



# 4FT WATTAGE/COLOR SELECTABLE LED T8 BALLAST BYPASS TUBE

## WARNING, CAUTION, SAFETY AND INSTALLATION INSTRUCTIONS

### WARNING

- Installation, service, and maintenance of luminaires should be performed by a qualified licensed electrician.
- Read all instructions before starting installation.
- 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.
- This LED retrofit installation requires knowledge of luminaires and electrical systems. If not qualified, do not attempt the installation and contact a qualified electrician.
- In this Type B (ballast bypass) installation, the luminaire will no longer operate fluorescent lamps after the removal of the electronic ballast.

### CAUTION

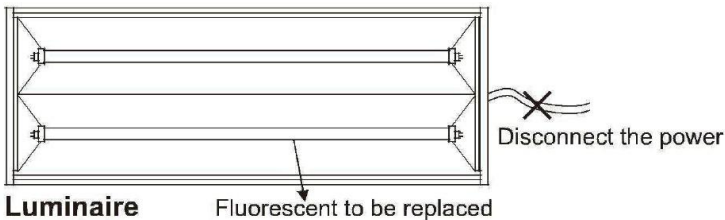
- Install this lamp only in luminaires that have the construction features and dimensions that allow the lamp to properly fit in the luminaire and where the input rating of the lamp does not exceed the input rating of the luminaire.
- This lamp is accepted as a component of a luminaire where the suitability 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.
- 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.
- This device is not intended for use with emergency exits.
- This tube is only compatible with the dimmers on the dimmer compatibility list.
- Do not make or alter any holes in the wiring enclosure to electrical components during lamp installation.
- This fixture must be wired in accordance with the National Electric Code and applicable local codes and ordinances.
- Installation does not require disconnecting existing wires from the lampholder terminals to make new connections at the lampholder terminals. Instead, proper installation involves cutting the existing lampholder leads away from the lampholder and making new electrical connections to the lampholder lead wires by employing applicable connectors.
- When using single-ended power input: To avoid potential fire or shock hazard, do not use the lamp in luminaires employing shunted bi-pin lampholders. Shunted lampholders 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 of lamps with which the ballast is intended to be used, for example F40T12/IS. Contact the manufacturer for additional information.
- 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.
- Minimum compartment dimensions:

Model	Minimum Lamp Compartment Dimensions [Length x Width x Height][IN]	Maximum # of Lamps	Spacing between tube lamps, center to center
PLTP3A29	47.95 x 22.56 x 2.56in 1218 x 573 x 65mm	4	2.52in 64mm

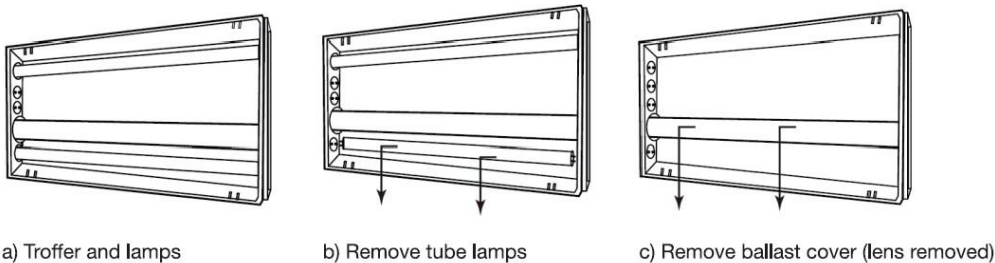


## Installation Instructions

1. Disconnect Power from Luminaire
  - a. Disconnect power from the AC main breaker panel. Ensure all power is off by using a voltmeter or other method to confirm.



2. Remove Existing Tube Lamp(s)
  - a. Remove troffer lens, if present.
  - b. Remove existing fluorescents by rotating one quarter turn and sliding lamp(s).
  - c. Remove the ballast wiring cover (cover may be secured with screws or tabs).



