

# PRODUCT DATASHEET LED Star MR 16 20 36° 2.1W 827 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	2.1 W
Construction wattage	2.10 W
Nominal voltage	12 V
Operating mode	12V AC/DC <sup>1)</sup>
Claimed equiv. conventional lamp power	20 W
Nominal current	270 mA
Type of current	AC/DC
Inrush current	17.8 A
Max. lamp number on MCB B10 A	33
Max. lamp number on MCB B16 A	42
Total harmonic distortion	≤ 120 %
Power factor $\lambda$	> 0.50

<sup>1)</sup> Check ECG compatibility at ledvance.com/compatibility

## Photometrical data

Luminous intensity	520 cd
Luminous flux	210 lm
Nominal useful luminous flux 90°	210 lm
Luminous efficacy	100 lm/W
Lumen main.fact.at end of nom.life time	0.93
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	520 cd
Flickering metric (Pst LM)	1.0
Stroboscope effect metric (SVM)	0.4



Everlight 67-23ST KKE 2700K

# Light technical data

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

## Dimensions & Weight

Overall length	44.00 mm
Diameter	50.00 mm
Maximum diameter	50 mm
Product weight	28.00 g

## Temperatures & operating conditions

Ambient temperature range	-20+40 °C
Maximum temperature at tc test point	60.3 °C

## Lifespan

Lifespan L70/B50 at 25 °C	15000 h
Number of switching cycles	100000
Lumen maintenance at end of service lifetime	0.93

## Additional product data

Base (standard designation)	GU5.3
Mercury content	0.0 mg
Mercury-free	Yes

Energy efficiency class   F   1) Energy consumption   3.00 kWh/1000h   Type of protection   IP20   Standards   CE / UKCA / EAC   Photobiological safety group acc. to EN62778   RG1   Photobiological safety group acc. to EN62778   RG1   Perspectificancy class (EEC) on a scale of A (highest efficiency) to G (coveet efficiency)  Country-specific categorizations  Order reference   LEDSMR162036 2,   COGISTICAL DATA  Temperature range at storage   -20+80 °C    Integry 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 (CLS)   No   Envelope   No   High luminance light source   No   Anti-glare shield   No   Correlated colour temperature type   Standby power   OW	Product remark	not necessarily match the actual technical parameters of each
Energy efficiency class   F1   Energy consumption   3.00 kWh/1000h   Type of protection   IP20   Standards   CE / UKCA / EAC   Photobiological safety group acc. to EN62778   RG1   Pergy efficiency class (EEC) on a scale of A frighest efficiency to G (lowest efficiency)  Country-specific categorizations  Order reference   LEDSMR162036 2,   COISTICAL DATA   Temperature range at storage   -20+80 °C   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 (CLS)   No   Color-tuneable light source   No   High luminance light source   No   Anti-glare shield   No   Correlated colour temperature type   SINGLE_VALUE   Standby power   OW	Capabilities	
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44.00 mm

50.00 mm

Length

Height

Width	50.00 mm
Chromaticity coordinate x	0.458
Chromaticity coordinate y	0,4101
R9 Colour rendering index	8
Beam angle correspondence NARROW_CONE_90	
Survival factor	0.90
Displacement factor	0.5
LED light source replaces a fluorescent light source	No
EPREL ID	523016,1235156,1368246,1842010
Model number	AC42770,AC45719,AC33724,AC57951

#### **DOWNLOAD DATA**

	Documents and certificates	Document name
PDF	Declarations of conformity	LED SPOT MR16
PDF	Declarations of conformity	LED MR11, MR16
POF	Declarations Of Conformity UKCA	LED MR11 MR16

Photometric and lighting design files	Document name
Spectral power distribution	Everlight 67-23ST KKE 2700K

#### LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075796751	Folding box	49 mm x 49 mm x 95 mm	44.00 g	0.23 dm <sup>3</sup>
4058075796768	Shipping box 6	168 mm x 111 mm x 71 mm	260.00 g	1.32 dm³

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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