Philips Master Value
LED GU10

A dimmable LED replacement for a halogen (35/50W) spot that provides an highly focused beam of white light.

This replacement lamp provides the light intensity and quality produced by traditional halogen reflector lamps of 35/50W. MASTER VALUE LEDspot MV GU10 is ideal for a myriad of applications including track lighting, general architectural and landscape lighting, display case fixtures and cabinet lighting, plus industrial OEM equipment lighting.

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Design highlights

- 90% energy saving compared to standard halogen spots
- Long lifetime of 35,000 hours (F50, L70)
- Operates at 230V AC and its form-factor is designed as a direct retrofit into all GU10 holders
- Dimmable
- Highly focused beam for a clearly defined beam spread
- CCT: 2700K, 4000K
- Beam angle: 40 degree
- No UV and Cool Beam (no IR)
- Environmental friendly, without Mercury or any other hazardous substances
- RoHS compliant

Application areas

Philips Master Value LEDspot MV GU10 is designed for spot and general lighting applications in hospitality and retail industries. Unlike the conventional halogen reflector lamp, this GU10 lamp consumes only 3.5/4.3W power per lamp and has a long lifetime of 35,000 hours. It is compatible with existing GU10 holders and minimizes maintenance costs without any reduction in brightness. Main focus areas are hotels, restaurants, cafes and shops. They are especially suitable for accent lighting in public areas such as:

- corridors / stairway / washroom
- lobby / reception areas
- display racks / shop windows

Application notes

- Operating temperature range is between -20 °C and 45 °C ambient
- Only to apply in dry indoor environments and most of open fixtures with GU10 lamp-holders that offer sufficient space (10 mm free air space)
- Not intended for use with emergency light fixtures or exit lights
### Technical Specifications

<table>
<thead>
<tr>
<th>12NC</th>
<th>Description</th>
<th>Wattage</th>
<th>Replacement Wattage</th>
<th>Beam Angle</th>
<th>Power Factor</th>
<th>Color Temp.</th>
<th>Light Output</th>
<th>Lifetime</th>
<th>MBCP</th>
<th>CRI</th>
<th>KSA EEI</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAS LEDspot MV VLE D 3.5-35W GU10 827 40D</td>
<td>3.5</td>
<td>35</td>
<td>40</td>
<td>0.8</td>
<td>2700</td>
<td>265</td>
<td>35,000</td>
<td>550</td>
<td>80</td>
<td>B</td>
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<td></td>
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<td>MAS LEDspot MV VLE D 4.3-50W GU10 827 40D</td>
<td>4.3</td>
<td>50</td>
<td>40</td>
<td>0.8</td>
<td>2700</td>
<td>350</td>
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### Fixture compatibility

<table>
<thead>
<tr>
<th>Type</th>
<th>C max. Overall Length (mm)</th>
<th>D max. Diameter (mm)</th>
<th>max. Weight (gram)</th>
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<tr>
<td>MAS LEDspot MV VLE D 3.5-35W GU10</td>
<td>56</td>
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### Spectral Power Distribution

**Spectrum Master Value LEDspot MV GU10 827**

![Spectrum Master Value LEDspot MV GU10 827](image1)

**Spectrum Master Value LEDspot MV GU10 840**

![Spectrum Master Value LEDspot MV GU10 840](image2)
### MAS LEDspot MV VLE D 3.5-35W GU10 827 40D

<table>
<thead>
<tr>
<th>Light output ratio</th>
<th>1.00</th>
<th>I_max</th>
<th>550 cd</th>
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<tr>
<td>Service upward</td>
<td>0.00</td>
<td>BS (1/2 I_max)</td>
<td>19°, 18°</td>
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<tr>
<td>Service downward</td>
<td>1.00</td>
<td>VBA (1/2 E_v)</td>
<td>17°, 16°</td>
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**Polar Intensity diagram**

**Cartesian Intensity diagram**

**Beam diagram**

**Visual impact diagram**

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**Cartesian Intensity diagram**

**Beam diagram**

**Visual impact diagram**

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<th>Light output ratio</th>
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<th>750 cd</th>
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<tr>
<td>Service upward</td>
<td>0.00</td>
<td>BS (1/2 I_max)</td>
<td>2 x 18°</td>
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<tr>
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**Polar intensity diagram**

**Cartesian intensity diagram**

**Beam diagram**

**Visual impact diagram**

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Technical application guide - Philips Master Value LED GU10
Lifetime and sustainability

Failure rate curve of Master Value LEDspot MV GU10

- Philips Master Value LEDspot MV GU10 has a lifetime of 35,000 hours (F50, L70), defined as the number of hours before 50% of the lamps will fall below 70% of their initial lumens.

- Lifetime estimation is based on the application environment condition: at room temperature (25 °C), free air burning, base down burning position in 10 mm free air to simulate an inluminaire condition and at rated voltage.
Temperature

Master Value LEDspot MV GU10 is designed for operation in all GU10 lighting installations in open fixtures (10 mm free air space is needed around the lamp housing to ensure long-life).

GU10 Value 35W

GU10 Value 50W

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