

# PRODUCT DATASHEET

## ST MR11 20 36 ° 2.5 W/2700 K 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
- Low energy consumption
- Easy relamping thanks to compact design and GU4 base

### Product features

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



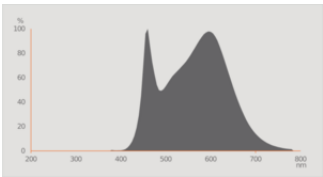
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**TECHNICAL DATA****Electrical data**

|                                          |          |
|------------------------------------------|----------|
| Nominal wattage                          | 2.5 W    |
| Construction wattage                     | 2.50 W   |
| Nominal voltage                          | 12 V     |
| Claimed equiv. conventional lamp power   | 20 W     |
| Nominal current                          | 310 mA   |
| Type of current                          | AC       |
| Inrush current                           | 18 A     |
| Operating frequency                      | 50/60 Hz |
| Mains frequency                          | 50/60 Hz |
| Max. lamp no. on circuit break. 10 A (B) | 35       |
| Max. lamp no. on circuit break. 16 A (B) | 55       |
| Power factor $\lambda$                   | > 0.50   |

**Photometrical data**

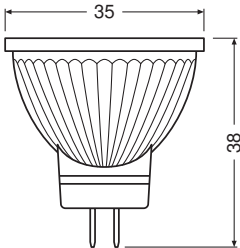
|                                         |               |
|-----------------------------------------|---------------|
| Luminous intensity                      | 400 cd        |
| Luminous flux                           | 184 lm        |
| Nominal useful luminous flux 90°        | 184 lm        |
| Luminous efficacy                       | 73 lm/W       |
| Lumen main.fact.at end of nom.life time | 0.70          |
| Light color (designation)               | Warm White    |
| Color temperature                       | 2700 K        |
| Color rendering index Ra                | 80            |
| Light color                             | 827           |
| Standard deviation of color matching    | $\leq 6$ sdcn |
| Rated peak intensity                    | 400 cd        |
| Rated LLMF at 6,000 h                   | 0.80          |
| Flickering metric (Pst LM)              | 1.0           |
| Stroboscope effect metric (SVM)         | 0.4           |



Light technical data

|                                    |          |
|------------------------------------|----------|
| Beam angle                         | 36 °     |
| Warm-up time (60 %)                | < 0.50 s |
| Starting time                      | < 0.5 s  |
| Rated beam angle (half peak value) | 36.00 °  |

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 | 75 °C        |

Lifespan

|                                  |         |
|----------------------------------|---------|
| Lifespan                         | 15000 h |
| Number of switching cycles       | 100000  |
| Lumen maintenance at end of serv | 0.70    |

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Additional product data

|                             |                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Base (standard designation) | GU4                                                                                                                                                                                                                                                                                                                                          |
| 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                      | G <sup>1)</sup> |
| Energy consumption                           | 3.00 kWh/1000h  |
| Type of protection                           | IP20            |
| Standards                                    | CE / CB / EAC   |
| Photobiological safety group acc. to EN62778 | RG1             |

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

Country-specific categorizations

|                 |                 |
|-----------------|-----------------|
| Order reference | LED5MR112036 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) | 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          |

|                                                      |                 |
|------------------------------------------------------|-----------------|
| Networked standby power for CLS                      | 0 W             |
| Claim of equivalent power                            | Yes             |
| Length                                               | 38.00 mm        |
| Height                                               | 35.00 mm        |
| Width                                                | 35.00 mm        |
| Chromaticity coordinate x                            | 0.458           |
| Chromaticity coordinate y                            | 0.410           |
| R9 Colour rendering index                            | 1               |
| Beam angle correspondence                            | NARROW_CONE_90  |
| Survival factor                                      | 0.90            |
| Displacement factor                                  | /               |
| LED light source replaces a fluorescent light source | No              |
| EPREL ID                                             | 1402916,522967  |
| Model number                                         | AC32694,AC08769 |

DOWNLOAD DATA

| Documents and certificates                                                          |                               |
|-------------------------------------------------------------------------------------|-------------------------------|
|  | Declarations Of Conformity CE |
| Photometric and lighting design files                                               |                               |
|  | Spectral power distribution   |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume    |
|---------------|------------------------------|--------------------------------------|--------------|-----------|
| 4058075433403 | Folding box<br>1             | 34 mm x 49 mm x 95 mm                | 25.00 g      | 0.16 dm³  |
| 4058075617070 | Shipping box<br>6            | 121 mm x 109 mm x 104 mm             | 199.00 g     | 1.37 dm³  |
| 4058075452923 | Shipping box<br>80           |                                      |              |           |
| 4058075617087 | Shipping box<br>48           | 258 mm x 234 mm x 234 mm             | 2014.00 g    | 14.13 dm³ |

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.

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- For further products and actual information concerning LED lamps see [www.ledvance.com/ledlamps](http://www.ledvance.com/ledlamps)
- For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)
- Further information see [www.ledvance.com/low-voltage-ledlamps](http://www.ledvance.com/low-voltage-ledlamps)

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Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

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