

General Information

- Models were only evaluated for installation intended to replace a fluorescent lamp where it is necessary to modify the luminaire.
 - These LED Tube Lamps are intended to retrofit maximum four lamps, surface mount, or Type IC recessed mount fluorescent luminaires that use straight tubular lamps.
 - These lamps should be installed by a licensed electrician.
 - These lamps work on line voltage and require all ballasts to be removed before the lamp is to be installed in the luminaire.
 - These lamps are to be used in indoor dry or damp location only. Not suitable for wet location luminaire.
 - Some lamps are not to be used with a light dimmer. The starters need to be bypassed. *(Items labeled dimmable can be used with dimming devices).*
- Always contact ground lead to luminaire where applicable.



ORDERING

ITEM#	DESCRIPTION	BULB	WATT	CHIP	COLOR	LUMENS	CRI	VOLT	BASE	HOURS	CASE
90679	LED 220 3' 14WT10/4100K/NATURAL BRITE/CLEAR - SL®	T10	14	SMD	4100K	1400	75	110-277V	MED BI PIN	50,000	25
90692	LED 290 4' 18WT10/CL/30K/120V/DIMMABLE - SL®	T10	18	SMD	3000K	1650	75	120V	MED BI PIN	50,000	25
90688	LED 290 4' 18WT10/CL/40K/120V/DIMMABLE - SL®	T10	18	SMD	4000K	1650	75	120V	MED BI PIN	50,000	25
90632	LED 290 4' 18WT10/5500K/CLEAR/VITA-BRITE®	T10	18	SMD	5500K	1960	75	110-277V	MED BI PIN	50,000	25
90639	LED 290 4' 18WT10/5500K/CLEAR/VITA-BRITE® - DIMMABLE	T10	18	SMD	5500K	1960	75	110-277V	MED BI PIN	50,000	25
90640	LED 350 5' 22WT10/4100K/NATURAL BRITE/CLEAR	T10	22	SMD	4100K	2300	72	110-277V	MED BI PIN	50,000	25
90648	LED 350 5' 22WT10/5500K/CLEAR/VITA-BRITE®	T10	22	SMD	5500K	2300	72	110-277V	MED BI PIN	50,000	25
90643	LED 580 8' 36WT10/4100K/NATURAL BRITE/CLEAR	T10	36	SMD	4100K	3920	70	110-277V	SINGLE PIN	50,000	25

NOTE: Due to multiple input voltage integrated circuits, some items are not compatible with dimming devices. These items may not be compatible with all electronic transformers

Key: SL = Superior Life®

WARNINGS



WARNING DO NOT OPEN: To reduce the risk of electrical shock, do not remove cover and caps No user-serviceable parts inside. Refer servicing to qualified service personnel.



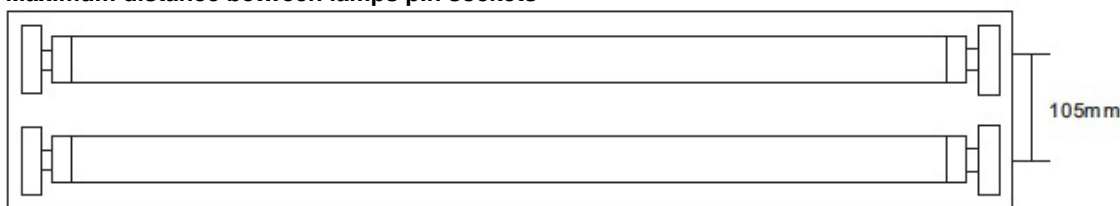
WARNING: To reduce the risk of fire or electrical shock, do not expose this apparatus to rain or moisture luminaire conversion, retrofit.

FOR USE ONLY WITH FLUORESCENT LUMINAIRES IDENTIFIED IN MANUFACTURER' S INSTRUCTIONS

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.

These lamps can be used in any standard T8 or T10 lamp luminaire, allowing for it's minimum spacing requirements

Maximum distance between lamps pin sockets



WARNINGS

WARNING: Risk of fire or electric shock. Retrofit kit installation requires knowledge of fluorescent lighting luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.

WARNING: Risk of fire or electric shock. The electrical rating of this product is AC100V-277V, the installer must determine whether they have AC100V-277V at the luminaire before installation.

WARNING: Risk of fire or electric shock. Install this kit only in the luminaires that have the construction features and dimensions shown in the drawings.

