

# PRODUCT DATASHEET

## ST MR16 12 V 50 36° 8 W/2700K GU5.3

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



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### 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

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### 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

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### PRODUCT FEATURES

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



## TECHNICAL DATA

### Electrical data

Rated wattage	8.00 W
Nominal wattage	8.00 W
Nominal voltage	12 V
Claimed equiv. conventional lamp power	50 W
Max. lamp no. on circuit break. 10 A (B)	22
Max. lamp no. on circuit break. 16 A (B)	36
Operating frequency	50/60 Hz
Power factor $\lambda$	0.90

### Photometrical data

Nominal luminous flux	621 lm
Rated luminous flux	621 lm
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Warm White
Color temperature	2700 K
Luminous flux	621 lm
Color rendering index Ra	$\geq 80$
Standard deviation of color matching	$\leq 6$ sdc
Rated color temperature	2700 K
Color rendering index Ra	$\geq 80$
Nominal useful luminous flux 90°	621 lm
Rated useful luminous flux 90°	621 lm
Rated peak intensity	1000 cd

### Light technical data

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

Dimensions & weight



<b>Overall length</b>	46.0 mm
<b>Diameter</b>	50.0 mm
<b>Outer bulb</b>	MR51
<b>Length</b>	46.0 mm
<b>Maximum diameter</b>	50.0 mm

Temperatures & operating conditions

<b>Ambient temperature range</b>	-20...+40 °C
<b>Maximum temperature at tc test point</b>	110 °C

Lifespan

<b>Nominal lamp life time</b>	15000 h
<b>Rated lamp life time</b>	15000 h
<b>Number of switching cycles</b>	100000

Additional product data

<b>Base (standard designation)</b>	GU5.3
<b>Mercury content</b>	0.0 mg
<b>Mercury-free</b>	Yes
<b>Show WEEE picto</b>	Yes
<b>Product remark</b>	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

<b>Dimmable</b>	No
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Certificates & standards

<b>Energy efficiency class</b>	A+
<b>Energy consumption</b>	9 kWh/1000h

## Country-specific categorizations

<b>Order reference</b>	LED5MR165036 8W
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## LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075433601	Blister 1	50 mm x 140 mm x 120 mm	57.00 g	0.84 dm <sup>3</sup>
4058075433618	Shipping carton box 10	290 mm x 254 mm x 134 mm	733.00 g	9.87 dm <sup>3</sup>
4058075433762	Folding carton box 1	49 mm x 49 mm x 95 mm	55.00 g	0.23 dm <sup>3</sup>
4058075433779	Shipping carton 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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