

PRODUCT DATASHEET

LED Star MR11 20 36° 1.8W 827 GU4

LED STAR MR11 12 V | LED reflector lamps



Areas of application

- Display cabinets and shop windows
- Museums, art galleries
- Exhibition rooms
- Residential interiors
- As a downlight for marking walkways, doors, stairs, etc.
- Outdoor use in suitable outdoor luminaires only

Product benefits

- Long lifetime of up to 15,000 h
- Lower energy consumption than incandescent or halogen lamps
- Easy relamping thanks to compact design and GU4 base

Product features

- Professional LED alternative to halogen MR11 lamps
- Mercury-free lamps



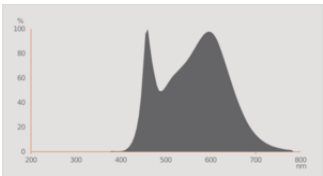
TECHNICAL DATA

Electrical data

| | |
|--|-----------|
| Nominal wattage | 1.8 W |
| Construction wattage | 1.80 W |
| Nominal voltage | 12 V |
| Operating mode | 12V AC/DC |
| Claimed equiv. conventional lamp power | 20 W |
| Nominal current | 240 mA |
| Type of current | AC/DC |
| Inrush current | 0.642 A |
| Max. lamp number on MCB B10 A | 47 |
| Max. lamp number on MCB B16 A | 75 |
| Total harmonic distortion | ≤ 120 % |
| Power factor λ | > 0.50 |

Photometrical data

| | |
|---|------------|
| Luminous intensity | 400 cd |
| Luminous flux | 184 lm |
| Nominal useful luminous flux 90° | 184 lm |
| Luminous efficacy | 102 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 |
| Rated peak intensity | 400 cd |
| Flickering metric (Pst LM) | 1.0 |
| Stroboscope effect metric (SVM) | 0.4 |



Bridgelux 40E-13H-9B 4000K

Light technical data

| | |
|---------------------|----------|
| Beam angle | 36 ° |
| Warm-up time (60 %) | < 0.50 s |
| Starting time | < 0.5 s |

Dimensions & Weight

| | |
|------------------|----------|
| Overall length | 38.00 mm |
| Diameter | 35.00 mm |
| Maximum diameter | 35 mm |
| Product weight | 17.00 g |

Temperatures & operating conditions

| | |
|--------------------------------------|--------------|
| Ambient temperature range | -20...+40 °C |
| Maximum temperature at tc test point | 57.45 °C |

Lifespan

| | |
|--|---------|
| Lifespan L70/B50 at 25 °C | 15000 h |
| Number of switching cycles | 100000 |
| Lumen maintenance at end of service lifetime | 0.93 |

Additional product data

| | |
|-----------------------------|--|
| Base (standard designation) | GU4 |
| Mercury content | 0.0 mg |
| Mercury-free | Yes |
| Design / version | Spot |
| 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 | E ¹⁾ |
| Energy consumption | 2.00 kWh/1000h |
| Type of protection | IP20 |
| Standards | CE / EAC / UKCA |
| 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 | LEDsMR112036 1, |
|-----------------|-----------------|

LOGISTICAL DATA

| | |
|------------------------------|--------------|
| Temperature range at storage | -20...+80 °C |
|------------------------------|--------------|

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) | GU4 |
| 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 |
| Claim of equivalent power | Yes |
| Length | 38.00 mm |
| Height | 35.00 mm |
| Width | 35.00 mm |
| Chromaticity coordinate x | 0.463 |
| Chromaticity coordinate y | 0.420 |
| R9 Colour rendering index | 1 |
| Beam angle correspondence | NARROW_CONE_90 |
| Survival factor | 0.90 |


| | |
|--|---|
| Displacement factor | 0.5 |
| LED light source replaces a fluorescent light source | No |
| EPREL ID | 1402916,522967,1841947,2368084 |
| Model number | AC32694,AC08769,AC57958,AC57958,AC83952 |

Safety advice

- Do not touch the lamp if broken.
- Must not be used if outer bulb is defective.

DOWNLOAD DATA

| Documents and certificates | | Document name |
|---|---------------------------------|----------------|
|  | Declarations of conformity | LED lamp MR11 |
|  | Declarations of conformity | LED MR11, MR16 |
|  | Declarations of conformity UKCA | LED MR11 MR16 |

| Photometric and lighting design files | | Document name |
|---|-----------------------------|----------------------------|
|  | Spectral power distribution | Bridgelux 40E-13H-9B 4000K |

LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075433403 | Folding box 1 | 34 mm x 49 mm x 95 mm | 25.00 g | 0.16 dm ³ |
| 4058075617070 | Shipping box 6 | 121 mm x 109 mm x 104 mm | 185.00 g | 1.37 dm ³ |
| 4058075452923 | Shipping box 80 | | | |
| 4058075617087 | Shipping box 48 | 258 mm x 234 mm x 234 mm | 2006.00 g | 14.13 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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