

## PRODUCT DATASHEET

### P MR16 20 36 ° 2.6 W/4000 K GU5.3

PARATHOM® MR16 | Low-voltage LED reflector lamps MR16 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
- 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: GU5.3
- Lamp made of glass
- Good quality of light; color rendering index  $R_a \geq 80$
- Lifetime up to 15,000 h



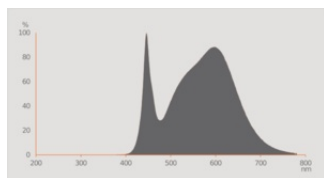
## TECHNICAL DATA

### Electrical data

Nominal wattage	2.6 W
Construction wattage	2.60 W
Nominal voltage	12 V
Operating mode	12V AC
Claimed equiv. conventional lamp power	20 W
Nominal current	340 mA
Type of current	AC/DC
Inrush current	29.6 A
Operating frequency	0 Hz
Mains frequency	0 Hz
Max. lamp number on MCB B10 A	21
Max. lamp number on MCB B16 A	35
Power factor $\lambda$	> 0.50

### Photometrical data

Luminous intensity	680 cd
Luminous flux	230 lm
Nominal useful luminous flux 90°	230 lm
Luminous efficacy	88 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	≤6 sdcn
Rated peak intensity	680 cd
Rated LLMF at 6,000 h	0.80
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	46.00 mm
Diameter	50,0 mm
Maximum diameter	51 mm
Product weight	34.00 g

Temperatures & operating conditions

Ambient temperature range	-20...+40 °C
Maximum temperature at tc test point	69 °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)	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
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## Certificates &amp; Standards

Energy efficiency class	F <sup>1)</sup>
Energy consumption	3.00 kWh/1000h
Type of protection	IP20
Standards	CE / EAC
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

ILCOS	DRR-2,9/840-12-GU5,3-50/36
Order reference	LEDPMR162036 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)	GU5.3
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
Claim of equivalent power	Yes
Length	46.00 mm
Height	50,0 mm
Width	50,0 mm
Chromaticity coordinate x	0.382
Chromaticity coordinate y	0.380
Beam angle correspondence	NARROW_CONE_90
Survival factor	0.50
Displacement factor	0.64
LED light source replaces a fluorescent light source	No

EPREL ID	523014
Model number	AC33726


**EQUIPMENT / ACCESSORIES**






- Equipped with high-power LEDs

**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
 Declarations of conformity	

Photometric and lighting design files	Document name
 IES file (IES)	AC07581_MR162,9W12VGU
 LDT file (Eulumdat)	AC07581_MR162,9W12VGU
 Light distribution curve type cone	LEDPMR162036 2,9W 840 12V GU5.3 FS1OSRAM
 Light distribution curve type polar	LEDPMR162036 2,9W 840 12V GU5.3 FS1OSRAM
 Spectral power distribution	OS S8x8 4000K

**LOGISTICAL DATA**

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075431317	Folding box 1	49 mm x 49 mm x 62 mm	41.00 g	0.15 dm <sup>3</sup>
4058075431324	Shipping box 10	257 mm x 110 mm x 70 mm	454.00 g	1.98 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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