

# INSTRUCTIONS

## LED T8U Tube Series - Hybrid



RAB Lighting is committed to creating high-quality, affordable, well-designed and energy-efficient LED lighting and controls that make it easy for electricians to install and end users to save energy. We'd love to hear your comments. Please call the Marketing Department at 888-RAB-1000 or email: [marketing@rablighting.com](mailto:marketing@rablighting.com)

T8-U6G-SD-HYB



T8-U1G-SD-HYB



### IMPORTANT

#### **READ CAREFULLY BEFORE INSTALLING FIXTURE. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.**

RAB LED tube must be wired in accordance with the National Electrical Code and all applicable local codes. Proper grounding is required for safety. 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.

#### **WARNINGS:**

**WARNING - Risk of fire or electric shock.** LED Retrofit Kit installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.

**WARNING - Risk of fire or electric shock.** 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.

**WARNING – RISK OF FIRE OR ELECTRIC SHOCK.** INSTALLATION OF THIS RETROFIT ASSEMBLY REQUIRES A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE LUMINAIRE'S ELECTRICAL SYSTEM AND THE HAZARD INVOLVED. IF NOT QUALIFIED, DO NOT ATTEMPT INSTALLATION. CONTACT A QUALIFIED ELECTRICIAN.

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

**CAUTION - RISK OF ELECTRIC SHOCK.** Do not use if outer lamp envelope is damaged or broken.

Installers should not disconnect existing wires from lampholder terminals to make new connections at lampholder terminals. Instead installers should cut existing lampholder leads away from the lampholder and make new electrical connections to lampholder lead wires by employing applicable connectors.

Do not make or alter any open holes in an enclosure of wiring or electrical components during kit 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.

**WARNING:** To avoid potential fire or shock hazard, do not use this retrofit kit in luminaires employing shunted bi-pin lampholders when the lamp is energized at the single end. 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.

THIS RETROFIT KIT IS ACCEPTED AS A COMPONENT OF A LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY 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.

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.

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Type A LAMP - intended for direct substitution of a fluorescent lamp and operating from the integral ballast without any modifications to the fluorescent luminaire.

CAUTION - RISK OF FIRE. IF THE LAMP OR LUMINAIRE EXHIBITS UNDESIRABLE OPERATION (BUZZING, FLICKERING, ETC. ), IMMEDIATELY TURN OFF POWER, REMOVE LAMP FROM LUMINAIRE AND CONTACT MANUFACTURER.

DO NOT INSTALL THIS LAMP IN A PRE-HEAT LUMINAIRE.

THIS LAMP ONLY OPERATES ON ELECTRONIC BALLASTS. IF LAMP DOES NOT LIGHT WHEN THE LUMINAIRE IS ENERGIZED, REMOVE LAMP FROM LUMINAIRE AND CONTACT LAMP MANUFACTURER OR QUALIFIED ELECTRICIAN

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.

### SAFETY INFORMATION:

For the safety of you and others, be sure to thoroughly review these instructions before installation:

- (1) Switch off the power supply before commencing work and be sure that the correct connections have been made before powering on
- (2) NOT FOR USE WITH EMERGENCY LIGHTING
- (3) 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. This lamp can be dimmed with specified dimmer(s), for more information contact RAB Lighting.
- (4) This lamp may not be compatible with all dimmers, for more information, please contact RAB Lighting.

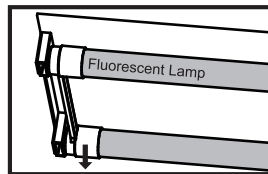
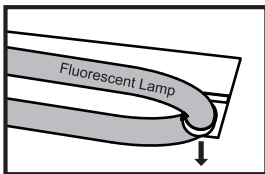
## DIRECT REPLACEMENT

### INSTALLATION INSTRUCTIONS

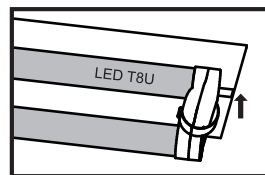
1) Make sure power is OFF.

2) Remove lens or diffuser (if applicable)

3) Remove existing fluorescent lamps from the luminaire.



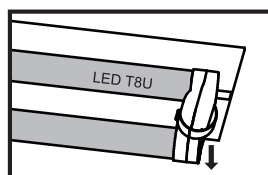
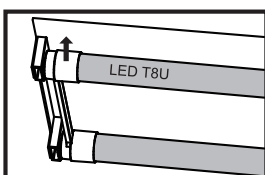
5) Place the lamp support clip (purchase separately) on the opposite end of the lamp and secure into the metal hook of the luminaire.



