



## T8EM-48FR17-xxBYP-LED

Where xx means 840-850 which

### IMPORTANT

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

RAB lamps 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.

**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.

#### WARNINGS:

- 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.
- Risk of fire or electric shock. 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.
- To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- 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.”
- 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.

THE 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

#### CAUTION:

- 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.
- Disconnect power at the source before installation, inspection or removal. Do not simply switch off fixture.
  - This item is rated at 120-277V. Installer must determine whether line voltage 120-277V is available at the luminaire before installation.
  - Not intended for use with exit fixtures or exit lights.
  - Over 90 minutes back up working time with typical 400 lumen output
  - The battery in this device is not user serviceable. Refer service to manufacturer’s qualified personnel only. Do not incinerate”
  - Do not immerse the battery into the water or the sea, Guard against Damp
  - Do not approach the heat source, like fire or heater;
  - Do not discard the battery to the fire or hyperpyretic objects
  - Please use the battery in normal as follows, or it will be overheating, caught fire, reduced performance and shorten the life;

Environment condition

(T temperature) charging: 0~+40 C

Discharging: -20~+60 C

Storage within: -20 ~ +35 C

- Risk of fire or electric shock. Do not open or modify. No user serviceable parts inside.
- 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.
- SUITABLE FOR DAMP LOCATIONS. Not for use where directly exposed to the weather or water.
- SUITABLE FOR “TYPE IC” OR “TYPE NON-IC” LUMINAIRES.
- No external weight or mechanical force should be applied to tube or components.

## LED TUBE INSTALLATION GUIDE

- 1) Disconnect power to the fixture.
- 2) Remove existing fluorescent tubes.
- 3) Remove ballast cover.
- 4) Cut all the wires to ballast. Note: Ballast must be retained in place.
- 5) Remove existing lamp holders.
- 6) Install the non-shunted lamp holders provided with the Battery LED T8 lamp retrofit kit into the fixture: Refer to wiring diagram in Diagram 1.
- 7) Reinstall the ballast cover.
- 8) IMPORTANT: Turn on a battery connection switch near the endcap (see Diagram 3).  
The battery connection switch comes with a default “off” to prevent the built-in battery from being depleted and damaged. The lamp may be lighted in a dimmed light level powered by the built-in battery.
- 9) Install the lamp in the lamp holders(Diagram 2),the lamp will have to be rotated to receive power.
- 10) Adhere the attached notice label to the reflector of the luminaire.
- 11) The lamp should be lighted at full power. The green LED should be on to indicate normal AC MAINS exist.
- 12) Regulatory compliance tests: Allow the lamp on the fixture for 24 hours with standard MAINS on. Turn off both the breaker 1 and the breaker 2 and observe the Battery LED T8 lamps under test to determine if they work for a 90-minute (monthly) testing period. The green LED will be off. If any of the lamps are not lighted during the test period, contact MANUFACTURER to replace the lamps. Written records documenting the testing must be maintained and available for review by local fire departments.
- 13) Indicator working status (see Diagram 4).

Model Number	Input Ratings				Lamp Length	LED lamps tested in Luminaire	Minimum Luminaire Dimension with Max. No. of tubes Length x Width x Height (cm)	Lamp Holder -to- Lamp Holder Spacing (cm)
	V	Hz	A	W				
T8EM-48FR15-xxBYP-LED	120-277	50/60	0.16	17(with battery fully charged)	48 inch	4	121 x 61 x 5	11
			0.18	21(with battery in charging)				

Diagram 1



Diagram 2



Diagram 3



Diagram 4

