KT-LED9T8-48G-850-D
T8 LED LAMP

DESCRIPTION
9W T8 LED | 5000K | >83 CRI | High Efficiency

LAMP TYPE: Linear
BULB TYPE: T8 LED
BASE TYPE: G13 (Medium Bi-Pin)
WATTAGE: ~9W
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 pixelation
- UL Verified low optical flicker
- UL Classified
- Operating temperature: -20ºC/-4ºF to 45ºC/113ºF
- Integral driver (Isolated) eliminates the need for external driver or ballast
- Approximately ~175 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>~9.2W</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>1650 lm</td>
</tr>
<tr>
<td>Color Rendering Index (CRI)</td>
<td>&gt;83</td>
</tr>
<tr>
<td>Efficacy</td>
<td>183 lm/W</td>
</tr>
<tr>
<td>Beam Angle</td>
<td>240º</td>
</tr>
<tr>
<td>Visible Light Area</td>
<td>325º</td>
</tr>
</tbody>
</table>

RATED LIFE

L70 (Hours) | 50,000

SPECTRAL DISTRIBUTION

Flux (W/nm)

Wavelength (nm)

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:

**PROGAM START**

LAMP

LAMP

BALLAST

**PREHEAT WITH STARTER**

S

LAMP

BALLAST

**INSTANT START**

LAMP

LAMP

BALLAST

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.

![Wiring Diagram]

PHYSICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>A (Body Length)</th>
<th>47.15”</th>
</tr>
</thead>
<tbody>
<tr>
<td>B (Illuminated 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-LED9T8-48G-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-LED9T8-48G-850-D-CP**

1. Keystone Technologies
2. LED Lamp
3. Wattage
4. Lamp Type
5. Nominal Length (Inches)
6. Glass
7. 800 Series
8. Color Temperature
9. DirectDrive Series
10. Packaging Style

Keystone Technologies • Philadelphia, PA • Phone (800) 464-2680 • www.keystonetech.com
Specifications subject to change. Last revised on 06.12.19