



**BALLAST BYPASS**  
**LED Type B T5**

LED compatible replacement for linear fixtures that operate independently of ballasts.

**Limitless Options**  
 for the following applications:

- Offices
- Restaurants
- Retail Stores
- Lobbies
- Schools
- Hospitals



**5 YEAR WARRANTY**

MEETS NSF/ANSI STANDARD 2 REQUIREMENTS

we know light.™



# LED LiberaT5™ Tubes

## Features and Benefits

>40% energy savings
Long life: 50,000
Bypass Application: 120-277 line voltage
Instant on/off
Non-flickering
Single End Construction
Highly durable SHATTERPROOF plastic (4, 3 and 2 foot tubes)
UL rated for enclosed fixtures
No energy losses due to fluorescent ballast

## Specifications

Base Types: G13, R17d, Fa8
Construction: Double ended
Wattage: 9w, 12w, 13w, 16w, 25w
Minimum starting temperature range: -22F / -30C
Safety: UL Classified
Environment: Damp/dry locations
Enclosed: Suitable for enclosed luminaires
Rated life: L70 50,000+ hours
Beam Angle: 4, 3 & 2 foot 180°
Field Angle: 4, 3 & 2 foot 280°
Non-shunted lampholders

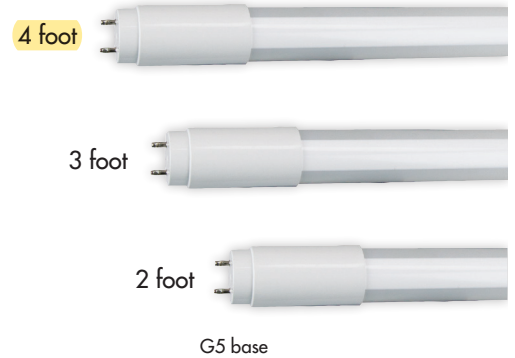
## Listing

UL Classified and Component
Recognized Component ETL

## Warranty

Five years against defects in manufacturing
---

### Shatterproof PET Coated Glass



MEETS NSF/ANSI STANDARD 2 REQUIREMENTS

5 YEAR WARRANTY

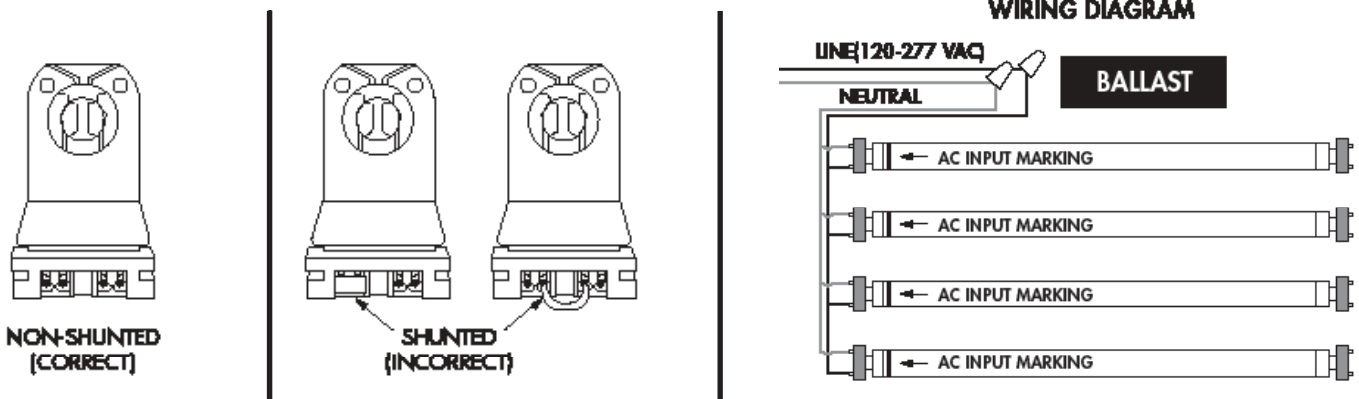


To view our DLC qualified products, please consult the DLC Qualified Products List at [www.designlights.org/qpl](http://www.designlights.org/qpl).