6) Place lens or diffuser back in place (if applicable)

7) Power ON.

4) Bring the LED lamp to the luminaire. Align the tube's pins with the installed lampholders and hold in place.



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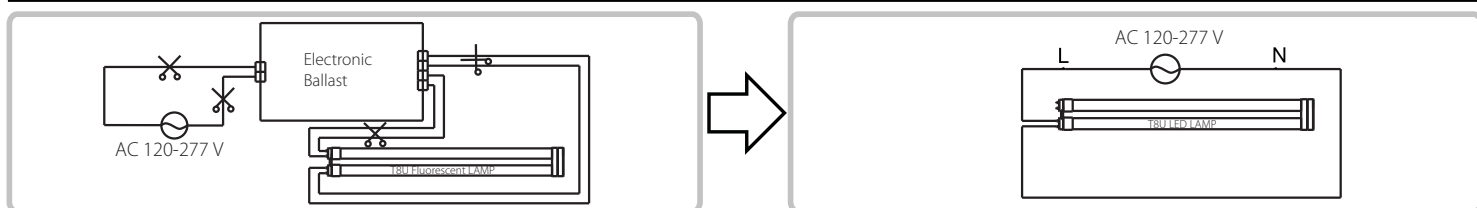
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### BALLAST BYPASS

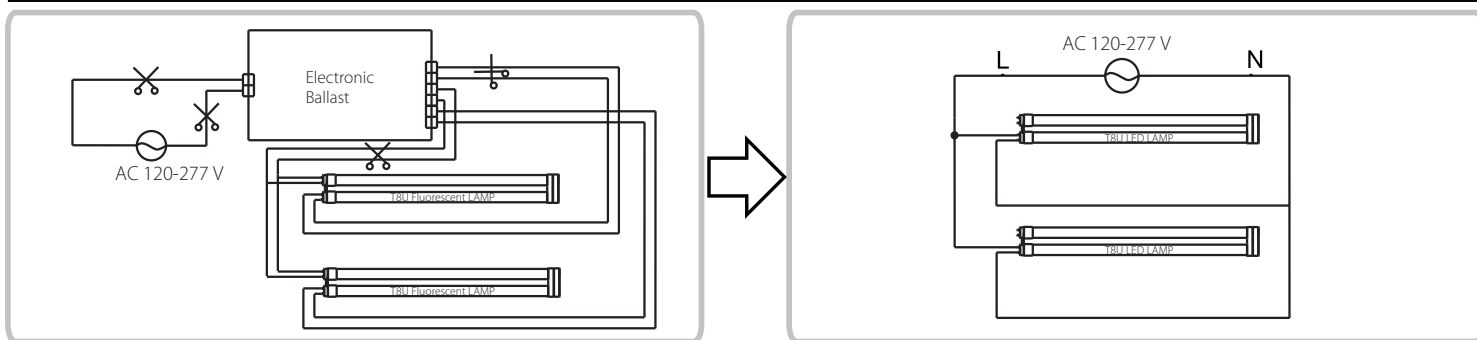
⚠ The below ballast wiring represents typical configuration. The actual ballast wiring varies according to ballast model. The socket should be non-shunted.