WARNING: Risk of fire or electric shock. Luminaires wiring, ballasts, or other electrical parts may be damaged when drilling for installation of retrofit kit hardware. Check for enclosed wiring and components.

WARNING: To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.

WARNING: THE RETROFIT ASSEMBLY IS ACCEPTED AS A COMPONENT OF A FLUORESCENT LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY CSA OR AUTHORITIES HAVING JURISDICTION.

WARNING: Risk of fire or shock. 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.

IMPORTANT SAFETY INSTRUCTIONS

- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.
- Not for use with dimmers; unless labeled dimmable.
- The end retrofit luminaire has been modified and can no longer operate the originally intended lamp.
- Caution-Risk of Electric Shock-Use in Dry and Damp Locations Only.
- Risk of Electric shock-Do Not Use Where Directly Exposed To Water.
- This device is not intended for use with emergency exit fixtures or emergency exit lights.

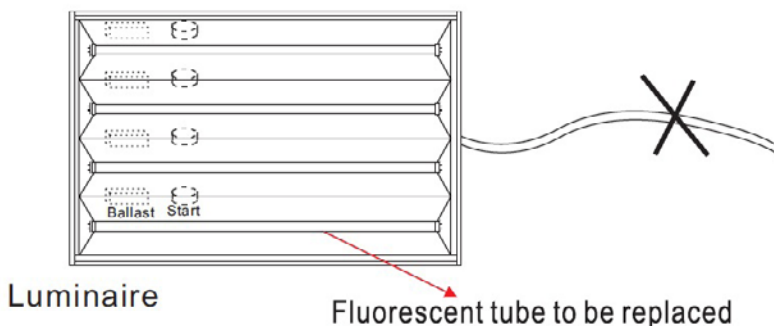


DANGER-RISK OF SHOCK-DISCONNECT POWER BEFORE INSTALLATION



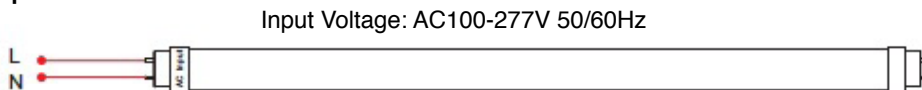
INSTALL INSTRUCTIONS

1 Switch off power supply BEFORE COMMENCING WORK



2 Luminaire Retrofit Steps

1) Principle of wire circuit



Note: 4' 18WT10 Must be installed using un-shunted sockets Part# 210-13661-SNP

2) Retrofit Steps

Switch off power supply BEFORE COMMENCING WORK

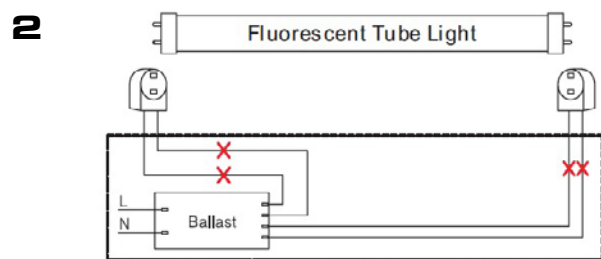
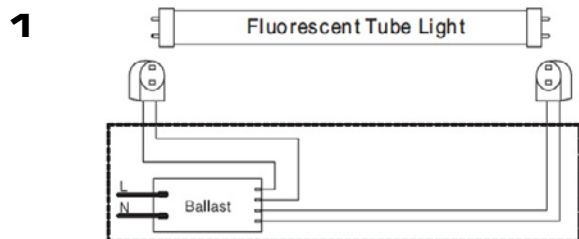
- 1) Choose wires connect method from A, B, C, D options according to the ballast and luminaire type.
- 2) Use the electric rubberized fabric or pressing wire cap to encase all the power supply cord parts which were cut off, especially the end sides of power supply cord.
- 3) Affix included warning labels to fixtures near lamp connection/sockets of fixture so they are visible to bulb installers.
- 4) Install LED tube Lighting.
- 5) Switch on power.



INSTALL INSTRUCTIONS

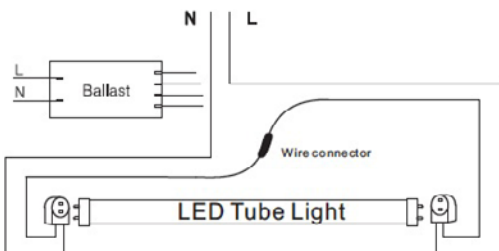
A. Retrofit Luminaire with Electronic Ballast

Two methods for wiring: **Wiring Method 1** and **Wiring Method 2**.



