



## 8FT LED T8 TUBE TYPE A+B HYBRID

### WARNING, CAUTION, SAFETY AND INSTALLATION INSTRUCTIONS

#### WARNING

- Installation, service, and maintenance of luminaires should be performed by a qualified licensed electrician.
- Before installation, examine all parts that are not intended to be replaced by the lamp for damage. Replace any damaged parts prior to installation of the lamp.

#### CAUTION

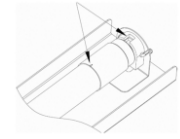
- This LED retrofit installation requires knowledge of luminaires and electrical systems. If not qualified, do not attempt the installation and contact a qualified electrician.
- This lamp is accepted as a component of a luminaire where the suitability of the combination shall be determined by Authorities Having Jurisdiction (AHJ). This installation guide does not supersede local or national regulations for electrical installations.
- Do not install this lamp in a pre-heat luminaire.
- This device is not intended for use with emergency exits.
- Use in dry or damp locations only.
- Do not use where directly exposed to water or weather. Non-submergible (not watertight).
- Do not open — No user serviceable parts inside.
- In Type A mode, this lamp only operates on electronic ballasts. If the lamp does not illuminate when the luminaire is energized, remove the lamp from the luminaire and contact the manufacturer or a qualified electrician.
- For Type B (ballast bypass) installation, the luminaire will no longer operate fluorescent lamps after the removal of the electronic ballast.
- Do not make or alter any open holes in the wiring enclosure or electrical components during lamp installation.
- When working with electronic ballasts, please check the compatibility list first. If the ballast can't be found in the list, please bypass the ballast or contact the manufacturer. Do not install the tube if the ballast is not on the list.
- Installation does not require disconnecting existing wires from the lamp holder terminals to make new connections at the lamp holder terminals. Instead, proper installation involves cutting the existing lamp holder leads away from the lamp holder and making new electrical connections to the lamp holder lead wires by employing applicable connectors.
- If the lamp or luminaire exhibits undesirable operation (buzzing, flickering, etc.), immediately turn off the power, remove the lamp from the luminaire, and contact the manufacturer.
- Install this lamp only in luminaires that have the construction features and dimensions that allow the lamp to properly fit in the luminaire and where the input rating of the lamp does not exceed the input rating of the luminaire.
- Minimum lamp compartment dimensions:

Model	Minimum Lamp Compartment Dimensions [Length x Width x Height]	Maximum # of Lamps	Spacing between tube lamps, center to center
PLTP243511 PLTP243411	95.28×4.33×1.97in/2420×110×50 mm	2	2.56in/ 65 mm



### Installation Instructions

**NOTE:** Tubes must be installed with the end cap marks in correct alignment with the lamp holders as shown. Before installing the LED lamp, ensure the lamp base is compatible with the lamp holders.

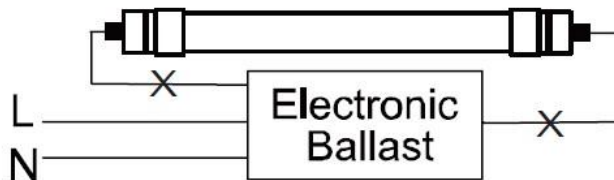


#### Type A (Electronic Ballast Compatible)

- Before installation, check the ballast compatibility list. If your ballast is not listed, please insert the lamp according to the Type B installation instructions.
- Turn off the power to the luminaire at the breaker panel.
- Remove the lens or diffuser (if applicable).
- Remove the existing fluorescent lamp from the luminaire by rotating the lamp one quarter turn and sliding the lamp out of the lamp holders.
- Insert the lamp into the lamp holders and rotate one quarter turn.
- Reinstall the lens or diffuser, if previously removed.
- Turn on the power to the luminaire and inspect the lamp for proper operation.

#### Type B (Ballast Bypass)

- Turn off the power to the luminaire at the breaker panel.
- Remove the lens or diffuser (if applicable).
- Remove the existing fluorescent lamp from the luminaire by rotating the lamp one quarter turn and sliding the lamp out of the lamp holders.
- Remove the ballast cover (Ballast cover may be secured with screws or tabs).
- Disconnect the wire before and after the ballast according to the below figure.



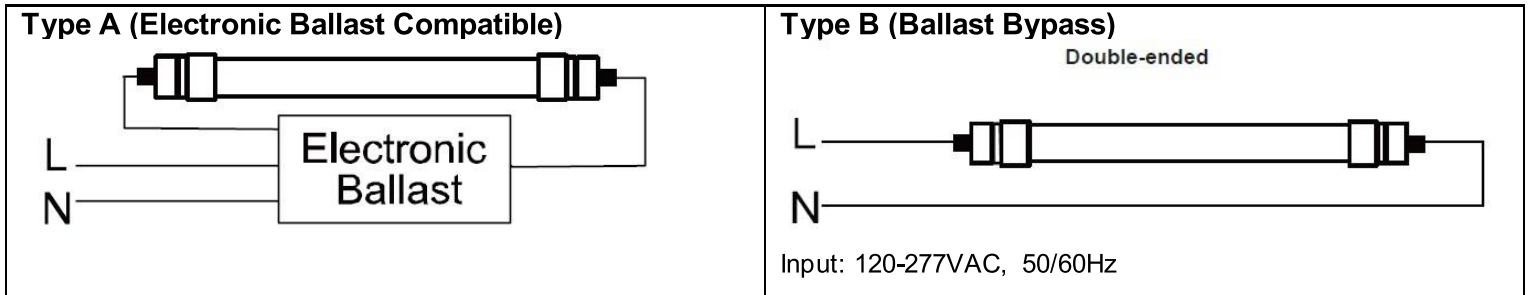
- Connect the two wires to the branch circuit L and N according to the appropriate wiring diagram listed in the Wiring Diagram section below.
- Before installing the LED lamp, read the label on the lamp to ensure the power end of the lamp is aligned with powered lamp holders in accordance with the wiring diagram selected for the installation.
- Insert the lamp into the lamp holders and rotate one quarter turn.
- Attach the provided Cautionary label to a location that remains visible during routine maintenance or relamping. Be sure to mark the selected wiring type (single or double-ended) and powered end on the luminaire.
- Reinstall the lens or diffuser, if previously removed.
- Turn on the power to the luminaire and inspect the lamp for proper operation.



