Luminaire Description for Retrofit Installation:

1. These LED tubes are suitable to be installed in standard T8 luminaires.
2. These LED tubes are NOT suitable to be installed in luminaires which use a remote starter.
3. These LED tubes are intended to retrofit surface mount, Type IC recessed mount Listed fluorescent luminaires that use maximum four straight tubular lamps with or without a diffuser.

LED Tube Installation Guide: WARNING

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

DANGER -

RISK OF SHOCK – DISCONNECT POWER BEFORE CARRYING OUT ANY INSTALLATION WORK

WARNING -

Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of luminaire electrical systems. If not qualified, do not attempt installation. Product must be installed in accordance with the National Electrical Code or your local electrical code. Contact a qualified electrician.

WARNING -

Risk of fire or electric shock. Install this kit only in luminaires that have construction features and dimensions shown in the photographs and/or drawings.

WARNING -

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

WARNING -

To avoid potential fire or shock hazard, do not use this retrofit kit in luminaires employing shunted bi-pin lampholders. Note: Shunted lamp holders are found only 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. This designation may be in the form of a statement pertaining to the ballast itself, or may be combined with the marking for the lamps with which the ballast is intended to be used, for example F40T12/IS.

WARNING -

Risk of fire or electric shock. Luminaire wiring and electrical parts may be damaged when installing retrofit kit hardware. Check for enclosed wiring and components.

- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.
- Installers should not disconnect existing wires from lampholder terminals to make new connections at lampholder terminals. Instead, installers should cut existing lampholder leads away from the lampholder and make new electrical connections to the lampholder lead wires by employing applicable connectors.
- “This luminaire has been modified to operate LED lamps. Do not attempt to install or operate fluorescent lamps in this luminaire,” shall be marked on the retrofit luminaire where readily visible by the user during normal maintenance, including lamping.
- Suitable for damp locations.
- Do not use if product is damaged.
- Do not use with dimmers.
- Not intended for use with emergency exits.
- These LED tubes must be operated within an ambient fixture temperature of -4°F to +104°F (-20°C to +40°C) to comply with all safety and warranty regulations.
- CONSULT A QUALIFIED ELECTRICIAN TO ENSURE CORRECT BRANCH CIRCUIT ENDUCTOR.

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Verbatim™

LED Tube Lamp

Installation Guide

Technical Specification:

1. Verbatim LED T8 Tubes are suitable to replace T8 fluorescent lamps in fixtures containing standard non-shunted G13 (medium bi-pin) sockets.
2. Refer to the installation steps in this **Installation Guide.**

Part Number	LED Tube Model No.	Input Voltage (Vac)	Input Frequency (Hz)	Input Wattage (W)
70601	T8-4FT-C40-W12-BP-DE-HE	120-277	60	12
70602	T8-4FT-C50-W12-BP-DE-HE			

Verbatim 5-year limited warranty www.verbatimlighting.com/warranty.
For support, visit www.verbatimlighting.com/support

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 acceptany interference received, including interference that may cause undesired operation.

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- EUROPE/MIDDLE EAST/AFRICA: Verbatim GmbH, Düsseldorfer Straße 13, 65760 Eschborn/Germany
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Installation Steps:

1. Make sure power to the luminaire is switched off at the source.
2. Remove the lens or diffuser (if applicable) and the existing fluorescent lamps from the luminaire.
3. Open the wiring compartment.
4. Cut off all wires that connect the ballast.
5. Make sure to connect the line (L) and neutral (N) to the corresponding ends of the tube socket according to the wiring diagram **(Figure 2).**
6. Close up wiring compartment.
7. Install the new Verbatim LED T8 tube with line (L) end of LED tube to line (L) end tube socket.
8. Apply Relamping Label on a visible location inside the fixture.
9. Replace diffuser (if removed in step 2).
10. Switch on power to the luminaire.

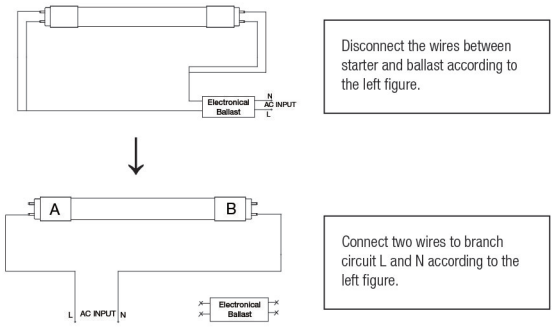
Figure 1 Non-shunted and shunted socket

(a) Non-Shunted

(b) Shunted

Figure 2

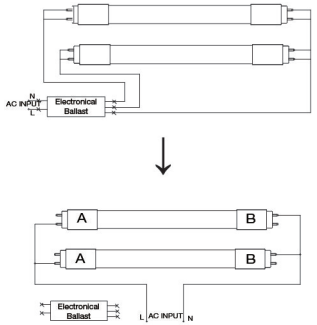
a. Retrofit luminaire with electronical ballast



Disconnect the wires between starter and ballast according to the left figure.

Connect two wires to branch circuit L and N according to the left figure.

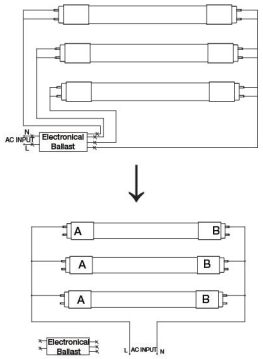
b. Retrofit luminaire with two lamps and one electronical ballast



Disconnect the wires between starter and ballast according to the left figure.

Connect two wires to branch circuit L and N according to the left figure.

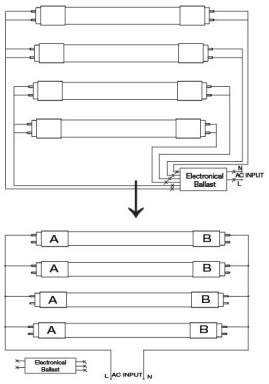
c. Retrofit luminaire with three lamps and one electronical ballast



Disconnect the wires between starter and ballast according to the left figure.

Connect two wires to branch circuit L and N according to the left figure.

d. Retrofit luminaire with four lamps and one electronical ballast



Disconnect the wires between starter and ballast according to the left figure.

Connect two wires to branch circuit L and N according to the left figure.