

REVERSE PHASE DIMMER COMPATIBILITY LIST

BRAND	MODEL NUMBER	BRAND	MODEL NUMBER
LUTRON	DVELV-300P-BR	LUTRON	DVELV-303P-WH
LUTRON	DVELV-300P-GR	LUTRON	MAELV-600-AL
LUTRON	DVELV-300P-IV	LUTRON	MAELV-600-BL
LUTRON	DVELV-300P-LA	LUTRON	MAELV-600-BR
LUTRON	DVELV-300P-WH	LUTRON	MAELV-600-GR
LUTRON	DVELV-303P-BR	LUTRON	MAELV-600-IV
LUTRON	DVELV-303P-GR	LUTRON	MAELV-600-LA
LUTRON	DVELV-303P-IV	LUTRON	MAELV-600-WH
LUTRON	DVELV-303P-LA		

⚠ 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.
- Installation, service, and maintenance of luminaires should be performed by a qualified licensed electrician.
- 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.
- 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 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.
- La instalación, el servicio y el mantenimiento de las luminarias deben ser realizados por un electricista autorizado y calificado.
- 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.
- 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.



MultiTube™
POWER & CCT SELECTABLE 4 LED T8 TYPE B TUBE
SAFETY AND INSTALLATION INSTRUCTIONS

WARNING

- 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.
- This LED retrofit installation requires knowledge of luminaires and electrical systems. If not qualified, do not attempt the installation and contact a qualified electrician.
- 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.
- When using single-ended power input: To avoid potential fire or shock hazard, do not use this lamp in luminaires employing shunted bi-pin lamp holders. 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. Contact the manufacturer for additional information.
- In this Type B (ballast bypass) installation, the luminaire will no longer operate fluorescent lamps after the removal of the electronic ballast.
- Only use the control provided with or specified by these instructions to control this lamp. This lamp will not operate properly when connected to a standard (incandescent) dimmer or dimming control.

CAUTION

- 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.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during lamp installation.
- To prevent wire damage or abrasion, do not expose the wires to the edges of sheet metal or other sharp objects.
- 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.
- 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.

NOTICE

- 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.

SAFETY INSTRUCTIONS: Read instructions carefully before attempting to install in fixture.

- **WARNING:** Risk of fire or electric shock. LED tube installation requires knowledge of luminaires electrical systems. If not qualified, do NOT attempt installation. All wiring should be performed by a qualified electrician.

- **WARNING:** Disconnect power before installing or servicing. This fixture must be wired in accordance with the National Electrical Code and applicable local codes and ordinances.
- **WARNING:** Make certain power is OFF before installing or maintaining fixture. No user serviceable parts inside.
- **WARNING: ONLY** compatible with DIMMER COMPATIBILITY LIST
- **WARNING:** Disconnect the power to avoid shock when the equipment is wet.
- **WARNING:** When the tube is installed as Type B (bypass), the fixture will no longer operate fluorescent lamps.
- **WARNING:** Install this kit only in luminaires that have the construction features and dimensions shown in the photographs and/or drawings and where the input rating of the retrofit kit does not exceed the input rating of the luminaire.
- **WARNING:** Do NOT make or alter any open holes in an enclosure of wiring or electrical components during kit installation.
- **WARNING:** To prevent wiring damage or abrasion, do NOT expose wiring to edges of sheet metal or other sharp objects.
- **WARNING:** This LED tube is accepted as a component of a luminaire where the suitability of the combination shall be determined by authorities having jurisdiction.

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.

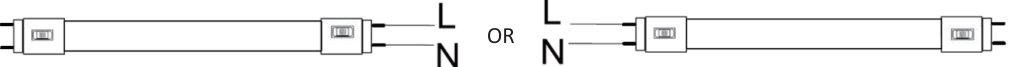
Note: These instructions do not cover all details or variation in equipment, nor do they provide for every possible situation during installation, operation or maintenance.

