**KT-LED12.5T8-48G-835-D**

**T8 LED LAMP**

**DESCRIPTION**

12.5W T8 LED | 3500K | >83 CRI | High Efficiency

| LAMP TYPE: Linear |
| BULB TYPE: T8 LED |
| BASE TYPE: G13 (Medium Bi-Pin) |
| WATTAGE: ~12.5W |
| COLOR TEMPERATURE: 3500K |
| COLOR RENDERING INDEX (CRI): >83 |
| WARRANTY: 5 Years |

**PRODUCT FEATURES**

- Replacement for Conventional Fluorescent Lamp
- 50,000+ Hour Lifetime
- Approximately 50% More Energy Efficient than Standard F32T8 Lamps
- Environmentally Friendly: No Mercury Used
- Instant Startup
- Frosted Lens Eliminates Pixelation
- Listed on DLC Qualified Product List
- UL Classified
- Operating Temperature: -20°C/-4°F to 45°C/113°F
- Integral Driver (Isolated), Eliminates the Need for External Driver or Ballast
- 120+ Lumens per Watt

**OPERATING SPECIFICATIONS**

**ELECTRICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Input Voltage</th>
<th>Power Consumption</th>
<th>Power Factor</th>
<th>Input Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>120-277Vac</td>
<td>~12.5W</td>
<td>&gt;0.9</td>
<td>0.12A @ 120V</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.05A @ 277V</td>
</tr>
</tbody>
</table>

**PHOTOMETRIC CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Color Temperature (CCT)</th>
<th>3500K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luminous Flux</td>
<td>1700 lm</td>
</tr>
<tr>
<td>Color Rendering Index (CRI)</td>
<td>&gt;83</td>
</tr>
<tr>
<td>Efficacy</td>
<td>129 lm/W</td>
</tr>
<tr>
<td>Beam Angle</td>
<td>240°</td>
</tr>
<tr>
<td>Visible Light Area</td>
<td>325°</td>
</tr>
</tbody>
</table>

**POLAR CANDELA DISTRIBUTION**

Maximum Candela = 1248.55
Located at Horizontal Angle = 0, Vertical Angle = 0

1. **Violet** Vertical Plane through Horizontal Angles (90-270)
2. **Green** Vertical Plane through Horizontal Angles (0-180)

Keystone Technologies • 1390 Welsh Road, North Wales, PA 19454 • Phone (800) 464-2680 • Fax (888) 966-0556 • www.keystonetech.com
### Physical Characteristics

**Lamp Dimensions**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (Illuminated Length)</td>
<td>44.38”</td>
</tr>
<tr>
<td>B (Body Length)</td>
<td>47.15”</td>
</tr>
<tr>
<td>C (Diameter)</td>
<td>1.10”</td>
</tr>
</tbody>
</table>

**Nominal Length:** 48”  
**Base Type:** G13 (Medium Bi-Pin)

### Ordering Information

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Packaging Style</th>
<th>Pack Qty.</th>
<th>Item Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>KT-LED12.5T8-48G-835-D-CP</td>
<td>Carton Pack (Egg Crate Packaging)</td>
<td>25</td>
<td>Quick Ship</td>
</tr>
</tbody>
</table>

### Catalog Number Breakdown

**KT-LED12.5T8-48G-835-D-CP**

Keystone Technologies  
LED Lamp  
Wattage  
Lamp Type  
Nominal Glass Length (Inches)  
800 Series  
Color Temp.  
Direct Drive Series  
Packaging Style

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**Wiring Diagrams**

1. Cut all existing connections to ballast as shown below and remove ballast.

**Typical Ballast Configurations:**

- **Program Start**
  - LAMP
  - LAMP
  - BALLAST

- **Preheat with Starter**
  - S
  - LAMP
  - BALLAST

- **Instant Start**
  - LAMP
  - BALLAST

2. Re-wire fixture as shown below.

- **Direct Drive LED Tube**
  - No Live Connection

**CAUTION:** Use only non-shunted lampholders. Do not install product in a fixture with shunted lampholders (found in all fixtures using instant start ballasts). If the current lampholders are shunted, remove them and replace them with non-shunted lampholders. Make new connections directly to terminals as indicated above.

Keystone can provide any style replacement lampholders. Call us at 800-464-2680.