

PRODUCT DATASHEET

LED Star MR16 20 36° 2.6W 827 GU5.3

LED STAR MR16 12 V | Low-voltage LED reflector lamps MR16 with retrofit pin base



Areas of application

- Shops
- Hospitality
- Museums, art galleries
- Residential interiors
- As a downlight for marking walkways, doors, stairs, etc.
- Spotlighting for accents
- Display cabinets and shop windows
- Spotlighting heat-sensitive objects such as food, plants, etc.
- Outdoor use in suitable outdoor luminaires only

Product benefits

- Low energy consumption
- Easy replacement of halogen lamps due to compact full glass design and single optic
- Instant 100 % light, no warm-up time
- Ideal for economical spotlighting

Product features

- LED alternative to low voltage halogen lamps
- Mercury-free lamps



TECHNICAL DATA

Electrical data

| | |
|--|----------|
| Nominal wattage | 2.6 W |
| Construction wattage | 2.60 W |
| Nominal voltage | 12 V |
| Operating mode | 12V AC |
| Claimed equiv. conventional lamp power | 20 W |
| Nominal current | 330 mA |
| Type of current | AC/DC |
| Inrush current | 18.8 A |
| Operating frequency | 50/60 Hz |
| Mains frequency | 50/60 Hz |
| Max. lamp no. on circuit break. 10 A (B) | 31 |
| Max. lamp no. on circuit break. 16 A (B) | 40 |
| Power factor λ | > 0.50 |

Photometrical data

| | |
|---|---------------------------|
| Luminous intensity | 500 cd |
| Luminous flux | 210 lm |
| Nominal useful luminous flux 90° | 210 lm |
| Luminous efficacy | 80 lm/W |
| Lumen main.fact.at end of nom.life time | 0.93 |
| Light color (designation) | Warm White |
| Color temperature | 2700 K |
| Color rendering index Ra | 80 |
| Light color | 827 |
| Standard deviation of color matching | ≤ 6 sdc _m |
| Rated peak intensity | 500 cd |
| Rated LLMF at 6,000 h | 0.80 |
| Flickering metric (Pst LM) | 1 |
| Stroboscope effect metric (SVM) | 0,4 |

Light technical data

| | |
|---------------------|----------|
| Beam angle | 36 ° |
| Warm-up time (60 %) | < 0.50 s |

| | |
|---------------|---------|
| Starting time | < 0.5 s |
|---------------|---------|

Dimensions & Weight

| | |
|------------------|----------|
| Overall length | 44.00 mm |
| Diameter | 50.00 mm |
| Maximum diameter | 50 mm |
| Product weight | 34.00 g |

Temperatures & operating conditions

| | |
|--------------------------------------|--------------|
| Ambient temperature range | -20...+40 °C |
| Maximum temperature at tc test point | 70 °C |

Lifespan

| | |
|--|---------|
| Lifespan L70/B50 at 25 °C | 15000 h |
| Number of switching cycles | 100000 |
| Lumen maintenance at end of service lifetime | 0.70 |
| Rated lamp survival factor at 6,000 h | ≥ 0.90 |

Additional product data

| | |
|-----------------------------|--|
| Base (standard designation) | GU5.3 |
| Mercury content | 0.0 mg |
| Mercury-free | Yes |
| Product remark | All technical parameters apply to the entire lamp / Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value |

Capabilities

| | |
|----------|----|
| Dimmable | No |
|----------|----|

Certificates & Standards

| | |
|--|----------------|
| Energy efficiency class | F 1) |
| Energy consumption | 3.00 kWh/1000h |
| Type of protection | IP20 |
| Standards | CE / EAC |
| Photobiological safety group acc. to EN62778 | RG1 |

1) Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)

Country-specific categorizations

| | |
|-----------------|-----------------|
| Order reference | LEDSMR162036 2, |
|-----------------|-----------------|

Energy labelling regulation data acc EU 2019/2015

| | |
|--|----------------|
| Lighting technology used | LED |
| Non-directional or directional | DLS |
| Mains or non-mains | NMLS |
| Light source cap-type (or other electric interface) | GU5.3 |
| Connected light source (CLS) | No |
| Color-tuneable light source | No |
| Envelope | No |
| High luminance light source | No |
| Anti-glare shield | No |
| Correlated colour temperature type | SINGLE_VALUE |
| Standby power | 0 W |
| Networked standby power for CLS | 0 W |
| Claim of equivalent power | Yes |
| Length | 44.00 mm |
| Height | 50.00 mm |
| Width | 50.00 mm |
| Chromaticity coordinate x | 0,4578 |
| Chromaticity coordinate y | 0,4101 |
| R9 Colour rendering index | 1 |
| Beam angle correspondence | NARROW_CONE_90 |
| Survival factor | 0,90 |
| Displacement factor | 0.00 |
| LED light source replaces a fluorescent light source | No |
| EPREL ID | 1235156 |
| Model number | AC42770 |

DOWNLOAD DATA

Documents and certificates



Declarations Of Conformity CE

LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4099854048050 | Folding box 3 | 51 mm x 122 mm x 92 mm | 121.00 g | 0.57 dm ³ |
| 4099854048067 | Shipping box 30 | 264 mm x 251 mm x 71 mm | 1383.00 g | 4.70 dm ³ |

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

References / Links

- For further products and actual information concerning LED lamps see www.ledvance.com/ledlamps
- For Guarantee see www.ledvance.com/guarantee
- Further information see www.ledvance.com/low-voltage-ledlamps

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