KT-LED12.5T8-48G-850-D
T8 LED LAMP

DESCRIPTION
12.5W T8 LED | 5000K | >83 CRI | High Efficiency

- LAMP TYPE: Linear
- BULB TYPE: T8 LED
- BASE TYPE: G13 (Medium Bi-Pin)
- WATTAGE: ~12.5W
- COLOR TEMPERATURE: 5000K
- 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 Pixilation
- 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, 0.05A @ 277V</td>
</tr>
</tbody>
</table>

PHOTOMETRIC CHARACTERISTICS

<table>
<thead>
<tr>
<th>Color Temperature (CCT)</th>
<th>5000K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luminous Flux</td>
<td>1850 lm</td>
</tr>
<tr>
<td>Color Rendering Index (CRI)</td>
<td>&gt;83</td>
</tr>
<tr>
<td>Efficacy</td>
<td>139 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>

RATED LIFE

L70 (Hours) | 50,000

SPECIFIC 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)
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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
  - LINE (YELLOW)
  - LINE (RED)
  - LINE (BLUE)
  - LINE (NEUTRAL)

- **PREHEAT WITH STARTER**
  - LAMP
  - LAMP
  - BALLAST
  - LINE (YELLOW)
  - LINE (RED)
  - LINE (BLUE)
  - LINE (NEUTRAL)

- **INSTANT START**
  - LAMP
  - LAMP
  - BALLAST
  - LINE (YELLOW)
  - LINE (RED)
  - LINE (BLUE)
  - LINE (NEUTRAL)

- **Typical Non-Shunted Lampholder**
  - Connect wires directly to these terminals
  - 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.

2. Re-wire fixture as shown below.

- **Direct Drive LED Tube**
  - No Live Connection
  - LINE (YELLOW)
  - LINE (RED)
  - LINE (BLUE)
  - LINE (NEUTRAL)

PHYSICAL CHARACTERISTICS

LAMP DIMENSIONS

- **A (Illuminated Length)**: 44.38”
- **B (Body Length)**: 47.15”
- **C (Diameter)**: 1.10”

**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-850-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-850-D-CP**

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

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

Specifications subject to change. Last revised on 1.23.18.