

PRODUCT DATASHEET ST MR16 35 36 ° 3.8 W/2700 K 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

- Lower energy consumption than incandescent or halogen lamps
- 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





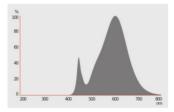
TECHNICAL DATA

Electrical data

| Nominal wattage | 3.8 W |
|--|---------|
| Construction wattage | 3.80 W |
| Nominal voltage | 12 V |
| Claimed equiv. conventional lamp power | 35 W |
| Nominal current | 490 mA |
| Type of current | AC/DC |
| Inrush current | 22 A |
| Operating frequency | 5060 Hz |
| Mains frequency | 5060 Hz |
| Max. lamp number on MCB B10 A | 21 |
| Max. lamp number on MCB B16 A | 35 |
| Power factor λ | > 0.50 |

Photometrical data

| Luminous intensity | 790 cd |
|---|------------|
| Luminous flux | 350 lm |
| Nominal useful luminous flux 90° | 350 lm |
| Luminous efficacy | 92 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 | ≤6 sdcm |
| Rated peak intensity | 790 cd |
| Rated LLMF at 6,000 h | 0.80 |
| | |



349927_2700K_Evl_5630.eps

Light technical data

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

Dimensions & Weight

| Overall length | 46.00 mm |
|------------------|----------|
| Diameter | 51.00 mm |
| Maximum diameter | 51 mm |
| Product weight | 35.00 g |

Temperatures & operating conditions

| Ambient temperature range | -20+40 °C |
|--------------------------------------|-----------|
| Maximum temperature at tc test point | 77 °C |

Lifespan

| 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 |

| All technical parameters apply to the entire lamp / Due to the comple 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 | n |
|---|---|
|---|---|

Capabilities

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

Certificates & Standards

| Energy efficiency class | F 1) |
|--|----------------|
| Energy consumption | 5.00 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 E (lowest efficiency)

Country-specific categorizations

| ILCOS | DRR-4,6/827-12-GU5,3-50/36 |
|-----------------|----------------------------|
| Order reference | LEDSMR1635363,8 |

Energy labelling regulation data acc EU 2019/2015

| Light source cap-type (or other electric interface) | GU5.3 |
|---|--------------|
| Correlated colour temperature type | SINGLE_VALUE |
| Length | 46.00 mm |
| Height | 51.00 mm |
| Width | 51.00 mm |

Safety advice

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

DOWNLOAD DATA

| Photometric and lighting design files Docume | | Document name |
|--|-----------------------------|---------------------------|
| | Spectral power distribution | 349927_2700K_EvI_5630.eps |

LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4058075431294 | Blister 1 | 50 mm x 140 mm x 120 mm | 49.00 g | 0.84 dm ³ |
| 4058075431300 | Shipping box 10 | 290 mm x 254 mm x 134 mm | 608.00 g | 9.87 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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