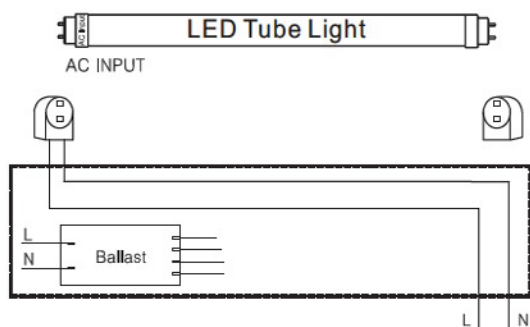
Remove diffuser (if applicable) and fluorescent lamp.
Cut all wires which connected to ballast.

3A Wiring Method 1 Installing the LED tube into the fixture with both sockets live.



OR

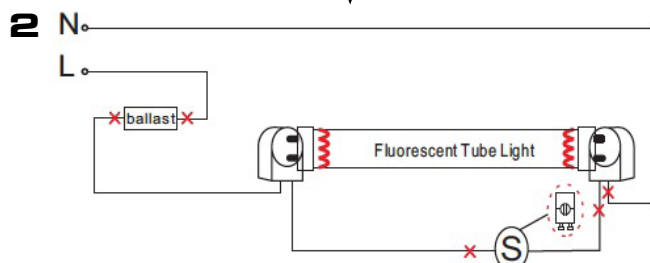
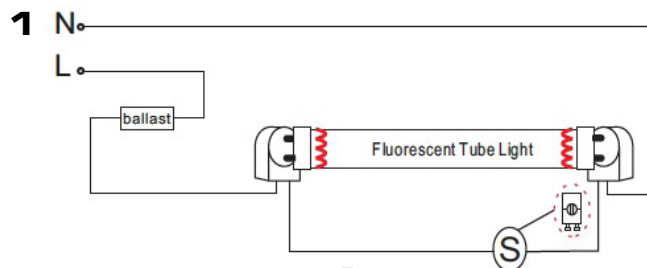
3B Wiring Method 2 Connecting the side with "AC Input" label into the holder with "L" & "N" wires. The tube will not be damaged if installed in reverse.



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

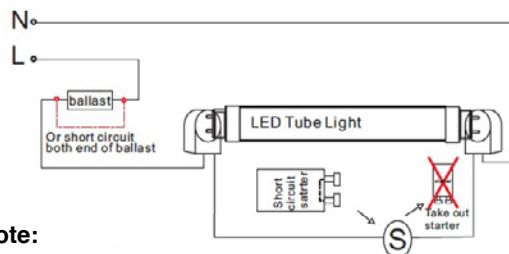
B. Retrofit Luminaire with Magnetic Ballast

Two methods for wiring: **Wiring Method 1** and **Wiring Method 2**.



Remove diffuser (if applicable) and fluorescent lamp.
Cut all wires which connected to ballast.

3A Wiring Method 1 Installing the LED tube into the fixture with both sockets live.

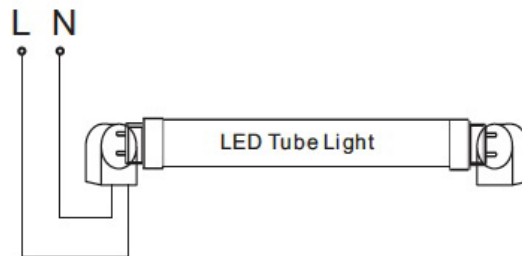


Note:

1. Must remove starter
2. Install short circuit starter

OR

3B Wiring Method 2 Connecting the side with "AC Input" label into the holder with "L" & "N" wires. The tube will not be damaged if installed in reverse.



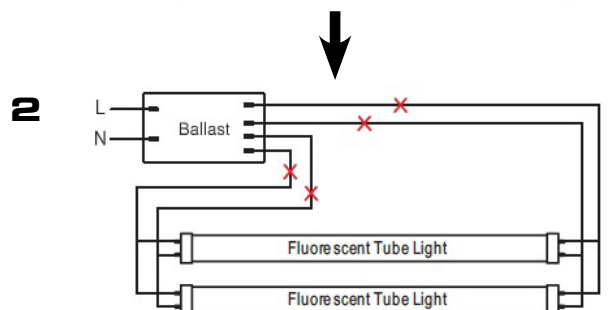
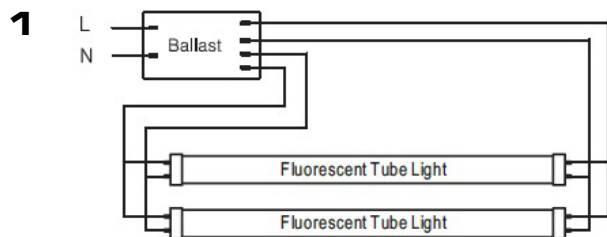
Connect two wires to branch circuit L and N according to the figure above.



