

## LED Emergency T8 Tube

**NEW**



## Product Description:

E2's LED emergency driver products are the most efficient and convenient in the industry, consuming the least amount of energy in retrofit applications. The T8 LED tube's unique technology enables the use of an emergency battery pack built into the LED tube. This allows the tube to be powered on at 60% brightness for 90 minutes when the electricity supply is cut off. This is one of the easiest and most convenient ways to replace a fluorescent system with an emergency ballast. ETL listed, DLC Standard listed and RoHS compliant.

## Features

- Emergency battery backup for 90 mins
- 3W battery yields 384lm, 8W battery yields 1,024lm
- Test button and indicator lights for power, battery charging, motion sensor and malfunctioning in line with fire protection standards
- Internally isolated LED driver
- Built-in lithium batteries with over-charging and over-discharging protection (800x charge and discharge cycle lifespan)
- Double-ended power bypass connectivity (default)
- Single-ended power model available
- Light output greater than 128 lm/W
- ETL and DLC® Standard 5.0
- 50,000 hours L70 lifespan
- 5 year limited warranty

## Specifications

| Product Number     | Wattage | Color | Certifications | Dimmable | Voltage    | Lumens  | Working Hours | CRI  |  |  |
|--------------------|---------|-------|----------------|----------|------------|---------|---------------|------|--|--|
| E2-T8-4ft-18W-EBBU | 18W     | 3500K | ETL            | No       | AC100-277V | 2319 lm | 50,000hrs     | 80Ra |  |  |
|                    |         | 4000K | ETL & DLC®     |          |            | 1152lm  |               |      |  |  |
| E2-T8-2ft-9W-EBBU  | 9W      | 5000K | Standard       |          |            |         |               |      |  |  |

The dimming feature is only available with the integration of a microwave or PIR motion sensor.

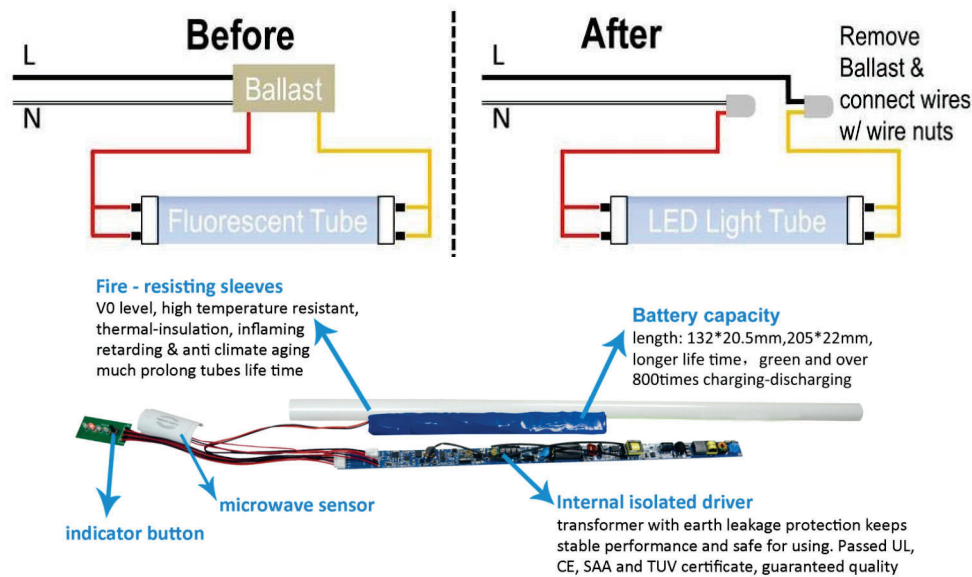
## Tested Data

|                        |                                                           |                 |               |              |                           |
|------------------------|-----------------------------------------------------------|-----------------|---------------|--------------|---------------------------|
| Technical requirements | 5.0                                                       | Classification  | Standard      | Light Output | 2319 lm                   |
| CCT                    | 3500K,4000K,5000K                                         | Input Wattage   | 9W and 18W    | Efficacy     | >120lm/W                  |
| Input Voltage          | AC100-277V                                                | Power Factor    | 0.9           | CRI          | 80                        |
| Working Environment    | -4°F-149°F                                                | Lens            | Polycarbonate | Frequency    | 50-60HZ                   |
| Dimming Compatible     | No                                                        | Beam Angle      | 220°          | IP Rating    | IP44                      |
| Base Type              | Medium Bi-Pin G13                                         | Mercury Content | No Hg         | THD          | <20%                      |
| Application            | Double-ended Bypass (Default)<br>Singled-ended (Optional) | Dimensions      | 4ft - 2ft     | Weight       | 0.8 lbs-4ft<br>0.6lbs-2ft |

## Wiring Diagram

### Schematics of Bypassing Ballast

- ✓ Remove ballast & re-wire correctly
- ✓ Ensure the light tube is dual-end powered



•Please read this manual carefully before installing emergency tubes.

