

**TOPSTAR™**

**LED**

LED T8 Lamps - Bypass

**SHATTER-PROOF**



# Easily upgrade to LED from fluorescent.

Topstar Bypass LED T8 Lamps have been designed and engineered for demanding commercial applications. The lamp's coated glass diffusing tube and compact light engine produce 325° of evenly diffused light. The micro-designed driver allows for a smaller end cap and end-to-end lighting with no dark spots. This UL listed tube requires bypassing the ballast during installation and runs directly off line voltage to eliminate compatibility problems, incidental power loss, lifetime issues, and maintenance costs associated with ballasts.

- DLC 4.2 Listed
- 32W fluorescent replacement
- High efficacy 120 LPW (full system-frosted glass)
- Wide beam 325° light emitting area
- Built-in universal voltage driver
- Bypass installation
- 3000K / 3500K / 4000K / 5000K CCT
- Extra long 50 000 hr lifetime
- UL Classified

1

**TOPSTAR™**

# Bypass T8

## Electrical and Technical Data (subject to change without notice)

Ordering Code * *	Bare Lamp Watt (W)	Initial Lumen *	Base	CRI	Color Temp.	Rated Average life	MOL (in.)	Beam Angle
L24T8-XY-09P-G4-BP	9	1150	G13	80	4000K/5000K	50,000	24	160
L36T8-XY-11P-G4-BP	11	1250	G13	80	4000K/5000K	50,000	36	160
L48T8-XY-12P-G4-BP	12	1800	G13	80	4000K/5000K	50,000	48	160
L48T8-XY-15P-G4-BP	14.5	1925	G13	80	4000K/5000K	50,000	48	160
L48T8-XY-18P-G3-BP	18	2300	G13	80	4000K/5000K	50,000	48	160
L48T8-XY-18P-G4-BP	18	2350	G13	80	4000K/5000K	50,000	48	160

\* Initial lumen above is @ 4000K

\*\* G4 version is the Shatter-Proof tube, while G3 is with Frosted Glass

## Installation Guide

- 1) Read all WARNINGS before continuing this section.
- 2) Ensure fixture is 120-277V.
- 3) Make sure POWER IS TURNED OFF AT THE SOURCE.
- 4) Remove lens if applicable, remove cover and fluorescent tubes.
- 5) Cut all wires that connect ballast (Cf. Diagram 1). Properly discard ballast or cap off wires. Cut wire away from lamp holders.
- 6) If applicable, replace lamp holders at power end with non-shunted lamp holders.
- 7) Connect Live (L) from power source into non-Shunted lamp holder "L In".
- 8) Connect neutral (N) wire from power source into non-Shunted lamp holder "N In".
- 9) If installing a single tube refer to Diagram 3 and go to section 13. If connecting multiple lamps, continue reading.
- 10) Connect separate hot wire into "Hot Out" from primary source lamp holder and connect that wire into "Hot In" on the adjacent tube.
- 11) Connect separate neutral wire into "Neutral Out" from primary source lamp holder and connect that wire into "Neutral In" on the adjacent tube. See Diagram 4 below.
- 12) Continue this process for additional lamps.
- 13) This device is powered on one end only; the end with L and N markings (Cf. Diagram 2). Do not wire opposite end of lamp holder.
- 14) Install lamp with the L and N markings into the wired lamp holder end.
- 15) Visibly affix "Modification Sticker" and reinstall housing cover and lens if applicable.
- 16) Return power back to source and installation is now completed.

Diagram 1 – Cut all ballast wires

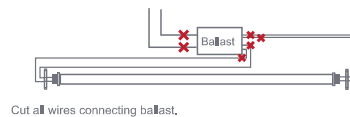


Diagram 2 – Connecting end

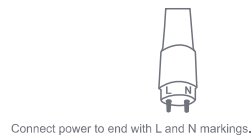
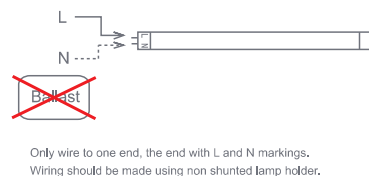


Diagram 3 – Single tube wiring



**WARNING** - Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of luminaire electrical systems. Installation should be performed only by a qualified electrician in accordance with the National Electrical Code and relevant local code.

**WARNING** - Risk of fire or electric shock. Install this kit only in the luminaires that have the 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** - Risk of fire or electric shock. Luminaire wiring and electrical parts may be damaged when drilling for installation of LED retrofit kit. Check for enclosed wiring and components.

- Disconnect power at the source before installation, inspection or removal. Do not simply switch off fixture.
- This item is rated at 120-277V. Installer must determine whether line voltage 120-277V is available at the luminaire before installation.
- Not intended for use with emergency exit fixtures or emergency exit lights.
- Not for use with luminaire ballast.
- Do not use if product is damaged.
- This lamp is non-dimmable. Not for use with dimmers.
- Suitable for use with non-shunted lamp holders only.
- Connect hot wire only to end cap with the L and N markings. See Diagram 2. Opposite end cap is dead, do not wire.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.
- 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 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. For more information, contact the LED luminaire retrofit kit manufacturer.
- "This luminaire has been modified to operate LED lamps" shall be marked on the retrofit luminaire where readily visible by the user during normal maintenance including re-lamping.
- Risk of fire or electric shock. Do not open or modify. No user serviceable parts inside.
- 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.
- SUITABLE FOR DAMP LOCATIONS. Suitable for use in wet locations when used in an outdoor-rated fixture. Not for use where directly exposed to the weather or water.
- Complies with Part 15 of FCC. 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.
- SUITABLE FOR "TYPE IC" OR "TYPE NON-IC" LUMINAIRES.
- No external weight or mechanical force should be applied to tube or components.
- THE RETROFIT ASSEMBLY IS ACCEPTED AS A COMPONENT OF A LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY UL OR AUTHORITIES HAVING JURISDICTION.