INSTALL INSTRUCTIONS

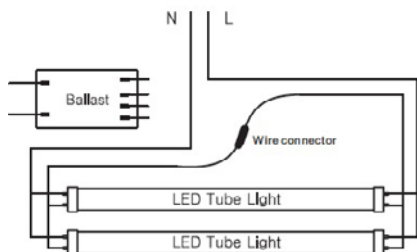
C. Retrofit with Two Lamps/One Ballast

Two methods for wiring: **Wiring Method 1** and **Wiring Method 2**.



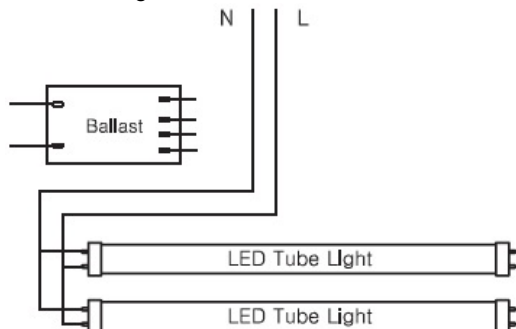
Remove diffuser (if applicable) and fluorescent lamp.
Cut all wires which connected to ballast.

3A Wiring Method 1 Installing the LED tube into the fixture with both sockets live.



OR

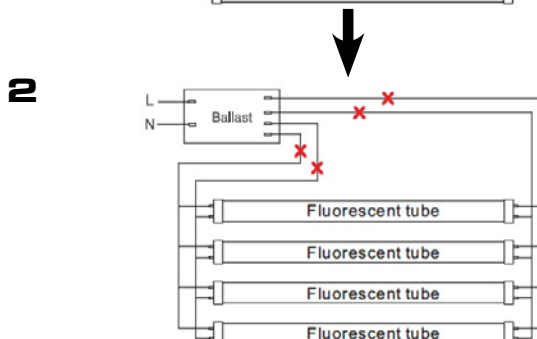
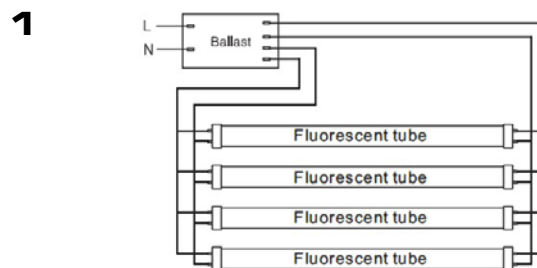
3B Wiring Method 2 Connecting the side with "AC Input" label into the holder with "L" & "N" wires. The tube will not be damaged if installed in reverse.



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

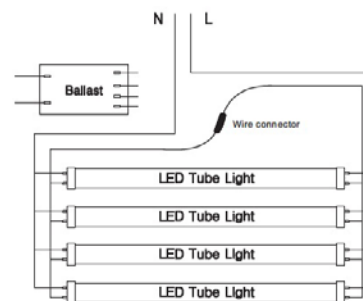
D. Retrofit with 4 Lamps/One Ballast

Two methods for wiring: **Wiring Method 1** and **Wiring Method 2**.



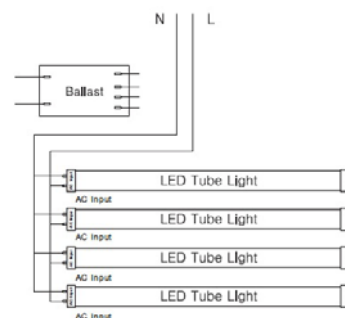
Remove diffuser (if applicable) and fluorescent lamp.
Cut all wires which connected to ballast.

3A Wiring Method 1 Installing the LED tube into the fixture with both sockets live.



OR

3B Wiring Method 2 Connecting the side with "AC Input" label into the holder with "L" & "N" wires. The tube will not be damaged if installed in reverse.