# 8FT LED T8 TUBE TYPE A+B HYBRID

## WARNING, CAUTION, SAFETY AND INSTALLATION INSTRUCTIONS

### Wiring Diagrams



### Ballast Compatibility List

- When working with electronic ballasts, please check the compatibility list first. If the ballast can't be found in the list, please bypass the ballast or contact the manufacturer.
- Do not install the tube if the ballast is not on the list. Use of an incompatible ballast can result in reduced lamp lifetime, arcing or localized overheating.
- Y: Compatible; N: Incompatible

No.	Ballast Brand	Model No.	Start Type	Max Loading Qty	Compatibility (Y/N)	
					1 lamp	2 lamps
1	ACT	ACT2P59ISUNV	Instant Start	2	Y	Y
2	ESPEN	VE259MVHIP11103	Instant Start	2	Y	Y
3	ESPEN	VE259120HIP	Instant Start	2	Y	Y
4	GE	GE259MAX-L/ULTRA	Instant Start	2	Y	Y
5	GE	GE259MAX-G-N-DIYB	Instant Start	2	Y	Y
6	GE	GE-159-MAX-N/Ultra	Instant Start	1	Y	N
7	HALCO	EP259IS/MV	Instant Start	2	Y	Y
8	HALCO	EP2/59ISMV/MC/HE	Instant Start	2	Y	Y
9	OSRAM SYLVANIA	QHE 2X59T8/UNV ISN-SC	Instant Start	2	Y	Y
10	OSRAM SYLVANIA	QTP 2X59T8/UNV ISN-SC	Instant Start	2	Y	Y
11	OSRAM SYLVANIA	QHE 2X59T8/UNV ISL-SC	Instant Start	2	Y	Y
12	PHILIPS ADVANCE	IOP-2P59-N	Instant Start	2	Y	Y
13	TRAID	B259IUNVHP-A	Instant Start	2	Y	Y

### ⚠ WARNING

- Before installing, servicing, or performing routine maintenance upon this equipment, follow these general precautions.
- To reduce the risk of death, personal injury, or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards, read all warnings and instructions included with and on the fixture box and all fixture labels.



## 8FT LED T8 TUBE TYPE A+B HYBRID

### WARNING, CAUTION, SAFETY AND INSTALLATION INSTRUCTIONS

- Proper grounding is required to ensure safety.
- Power must be turned off at the breaker before installation or maintenance.
- This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.
- Wear gloves and eye protection at all times while installing, servicing, or performing maintenance on the luminaire, and avoid direct eye exposure to the light source while it is on.
- To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- Do not install damaged product. Inspect luminaire for damage that may have occurred during transit. If damaged, contact the manufacturer immediately.
- These instructions do not purport to cover all details or variations in equipment nor to provide every possible contingency to meet in connection with installation, operation, or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's or owner's purposes, contact the manufacturer.

### **⚠ ADVERTENCIA**

- Antes de instalar, reparar o realizar el mantenimiento de rutina de este equipo, siga estas precauciones generales.
- Para reducir el riesgo de muerte, lesiones personales o daños a la propiedad por fuego, descarga eléctrica, caída de piezas, cortes / abrasiones y otros peligros, lea todas las advertencias y instrucciones incluidas con y en la caja del dispositivo y todas las etiquetas del dispositivo.
- Se requiere una conexión a tierra adecuada para garantizar la seguridad.
- Se debe apagar la energía en el disyuntor antes de la instalación o el mantenimiento.
- Este producto debe ser instalado de acuerdo con el código de instalación aplicable por una persona familiarizada con la construcción y operación del producto y los peligros involucrados.
- Utilice guantes y protección para los ojos en todo momento durante la instalación, el servicio o el mantenimiento de la luminaria, y evite la exposición directa de los ojos a la fuente de luz mientras está encendida.
- Para evitar daños o abrasiones en el cableado, no exponga el cableado a bordes de láminas de metal u otros objetos afilados.
- No instale un producto dañado. Inspeccione la luminaria en busca de daños que puedan haber ocurrido durante el tránsito. Si está dañado, comuníquese con el fabricante de inmediato.
- Estas instrucciones no pretenden cubrir todos los detalles o variaciones en el equipo ni proporcionar todas las posibles contingencias a cumplir en relación con la instalación, operación o mantenimiento. Si desea obtener más información o si surgen problemas particulares que no están suficientemente cubiertos para los propósitos del comprador o propietario, comuníquese con el fabricante.