



LED PL LAMP - HYBRID

WARNING, CAUTION, SAFETY AND INSTALLATION INSTRUCTIONS

WARNING

- Installation, service, and maintenance of luminaires should be performed by a qualified licensed electrician.
- Read these instructions carefully before installing these lamps. Also keep these instructions for future reference.
- Do not use if product is damaged.

CAUTION

- LED retrofit kit installation requires knowledge of luminaire electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician. Installation should be performed only by a qualified electrician in accordance with the National Electrical Code and all relevant federal, state, and municipal codes.
- Install this kit only in the 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.
- Not intended for use with emergency exit fixtures or emergency exit lights.
- This lamp is non-dimmable. Not for use with dimmers.
- Risk of fire or electric shock. Do not open or modify. No user serviceable parts inside.
- This item is rated at 120-277V. The installer must determine whether line voltage 120-277V is available at the luminaire before installation.
- Installers should examine all parts that are not intended to be replaced by the retrofit kit for damage and replace any damaged parts prior to installation of the retrofit kit.
- Do not make or alter any open holes in the wiring enclosure or electrical components during installation.
- TYPE A LAMP - Intended for direct substitution of a fluorescent lamp and operating from the integral ballast without any modifications to the fluorescent luminaire.
- TYPE B LAMP – Intended for operation in luminaires with traditional fluorescent-type lampholders wired directly to the branch circuit. This includes both factory-wired luminaires as well as those converted for this purpose under a retrofit program.
- SUITABLE FOR “TYPE NON-IC” RECESSED LUMINAIRES WITHOUT DIFFUSER.
- THIS LAMP ONLY OPERATES ON MAGNETIC BALLASTS. IF LAMP DOES NOT LIGHT WHEN THE LUMINAIRE IS ENERGIZED, REMOVE LAMP FROM LUMINAIRE AND CONTACT LAMP MANUFACTURER OR QUALIFIED ELECTRICIAN.
- IF THE LAMP OR LUMINAIRE EXHIBITS UNDESIRABLE OPERATION (BUZZING, FLICKERING, ETC.), IMMEDIATELY TURN OFF POWER, REMOVE LAMP FROM LUMINAIRE AND CONTACT THE 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.
- 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.
- 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. For more information, contact the LED luminaire retrofit kit manufacturer.



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- 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. PRODUCT MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN IN ACCORDANCE WITH THE APPLICABLE AND APPROPRIATE ELECTRICAL CODES. THE INSTALLATION GUIDE DOES NOT SUPERSEDE LOCAL OR NATIONAL REGULATIONS FOR ELECTRICAL INSTALLATIONS.
- DO NOT INSTALL THIS LAMP IN A PRE-HEATED LUMINAIRE.
- MAXIMUM OF 12 AWG THROUGH BRANCH CIRCUIT CONDUCTOR SUITABLE FOR 60°C PERMITTED IN BOX.
- The products are intended to retrofit surface mounted, Type non-IC recessed mount Listed luminaires without a diffuser, with instructions to remove the existing trim. The minimum lamp compartment dimensions are tabulated below:

Product Number		PLT-20326, PLT-20327 PLT-20328, PLT-20329
Lamp compartment of Luminaire, overall dimensions, in.	Height	6.1
	Diameter	7.87
Maximum Lamps in Luminaire		1
Lampholder-to-Lampholder Spacing (in.)		N/A

NOTICE

- Suitable for damp locations. Not for use where directly exposed to weather or water.
- NOT FOR USE IN TOTALLY ENCLOSED LUMINAIRES. Maximum ambient temperature must not exceed 45°C(113°F).

Installation Instructions

1. Read all WARNINGS before continuing with installation.
2. Ensure fixture is 120-277V.
3. Make sure POWER IS TURNED OFF AT THE AC MAIN POWER SOURCE OR ELECTRIC PANEL.
4. Remove the lens or cover, then remove the fluorescent lamp.
5. Before wiring, check the ballast compatibility then refer to the Compartment Dimensions chart (above) and Wiring Diagrams 1, 2, or 3 (see Wiring Diagrams section).
6. If the fixture does not have a ballast, refer to Wiring Diagram 1.
7. If the fixture has an electronic ballast, refer to Wiring Diagram 2.
8. If the fixture has a magnetic ballast, refer to Wiring Diagram 3.
9. Ensure the power input pin(s) on the lamp align with the corresponding powered contacts in the wired lamp holder, then insert the lamp into the holder.
10. If modifications were made, ensure the "Modified Sticker" is visibly affixed to the fixture, and if applicable, reinstall the housing cover or lens.
11. Turn power back on. Installation is complete.



