

# I38i T8 LED Tube Lamp



## USER INFORMATION



### NOTE:

The iBright™ series includes three models with different sets of requirements for power consumption. The purpose of this user guide is to explain the necessary steps for safe usage of the product, and to assure peak performance of said product. It is intended for use as reference by a fully qualified electrician or technician. This document should never be considered a substitute for any provision of a regulation or state and/or local code.

Please read this entire manual to fully understand and safely use this product. Specifications are subject to change without notice.

## GETTING STARTED

This guide contains important information about installing and operating the product safely and optimally.

### Included in this Box

I38i T8 LED Tube (G3 IPS US), 1 PC  
User Guide, 1 Set  
Red-Black Wires, 2 PCs  
Wire Nuts, 4 PCs  
Label, 1 PC

(Note: After retrofit, please adhere to the modified luminaire the label "This luminaire has been modified and can no longer operate fluorescent lamps", or an equivalent label. Label should be located on the retrofit luminaire where readily visible by the user when relamping.)

### Unpacking

- 1) Unpack and carefully examine the product.
- 2) Report any damage and save all packing materials if any portion of the product was damaged during transport.
- 3) Do not attempt to use the apparatus if it is damaged.

## IMPORTANT SAFETY INSTRUCTIONS

DANGER-RISK OF SHOCK-DISCONNECT POWER BEFORE INSTALLATION.

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### WARNINGS:

- 1) WARNING - Risk of fire or electric shock. The electrical rating is 100~277VAC, the installer must determine whether they have 100~277VAC at the luminaire before installation.
- 2) WARNING - Risk of fire or electrical shock. The installation requires knowledge of fluorescent lighting luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.
- 3) WARNING - Risk of fire or electrical shock. Install the product only in the luminaires that has the construction features and dimensions shown in the photographs and/or drawings.
- 4) 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.
- 5) WARNING - To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- 6) 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.
- 7) The end retrofit luminaire has been modified and can no longer operate the originally intended lamp.
- 8) Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.
- 9) For use only with UL and C-UL Listed Surface or Type Non-IC Recessed Mount Fluorescent Luminaires without Diffuser.
- 10) This device is not intended for use with emergency exit fixtures or emergency exit lights.
- 11) Suitable for use in open luminaires.
- 12) NOT FOR USE WHERE EXPOSED TO THE WEATHER.

### User Responsibilities

The responsibility for complying with all state and local laws, ordinances, and regulations in regards to the installation, maintenance, and operation of the device lies with the buyer and handler of the device. These parties may include, but are not limited to the contractor, installer, purchaser, owner, and user of the product.

Note:

The instructions and precautions set forth in this user guide are not necessarily inclusive of or relevant to all applications as **Cost Less Lighting, Inc.** cannot anticipate all possible situations.

### PLANNING THE INSTALLATION

This device installation requires planning to ensure timely installation with minimal complications and down time.

### Planning Suggestions

Consult an electrical inspector to review all wiring plans.

Create a Layout Plan Drawing, per a lighting designer's or architect's recommendations.

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Before retrofitting fluorescent luminaires, please make sure the dimensions of existing luminaires are larger than the dimension noted below.

T8 Luminaire Dimensions: (Unit: mm)



Note:

1. "W" represents the Width of luminaire(s), "L" represents the Length of luminaire(s).
2. If working with one-lamp luminaires, W = min. 100 mm  
If two-lamp luminaires, W = min. 300 mm  
If three-lamp luminaires, W = min. 450 mm  
If four-lamp luminaires, W = min. 600 mm
3. For 0.6m LED Tubes, L= 620 mm  
For 1.2m LED Tubes, L=1240 mm  
For 1.5m LED Tubes, L=1530 mm
4. This LED tube can only be used in luminaires which contain a maximum of 4 lamps of 0.6 m long and 1.2m long LED tubes, and max. 2 lamps for 1.5m long LED tubes.

