



## PRODUCT DATASHEET

# LED Superstar MR11 20 36° DIM 2.8W 927 GU4

LED SUPERSTAR MR11 12 V | Low-voltage LED reflector lamps MR11 with retrofit pin base



### Areas of application

- Display cabinets and shop windows
- Museums, art galleries
- Hospitality
- Residential interiors
- As a downlight for marking walkways, doors, stairs, etc.
- Outdoor use in suitable outdoor luminaires only

### Product benefits

- Lower energy consumption than incandescent or halogen lamps
- Easy relamping thanks to compact design and GU4 base
- Instant 100 % light, no warm-up time
- Very good color rendering ( $R_a \geq 90$ )

### Product features

- Professional LED alternative to halogen MR11 lamps
- Dimmable (with many common dimmers, see also [www.ledvance.com/dim](http://www.ledvance.com/dim))
- Mercury-free lamps



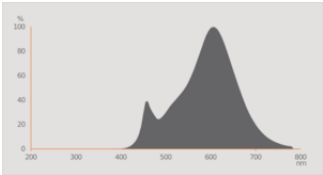
## TECHNICAL DATA

## 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	240 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
Total harmonic distortion	< 50 %
Power factor $\lambda$	> 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	0.70
Light color (designation)	Warm White
Color temperature	2700 K
Color rendering index Ra	90
Light color	927
Standard deviation of color matching	≤6 sdcn
Rated peak intensity	350 cd
Rated LLMF at 6,000 h	0.90
Flickering metric (Pst LM)	1.0
Stroboscope effect metric (SVM)	0.4



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	21.00 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	0.70
Rated lamp survival factor at 6,000 h	≥ 0.90

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 <sup>1)</sup>
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<sup>1)</sup> Check dimmer compatibility at [ledvance.com/compatibility](https://www.ledvance.com/compatibility)

### Certificates & Standards

Energy efficiency class	G <sup>1)</sup>
Energy consumption	3.00 kWh/1000h
Type of protection	IP20
Standards	CE / UKCA / 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

ILCOS	DRR-3,3/827-12-GU4-35/36
Order reference	LSMR11D2036 2,8

### LOGISTICAL DATA

Temperature range at storage	-20...+80 °C
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### 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
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	0.463
Chromaticity coordinate y	0.420
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	1402952,522914,1368262,2368081
Model number	AC32693,AC45658,AC17359,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
	Declarations of conformity	MR11 M3 M2 GU4
Photometric and lighting design files		Document name
	IES file (IES)	LPMR11D2036 3.2W 927 12V GU4
	LDT file (Eulumdat)	LPMR11D2036 3.2W 927 12V GU4
	Light distribution curve type polar	LPMR11D2036 3.2W 927 12V GU4
	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
4058075433083	Folding box 1	34 mm x 49 mm x 95 mm	29.00 g	0.16 dm <sup>3</sup>
4058075616998	Shipping box 6	121 mm x 109 mm x 104 mm	186.00 g	1.37 dm <sup>3</sup>
4058075452947	Shipping box 80			
4058075617001	Shipping box 48	258 mm x 234 mm x 234 mm	2198.00 g	14.13 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](http://www.ledvance.com/dim)
- For further products and actual information concerning LED lamps see [www.ledvance.com/ledlamps](http://www.ledvance.com/ledlamps)
- For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)
- Further information see [www.ledvance.com/low-voltage-ledlamps](http://www.ledvance.com/low-voltage-ledlamps)

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