

## 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

#### 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

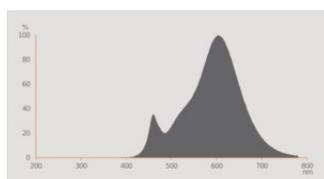
TECHNICAL DATA

Electrical data

Nominal wattage	2.5 W
Construction wattage	2.50 W
Nominal voltage	12 V
Operating mode	12V AC/DC
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

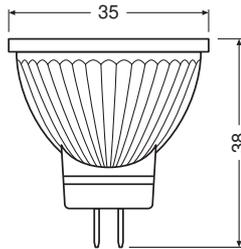
Luminous intensity	400 cd
Luminous flux	184 lm
Nominal useful luminous flux 90°	184 lm
Luminous efficacy	73 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Warm White
Color temperature	2700 K
Color rendering index Ra	80
Light color	827
Standard deviation of color matching	$\leq 6$ sdc <sub>m</sub>
Rated peak intensity	400 cd
Rated LLMF at 6,000 h	0.80



### 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 L70/B50 at 25 °C	15000 h
Number of switching cycles	100000
Lumen maintenance at end of service lifetime	0.70
Rated lamp survival factor at 6,000 h	≥ 0.90

### Additional product data

Base (standard designation)	GU4
Mercury content	0.0 mg

### Capabilities

Dimmable	No
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## Certificates & Standards

Energy efficiency class	G 1)
Energy consumption	3.00 kWh/1000h
Type of protection	IP20
Standards	CE / EAC / CB
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	LEDPMR112036 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	0.458
Chromaticity coordinate y	0.410
R9 Colour rendering index	1
Beam angle correspondence	NARROW_CONE_90
Survival factor	0.90
LED light source replaces a fluorescent light source	Yes
EPREL ID	522967
Model number	AC32694

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**DOWNLOAD DATA**
**Documents and certificates**


Declarations Of Conformity CE

**Photometric and lighting design files**


Spectral power distribution

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**LOGISTICAL DATA**

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075636545	Folding box 1	36 mm x 36 mm x 46 mm	22.00 g	0.06 dm <sup>3</sup>
4058075636552	Shipping box 10	188 mm x 78 mm x 69 mm	253.00 g	1.01 dm <sup>3</sup>
4058075637481	Shipping box 80	201 mm x 169 mm x 240 mm	2167.00 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.

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**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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**DISCLAIMER**

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.