

PRODUCT DATASHEET

LED Star MR16 45 36° CCT Select 5.6W 827/840/865 GU5.3

LED SUPERSTAR CCT SELECT | LED SPOT with three colors in one lamp



Areas of application

- Hospitality
- Residential interiors
- Display cabinets and shop windows
- Museums, art galleries
- Shops
- Outdoor use in suitable outdoor luminaires only

Product benefits

- Lower energy consumption than incandescent or halogen lamps

Product features

- Color temperature easily selectable via build-in switch
- Lifetime up to 15,000 h
- Mercury-free lamps



TECHNICAL DATA

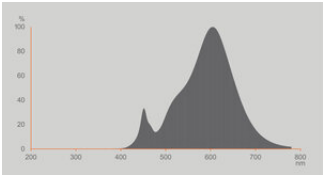
Electrical data

Nominal wattage	5.6 W
Construction wattage	5.60 W
Nominal voltage	12 V
Operating mode	CCG, ECG ¹⁾
Claimed equiv. conventional lamp power	45 W
Nominal current	650 mA
Type of current	AC/DC
Inrush current	23.8 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	25
Max. lamp number on MCB B16 A	31
Total harmonic distortion	≤120 %
Power factor λ	> 0.50

1) Check ECG compatibility at [ledvance.com/compatibility](https://www.ledvance.com/compatibility)

Photometrical data

Luminous intensity	800 cd
Luminous flux	550 lm
Nominal useful luminous flux 90°	550 lm
Luminous efficacy	98 lm/W
Lumen main.fact.at end of nom.life time	0.70
Color temperature	2700 K / 4000 K / 6500 K
Color rendering index Ra	80
Light color	827/840/865
Standard deviation of color matching	≤6 sdcn
Rated peak intensity	800 cd
Rated LLMF at 6,000 h	0.80
Flickering metric (Pst LM)	1.0
Stroboscope effect metric (SVM)	0.4



LSMR1645 5,6W 12V CCTS GU5.3

Light technical data

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

Dimensions & Weight

Overall length	45.00 mm
Diameter	50.00 mm
Maximum diameter	50 mm
Product weight	26.00 g

Temperatures & operating conditions

Ambient temperature range	-20...+40 °C
Maximum temperature at tc test point	78 °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
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Certificates & Standards

Energy efficiency class	F ¹⁾
Energy consumption	6.00 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	LSMR1645 5,6W 1
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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)	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	STEPS
Standby power	0 W
Networked standby power for CLS	0 W
Claim of equivalent power	Yes





Length	45.00 mm
Height	50.00 mm
Width	50.00 mm
Chromaticity coordinate x	0.458
Chromaticity coordinate y	0.410
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	1382163,2368082
Model number	AC45937,AC45937,AC83965

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	MR16 M3 M2 M1 GU5.3

Photometric and lighting design files		Document name
	IES file (IES)	MR16 45 CCT select
	LDT file (Eulumdat)	MR16 45 CCT select
	Light distribution curve type polar	MR16 45 CCT select
	Spectral power distribution	LSMR1645 5,6W 12V CCTS GU5.3

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854063978	Folding box 1	49 mm x 49 mm x 95 mm	36.00 g	0.23 dm³

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854063985	Shipping box 6	168 mm x 111 mm x 71 mm	291.00 g	1.32 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.

DISCLAIMER

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