

# PRODUCT DATASHEET

## MR11 20 36° P 2.5W 840 GU4

LED MR11 P | Low-voltage LED reflector lamps MR11 with retrofit pin base



### Areas of application

- Shops and exhibition rooms
- Domestic applications
- Commercial applications
- Accent lighting
- Outdoor use in suitable outdoor luminaires only

### Product benefits

- Quick, simple and safe replacement without rewiring
- Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
- Low maintenance costs thanks to long lifetime
- No UV and near-IR radiation in the light beam
- Compatible with many common conventional and electronic control gears (see also compatibility list)
- Instant 100 % light, no warm-up time

### Product features

- LED alternative to low voltage halogen lamps
- High color consistency:  $\leq 6$  SDCM
- Not dimmable
- Base: GU4
- Lamp made of glass
- Good quality of light; color rendering index  $R_a: \geq 80$
- Lifetime: up to 15,000 h



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**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 $\lambda$	> 0.50

**Photometrical data**

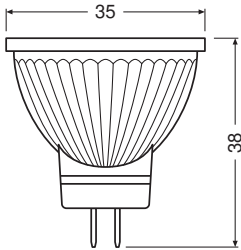
Luminous intensity	400 cd
Luminous flux	184 lm
Nominal useful luminous flux 90°	184 lm
Luminous efficacy	73 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Color rendering index Ra	80
Light color	840
Standard deviation of color matching	$\leq 6$ sdcn
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
Rated beam angle (half peak value)	36.00 °

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
Number of switching cycles	100000
Lumen maintenance at end of serv	0.70

Rated lamp survival factor at 6,000	≥ 0.90
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### 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
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### Certificates & Standards

Energy efficiency class	G <sup>1)</sup>
Energy consumption	3.00 kWh/1000h
Type of protection	IP20
Standards	CE / EAC / CB
Photobiological safety group acc. to EN62778	RG1

<sup>1)</sup> Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)

### Country-specific categorizations



Order reference	LED MR112036 2.
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### 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	0.382
Chromaticity coordinate y	0.380
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	522968
Model number	AC32695

## 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
4099854070396	Folding box 1	36 mm x 36 mm x 60 mm	22.00 g	0.08 dm <sup>3</sup>
4099854070402	Shipping box 10	188 mm x 78 mm x 69 mm	253.00 g	1.01 dm <sup>3</sup>
4099854070419	Shipping box 80	201 mm x 169 mm x 296 mm	2236.00 g	10.05 dm <sup>3</sup>

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](http://www.ledvance.com/ledlamps)
  - For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)
  - Further information see [www.ledvance.com/low-voltage-ledlamps](http://www.ledvance.com/low-voltage-ledlamps)
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