

PRODUCT DATASHEET

P MR16 50 36 ° 7.2 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

Product features

- LED alternative to low voltage halogen lamps
- High color consistency: ≤ 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

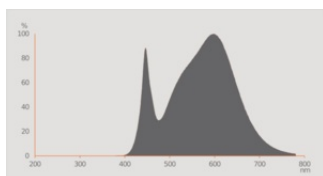
TECHNICAL DATA

Electrical data

Nominal wattage	7.2 W
Construction wattage	7.20 W
Nominal voltage	12 V
Claimed equiv. conventional lamp power	50 W
Nominal current	880 mA
Type of current	AC
Inrush current	13.3 A
Max. lamp no. on circuit break. 10 A (B)	20
Max. lamp no. on circuit break. 16 A (B)	33
Power factor λ	> 0.50

Photometrical data

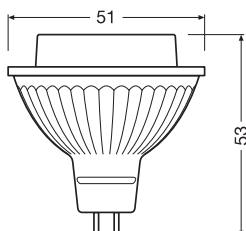
Luminous intensity	1430 cd
Luminous flux	621 lm
Nominal useful luminous flux 90°	621 lm
Luminous efficacy	86 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Color rendering index Ra	≥80
Light color	840
Standard deviation of color matching	≤5 sdcn
Rated peak intensity	1430 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
Rated beam angle (half peak value)	36.00 °

Dimensions & Weight



Overall length	53.00 mm
Diameter	51.00 mm
Maximum diameter	51 mm
Product weight	65.00 g

Temperatures & operating conditions

Ambient temperature range	-20...+40 °C
Maximum temperature at tc test point	90 °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

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 & Standards

Energy efficiency class	A+ ¹⁾
Energy consumption	8.00 kWh/1000h
Type of protection	IP20
Standards	CE / EAC
Photobiological safety group acc. to EN62778	RG1

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

Country-specific categorizations

ILCOS	DRR-7,2/840-12-GU5,3-50/36
Order reference	LPMR165036 7,2W






Energy labelling regulation data acc EU 2019/2015

Light source cap-type (or other electric interface)	GU5.3
Length	53.00 mm
Height	51.00 mm
Width	51.00 mm

EQUIPMENT / ACCESSORIES

- Equipped with high-power LEDs

DOWNLOAD DATA

Photometric and lighting design files	
	IES file (IES)
	LDT file (Eulumdat)
	LDC typ cone
	LDC typ polar
	Spectral power distribution

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4052899957824	Folding box 1	49 mm x 49 mm x 62 mm	72.00 g	0.15 dm ³
4052899958524	Shipping box 10	255 mm x 107 mm x 72 mm	745.00 g	1.96 dm ³

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

DISCLAIMER

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