LED T8 U-BEND Lamp
Compatible for use with fluorescent T8 and T12 ballasts

1-5/8”, 3” and 6” Specification

Expanded Versatility using
Quick-Fit™ Installation Technology

The LED T8 U-Bend direct replacement lamps, requiring NO Re-WIRING of the light fixture, provide excellent energy savings when replacing T8 and T12 fluorescent U-bend lamps.

Installation is easy...just remove existing fluorescent lamp and install the LED linear lamp.

Multi-Op™ (multi-Operation) LED lamp design works with most ballast types including T8 Electronic Instant Start, T8 Program Start Electronic and T12 Magnetic ballasts.

The Multi-Op™ LED product is the most versatile LED linear lamp on the market today. The LED Multi-Op™ liner lamp is also compatible with most existing fluorescent battery back-up ballasts.

If the existing ballast fails, just replace the ballast or operate the LED lamp with the optional 120-277VAC LED remote driver.

Benefits:
- Light distribution angle of 270 degrees
- Excellent for low temperature applications
- High Performance DLC qualified models available
- Use with occupancy sensors with frequent starting
- Dimmable (with compatible driver / ballast)
- No glass or mercury for safer work environments
- Vibration and impact resistant
- Less lumen depreciation compared to fluorescent systems
- Instant ON operation
- Suitable for dry and damp locations (avoid applications with direct water contact)
- Meets UL standard 1598c
- Long life product (>50,000 hours)
- Rotatable end caps for refrigeration and shelf applications (optional)
- 5 Year manufacturer’s warranty

Energy Savings over 40-50% when compared to existing fluorescent T8 and T12 electronic and magnetic ballasted fixture applications.

For additional energy savings of 20 - 30% use with low ballast factor ballast or lighting control systems.

Installation is easy and saves money. Just change the existing lamps without the need to re-wire the light fixture. Install LED lamp using existing fluorescent ballast.

LED lamp models are available in 3000k, 3500k, 4000k and 5000K, color temperatures. LED lamps to support linear 2’, 3’, 4’, 5’, 8’, U-Bend and TTL/BIAX lamp applications.
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### Specifications:

Performance with various ballast types:

<table>
<thead>
<tr>
<th>Model #</th>
<th>Type Diameter</th>
<th>T8 Instant Start Electronic ballast</th>
<th>T8 Program Start Electronic ballast</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Lumens</td>
<td>Average System Watts</td>
</tr>
<tr>
<td>LEDT8-17-850-B-FHC Ux</td>
<td>LED T8</td>
<td>2100</td>
<td>17.50</td>
</tr>
<tr>
<td>LEDT8-17-840-B-FHC Ux</td>
<td>LED T8</td>
<td>2000</td>
<td>17.50</td>
</tr>
<tr>
<td>LEDT8-17-835-B-FHC Ux</td>
<td>LED T8</td>
<td>1950</td>
<td>17.50</td>
</tr>
<tr>
<td>LEDT8-17-830-B-FHC Ux</td>
<td>LED T8</td>
<td>1900</td>
<td>17.50</td>
</tr>
<tr>
<td>LEDT8-17-850-B-FHF Ux</td>
<td>LED T8</td>
<td>2050</td>
<td>17.50</td>
</tr>
<tr>
<td>LEDT8-17-840-B-FHF Ux</td>
<td>LED T8</td>
<td>1950</td>
<td>17.50</td>
</tr>
<tr>
<td>LEDT8-17-835-B-FHF Ux</td>
<td>LED T8</td>
<td>1850</td>
<td>17.50</td>
</tr>
<tr>
<td>LEDT8-17-830-B-FHF Ux</td>
<td>LED T8</td>
<td>1800</td>
<td>17.50</td>
</tr>
</tbody>
</table>

Note: x stands for size extension.

### U-Bend Size Extension

- **U6**: Extension for 6” U-bend width
- **U3**: Extension for 3” U-bend width
- **U1 (1-5/8”)**: Extension for 1-5/8” U-bend width

### Part number designation:

- F - Fixed end caps
- S - Standard or H - High Performance
- C - Clear or F – Frosted Lens

Clear lens models are special order

Note: All specification information subject to change without notice.