### I38i T8 LED Tube (G3 IPS US) Specifications

Lamp Type: T

Base Type: G13

Input Voltage: 100-277VAC

Color: White

LED Qty: 32LEDs, 64LEDs, 80LEDs

Power Consumption: 8W± 2W, 17W± 2W, 21W± 2W

Beam Angle: 120 degree

Length: 600mm, 1200mm, 1500mm

Work Environment: Indoor use, dry environments

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### Retrofit Luminaires with Electronic Ballast

#### Installation Steps

**Step 1:** Turn off main power before installation.

For safety, make sure main power source is switched off before attempting to install.

**Step 2:** Take off existing fluorescent light and disconnect the ballast.

**Step 3:** Cut four leads of G13 lamp holders. (For detailed placement of the cuts, note the X's on the wiring diagram labeled "Before" shown below.)

**Step 4:** Reconnect lamp holder leads L and N to the supply wires of branch circuit according to the wiring diagram below. Both G13 sockets of the fixture should be connected to the power source directly.

**Step 5:** Install fixture as before.

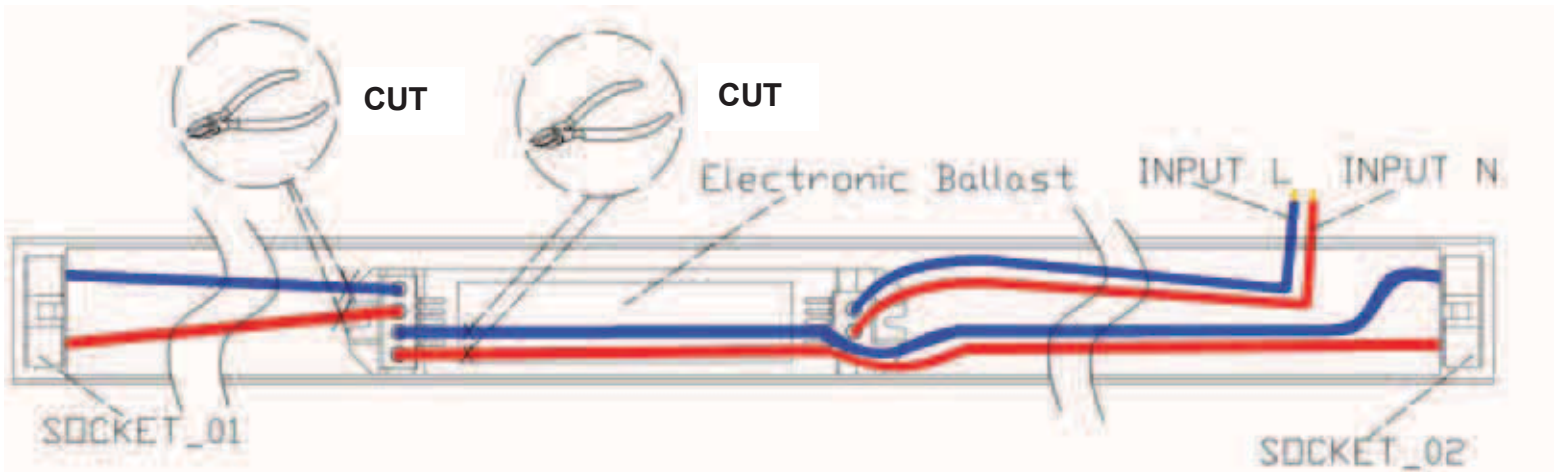
**Step 6:** Adhere a label to the luminaire to the effect of "This luminaire has been modified and can no longer operate fluorescent lamps" on the retrofitted luminaire, where readily visible during relamping.

