PRODUCT DATASHEET
ST MR16 20 36° 2.9 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 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
- Made in Germany (versions up to incl. 35 W)
- Mercury-free lamps



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TECHNICAL DATA

Electrical data

Rated wattage	2.90 W
Nominal wattage	2.90 W
Nominal voltage	12.0 V
Claimed equiv. conventional lamp power	20 W
Max. lamp no. on circuit break. 10 A (B)	21
Max. lamp no. on circuit break. 16 A (B)	35
Power factor λ	> 0.50

Photometrical data

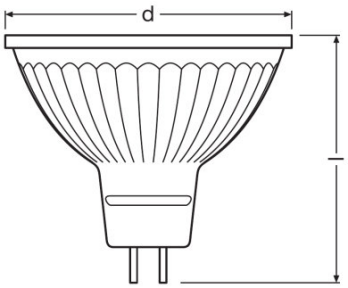
Luminous intensity [PIM]	600 cd
Nominal luminous flux	230 lm
Rated luminous flux	230 lm
Rated color temperature	2700 K
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Warm White
Color temperature	2700 K
Luminous flux	230 lm
Color rendering index Ra	≥80
Standard deviation of color matching	≤6 sdcm
Color rendering index Ra	≥80
Nominal useful luminous flux 90°	230 lm
Rated useful luminous flux 90°	230 lm
Rated peak intensity	600 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 °

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Dimensions & weight



Overall length	46.0 mm
Diameter	51.0 mm
Outer bulb	MR51
Length	46.0 mm
Maximum diameter	51.0 mm

Temperatures & operating conditions

Maximum temperature at tc test point	69 °C

Lifespan

Nominal lamp life time	15000 h
Rated lamp life time	15000 h
Number of switching cycles	100000

Additional product data

Base (standard designation)	GU5.3
Mercury content	0.0 mg
Mercury-free	Yes
Show WEEE picto	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	A+

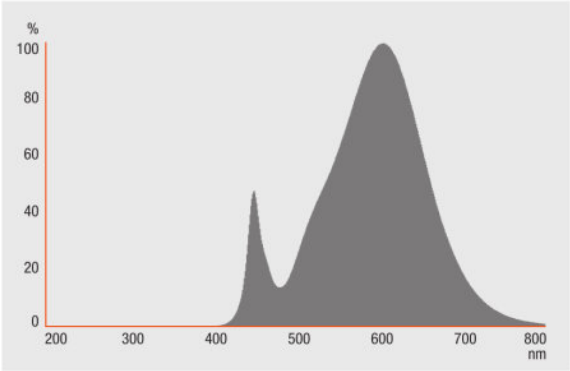
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Energy efficiency class	A+
Energy consumption	3 kWh/1000h

Country-specific categorizations

ILCOS	DRR-2,9/827-12-GU5,3-50/36
Order reference	LEDSMR1620362,9

Light Distribution



Spectral power distribution

LOGISTICAL DATA

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899957718	ST MR16 20 36° 2.9 W/2700 K GU5.3	Shipping carton box 10	290 mm x 254 mm x 134 mm	9.87 dm^3	620.00 g
4058075112667	ST MR16 20 36° 2.9 W/2700 K GU5.3	Shipping carton box 10	266 mm x 111 mm x 71 mm	2.10 dm^3	535.00 g

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

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- www.ledvance.com/guarantee

Further information see
- www.ledvance.com/low-voltage-ledlamps

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