#### Single ended Wiring Instruction

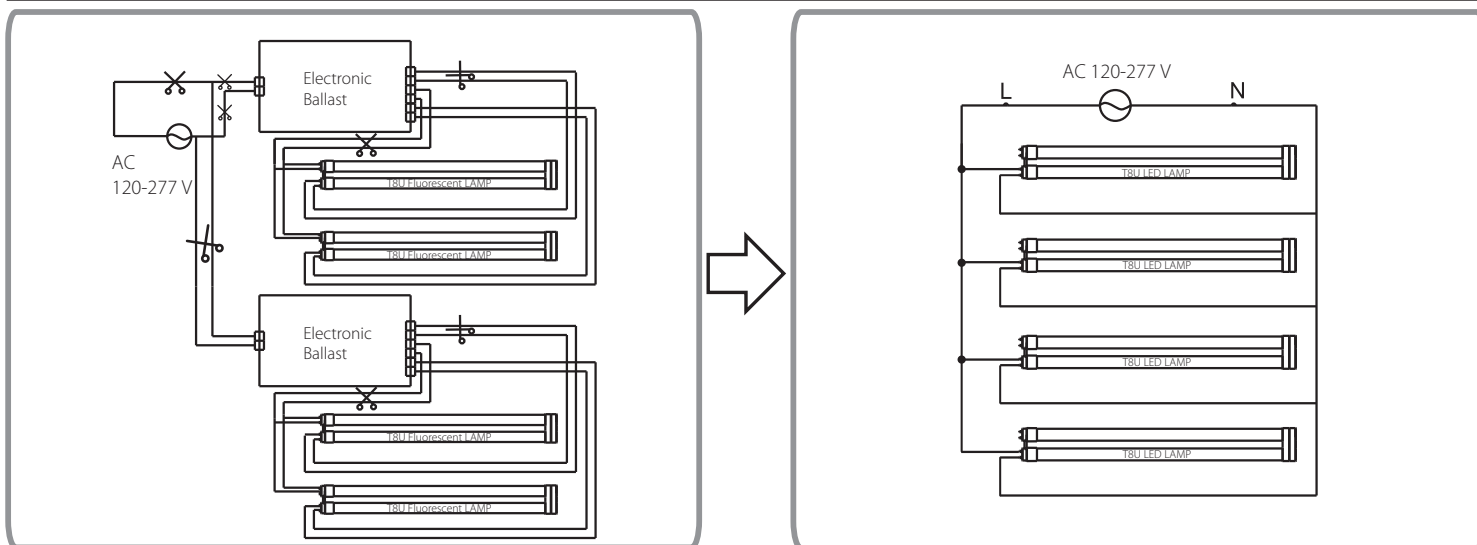
##### Retrofit luminaire with 1 lamp



##### Retrofit luminaire with 2 lamps



##### Retrofit luminaire with 4 lamps



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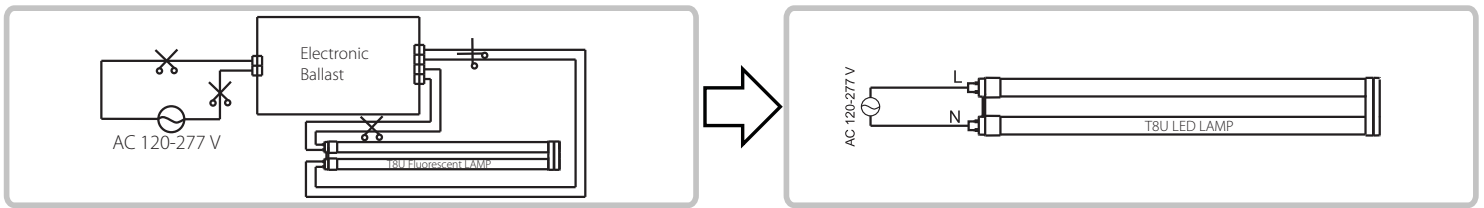


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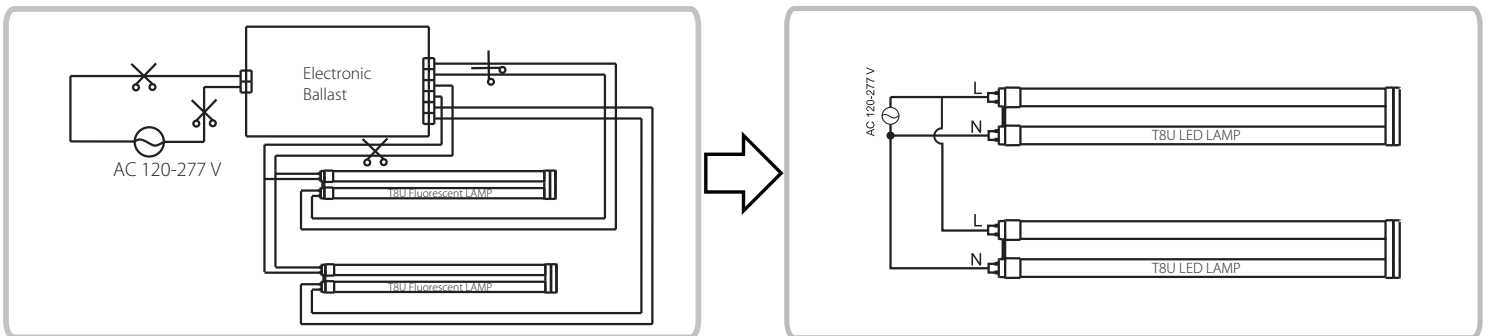
⚠ The below ballast wiring represents typical configuration. The actual ballast wiring varies according to ballast model. It is not needed to change socket (if in good condition) to operate double ended lamps, regardless the type of sockets. Please make sure one side of fixture is connected to Live (L) and the other side to Neutral (N).