Lamps operate at 120, 277 and 377VAC using the existing electronic instant start ballast, electric program rapid start ballast. Lamp wattage and Lumens noted in chart are based on operation with high performance electronic ballast and standard magnetic ballast. See Warranty for terms and conditions. Photometric testing is consistent with IES-LM-79 and tested to L70 requirements.

<table>
<thead>
<tr>
<th>LED T8 U-bend Performance with different ballast factor Instant Start (IS) ballasts</th>
<th>T8 IS Low Ballast Factor (0.78)</th>
<th>T8 IS Normal Ballast Factor (0.88)</th>
<th>T8 IS High Ballast Factor (1.18)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lumens</td>
<td>Lamp Watts</td>
<td>Lumens</td>
</tr>
<tr>
<td>LEDT8-17-850-B-FHF Ux</td>
<td>1550</td>
<td>14.50</td>
<td>2050</td>
</tr>
<tr>
<td>LEDT8-17-840-B-FHF Ux</td>
<td>1500</td>
<td>14.50</td>
<td>1950</td>
</tr>
<tr>
<td>LEDT8-17-835-B-FHF Ux</td>
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</table>
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Installation Instructions:
Step 1: Turn Power - OFF
Step 2: Remove Fluorescent lamp
Step 3: Plug in Quick-Fit LED lamp
Step 4: Turn Power - ON

Application Notes:
- There are multiple types of ballast designs (also called topologies) used in fluorescent light fixtures. To assure proper LED lamp operation and confirm ballast compatibility try product in the fixture before ordering or installing large quantities.
- Suitable for damp locations. Avoid applications where lamp can get wet.
- Operating temperature range between -4°F and 122°F (-20°C and 50°C).
- To meet local and national building safety codes most commercial buildings use light fixtures installed battery backup fluorescent ballasts to provide temporary lighting in the event of a power loss. The most common style of battery back-up ballast (~ 80% market share) switches out one lamp from the existing ballast and powers the fluorescent lamp when in operation. The ELB Quick-Fit LED direct replacement lamp with multi-operation technology is compatible with these standard fluorescent battery back-up ballast products where most other direct replacement LED lamps are not compatible. Check local and state electrical codes for acceptance of use.

Ordering Information:

<table>
<thead>
<tr>
<th>Model #</th>
<th>Type (Dia.)</th>
<th>Base</th>
<th>Length (Inches)</th>
<th>Color Temp. (K)</th>
<th>CRI</th>
<th>Rated Average Life (hrs)</th>
<th>Beam angle</th>
<th>Input Voltage 120 - 277 VAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-Bend Lamp</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LEDT8-17-850-B-FHx Ux</td>
<td>LED T8</td>
<td>G13-bipin</td>
<td>48</td>
<td>5000</td>
<td>83</td>
<td>50,000</td>
<td>270</td>
<td>ballast</td>
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<tr>
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<td>LED T8</td>
<td>G13-bipin</td>
<td>48</td>
<td>4000</td>
<td>83</td>
<td>50,000</td>
<td>270</td>
<td>ballast</td>
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<td>LEDT8-17-835-B-FHx Ux</td>
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<td>LED T8</td>
<td>G13-bipin</td>
<td>48</td>
<td>3000</td>
<td>83</td>
<td>50,000</td>
<td>270</td>
<td>ballast</td>
</tr>
</tbody>
</table>

*Note: When ordering U-Bend lamps selection of the U-Bend size extension is required.

U-Bend Size Extension

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<thead>
<tr>
<th>U6</th>
<th>Extension for 6” U-bend width</th>
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<tbody>
<tr>
<td>U3</td>
<td>Extension for 3” U-bend width</td>
</tr>
<tr>
<td>U1 (1-5/8”)</td>
<td>Extension for 1-5/8” U-bend width</td>
</tr>
</tbody>
</table>

Part number designation:
- XXX
  - F - Fixed end caps
  - S - Standard or H - High Performance
  - C - Clear or F – Frosted Lens

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