



# HO Linear Fluorescent to LED Tubes

## CONVERSION GUIDE

**LED Tubes**, sometimes referred to as "TLEDs," are meant to use linear fluorescent sockets and fixtures. LED Tubes have the same length and pins as the linear fluorescent lamps they are intended to replace. The details of how the fixture is wired and the auxiliary equipment used may vary, depending on the LED Tube solution.

For HO applications, Current offers **Type B LED Tubes**, which operate from mains voltage. The ballast is bypassed and the fixture is re-wired according to the installation instructions that come with the lamp. A retrofit fixture label indicating the LED Tube model used and that the fixture has been re-wired is provided to be applied to the fixture.

### SpectraChoice™ Type B (Ballast Bypass) LED HO Tubes:

GE LED Tubes for HO applications feature a built-in switch to adjust color temperature levels, with no tools required. Choose between 3500K, 4000K, 5000K, and 6500K. One lamp can replace many, greatly reducing inventory and simplifying project management by streamlining BOMs.



Select CCT using built-in switch.

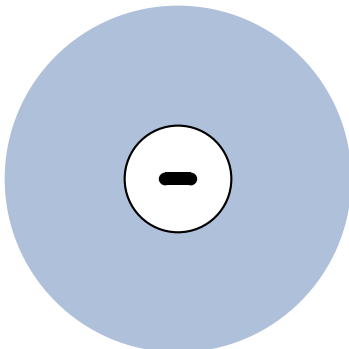
### LED Tube Design for Signage Applications:

Standard GE LED Tubes are constructed of glass tubes with an internal coating, similar to linear fluorescent lamps. The coating inside the glass provides good diffusion, spreading out the light and eliminating hot spots and pixilation from the individual LEDs. However, since the LED board inside the tube is on one side, the output is directional. This can be an advantage in many applications where the lamps are in a ceiling and the light needs to point down.

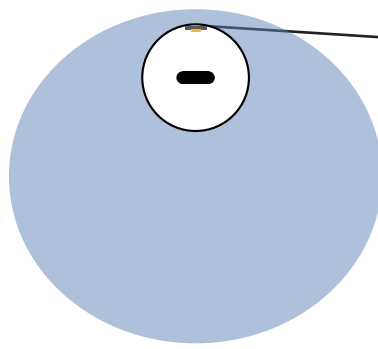
Linear fluorescent lamps emit light equally all the way around the diameter of the tube. For double-sided signage applications, this uniformity is ideal. Signage ("SGN") GE LED Tubes are constructed similarly to standard tubes, but with two key differences designed to improve performance in signage applications. First, Signage GE LED Tubes incorporate a reflective strip inside the tube opposite the LED board. The strip bounces light back behind the LED board and reduces the intensity directly across from the LED board. This results in more uniform light distribution, which is preferred for double-sided signage cabinets. The second key feature of Signage LED Tubes is rotatable end caps. These allow the tube to be oriented properly regardless of the socket orientation inside the cabinet.

### Graphical Representation of Light Distribution from HO Tubes:

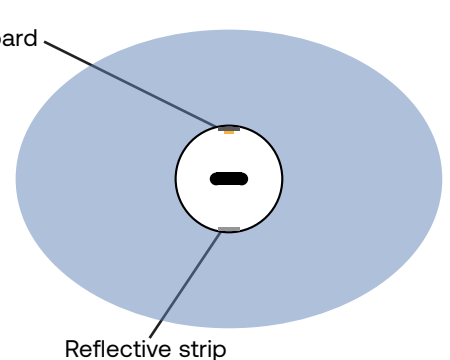
**Linear Fluorescent**  
Uniform distribution  
around the tube



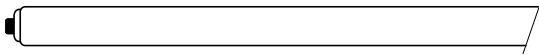
**Standard LED Tube**  
More light directed  
"down" from LEDs



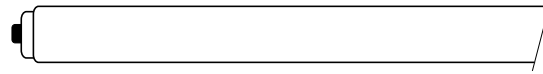
**Signage LED Tube**  
Reflective strip provides  
improved uniformity



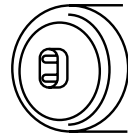
# Linear Fluorescent HO to LED HO Tubes - Conversion Guide



T8 (1" diameter) Recessed Double Contact Base (R17d)



T12 (1-1/2" Diameter) Recessed Double Contact Base (R17d)



Recessed Double Contact R17d

Selectable Standard LED Tube (R17d)

Selectable Signage LED Tube (R17d)



Linear Fluorescent Recessed Double Contact (R17d)				Ballast Bypass (Type B) Selectable Standard LED Tube		Ballast Bypass (Type B) Selectable Signage LED Tube	
Nominal Length	Order Code	Description	Color Temp.	Order Code	Description	Order Code	Description
<b>T8 Linear Fluorescent Recessed Double Contact (R17d)</b>							
8 ft	12533	F96T8/SPX35/HO	3500K	93319022	LED42BDT8/G8/R17d/8SC/120-347	93319036	LED42BDT8/G8/R17d/8SC/SGN
	12534	F96T8/SPX41/HO	4100K				
	12535	F96T8/SPX50/HO	5000K				
<b>T12 Linear Fluorescent Recessed Double Contact (R17d)</b>							
8 ft	66862	F96T12/HL41/HO/WM	4100K	93319022	LED42BDT8/G8/R17d/8SC/120-347	93319036	LED42BDT8/G8/R17d/8SC/SGN
	11918	F96T12/CW/HO/CT	4100K				
	14653	F96T12/DX/HO	6500K				
	11919	F96T12/D/HO/CT	6500K				
7 ft	13766	F84T12/CW/HO	4100K	93319024	LED35BDT8/G7/R17d/8SC/120-347	93319038	LED35BDT8/G7/R17d/8SC/SGN
	13768	F84T12/SGN/HO	5400K				
	13767	F84T12/D/HO	6500K				
6 ft	13697	F72T12/CW/HO	4100K	93319026	LED30BDT8/G6/R17d/8SC/120-347	93319040	LED30BDT8/G6/R17d/8SC/SGN
	13701	F72T12/SGN/HO	5400K				
	13699	F72T12/D/HO	6500K				
64 in	23083	F64T12/CW/HO	4100K	93319028	LED26BDT8/G64/R17d/8SC/120-347	93319042	LED26BDT8/G64/R17d/8SC/SGN
	23089	F64T12/SGN/HO	5400K				
	23087	F64T12/D/HO	6500K				
5 ft	23075	F60T12/CW/HO	4100K	93319030	LED24BDT8/G5/R17d/8SC/120-347	93319044	LED24BDT8/G5/R17d/8SC/SGN
	23081	F60T12/SGN/HO	5400K				
	23077	F60T12/D/HO	6500K				
4 ft	10773	F48T12/CW/HO	4100K	93319032	LED18BDT8/G4/R17d/8SC/120-347	93319046	LED18BDT8/G4/R17d/8SC/SGN
	10573	F48T12/SGN/HO	5400K				
	10778	F48T12/D/HO	6500K				
3ft	10374	F36T12/CW/HO	4100K	93319034	LED14BDT8/G3/R17d/8SC/120-347	93319048	LED14BDT8/G3/R17d/8SC/SGN
	10388	F36T12/SGN/HO	5400K				
	10380	F36T12/D/HO	6500K				