## LED Ballast Bypass T5 Tubes – 4', 3' and 2'

Item#	Description	DLC QPL	LED Wattage	Voltage	Fluorescent Equivalency	Lumens	LPW	Base	CCT	CRI	Master Pack
<b>LED 12 WATT T5 TUBE – 2 FOOT COMING SOON!</b>											
LT5HO12B130K	LED 12W 2' T5 BYPASS 30K SC		12	120-277V	24W	1450	120.8	G5	3000K	80	25
LT5HO12B135K	LED 12W 2' T5 BYPASS 35K SC		12	120-277V	24W	1450	120.8	G5	3500K	80	25
LT5HO12B141K	LED 12W 2' T5 BYPASS 41K SC		12	120-277V	24W	1450	120.8	G5	4100K	80	25
LT5HO12B150K	LED 12W 2' T5 BYPASS 50K SC		12	120-277V	24W	1450	120.8	G5	5000K	80	25
<b>LED 16 WATT T5 TUBE – 3 FOOT COMING SOON!</b>											
LT5HO16B130K	LED 16W 3' T5 BYPASS 30K SC		16	120-277V	39W	1850	115.6	G5	3000K	80	25
LT5HO16B135K	LED 16W 3' T5 BYPASS 35K SC		16	120-277V	39W	1850	115.6	G5	3500K	80	25
LT5HO16B141K	LED 16W 3' T5 BYPASS 41K SC		16	120-277V	39W	1850	115.6	G5	4100K	80	25
LT5HO16B150K	LED 16W 3' T5 BYPASS 50K SC		16	120-277V	39W	1850	115.6	G5	5000K	80	25
<b>LED 25 WATT T5 TUBE – 4 FOOT (DLC LOOK-UP CH1198-25W)</b>											
LT5HO25B130K	LED 25W 4' T5 BYPASS 30K SC	*	25	120-277V	54W	3200	128.0	G5	3000K	80	25
LT5HO25B135K	LED 25W 4' T5 BYPASS 35K SC	*	25	120-277V	54W	3200	128.0	G5	3500K	80	25
LT5HO25B141K	LED 25W 4' T5 BYPASS 41K SC	*	25	120-277V	54W	3200	128.0	G5	4100K	80	25
LT5HO25B150K	LED 25W 4' T5 BYPASS 50K SC	*	25	120-277V	54W	3200	128.0	G5	5000K	80	25
<b>LED 9 WATT T5 TUBE – 2 FOOT COMING SOON!</b>											
LT5HE09B130K	LED 9W 2' T5 BYPASS 30K SC		9	120-277V	14W	1150	127.7	G5	3000K	80	25
LT5HE09B135K	LED 9W 2' T5 BYPASS 35K SC		9	120-277V	14W	1150	127.7	G5	3500K	80	25
LT5HE09B141K	LED 9W 2' T5 BYPASS 41K SC		9	120-277V	14W	1150	127.7	G5	4100K	80	25
LT5HE09B150K	LED 9W 2' T5 BYPASS 50K SC		9	120-277V	14W	1150	127.7	G5	5000K	80	25
<b>LED 12 WATT T5 TUBE – 3 FOOT COMING SOON!</b>											
LT5HE12B130K	LED 12W 3' T5 BYPASS 30K SC		12	120-277V	21W	1350	112.5	G5	3000K	80	25
LT5HE12B135K	LED 12W 3' T5 BYPASS 35K SC		12	120-277V	21W	1350	112.5	G5	3500K	80	25
LT5HE12B141K	LED 12W 3' T5 BYPASS 41K SC		12	120-277V	21W	1350	112.5	G5	4100K	80	25
LT5HE12B150K	LED 12W 3' T5 BYPASS 50K SC		12	120-277V	21W	1350	112.5	G5	5000K	80	25
<b>LED 13 WATT T5 TUBE – 4 FOOT (DLC LOOK-UP CH1198-13W)</b>											
LT5HE13B130K	LED 13W 4' T5 BYPASS 30K SC	*	13	120-277V	28W	1650	126.9	G5	3000K	80	25
LT5HE13B135K	LED 13W 4' T5 BYPASS 35K SC	*	13	120-277V	28W	1650	126.9	G5	3500K	80	25
LT5HE13B141K	LED 13W 4' T5 BYPASS 41K SC	*	13	120-277V	28W	1650	126.9	G5	4100K	80	25
LT5HE13B150K	LED 13W 4' T5 BYPASS 50K SC	*	13	120-277V	28W	1650	130.7	G5	5000K	80	25

Inspect lamp holders, ballast, and wiring to ensure these lamp holders are NON SHUNTED LAMP HOLDERS. TCP LiberaT5 Series lamps do not require a ballast to operate. They have an internal LED driver that operates on 120-277V. These tubes require power to only one end of the fixture, called the “power” side. The TCP LiberaT5 lamp is clearly marked at one end to signify power end. This must be installed in “power” end. The lamp holders (or tombstones) must be non-shunted as the power flows through the LED T5 tube. (Shunt means “an electrical conductor joining two points of a circuit, through which more or less of a current may be diverted”). Both “power” end and opposite end must both have unshunted tombstones. The “opposite” end acts as simply a mechanical holder with TCP LED LiberaT5 lamps.



# TECHNOLOGY CAST IN A BEAUTIFUL LIGHT

For over 20 years, TCP has been designing, developing and delivering energy-efficient lighting into the market. Thanks to our cutting-edge technology and manufacturing expertise, we have shipped billions of high quality lighting products. With TCP, you can count on a lighting product that is designed to meet the needs of the market — that transforms your surroundings and envelopes you in warmth — lighting that generates beauty with every flip of the switch.