3. Retrofit the Luminaire
  - a. Bypass the ballast according to the appropriate wiring diagram (see Wiring Diagrams section), then reattach the ballast wiring cover.
4. Wattage & CCT Selection
  - a. Locate the sliding switches at each end. One controls the CCT and the other controls the wattage.
    - i. The CCT switch has 5 selections to choose from. The wattage switch has 3 selections to choose from.
  - b. Slide each switch to the desired settings
    - i. To prevent damage to the lamp, ensure the lamp is not energized while making selections or while switching between selections.



5. Insert the LED Tubes
  - a. If one of the “Single-ended power input” options is selected, read the labels on the LED tubes to identify the powered end then insert the LED lamp in the normal way by sliding the pins into the sockets and rotating a quarter turn until the LED tube locks into place.
  - b. The LED lamps are now fully installed.



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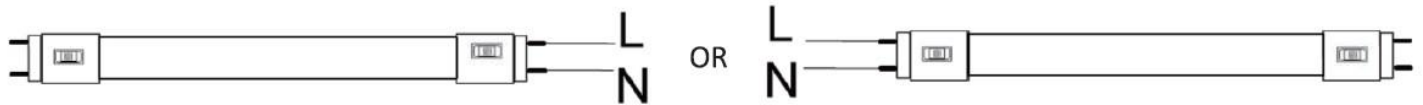
- c. Attach the modification sticker to an area where it is clearly visible during routine maintenance or relamping.
- d. Replace the troffer lens, if applicable.
- 6. Restore Power to the Luminaire
  - a. Restore power and test the light. If necessary, adjust the position of the LED tube(s).

### Wiring Diagrams

Connect two wires to branch circuit L and N according to the below figures:

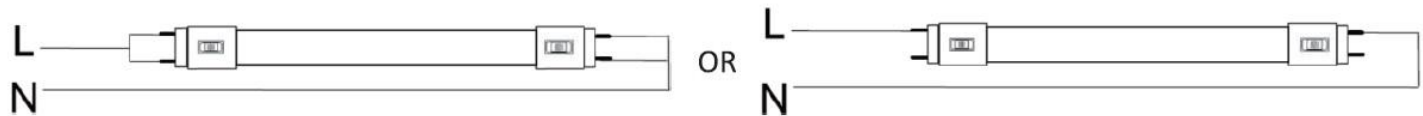
#### Case 1: Direct AC Wiring Diagram without Dimming

- 1. Single-ended Power Input



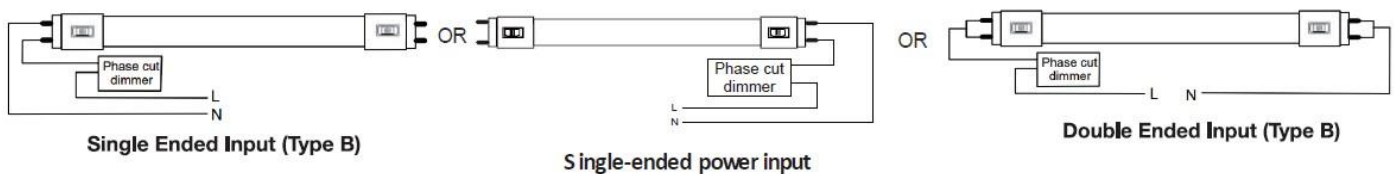
Input voltage: 120-277V 50/60Hz

- 2. Double-ended Power Input



Input voltage: 120-277V 50/60Hz

#### Case 2: Direct AC Wiring Diagram with Reverse Phase Dimming



Input voltage: AC 120-277V 50/60Hz

#### Note:

- Single-ended wiring: Use non-shunted lamp holders that are in good condition.
- Double-ended wiring: Use non-shunted or shunted lamp holders that are in good condition.

### Dimmer Compatibility List

Brand	Model Number
LUTRON	DVELV-300P
LUTRON	DVELV-303P
LUTRON	MAELV-600



## Cleaning & Maintenance

**CAUTION:** Be sure the fixture temperature is cool enough to touch. Do NOT clean or maintain while the fixture is energized.

1. Clean lens with non-abrasive cleaning solution.
2. Do NOT open fixture to clean the LED. Do NOT touch the LED.

## **⚠ 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.
- 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.