### Warning:

Battery maintenance instructions: Once a month, allow the emergency tubes to charge and discharge at least once in order to ensure better battery performance.

Installation instruction:

This product must be installed by a qualified electrician in accordance with the applicable installation code.

Operation Temperature: -20°C(-4°F) to 65°C(149°F)

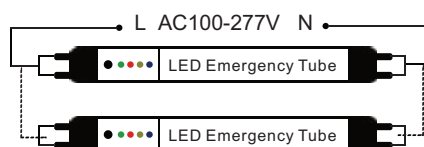
Charging Temperature: 0°C(32°F) to 45°C(113°F)

## Installation Instructions

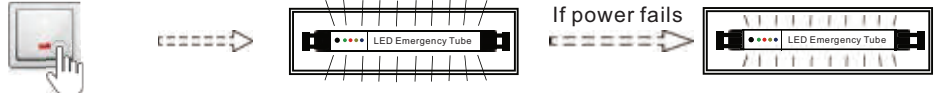
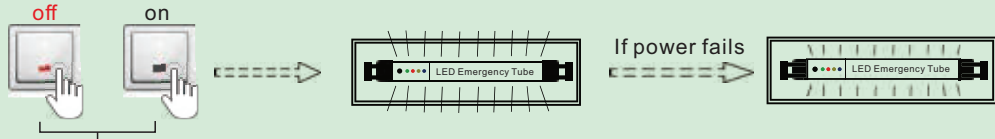
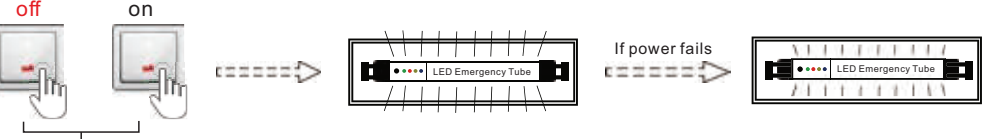
IMPORTANT: Rewire fixture according to the AC input instructions below.

•Please turn off main power before rewiring and installation

Double-ended input installation for rewiring



## Operation

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Start<br>(First time connected with AC power) |  <p>Turn on main power and switch</p> <p>Tube works with full power battery is charging</p> <p>If power fails</p> <p>Emergency function turns on 3W, 384 lm or 8W, 1024 lm Duration: 90 mins</p>                                                                                                                                                     |
| Turn on                                       |  <p>Finish 2 steps in 3 seconds<br/>Click wall switch 2 times (off-on) within 3 seconds</p> <p>Tube works with full power battery is charging</p> <p>If power fails</p> <p>Emergency function turns on 3W, 384 lm or 8W, 1024 lm Duration: 90 mins</p> <p>Discharge method once a month when lights are switch on and off during business hours.</p> |
| Turn off                                      |  <p>Finish 2 steps in 3 seconds<br/>Click wall switch 2 times (off-on) within 3 seconds</p> <p>Tube works with full power battery is charging</p> <p>If power fails</p> <p>Emergency function turns on 3W, 384 lm or 8W, 1024 lm Duration: 90 mins</p>                                                                                              |

## Start Up and Shut Down Emergency Function System

|                                                                                                                                                                                             | Shut Down                                                                                                                                                                                                                          | Start Up                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Option1                                                                                                                                                                                     |  <p>Finish 3 steps in 2 seconds<br/>Click the wall switch 3 times (off-on-off) within 2 seconds</p> <p>Emergency function system shuts down</p> | As long as the emergency tube is connected to AC power, click the wall switch; emergency function system starts up.    |
| Option2                                                                                                                                                                                     | When emergency function turns on, press "Test Button" 3 times within 2 seconds; emergency function system shuts down.                                                                                                              | When emergency function system shuts down, press "Test Button" 3 times within 2 seconds; emergency function starts up. |
| <p>Notice: When emergency functions turns on (power cut), press "Test Button" 3 times within 2 seconds to shut down emergency function system. Battery storage time is up to 12 months.</p> |                                                                                                                                                                                                                                    |                                                                                                                        |



- Test button: Press test button; tube will enter emergency mode
- Green Lamp On: AC power (AC100-277V) connected
- Red Lamp On: Battery is charging. It will turn off when fully charged
- Yellow Lamp On: Tube is malfunctioning (call retailer)
- Blue Lamp On: Sensor is working