

# Energy Focus LED Control Platform

Item #: LEDFLT8-82765-XXX-5EDCTF (DCT)  
LEDFLT8-8XX-XXX-5EDMF (DM)

Linear Fluorescent Replacement



**WARNING:**

**Turn off power during installation.** Detailed instructions are provided in this manual to prevent any risk of electrical shock or damage to product.



This Package Includes:

- LED Tube
- Fixture Label:

**This Device is not intended for use with Emergency Exit Fixtures or Emergency Exit Lights.**

**Notice: This luminaire has been modified and no longer operates Fluorescent Lamps. Use only Energy Focus, Inc. LEDFLT8 self-ballasted lamps for lamp replacement.**



Tel: 800-327-7877 Web: [www.energyfocus.com](http://www.energyfocus.com)

- Installation Instructions

This manual provides information for the functionality and proper installation of the Energy Focus Lighting Control Platform Tubular LEDs (TLEDs). This consists of the dimmable only and dimmable + color tuning TLEDs.

Direct Wire is powered single-ended with line voltage.

**Direct Wire Mode:** This product may be used as a 'direct-wire' replacement of your current fluorescent tube, though rewiring your fixture, replacing lampholders, and removal of ballast connection is required for this mode. A licensed electrician should do the electrical wiring for your safety.

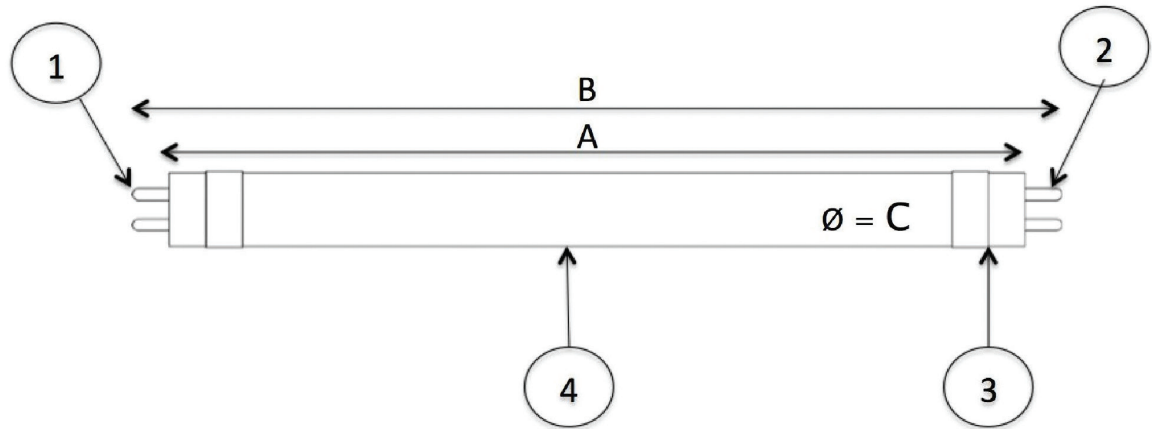
**FOR DIRECT WIRE MODE, CONSULT AN ELECTRICIAN AND FOLLOW MANUAL INSTRUCTIONS.**

## **WARNING:** **RISK OF FIRE OR ELECTRIC SHOCK.**

**Please read all instructions and warnings thoroughly before beginning install.**

**This product shall be installed in accordance with the latest NEC and/or local authority having jurisdiction. Installation shall be performed by a qualified electrician understanding the construction and operation of this product and the electrical requirements involved.**

## Structure of the TLED



1. Designated INPUT End (Line and Neutral End)
2. Non-Powered End
3. End-cap
4. Lens (clear or frosted)

## Safety

- **ALWAYS DISCONNECT OR TERMINATE POWER TO FIXTURE PRIOR TO ANY INSTALLATION OR REPLACEMENT OF PRODUCT. Failure to do so may result in shock and/or serious injury or damage to product, which may render it unusable.**
- We recommend a qualified electrician install this product. Equipment should be mounted in locations and at heights where it will not be subjected to tampering by unauthorized personnel.
- The operating voltage of these products is 120–277 VAC. Installer shall verify operating voltage at the luminaires prior to installation.
- To prevent wiring damage or abrasion, protect wiring from exposed edges of sheet metal or other sharp objects that may be present in fixture.
- Do not make modifications to, or alter, fixture housing, ballast enclosure, or electrical components other than those required for proper installation.
- Suitable for dry locations only when used with open, surface, recessed and totally enclosed fixtures. May be used in wet locations when installed in a suitable UL-listed wet location enclosed fixture.
- If the lamp or luminaire exhibits undesirable operation (buzzing, flickering, etc.) immediately turn off power, remove lamp from luminaire, and contact manufacturer.

## Safety, continued

- Safe operating ambient temperature: -20°C to 30°C (-4°F to 86°F). Do not install near gas or electric heaters.
- Do not use this product other than for its intended use. The use of accessory equipment is not recommended by the manufacturer. May cause an unsafe condition.
- This Retrofit Assembly is an approved component of a linear fluorescent luminaire kit where the suitability of the combination shall be determined by CSA or local authorities having jurisdiction.
- For use only with UL and C-UL listed surface mounted or recess mounted linear fluorescent luminaires (with or without diffuser).
- INCLUDED FIXTURE WARNING LABEL MUST BE AFFIXED TO LUMINAIRE IN A VISIBLE LOCATION AFTER INSTALLATION (preferably over any existing labels). One label per fixture will suffice.
- For use of the DCT series lamps without the EnFocus™ Switch, the lamps will default to full brightness at 4000K
- For use of the DM series lamps without the EnFocus™ Switch, the lamps will default to full brightness.

