LED Mercury

Product information

GE’s LED Mercury lamp offers safe, reliable and affordable energy saving alternative to HID Mercury lamps used in outdoor and industrial applications. GE’s new 35W LED Mercury lamps can offer direct retrofit replacement for 80W and 125W HID Mercury installations. This replacement can be completed simply without costly upgrade. The robust lamp design with E27 base ensures direct retrofitting and easy handle during installation. The upgraded fixture will deliver up to 75% energy saving and reduced operating cost driven by the increased life.

Specification Features

Long life
- 40,000 hours rated life (L70)
- Lasts 2x longer than typical HID Mercury lamp
- Active cooling inside the lamp to ensure long life for this high power LED lamp

High efficiency
- Outstanding energy efficiency up to 137 lm/w
- A++ energy efficiency rating
- Uses 75% less energy than 125W HID Mercury

High Quality lighting effect
- High uniformity of light with optimized light distribution
- Available with a CRI of 70
- High color consistency of <6 steps

Environmentally Conscious
- Energy efficient lamp that contains no lead or Mercury

Features

- 35W LED lamp to deliver energy saving up to 75% versus HID Mercury lamps
- High light output of 4800 lumens
- Available in 3000 and 4000K
- Compatible with 80 and 125W Magnetic HID Mercury ballast and also can be operated on Mains Voltage
- IP20 rating

Application areas

- Street and Pedestrian
- Commercial Areas / City Beautification / Architectural
- Industrial
IEC standards

- **IEC 62560**: Self-ballasted LED-lamps for general lighting services by voltage > 50 V – Safety specifications
- **IEC 62471**: Photobiological safety of lamps and lamp systems
- **EN 55014-1**: Emission – Electrical motor-operated and thermal appliances for household and similar purposes, electrical tools and similar electrical apparatus
- **EN 55014-2**: Immunity - Household appliances, electric tools and similar
- **EN 55015**: Limits and methods of measurement of radio disturbance characteristics of electrical lighting
- **EN 61547**: Specification for equipment for general lighting purposes. EMC immunity requirements
- **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 62493**: Assessment of lighting equipment related to human exposure to electromagnetic field
- **IEC 62776**: Double-capped LED lamps designed to retrofit linear fluorescent lamps – Safety Specifications –Clause 6.4.2, Clause 6.5, Clause 13.7, 13.8 & 13.9
- **IEC 60598-1**: Luminaires - Part 1: General requirements and tests – Clause 10.2.2
- **IEC 60061-1**: Lamp Caps and holders together with gauges for the control of interchangeability and safety

### Specification summary

<table>
<thead>
<tr>
<th>Wattage [W]</th>
<th>Cap</th>
<th>CCT (K)</th>
<th>Product Description</th>
<th>Lumens (lm)</th>
<th>Rated life L70 (h)</th>
<th>CRI (Ra)</th>
<th>EEC</th>
<th>Operating Position</th>
<th>Pack Qty</th>
<th>Product Code</th>
</tr>
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<tbody>
<tr>
<td>35</td>
<td>E27</td>
<td>3000</td>
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### Electrical and Photometric Characteristics

- **Ambient temperature range**
  - -30°C to +40°C
- **Number of switching cycles**
  - >20,000
- **Lumen maintenance at B50**
  - 70%
- **Color consistency**
  - <6 steps
- **Dimmable**
  - No
- **Fixture rating**
  - can be used in enclosed fixture only
- **Starting time**
  - <0.5sec
- **Weight**
  - 360g
- **Lamp Voltage**
  - 220-240V
- **Lamp Power Factor**
  - >0.9
- **Cooling**
  - Active cooling with fan inside the lamp
- **Surge Voltage protection**
  - 4kV when used together with Magnetic Mercury ballast* / 1kV for lamp only

* Lamp’s surge performance in fixture may vary with different fixture & ballast according to their design and condition.
Dimensions [mm]

Operation and maintenance

Store and use the lamps the same way as standard high pressure mercury 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 enclosed fixtures only.
- Not for use in emergency lighting circuits.