

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

- 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	3.8 W
Construction wattage	3.80 W
Nominal voltage	12 V
Claimed equiv. conventional lamp power	35 W
Nominal current	460 mA
Type of current	AC/DC
Inrush current	22 A
Operating frequency	0 Hz
Mains frequency	0 Hz
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	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 sdcn
Rated peak intensity	790 cd
Rated LLMF at 6,000 h	0.80
Flickering metric (Pst LM)	1.0
Stroboscope effect metric (SVM)	0.9



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	34.00 g

Temperatures & operating conditions

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

Lifespan

Lifespan	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
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Capabilities

Dimmable	No
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Certificates & Standards

Energy efficiency class	F ¹⁾
Energy consumption	4.00 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 G (lowest efficiency)

Country-specific categorizations

ILCOS	DRR-4,6/827-12-GU5,3-50/36
Order reference	LEDSMR163536 3,

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	0.459
Chromaticity coordinate y	0.406

Beam angle correspondence	NARROW_CONE_90
Survival factor	0.50
Displacement factor	0.67
LED light source replaces a fluorescent light source	No
EPREL ID	523013

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
4052899388215	Blister 2	50 mm x 140 mm x 120 mm	85.00 g	0.84 dm ³
4058075260276	Folding box 2	51 mm x 102 mm x 95 mm	85.00 g	0.49 dm ³
4058075431270	Folding box 1	49 mm x 49 mm x 95 mm	44.00 g	0.23 dm ³
4058075616974	Shipping box 6	174 mm x 115 mm x 74 mm	343.00 g	1.48 dm ³
4058075617162	Shipping box 6	159 mm x 110 mm x 70 mm	340.00 g	1.22 dm ³
4052899388222	Shipping box 20	290 mm x 254 mm x 134 mm	937.00 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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