LED T8 PHF
Tubular lamps

Product information

The GE LED T8 Plastic HF range offers a safe, reliable and affordable energy saving alternative to 18W, 36W and 58W standard fluorescent T8 lamps. These highly efficient LED T8 tubes have an exceptionally high lumen output combined with 50,000-hour life span.

Available in 60cm, 120cm and 150cm lengths, GE LED T8 HF tubes can be used as a direct replacement for linear fluorescent tubes in existing luminaires operating on electronic control gear. To the great satisfaction of end-users, the upgraded fixtures will deliver huge energy savings and reduced operating costs driven by the low power consumption and the increased life of the LED T8 PHF tubes.

Specification Features

High Efficiency
- Outstanding efficiency up to 136 lm/W
- A+ energy efficiency rating
- Energy savings up to 60%

Long life
- 50,000hrs L70 rated life for reduced maintenance cost
- Lasts 2.5-3x longer than standard fluorescent lamps

High Quality light
- Light output up to 3400 lumen
- Excellent color rendering CRI 80+
- Instant on, no flicker

Easy retrofit
- Safe installation, directly fits into standard T8 LFL G13 sockets
- No modification done to luminaire

Environmentally friendly solution
- Free from harmful lead or mercury
- Fully compliant with material restriction requirements of RoHS

IEC Standards:

- EN 55015: Limits and methods of measurement of radio disturbance characteristics of electrical lighting
- EN 61000-3-2: Limits for harmonic current emissions (equipment rated current <=16A)
- EN 61000-3-3: Limitation of voltage fluctuations and flicker in low voltage supply systems (equipment rated current <=16A)
- EN 61547: Specification for equipment for general lighting purposes, EMC Immunity requirements
- EN 62493:2010: Assessment of lighting equipment related to human exposure to electromagnetic field
- IEC 62471: Photo biological safety of lamps and lamp systems
- IEC 60061-1: Lamp Caps
- IEC 61195: IEC Based Safety Standard Requirements for Double-capped Fluorescent Lamps
- IEC 60598-1: Luminaires – Part 1: General requirements and tests
- IEC 60598-2: Luminaires – Part 2: Particular requirements (all sections)
- IEC 62031: LED modules for general lighting-Safety specifications
- IEC 61347-2-13: Particular requirements for DC or AC supplied electronic control gear for LED modules
- IEC 62776: Double-capped LED lamps for general lighting services - Safety specifications

Application areas

- Offices
- Industrial
- Hospitality
- Car Park
Specification summary

<table>
<thead>
<tr>
<th>Rated Wattage (W)</th>
<th>Length (mm)</th>
<th>CCT (K)</th>
<th>Cap</th>
<th>Product Description</th>
<th>Rated Lumen (Im)</th>
<th>Life L70 (hrs)</th>
<th>CRI (Ra)</th>
<th>Energy Efficiency Class</th>
<th>Pack Qty (pcs)</th>
<th>Product Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>600</td>
<td>3000</td>
<td>G13</td>
<td>LED 9/T8 PHF 2ft/830 BX1/10</td>
<td>1100</td>
<td>50 000</td>
<td>80+</td>
<td>A+</td>
<td>10</td>
<td>93041502</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4000</td>
<td>G13</td>
<td>LED 9/T8 PHF 2ft/840 BX1/10</td>
<td>1200</td>
<td>50 000</td>
<td>80+</td>
<td>A+</td>
<td>10</td>
<td>93041503</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6500</td>
<td>G13</td>
<td>LED 9/T8 PHF 2ft/865 BX1/10</td>
<td>1200</td>
<td>50 000</td>
<td>80+</td>
<td>A+</td>
<td>10</td>
<td>93041504</td>
</tr>
<tr>
<td>18</td>
<td>1200</td>
<td>3000</td>
<td>G13</td>
<td>LED 18/T8 PHF 4ft/830 BX1/10</td>
<td>2100</td>
<td>50 000</td>
<td>80+</td>
<td>A+</td>
<td>10</td>
<td>93041505</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4000</td>
<td>G13</td>
<td>LED 18/T8 PHF 4ft/840 BX1/10</td>
<td>2300</td>
<td>50 000</td>
<td>80+</td>
<td>A+</td>
<td>10</td>
<td>93041836</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6500</td>
<td>G13</td>
<td>LED 18/T8 PHF 4ft/865 BX1/10</td>
<td>2300</td>
<td>50 000</td>
<td>80+</td>
<td>A+</td>
<td>10</td>
<td>93041837</td>
</tr>
<tr>
<td>25</td>
<td>1500</td>
<td>3000</td>
<td>G13</td>
<td>LED 25/T8 PHF 5ft/830 BX1/10</td>
<td>3150</td>
<td>50 000</td>
<td>80+</td>
<td>A+</td>
<td>10</td>
<td>93041838</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4000</td>
<td>G13</td>
<td>LED 25/T8 PHF 5ft/840 BX1/10</td>
<td>3400</td>
<td>50 000</td>
<td>80+</td>
<td>A+</td>
<td>10</td>
<td>93041839</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6500</td>
<td>G13</td>
<td>LED 25/T8 PHF 5ft/865 BX1/10</td>
<td>3400</td>
<td>50 000</td>
<td>80+</td>
<td>A+</td>
<td>10</td>
<td>93041840</td>
</tr>
</tbody>
</table>

Specifications

Nominal Voltage 50-110V
Operating frequency 25,000-85,000Hz
Power factor ≥ 0,90
Operating temperature range -20°C ...+40°C
Starting time < 0,5 s
Number of switching cycles 50,000
Lumen maintenance at B50 70%
Beam angle 150°
Dimmable No
CCT Steps <6

Operation and maintenance

Store and use the lamps the same way as standard fluorescent lamps.
- Lamps should be kept free from contamination.
- Switch off mains supply before installing/removing lamp.
- Good condition of the lamp-holder contacts is important to ensure proper operation of lamp.
- Use in fully enclosed fixtures may affect life performance.
- Not for use in emergency lighting circuits
- Tube can be operated with electronic ballasts; it can’t be operated directly from mains voltage. [List of ballasts tested for compatibility can be found on http://www.gelighting.com/LightingWeb/emea/products/highlights/led-tubes/product-features/]

Dimensions [mm]

<table>
<thead>
<tr>
<th>Maximum overall length [mm]</th>
<th>2ft</th>
<th>4ft</th>
<th>5ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>600</td>
<td>1200</td>
<td>1500</td>
</tr>
<tr>
<td>B</td>
<td>597</td>
<td>1207</td>
<td>1507</td>
</tr>
<tr>
<td>C</td>
<td>604</td>
<td>1213</td>
<td>1514.2</td>
</tr>
<tr>
<td>D</td>
<td>28</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>Weight [g]</td>
<td>150</td>
<td>280</td>
<td>350</td>
</tr>
</tbody>
</table>

GE Lighting is constantly developing and improving its products. For this reason, all product descriptions in this brochure are intended as a general guide, and we may change specifications from time to time in the interest of product development, without prior notification or public announcement. All descriptions in this publication present only general particulars of the goods to which they refer and shall not form part of any contract. Data in this guide has been obtained in controlled experimental conditions. However, GE Lighting cannot accept any liability arising from the reliance on such data to the extent permitted.