### Double ended Wiring Instruction

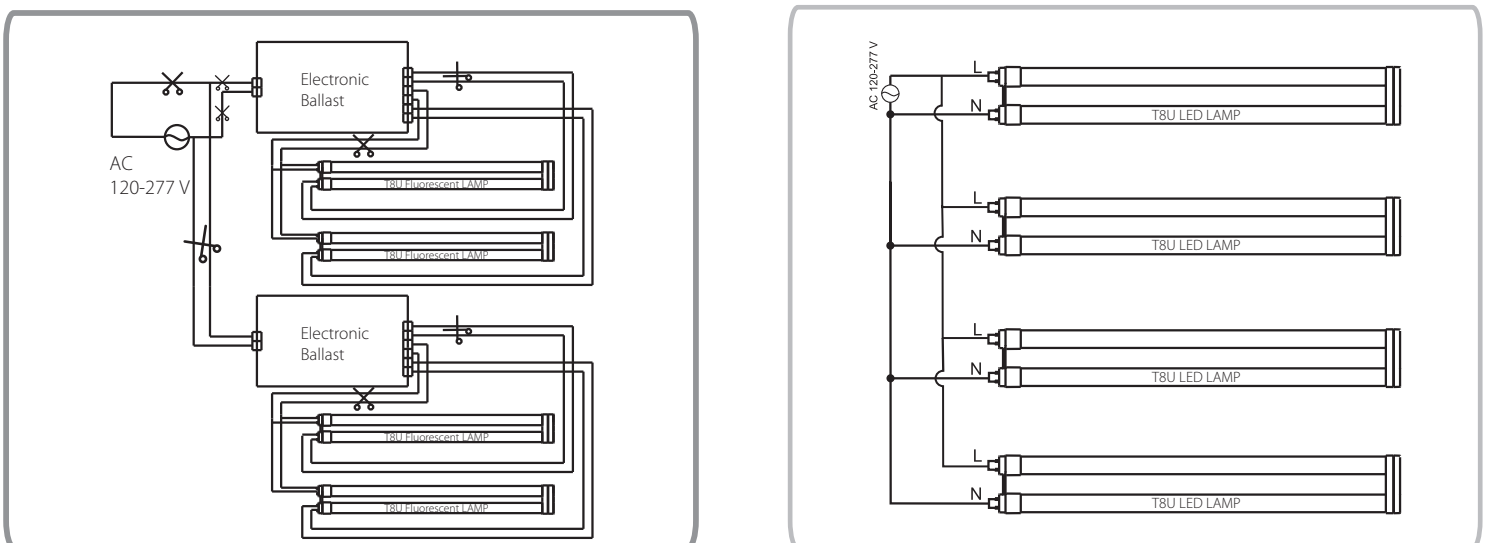
#### Retrofit luminaire with 1 lamp



#### Retrofit luminaire with 2 lamps



#### Retrofit luminaire with 4 lamps



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### PRODUCT NOTES

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The units covered by this report were intended to retrofit surface mount, Type IC or non-IC recessed mount listed fluorescent luminaires that use a maximum of 4 tubular lamps. The minimum lamp compartment dimensions are listed below:

Model Name	Minimum Lamp Compartment Dimensions (Length x Width x Height)	Lamp Qty.
T10291(T8-U1G-SD-HYB) T10290(T8-U6G-SD-HYB)	47 5/8 x 20 7/8 x 3 15/16 (inch)	4



T8USDHBY-IN-0124

#### Easy Answers

[rablighting.com](http://rablighting.com)  
Visit our website for product info

**Tech Help Line**  
Call our experts: 888 722-1000

**e-mail**  
Answered promptly - [sales@rablighting.com](mailto:sales@rablighting.com)

**Free Lighting Layouts**  
Answered online or by request

*RAB WARRANTY: RAB's warranty is subject to all terms and conditions found at [rablighting.com/warranty](http://rablighting.com/warranty).*