WIRING DIAGRAM

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

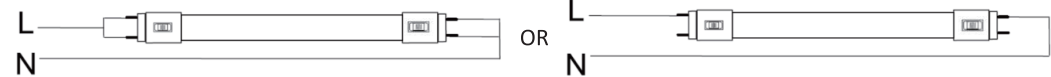
Case 1: Direct AC wiring diagram without dimming

1. Single-ended power input



Input voltage: 120-277V 50/60Hz

2. Double-ended power input



Input voltage: 120-277V 50/60Hz

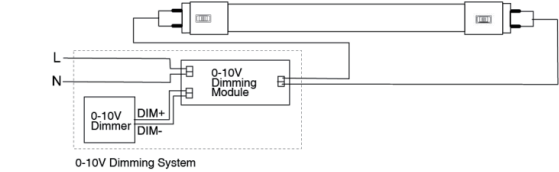
Case 2: Direct AC wiring diagram with reverse phase dimming



Single Ended Input (Type B)

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

Case 3: Direct AC wiring diagram with 0-10V dimming system



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

Important Notes:

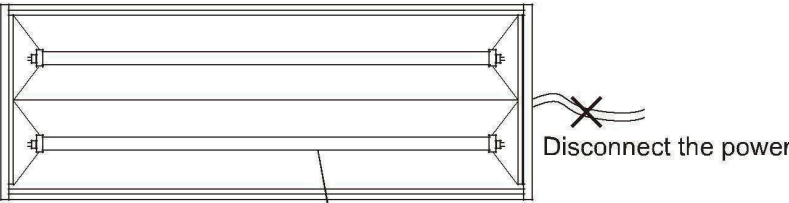
- For single-ended wiring installation of tubes, un-shunted lamp holders must be used.
- For double-ended wiring installation, it is not needed to change the sockets /lamp holders (if in good condition) regardless of the type of sockets.

INSTALLATION GUIDE

Please completely comply with these instructions and notes to ensure that the product is operated in a safe condition. Important safety information - read all instructions before installation.

INSTRUCTIONS

1. DISCONNECT POWER OF LUMINAIRE

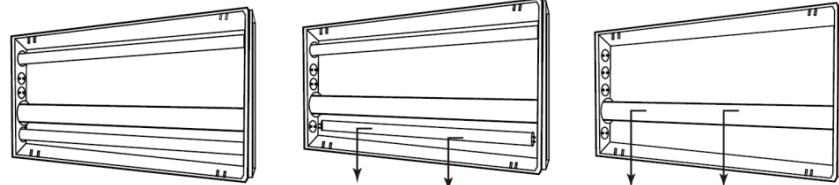


Luminaire Fluorescent to be replaced

Disconnect power to luminaire or circuit (if possible). 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 fluorescent by rotating one quarter turn and sliding lamp(s).
- c. Remove ballast cover. (Cover may be secured with screws or tabs).



a) Troffer and lamps

b) Remove tube lamps

c) Remove ballast cover (lens removed)

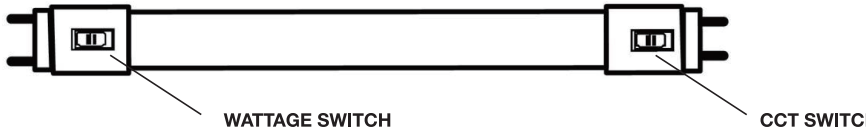
3. RETROFIT LUMINAIRE

Modify the circuit according to the wiring diagram

4. SELECT THE WATTAGE

Select the wattage through the wattage switch and the color (CCT) through another switch on the LED lamps base.

- Using the wattage selector switch or color (CCT) selector switch on the base, select the desired wattage or color (CCT)
- To prevent damage to lamp, lamp must not be energized when wattage selector switch or color (CCT) selector is changed.



WATTAGE SWITCH

CCT SWITCH

5. INSERT LED TUBES

- a. If one of the "Single-ended power input" options is selected, read the labels on the LED tube to identify the power end then insert LED lamp in the normal way by sliding pins into sockets and rotating a quarter turn until LED tube locks in place.
- b. LED lamps are now fully installed.
- c. Replace troffer lens, if present.
- d. After the modification is completed, attach the replacement marking and cautionary label to a visible place on the luminaire label (single or double-ended)

6. RESTORE THE POWER OF LUMINAIRE

Restore power to circuit/luminaire and test light. If necessary, adjust position of LED tube, and enjoy your new LED tube light.