**Step 7:** Install the LED tube into the fixture.

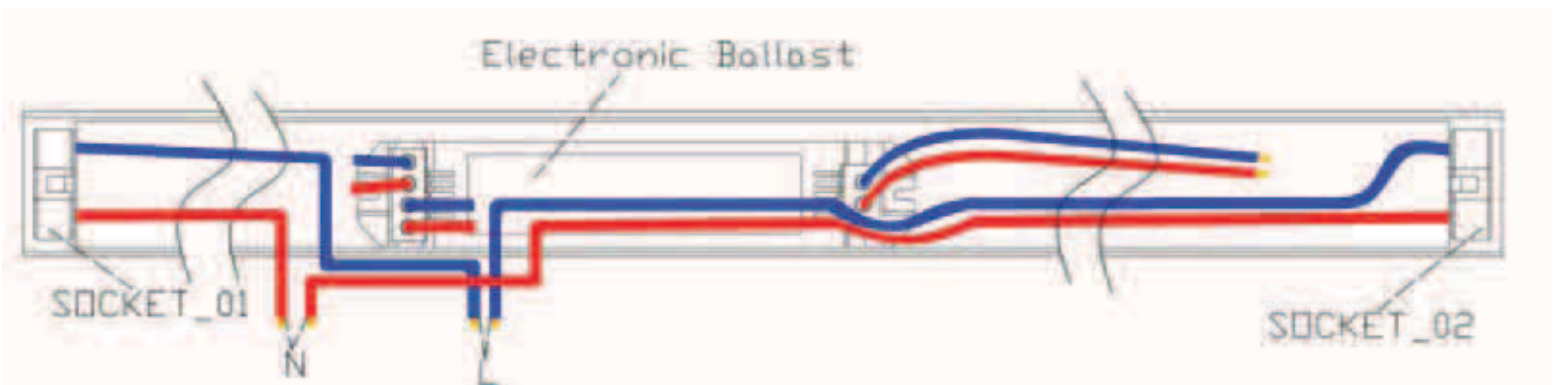
**Step 8:** Turn on the power.

#### Wiring Diagram for Electronic Ballast

##### Before



##### After



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### Retrofit Luminaires with Magnetic Ballast

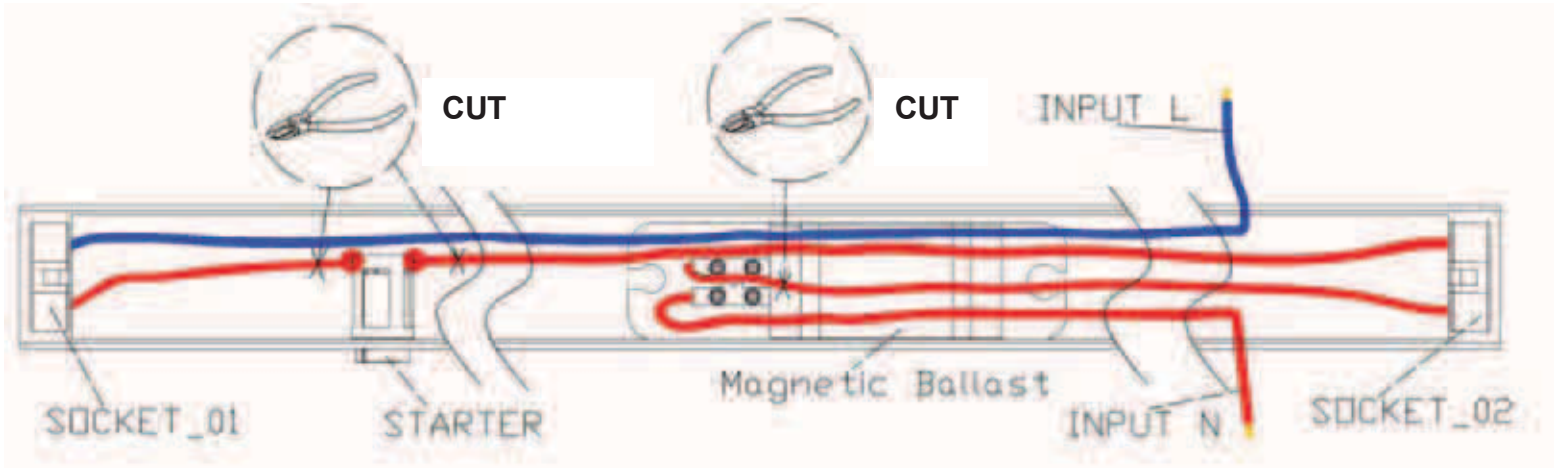
#### Installation Steps

Repeat Steps 1 to 7 of “retrofit luminaires with electronic ballast” except Step 3, changes are noted below:

**Step 3:** Cut the ballast output lead and cut the wirings of the starter. Both the ballast and starter need to remain in place. (For detailed placement of the cuts, note the X's on the wiring diagram labeled “Before” shown below.)

#### Wiring Diagram for Magnetic Ballast

##### Before



##### After

