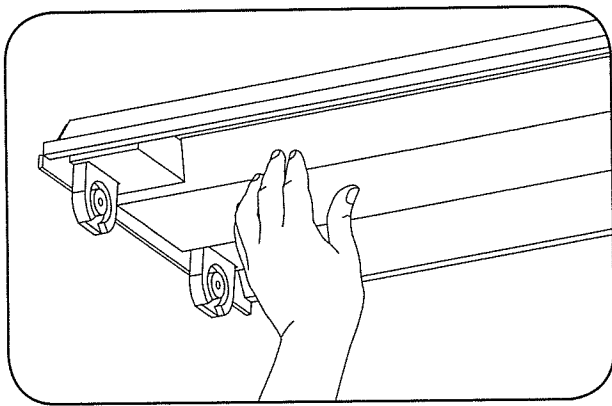
- 4B **Two Tube Fixture:** Connect the black (L) and white (N) wires of driver to black and white wires of AC line, respectively. Connect blue wires of the driver to the lamp holders at one end. Connect the red wire to the lamp holder at the opposite end.



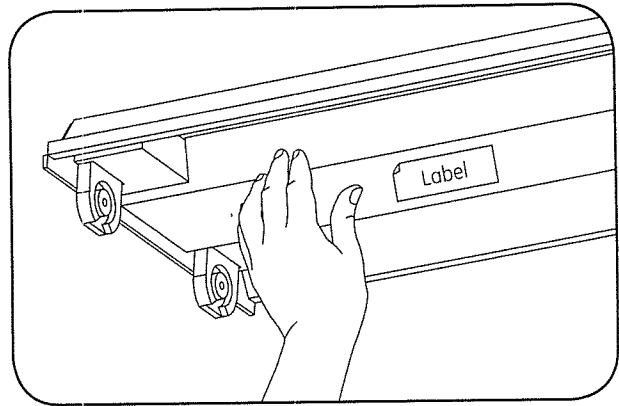
- 4C **Four Tube Fixture:** Connect the black (L) and white (N) wires of driver to black and white wires of AC line, respectively. Connect blue wires of the driver to the lamp holders at one end. Connect the red set of wires to the other set of lamp holders. At the opposite end, connect the yellow wires to the



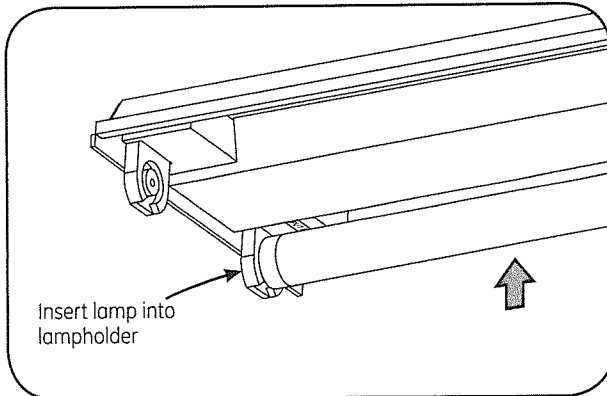
- 5 **Dimming option:** Connect the grey and purple wires from the driver to the dimming controller.
NOTE: Other wires not shown for clarity.



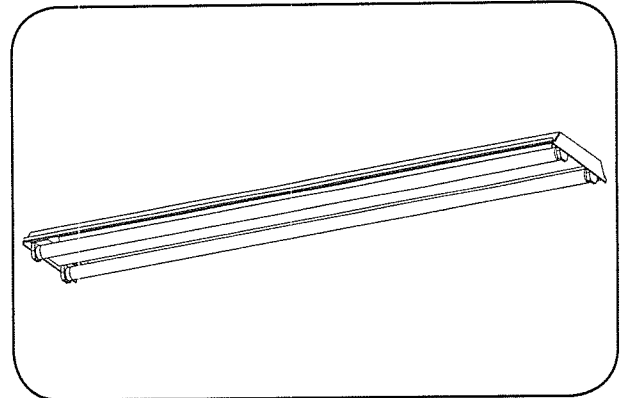
6A Compact wires and reattach fixture coverplate.



6B Affix the label to the fixture where it can easily be noted.



7 Insert the energy smart® LED tube into the lamp holder of the fixture and rotate 90 degrees. Repeat for remaining tubes.



8 Restore power and ensure lamps are operating correctly.

Maintenance/Lamp Replacement

Contact qualified electrician for the maintenance service. Order any replacement parts individually with the exact same model number. For any questions or concerns contact the manufacturer.

Product Compatibility Information

GE LED Type C		GE Drivers	
Glass	Plastic	Dimming	Non-Dimming
LEDT8/LC/G3/830 LEDT8/LC/G3/835 LEDT8/LC/G3/840 LEDT8/LC/G3/850	LEDT8/LC/3/830 LEDT8/LC/3/835 LEDT8/LC/3/840 LEDT8/LC/3/850 LEDT8/LC/3/865	LED12T8/DR/D2L LED12T8/DR/D4L LED15T8/DR/D2L LED15T8/DR/D4L LED18T8/DR/D2L LED18T8/DR/D4L LED/DR/D2L/LW* LED/DR/D4L/LW*	LED12T8/DR/2L LED15T8/DR/UN/2L LED18T8/DR/UN/2L

*Please see separate LumenChoice Driver Installation Guide for details on driver tuning.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This Class [A] RFLD complies with the CAN ICES-005A. Cet appareil est conforme à la norme canadienne NMB-005A.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



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