

# ClearSkyLEDs

Clear Sky Industries cc t/a CLEAR SKY LEDS

CC Reg No: 2009/031373/23

VAT Registration No: 4550261798

Email: [sales@clearskyleds.co.za](mailto:sales@clearskyleds.co.za)

Web: [www.clearskyleds.co.za](http://www.clearskyleds.co.za)

---

## SABS Tested LED Tube Installation Guide in 10 Steps

---

**A SAFE CONVERSION OF THE STANDARD T8 FLUORESCENT FITTING TO AN LED TUBE, ENERGY-SAVING RETROFIT IN 10 EASY STEPS:**

### General Requirements & Precautions:

- Required for installation: Screw Driver, wire stripper and cutter.
- It is vital that any lighting work be carried out at all times with the power supply disconnected and locked out. Do not cover this LED tube with paper, cloth or any other flammable material / substance.
- Remove flammable packaging material.
- Please ensure that this LED tube is correctly installed (See Installation Instructions section shown below).
- Only use this LED tube within the recommended temperature parameters (Recommended operating ambient temperature is:  $-10^{\circ}\text{C} \sim 45^{\circ}\text{C}$ )

### STEP 1

It's suggested that the customer sign a Safety installation and instruction sheet procedure document at the point of delivery. This document describes the entire step-by-step retrofit procedure.

### STEP 2

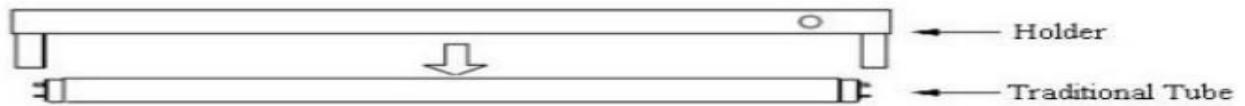
Identify the T8 fluorescent fitting to be retrofitted. For the purposes of this demonstration we are using a single, open-channel fitting, without diffuser. To compare current usage of the T8 fitting against the new LED retrofit, measure Watts, Volt Amperes and power-factoring readings now. Should you be interested in comparing your current usage of the T8 fitting against your new LED retrofit, measure the Watts, Volt Amperes and power-factor.

### STEP 3

VERY IMPORTANTLY... Disconnect and lock out the power supply.

## STEP 4

Remove the existing T8 lamp or lamps.



## STEP 5

Remove the protective cover of the T8 fitting to reveal the wiring, starter, ballast & capacitor.

## STEP 6

Remove the starter:



## STEP 7

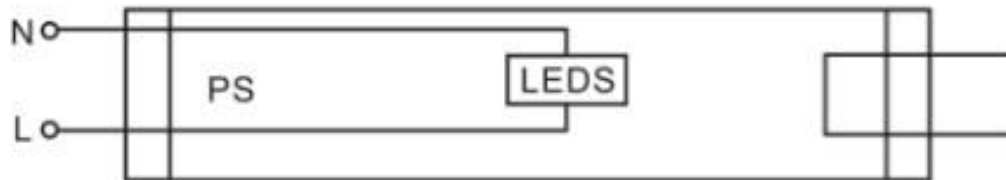
Identify the two wires on the capacitor - there is one capacitor per fitting. Cut one of the two wires and insulate it:



*With the capacitor in, the Watt reading stays the same, but the Volt Amperes increase, and the Power Factoring is significantly reduced.*

## STEP 8

The tube must be installed with the LED tube power supply side pins to the AC power (i.e.: L and N) supply holder in the fitting. See wiring diagram shown below (Please also note that the LED starter is not required in this wiring method). Apply any wiring requirements to ensure that the positive (live) and neutral are connected to one side.



**WARNING:** If the LED tube is reversely installed, an electrical short will occur as the non supply side pins in this LED tube are bridged internally.

### **STEP 9**

Replace the protective cover of the T8 fitting and install the LED Tube. \*Ensure that the LED Tube is installed the right way around. The LED Tube will be marked so you'll know which side needs to connect to the side in the fitting that has had the positive (live) and neutral wired to it.

### **STEP 10**

Reconnect the power supply. Should you be interested in comparing the usage of your new LED tube with the readings obtained on the T8 fluorescent earlier, measure the Watts, Volt Amperes and power-factoring readings now.

[BUY ONLINE](#) | [WHOLESALE QUOTATION](#) | SALES: 021 671 4680 Ext. 1