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Wiring Diagrams

Diagram 1: Fixture w/ No Ballast

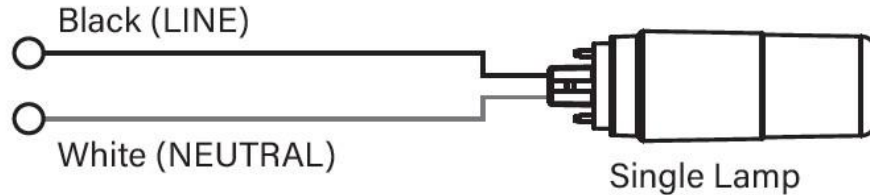
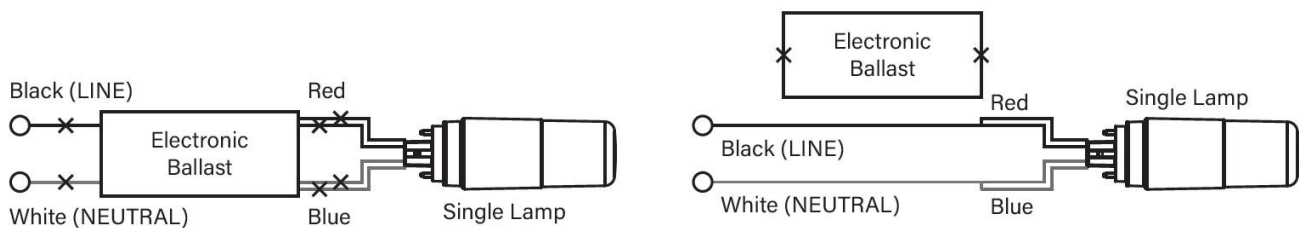


Diagram 2: Fixture w/ Electronic Ballast

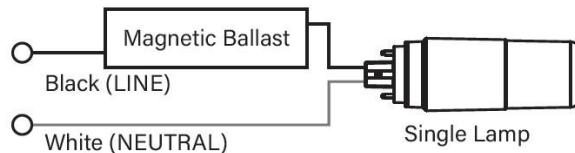


Cut all wires connected to the ballast, remove the ballast



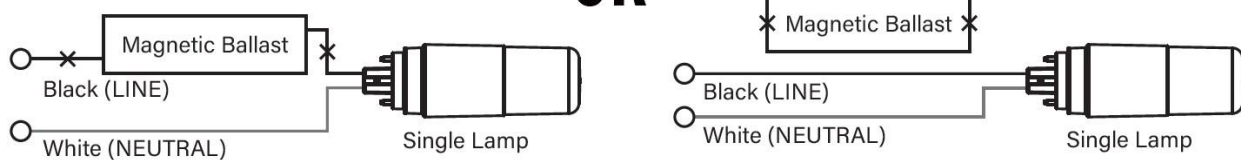
Rewire power source directly to wires leading to lampholders

Diagram 3: Fixture w/ Magnetic Ballast



When used with a magnetic ballast, the PL can function as plug & play lamp and operate with the existing ballast.

OR



If the ballast is not compatible, cut all wires connected to the ballast, remove the ballast



Rewire power source directly to wires leading to lampholders

Magnetic Ballast Compatibility List

This ballast compatibility chart is for guidance when selecting a ballast and lamp combination. Lamps were tested for compatibility with the below listed ballasts. Ballasts that do not appear on the chart might still be compatible but have not been tested. All testing has been performed with a stable main supply. The quality of the local main, existing installation and wiring, as well as different manufacturer versions of the below ballasts may affect lamp performance.



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Since no assurance can be provided regarding these factors, it is a general recommendation to perform a test on-site prior to installing the LED lamps. Subject to change without notice.

5W LED PL Lamp

BALLAST/DRIVER BRAND	PART #	START METHOD	1 LAMP		2 LAMPS	
			120 VAC	277 VAC	120 VAC	277 VAC
Philips-Advance	FCF-7/9-TP	PH	Y	Y	NA	NA
Philips-Advance	LPL-59-TP-I	PH	Y	Y	NA	NA

7W LED PL Lamp

BALLAST/DRIVER BRAND	PART #	START METHOD	1 LAMP		2 LAMPS	
			120 VAC	277 VAC	120 VAC	277 VAC
Keystone	CC1322MTP	PH	Y	N	NA	NA
Sola	FCF-13-TP	PH	Y	N	NA	NA
Philips-Advance	LC-13-TP	PH	Y	N	NA	NA
Philips-Advance	LO-13-22	PH	Y	N	NA	NA
Robertson	S1P(3P10083)	PH	Y	N	NA	NA

FCC Warning

- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on. The user is encouraged to try to correct the interference by one or more of the following measures:
 - Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help

⚠ 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.



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- 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.