

PRODUCT DATASHEET LED MR16 20 36° P 2.6W 830 GU5.3

LED MR16 P | 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: ≤ 6 SDCM
- Not dimmable
- Base: GU5.3
- Lamp made of glass
- Good quality of light; color rendering index $R_{a\!\dot{\cdot}} \geq 80$
- 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/DC
Claimed equiv. conventional lamp power	20 W
Nominal current	340 mA
Type of current	AC/DC
Inrush current	12.1 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Total harmonic distortion	150 %
Power factor λ	> 0.50

Photometrical data

Luminous intensity500 cdLuminous flux210 lmNominal useful luminous flux 90°210 lmLuminous efficacy96 lm/WLumen main.fact.at end of nom.life time0.70Light color (designation)Warm WhiteColor temperature3000 KColor rendering index Ra80Light color830Standard deviation of color matching≤6 sdcmRated peak intensity500 cdRated LLMF at 6,000 h0.80Flickering metric (Pst LM)<1Stroboscope effect metric (SVM)<0.4		
Nominal useful luminous flux 90° 210 lm Luminous efficacy 96 lm/W Lumen main.fact.at end of nom.life time 0.70 Light color (designation) Warm White Color temperature 3000 K Color rendering index Ra 80 Light color 830 Standard deviation of color matching ≤6 sdcm Rated peak intensity 500 cd Rated LLMF at 6,000 h 0.80 Flickering metric (Pst LM) <1	Luminous intensity	500 cd
Luminous efficacy 96 lm/W Lumen main.fact.at end of nom.life time 0.70 Light color (designation) Warm White Color temperature 3000 K Color rendering index Ra 80 Light color 830 Standard deviation of color matching ≤6 sdcm Rated peak intensity 500 cd Rated LLMF at 6,000 h 0.80 Flickering metric (Pst LM) <1	Luminous flux	210 lm
Lumen main.fact.at end of nom.life time 0.70 Light color (designation) Warm White Color temperature 3000 K Color rendering index Ra 80 Light color 830 Standard deviation of color matching ≤6 sdcm Rated peak intensity 500 cd Rated LLMF at 6,000 h 0.80 Flickering metric (Pst LM) <1	Nominal useful luminous flux 90°	210 lm
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Color rendering index Ra 80 Light color 830 Standard deviation of color matching ≤6 sdcm Rated peak intensity 500 cd Rated LLMF at 6,000 h 0.80 Flickering metric (Pst LM) <1	Light color (designation)	Warm White
Light color 830 Standard deviation of color matching ≤6 sdcm Rated peak intensity 500 cd Rated LLMF at 6,000 h 0.80 Flickering metric (Pst LM) <1	Color temperature	3000 K
Standard deviation of color matching ≤6 sdcm Rated peak intensity 500 cd Rated LLMF at 6,000 h 0.80 Flickering metric (Pst LM) <1	Color rendering index Ra	80
Rated peak intensity 500 cd Rated LLMF at 6,000 h 0.80 Flickering metric (Pst LM) <1	Light color	830
Rated LLMF at 6,000 h 6.80 Flickering metric (Pst LM) 71	Standard deviation of color matching	≤6 sdcm
Flickering metric (Pst LM) <1	Rated peak intensity	500 cd
	Rated LLMF at 6,000 h	0.80
Stroboscope effect metric (SVM) <0.4	Flickering metric (Pst LM)	<1
	Stroboscope effect metric (SVM)	<0.4



OS S10x18 3000K

Light technical data

Beam angle	36 °
Warm-up time (60 %)	< 0.50 s
Starting time	< 0.5 s

Dimensions & Weight

Overall length	44.00 mm
Diameter	50.00 mm
Maximum diameter	50 mm
Product weight	34.00 g

Temperatures & operating conditions

Ambient temperature range	-20+40 °C
Maximum temperature at tc test point	81 °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

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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	
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Certificates & Standards

Energy efficiency class	F 1)
Energy consumption	3.00 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 G (lowest efficiency)

Country-specific categorizations

Order reference

LOGISTICAL DATA	
Temperature range at storage	-20+80 °C

LED MR162036 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
Standby power	0 W
Networked standby power for CLS	0 W
Claim of equivalent power	Yes

Length	44.00 mm
Height	50.00 mm
Width	50.00 mm
Chromaticity coordinate x	0,4578
Chromaticity coordinate y	0,4101
R9 Colour rendering index	0.00
Beam angle correspondence	NARROW_CONE_90
Survival factor	0.9
Displacement factor	0.50
LED light source replaces a fluorescent light source	No
EPREL ID	1368247
Model number	AC45720

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	
PDF	Declarations of conformity LED SPOT MR16		
	Photometric and lighting design files	esign files Document name	
4	Spectral power distribution	OS S10x18 3000K	

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854059773	Folding box	49 mm x 49 mm x 62 mm	38.00 g	0.15 dm ³
4099854059780	Shipping box 10	255 mm x 107 mm x 72 mm	430.00 g	1.96 dm³

March 24, 2025, 19:31:50 LED MR16 20 36° P 2.6W 830 GU5.3 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

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