

## PRODUCT DATASHEET

### P MR11 20 36 ° 2.5 W/2700 K GU4

PARATHOM® MR11 12 V | 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
- Lower energy consumption than incandescent or halogen lamps

#### 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 CRI  $\geq$  80
- Lifetime up to 15,000 h

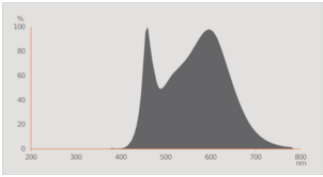
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**TECHNICAL DATA****Electrical data**

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 number on MCB B10 A	35
Max. lamp number on MCB B16 A	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)	Warm White
Color temperature	2700 K
Color rendering index Ra	≥80
Light color	827
Standard deviation of color matching	≤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

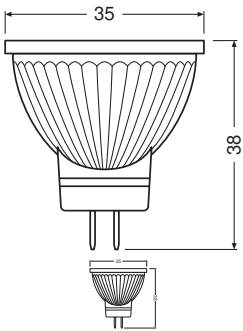


Bridgelux 40E-13H-9B 4000K

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

Number of switching cycles	100000
Lumen maintenance at end of service lifetime	0.70

Rated lamp survival factor at 6,000 h	≥ 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	F 1)
Energy consumption	3.00 kWh/1000h
Type of protection	IP20
Standards	CE / CB / EAC
Photobiological safety group acc. to EN62778	RG0

1) Energy efficiency class (EEC) on a scale of A++ (highest efficiency) to E (lowest efficiency)





### Country-specific categorizations

Order reference	LEDPMR112036 2,
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### Energy labelling regulation data acc EU 2019/2015

Light source cap-type (or other electric interface)	GU4
Correlated colour temperature type	SINGLE_VALUE
Length	38.00 mm
Height	35.00 mm
Width	35.00 mm
EPREL ID	1402916
Model number	AC08769

### DOWNLOAD DATA

Photometric and lighting design files		Document name
	IES file (IES)	AC08769_MR11 20 36 2,5W 12V GU4
	LDT file (Eulumdat)	AC08769_MR11 20 36 2,5W 12V GU4
	Light distribution curve type polar	LEDPMR112036 2,5W 827 12V GU4 FS1 OSRAM
	Spectral power distribution	Bridgelux 40E-13H-9B 4000K

## LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075105195	Folding box 1	36 mm x 36 mm x 46 mm	22.00 g	0.06 dm <sup>3</sup>
4058075105201	Shipping box 10	188 mm x 78 mm x 55 mm	269.00 g	0.81 dm <sup>3</sup>
4058075131842	Shipping box 80	201 mm x 169 mm x 240 mm	2168.00 g	8.15 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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