

# PRODUCT DATASHEET LED MR 16 35 36° DIM P 5W 940 GU5.3

PARATHOM® DIM MR16 | Dimmable 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
- Stepless dimming
- Very high dimmer compatibility, see also www.ledvance.com/dim
- Compatible with many common conventional and electronic control gears (see also compatibility list)
- 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: ≤ 5 sdcm
- Dimmable
- Base: GU5.3





- Lamp made of glass
- Very high color rendering CRI > 90
- Lifetime up to 25,000 h

# TECHNICAL DATA

# Electrical data

Nominal wattage	5 W
Construction wattage	5.00 W
Nominal voltage	12 V
Operating mode	12V AC
Claimed equiv. conventional lamp power	35 W
Nominal current	490 mA
Type of current	AC/DC
Inrush current	13.5 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	44
Max. lamp number on MCB B16 A	55
Power factor $\lambda$	> 0.70

### Photometrical data

Luminous intensity	700 cd
Luminous flux	345 lm
Nominal useful luminous flux 90°	345 lm
Luminous efficacy	69 lm/W
Lumen main.fact.at end of nom.life time	0.96
Light color (designation)	Cool White
Color temperature	4000 K
Color rendering index Ra	90
Light color	940
Standard deviation of color matching	≤5 sdcm
Rated peak intensity	700 cd
Rated LLMF at 6,000 h	0.80
Flickering metric (Pst LM)	1
Stroboscope effect metric (SVM)	0,4



Everlight 67-23ST HKE 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	38.00 g

# Temperatures & operating conditions

Ambient temperature range	-20+40 °C
Maximum temperature at tc test point	85 °C

# Lifespan

Lifespan L70/B50 at 25 °C	25000 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
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	Yes

# Certificates & Standards

Energy efficiency class	G <sup>1)</sup>
Energy consumption	5.00 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

Order reference	LPMR16D3536 5W/	
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	
Networked standby power for CLS	0.0 W	
Claim of equivalent power	Yes	
Length	44.00 mm	
Height	50.00 mm	
Width	50.00 mm	
Chromaticity coordinate x	0,3818	
Chromaticity coordinate y	0,3797	
R9 Colour rendering index	1	
Beam angle correspondence	NARROW_CONE_90	
Survival factor	0,90	
Displacement factor	20,5	

LED light source replaces a fluorescent light source	No
EPREL ID	1235161
Model number	AC42775

## 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	Document name
	Spectral power distribution	Everlight 67-23ST HKE 4000K

#### LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075796553	Folding box 1	49 mm x 49 mm x 62 mm	45.00 g	0.15 dm <sup>3</sup>
4058075796560	Shipping box 10	255 mm x 107 mm x 72 mm	503.00 g	1.96 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 dimming conformity see www.ledvance.com/dim
- $\ \ \text{For further products and actual information concerning LED lamps see } \ www.ledvance.com/ledlamps$
- For Guarantee see www.ledvance.com/guarantee
- Further information see www.ledvance.com/low-voltage-ledlamps

#### **DISCLAIMER**

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.