PRODUCT DATASHEET
LED MR11 20 36° DIM P 2.8W 927 GU4

LED MR11 DIM P | Dimmable low-voltage LED reflector lamps MR11 with retrofit pin base



PERFOR-
MANCE
CLASS

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: ≤ 6 SDCM
- Dimmable
- Base: G4
- Lamp made of glass
- Very high color rendering CRI > 90
- Lifetime up to 25,000 h





TECHNICAL DATA

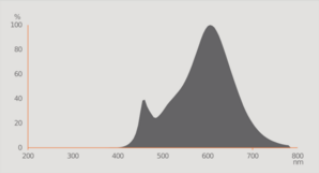
Electrical data

Nominal wattage	2.8 W
Construction wattage	2.80 W
Nominal voltage	12 V
Operating mode	12V AC/DC
Claimed equiv. conventional lamp power	20 W
Nominal current	259 mA
Type of current	AC/DC
Inrush current	0.777 A
Max. lamp number on MCB B10 A	39
Max. lamp number on MCB B16 A	62
Maximum total harmonic distortion	< 50 %
Power factor λ	> 0.50

Photometrical data

Luminous intensity	350 cd
Luminous flux	184 lm
Nominal useful luminous flux 90°	184 lm
Luminous efficacy	65 lm/W
Lumen main.fact.at end of nom.life time	0.96
Light color (designation)	Warm White
Color temperature	2700 K
Color rendering index Ra	90
Light color	927
Standard deviation of color matching	≤6 sdcm
Rated peak intensity	350 cd
Flickering metric (Pst LM)	1.0
Stroboscope effect metric (SVM)	0.4

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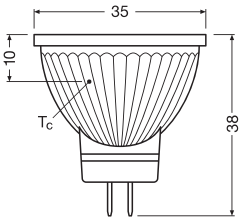


Bridgelux 27E-13H-9B
2700K

Light technical data

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

Dimensions & Weight



Overall length	38.00 mm
Diameter	35.00 mm
Maximum diameter	35 mm
Product weight	19.00 g

Temperatures & operating conditions

Ambient temperature range	-20…+40 °C
Maximum temperature at tc test point	65.28 °C

Lifespan

Lifespan L70/B50 at 25 °C	25000 h
Number of switching cycles	100000
Lumen maintenance at end of service lifetime	0.96

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Additional product data

Base (standard designation)	GU4
Mercury content	0.0 mg
Mercury-free	Yes
Design / version	Spot
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 [1)]

1) Check dimmer compatibility at ledvance.com/compatibility

Certificates & Standards

Energy efficiency class	G [1)]
Energy consumption	3.00 kWh/1000h
Type of protection	IP20
Standards	CE / UKCA / 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	LED MR112036 DI

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)	GU4
Connected light source (CLS)	No
Color-tuneable light source	No
Envelope	No
High luminance light source	No

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Anti-glare shield	No
Correlated colour temperature type	SINGLE_VALUE
Standby power	0 W
Claim of equivalent power	Yes
Length	38.00 mm
Height	35.00 mm
Width	35.00 mm
Chromaticity coordinate x	0.4578
Chromaticity coordinate y	0.4101
R9 Colour rendering index	1
Beam angle correspondence	NARROW_CONE_90
Survival factor	0.90
Displacement factor	0.5
LED light source replaces a fluorescent light source	No
EPREL ID	1368262,2368081
Model number	AC45658,AC45658,AC83950

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	MR11 M3 M2 GU4
PDF	Declarations of conformity	LED lamp MR11
PDF	Declarations of conformity UKCA	LED lamp MR11

	Photometric and lighting design files	Document name
IES	IES file (IES)	LPMR11D2036 3.2W 927 12V GU4
LDT	LDT file (Eulumdat)	LPMR11D2036 3.2W 927 12V GU4
	Light distribution curve type polar	LPMR11D2036 3.2W 927 12V GU4

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	Photometric and lighting design files	Document name
	Spectral power distribution	Bridgelux 27E-13H-9B 2700K

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854050206	Folding box 1	36 mm x 36 mm x 60 mm	24.00 g	0.08 dm^3
4099854050213	Shipping box 10	188 mm x 78 mm x 69 mm	273.00 g	1.01 dm^3
4099854050220	Shipping box 80	201 mm x 169 mm x 296 mm	2396.00 g	10.05 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
- For dimming conformity see www.ledvance.com/dim

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