### **For Direct Wire installation only:**

- The luminaire shall be grounded. Single ended power only. New lamp holders must be used in compliance with UL Standards.
- Fluorescent lamp holders within fixtures shall be rewired to line voltage and will no longer operate the original fluorescent lamp. For holders, contact 1(800)327-7877 or [orders@energyfocus.com](mailto:orders@energyfocus.com).

---

### **Safe environmental requirements:**

- Operating Temperature: -20°C to 30°C (-4°F to 86°F)
  - Storage Temperature: -30°C to +60°C (-22°F to 140°F)
  - Working Humidity: 30% to 90%
  - Storage Humidity: 10% to 90%
  - Normal indoor ventilation and non-corrosive environments
- 

## Warranty

- Visit [energyfocus.com](http://energyfocus.com) for full standard warranty terms and conditions.
  - Please note that the warranty may not be valid in case of improper installation (for example, not turning off main power before installation), damage due to normal wear and tear, exceptional operational conditions or unauthorized modifications.
- 

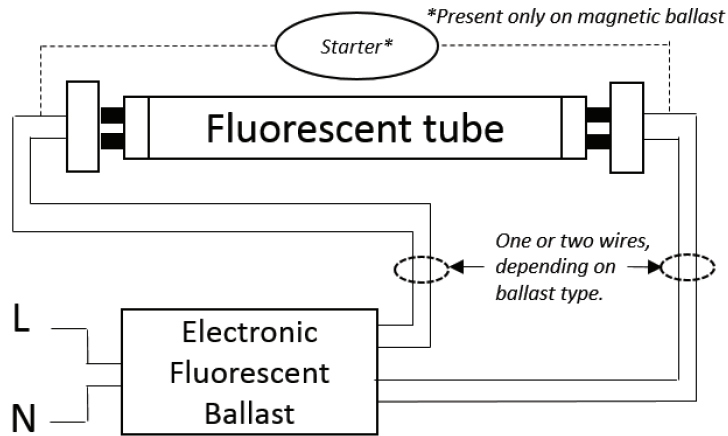
## For questions:

**Email:** [orders@energyfocus.com](mailto:orders@energyfocus.com)

**Phone:** 800.327.7877

**Thank you for choosing Energy Focus!**

## Direct Wire Installation



### **Additional tools needed:**

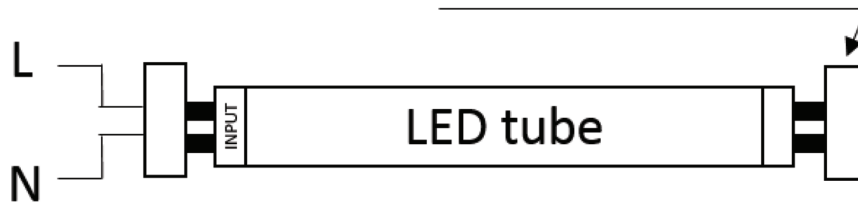
- Ladder (if your fixture is not easily reached)
  - Voltage tester
  - Screwdrivers
  - 2 un-shunted lamp holders per tube (one wired + one non-wired)
  - Insulated wire cutters
- Wire connectors (twist-on)

*To order un-shunted lamp holders, call 800.327.7877 or email [CustomerService@energyfocus.com](mailto:CustomerService@energyfocus.com) (you may purchase pre-wired lamp holders, or purchase bare lamp holders and add wire to half of them yourself).*

### **Instructions:**

1. Turn off the power to light fixture at the breaker panel.
2. Ensure circuit is de-energized before proceeding. Test with a voltage tester.
3. If retrofitting an enclosed fixture, open the diffuser from the light fixture.
4. Remove existing fluorescent lamps. Please dispose of or recycle these items properly in accordance with local requirements—they contain mercury, a hazardous material.
5. Open the wiring cover to expose the fluorescent ballast.
6. Cut the wires connecting the fluorescent ballast on both sides. You may leave the ballast in the fixture, or remove it. If you leave the ballast in the fixture, trim all wire so there are no loose wires hanging. If you remove the ballast, dispose or recycle in accordance with local requirements.
7. Remove old lamp holders. Replace with un-shunted lamp holders. Only one will be connected to the line voltage, and the other will not be connected (shown as follows).
8. Make the new wire connection from line voltage to one un-shunted wired lamp holder. Use wired socket at one end and connect live wire and neutral wire accordingly. Use non-wired socket at the other end. This product uses only single-ended power for safety. Strip wires ¼ inch, make contact between the desired wire connections, and enclose each wire connection with twist-on wire connectors.

Note: no power at this end. If tube does not light, reverse insertion so tube "Input" is on powered end.



Must use unshunted sockets rated for AC line voltage. L and N can be reversed, LED tube does not have input polarity.

- Reinstall the wiring cover.
- Install the LED tube in the lamp holders. The tube end labeled "input" should go into the lamp holder that is wired. The lights should 'click' into place.
- Affix warning label inside the fixture in an easily visible location to anyone changing the lamps. Cover any existing labels, or remove old fluorescent labels, especially those over the wiring channel.
- (If retrofitting an enclosed fixture), close the diffuser.
- After all LED tube lamps are installed, restore power at the circuit breaker, and turn the lights on. If the lights turn on, your retrofit is complete!

*If your lights do not turn on, turn the power off and check that your tube is fully installed in the lamp holders and that both pins are inside their holders. If your lights still do not turn on, check that you installed the tube in the correct configuration; the input labeled end of the tube should be in the lamp holder that is wired.*

