

PRODUCT DATASHEET LED MR16 35 36° P 3.8W 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

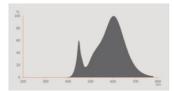
Electrical data

Nominal wattage	3.8 W
Construction wattage	3.80 W
Nominal voltage	12 V
Operating mode	ECG, CCG ¹⁾
Claimed equiv. conventional lamp power	35 W
Nominal current	460 mA
Type of current	AC/DC
Inrush current	12.8 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp no. on circuit break. 10 A (B)	28
Max. lamp no. on circuit break. 16 A (B)	36
Total harmonic distortion	< 120 %
Power factor λ	> 0.50

¹⁾ Check ECG compatibility at ledvance.com/compatibility

Photometrical data

Luminous intensity	700 cd
Luminous flux	345 lm
Nominal useful luminous flux 90°	345 lm
Luminous efficacy	90 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	700 cd
Rated LLMF at 6,000 h	0.80
Flickering metric (Pst LM)	1,0
Stroboscope effect metric (SVM)	0.4



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	30.00 g

Temperatures & operating conditions

Ambient temperature range	-20+40 °C
Maximum temperature at tc test point	83.1 °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
Certificates & Standards	
Energy efficiency class	F 1)
Energy consumption	4.00 kWh/1000h
Type of protection	IP20
Standards	CE / UKCA / EAC
Photobiological safety group acc. to EN62778	RG1
Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (local Country-specific categorizations Order reference	bwest efficiency) LED MR163536 3.
LOGISTICAL DATA	
Temperature range at storage	-20+80 °C
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

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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	0,4339
Chromaticity coordinate y	0.4033
R9 Colour rendering index	1
Beam angle correspondence	NARROW_CONE_90
Survival factor	0.9
Displacement factor	/
LED light source replaces a fluorescent light source	No
EPREL ID	1368250
Model number	AC45633

EQUIPMENT / ACCESSORIES

- Equipped with high-power LEDs

DOWNLOAD DATA

	Documents and certificates		
PDF	Declarations Of Conformity CE		
	Photometric and lighting design files		
	IES file (IES)		
	LDT file (Eulumdat)		
	LDC typ polar		

LOGISTICAL DATA

Spectral power distribution

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854068072	Folding box 1	49 mm x 49 mm x 62 mm	37.00 g	0.15 dm ³
4099854068089	Shipping box 10	255 mm x 107 mm x 72 mm	420.00 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

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