

PRODUCT DATASHEET LED MR16 35 36° P 3.8W 840 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 CRI $\geq 80\,$
- 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 number on MCB B10 A	28
Max. lamp number on MCB B16 A	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)	Cool White
Color temperature	4000 K
Color rendering index Ra	80
Light color	840
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



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	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
Order reference	LED MR163536 3.
LOGISTICAL DATA Temperature range at storage	-20+80 °C
remperature range at storage	20100 0
Energy labelling regulation data acc EU 2019/2015	
Energy labouring regulation data doo 20 20 10/2010	
Lighting technology used	LED
	LED DLS
Lighting technology used	
Lighting technology used Non-directional or directional	DLS
Lighting technology used Non-directional or directional Mains or non-mains	DLS NMLS
Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface)	DLS NMLS GU5.3
Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS)	DLS NMLS GU5.3 No
Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS) Color-tuneable light source	DLS NMLS GU5.3 No No
Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS) Color-tuneable light source Envelope	DLS NMLS GU5.3 No No No
Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS) Color-tuneable light source Envelope High luminance light source	DLS NMLS GU5.3 No No No No
Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS) Color-tuneable light source Envelope High luminance light source Anti-glare shield	DLS NMLS GU5.3 No No No No No No No
Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS) Color-tuneable light source Envelope High luminance light source Anti-glare shield Correlated colour temperature type	DLS NMLS GU5.3 No No No No No SINGLE_VALUE

44.00 mm

Length

Height	50.00 mm
Width	50.00 mm
Chromaticity coordinate x	0.382
Chromaticity coordinate y	0.380
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	1368251
Model number	AC45634

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	MR16 M3 M2 M1 GU5.3	
	Photometric and lighting design files	Document name	
	IES file (IES)	MR16 M3 35 36 840 GU5.3	
	LDT file (Eulumdat)	MR16 M3 35 36 840 GU5.3	
	Light distribution curve type polar	MR16 M3 35 36 840 GU5.3	
	Spectral power distribution	OS S8x8 4000K	

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854068096	Folding box 1	49 mm x 49 mm x 62 mm	37.00 g	0.15 dm ³
4099854068102	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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