

# PRODUCT DATASHEET

## ST MR16 12 V 50 36 ° 8 W/4000 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 applications only in suitable luminaires

### 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	8 W
Construction wattage	8.00 W
Nominal voltage	12 V
Claimed equiv. conventional lamp power	50 W
Nominal current	720 mA
Type of current	AC/DC
Inrush current	11.2 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp no. on circuit break. 10 A (B)	22
Max. lamp no. on circuit break. 16 A (B)	36
Power factor $\lambda$	0.90

### Photometrical data

Luminous intensity	1000 cd
Luminous flux	621 lm
Nominal useful luminous flux 90°	621 lm
Luminous efficacy	77 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Color rendering index Ra	≥80
Light color	840
Standard deviation of color matching	≤6 sdcM
Rated peak intensity	1000 cd
Rated LLMF at 6,000 h	0.80
Flickering metric (Pst LM)	0.2
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	46.00 mm
Diameter	51.00 mm
Maximum diameter	51 mm
Product weight	46.00 g

### Temperatures & operating conditions

Ambient temperature range	-20...+40 °C
Maximum temperature at tc test point	102 °C

### Lifespan

Nominal lamp life time	15000 h
Number of switching cycles	100000
Lumen maintenance at end of serv	0.70
Rated lamp survival factor at 6,000	≥ 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
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## Certificates & Standards

Energy efficiency class	G <sup>1)</sup>
Energy consumption	9.00 kWh/1000h
Type of protection	IP20
Standards	CE / 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	LEDSMR165036 8W
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## 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
Claim of equivalent power	Yes
Length	46.00 mm
Height	51.00 mm
Width	51.00 mm
Chromaticity coordinate x	0.379
Chromaticity coordinate y	0.369
R9 Colour rendering index	1
Beam angle	NARROW_CONE_90
Survival factor	0,9
Displacement factor	0.70
LED light source replaces a fluorescent light source	not applicable

EPREL ID	523008,523008,523008
Model number	AC32717,AC32717,AC32717

## DOWNLOAD DATA

DOWNLOAD DATA	
	Declarations of conformity LED lamps MR16

## LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075433786	Folding box 1	49 mm x 49 mm x 95 mm	56.00 g	0.23 dm <sup>3</sup>
4058075617438	Shipping box 6	168 mm x 111 mm x 71 mm	411.00 g	1.32 dm <sup>3</sup>
4058075433793	Shipping box 10	266 mm x 111 mm x 71 mm	633.00 g	2.10 dm <sup>3</sup>

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](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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