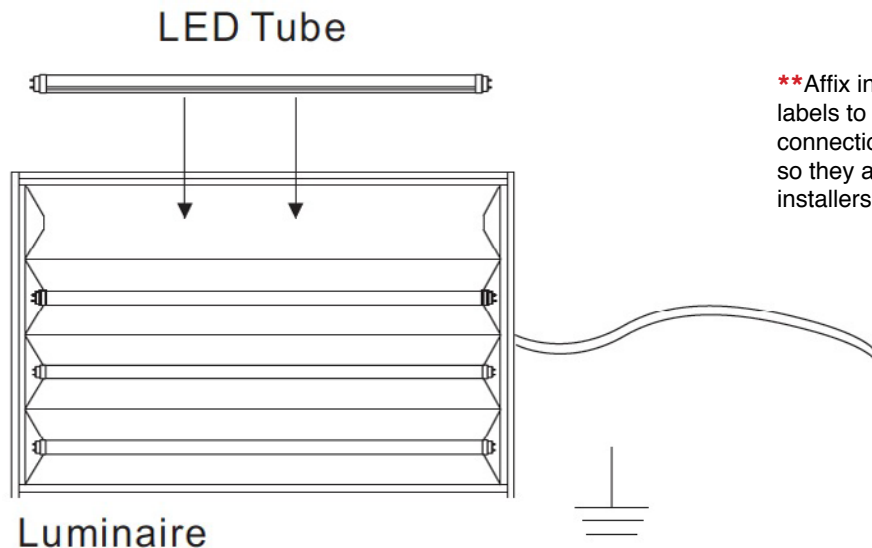


Connect two wires to branch circuit L and N according to the figure above.



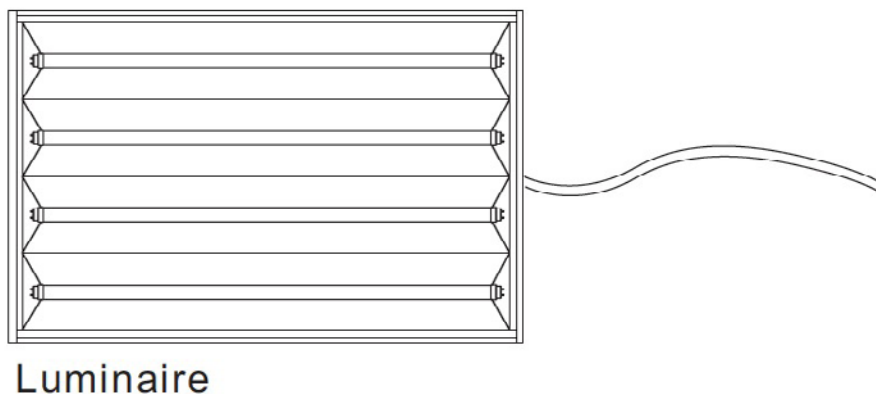
INSTALL INSTRUCTIONS

3. Install LED tube and Earth (Ground)

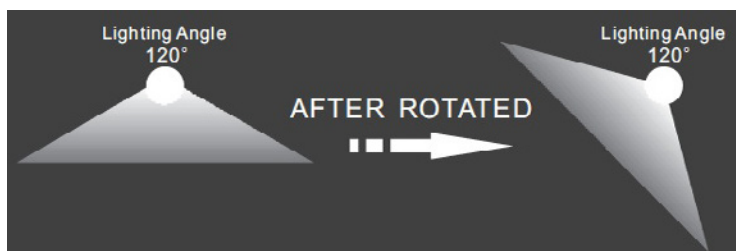
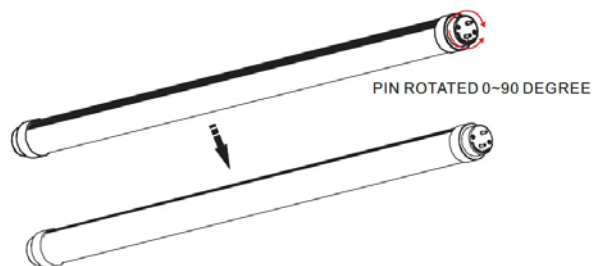


Ballast and Starter must be removed per instructions in step "2 Luminaire Retrofit Steps"

4. Connect to power



5. Pin Rotated 0-90 degree



This luminaire has been modified and no longer operates Fluorescent Lamps.

