

PRODUCT DATASHEET LED Star MR 16 20 36° 2.1W 840 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

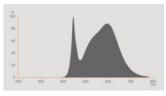
Electrical data

Nominal wattage	2.1 W
Construction wattage	2.10 W
Nominal voltage	12 V
Operating mode	12V AC/DC ¹⁾
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 λ	> 0.50

¹⁾ 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)	Cool White
Color temperature	4000 K
Color rendering index Ra	80
Light color	840
Standard deviation of color matching	≤6 sdcm
Rated peak intensity	520 cd
Flickering metric (Pst LM)	1.0
Stroboscope effect metric (SVM)	0.4



OS S8x8 4000K

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

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	F 1)
Energy consumption	3.00 kWh/1000h
Type of protection	IP20
Standards	CE / EAC / UKCA
Photobiological safety group acc. to EN62778	RG1
Country-specific categorizations	
Country-specific categorizations	
Country-specific categorizations Order reference	LEDSMR162036 2,
	LEDSMR162036 2,
Order reference	LEDSMR162036 2, -20+80 °C
Order reference OGISTICAL DATA	
Order reference OGISTICAL DATA Temperature range at storage	
Order reference OGISTICAL DATA Temperature range at storage Energy labelling regulation data acc EU 2019/2015	-20+80 °C
Order reference OGISTICAL DATA Temperature range at storage Energy labelling regulation data acc EU 2019/2015 Lighting technology used	-20+80 °C
Order reference OGISTICAL DATA Temperature range at storage Energy labelling regulation data acc EU 2019/2015 Lighting technology used Non-directional or directional	-20+80 °C LED DLS
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Order reference OGISTICAL DATA Temperature range at storage Energy labelling regulation data acc EU 2019/2015 Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS)	-20+80 °C LED DLS NMLS GU5.3
Order reference OGISTICAL DATA Temperature range at storage Energy labelling regulation data acc EU 2019/2015 Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS) Color-tuneable light source	-20+80 °C LED DLS NMLS GU5.3 No
Order reference OGISTICAL DATA Temperature range at storage Energy labelling regulation data acc EU 2019/2015 Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS) Color-tuneable light source Envelope	-20+80 °C LED DLS NMLS GU5.3 No No No
Order reference OGISTICAL DATA Temperature range at storage Energy labelling regulation data acc EU 2019/2015 Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS) Color-tuneable light source Envelope High luminance light source	-20+80 °C LED DLS NMLS GU5.3 No No No No
Order reference OGISTICAL DATA Temperature range at storage Energy labelling regulation data acc EU 2019/2015 Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS) Color-tuneable light source Envelope High luminance light source Anti-glare shield	-20+80 °C LED DLS NMLS GU5.3 No No No No No

44.00 mm

50.00 mm

Length

Height

Width	50.00 mm
Chromaticity coordinate x	0.382
Chromaticity coordinate y	0.380
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	1235158,1368248,1841960
Model number	AC42772,AC45721,AC57974

Safety advice

- Do not touch the lamp if broken.
- Must not be used if outer bulb is defective.

DOWNLOAD DATA

	Documents and certificates	Document name	
POF	Declarations of conformity	LED SPOT MR16	
POF	Declarations of conformity	LED MR11, MR16	
POF	Declarations of conformity UKCA	LED MR11 MR16	
	Photometric and lighting design files	Document name	
	Spectral power distribution	OS S8x8 4000K	

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075796775	Folding box 1	49 mm x 49 mm x 95 mm	44.00 g	0.23 dm ³
4058075796782	Shipping box 6	168 mm x 111 mm x 71 mm	260.00 g	1.32 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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