LED LiberaT8 Tubes
Ballast Bypass
120V Rated

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

Why choose LED LiberaT8 Tubes from TCP?
- >50% energy savings
- Long life: 50,000
- Bypass Application: 120V line voltage
- Instant on/off
- Non-flickering
- Highly durable PET coated glass
- 4 foot tubes
- UL rated for enclosed fixtures
- No energy losses due to fluorescent ballast
- Can be wired Double Ended or Single End

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

Specifications:
Base Types.................................................. G13
Wattage.................................................. 13.5W
Voltage................................................... 120V
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 foot 190°
Field Angle............................. 4 foot 300°
Specifications:

- **Shatterproof PET Coated Glass**
  - 4 foot G13 base

- **All Glass**
  - 4 foot G13 base

**Listing**

- UL
- CUL

**Warranty**

- Five years against defects in manufacturing

**Wiring Diagrams:**

**Double Ended Wiring**

1. **SHUNTED**
2. **INSTANT START DIAGRAM AFTER RETROFIT:**
3. **SHUNTED**
4. **NEUTRAL**

**Single Ended Wiring**

1. **Direct Drive LED Tube**
2. **Direct Drive LED Tube**
3. **Direct Drive LED Tube**
4. **Direct Drive LED Tube**
# LED LiberaT8™ Tubes

## LED Type B Tubes – 4’

<table>
<thead>
<tr>
<th>Item#</th>
<th>Description</th>
<th>DLC</th>
<th>LED Wattage</th>
<th>Voltage</th>
<th>Fluorescent Equivalency</th>
<th>Lumens</th>
<th>LPW</th>
<th>Base</th>
<th>CCT</th>
<th>CRI</th>
<th>Bulk Pack*</th>
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<tbody>
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<td>32W</td>
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*25 tubes per carton

For the most up-to-date specs and warranty information, please visit www.tcpi.com
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.

For more information on the quality and care TCP can deliver, call us at 800.324.1496 or visit tcpi.com