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LED T8 Universal tubes

LED T8 Universal tube is suitable to replace T8 fluorescent lamps in luminaires with standard G13 (medium bi-pin) lamp holders. This product is intended to be compatible with most types of magnetic ballasts (CCGs) and Electronic ballasts (ECGs), as direct retrofits for traditional fluorescent lamps without rewiring. If a ballast does not work properly (e.g., causes flickering, noise or fails to operate), please refer to direct wiring/new luminaire section of the instructions.

BEFORE YOU BEGIN

to install the LED T8 Universal tube, please read the entire installation guide carefully!

* Ensure that package includes: installation guide, warning label to be attached to luminaire, LED T8 tube and LED dummy starter.
* Identify which ballast type is installed in the fixture (see figures below) and follow the relevant section of the installation instructions to replace the fluorescent tube with the LED T8 Universal tube. When direct wiring of the Luminaire is needed: The technical and safety requirements of the converted luminaire are the sole responsibility of the party doing the conversion and must comply with the local applicable safety and regulatory laws (i.e. LVD) and standards (i.e. IEC 60598). The provided Warning label should be placed onto the converted luminaire to indicate that the luminaire has been modified and can no longer be used with fluorescent lamps.

**Warning:** Risk of fire or electric shock. LED retrofit installation must be done by a qualified electrician and all safety instructions must be followed to avoid a risk of injury and property damage. Do not disassemble this product and replace any LED or other internal components. When the light source reaches its end of life the whole luminaire shall be replaced.

**Warning:** Risk of electric shock. Disconnect power before installation. Don’t switch on power until installation of lamps are completed.

**Warning:** The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 0.65 m can be prevented.
Installation instruction

*Retrofit / Electronic ballast system

1. Turn off power  
2. Remove the existing fluorescent lamp  
3. Insert GE LED T8 Universal tube

4. Turn power back on and check for proper operation.

Note: In case of fixture supplied with electronic ballast, the green cap of the GE LED T8 Universal tube can face any of the two directions. If tube does not start up properly, then you can try to exchange direction or go to the direct wiring/new luminaire section of the instructions.

*Retrofit / Magnetic ballast system

1. Turn off power  
2. Remove the existing fluorescent lamp  
3. Remove the existing fluorescent starter

4. Insert LED T8 starter (provided extra by GE) into existing fluorescent starter location

5. Apply caution label provided in the package to warn users that the system has been modified and operates only LED lamps

6. Insert GE LED T8 Universal tube

7. Turn power on and check for proper operation

Note: Caution label with the following warning shall be placed onto the fixture in a location where readily visible by the user during re-lamping and after installation: “Caution: Risk of injury or damage: This luminaire has been modified and can no longer operate a fluorescent lamp. Only use the replacement GE LED T8 lamp type or contact manufacturer for more information.”
*Direct wire / new luminaire*

For applications where retrofit is not possible please follow the procedure below

1) Ensure power is off by disconnecting the supply voltage from luminaire
2) Remove all fluorescent lamps and starters
3) Wire luminaire according to one of the below diagrams depending whether it is single or twin tube fixture (figure 3).
   - Note: LED T8 tube will not work with shunted lamp holders.
   - Note: Final compliance/inspection to local standards/regulations of the luminaire is the sole responsibility of the luminaire manufacturer or installer.
   - Note: The fuse should be rated for 250 V 500 mA. See electrical distributor for proper fuse.
4) Place warning label found in LED retrofit lamp package to ensure that the user understands that the system now uses LED tubes and replacement with fluorescent can cause damage.
5) Insert T8 LED lamp
6) Turn power back on and check for proper operation.

*Additional information*

It is also possible to connect both line (L) and neutral (N) power to one lampholder (as per below diagram). In this case tube with the power side (marked with “AC Input and green ring around the cap) should be facing the lampholder with mains connection otherwise the internal fuse of the tube could be destroyed.