PRODUCT DATASHEET
ST MR11 20 36 ° 2.5 W/2700 K GU4

LED STAR MR11 12 V | LED reflector lamps

Areas of application

– Display cabinets and shop windows
– Museums, art galleries
– Exhibition rooms
– Residential interiors
– As a downlight for marking walkways, doors, stairs, etc.
– Outdoor use in suitable outdoor luminaires only

Product benefits

– Long lifetime of up to 15,000 h
– Low energy consumption
– Easy relamping thanks to compact design and GU4 base

Product features

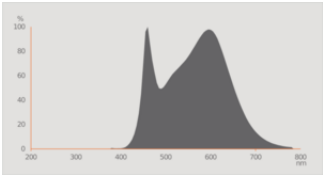– Professional LED alternative to halogen MR11 lamps
– Mercury-free lamps

TECHNICAL DATA

Electrical data

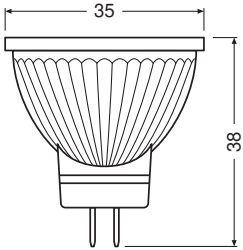|	
Nominal wattage	2.5 W
Construction wattage	2.50 W
Nominal voltage	12 V
Claimed equiv. conventional lamp power	20 W
Nominal current	310 mA
Type of current	AC
Inrush current	18 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp no. on circuit break. 10 A (B)	35
Max. lamp no. on circuit break. 16 A (B)	55
Power factor λ	> 0.50

Photometrical data

Luminous intensity	400 cd
Luminous flux	184 lm
Nominal useful luminous flux 90°	184 lm
Luminous efficacy	73 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 sdcm
Rated peak intensity	400 cd
Rated LLMF at 6,000 h	0.80
Flickering metric (Pst LM)	1.0
Stroboscope effect metric (SVM)	0.4

Light technical data

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

Dimensions & Weight

Overall length	38.00 mm
Diameter	35.00 mm
Maximum diameter	35 mm
Product weight	17.00 g

Temperatures & operating conditions

Ambient temperature range	-20...+40 °C
Maximum temperature at tc test point	75 °C

Lifespan

Lifespan	15000 h [1]
Number of switching cycles	100000
Lumen maintenance at end of service lifetime	0.70
Rated lamp survival factor at 6,000 h	≥ 0.90

1) L70/B50

Additional product data

Base (standard designation)	GU4
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	G 1)
Energy consumption	3.00 kWh/1000h
Type of protection	IP20
Standards	CE / CB / 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

Order reference	LEDSMR112036 2,

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)	GU4
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
Standby power	0 W

Networked standby power for CLS	0 W
Claim of equivalent power	Yes
Length	38.00 mm
Height	35.00 mm
Width	35.00 mm
Chromaticity coordinate x	0.458
Chromaticity coordinate y	0.410
R9 Colour rendering index	1
Beam angle correspondence	NARROW_CONE_90
Survival factor	0.90
Displacement factor	/
LED light source replaces a fluorescent light source	No
EPREL ID	1402916,522967
Model number	AC32694,AC08769

DOWNLOAD DATA

	Documents and certificates
PDF	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
4058075433403	Folding box 1	34 mm x 49 mm x 95 mm	25.00 g	0.16 dm³
4058075617070	Shipping box 6	121 mm x 109 mm x 104 mm	199.00 g	1.37 dm³
4058075617087	Shipping box 48	258 mm x 234 mm x 234 mm	2014.00 g	14.13 dm³
4058075452923	Shipping box 80			

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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