

PRODUCT DATASHEET LED Star PAR16 80 120° 5.6W 865 GU10

LED STAR PAR16 | LED reflector lamps PAR16 with retrofit pin base



Areas of application

- Shops
- Hospitality
- Museums, art galleries
- Residential interiors
- As a downlight for marking walkways, doors, stairs, etc.
- Spotlighting for accents
- Spotlighting heat-sensitive objects such as food, plants, etc.
- Outdoor use in suitable outdoor luminaires only

Product benefits

- Lower energy consumption than incandescent or halogen lamps
- Easy replacement of halogen lamps due to compact full glass design and single optic
- Instant 100 % light, no warm-up time
- Ideal for economical spotlighting

Product features

- LED alternative to conventional high voltage lamps
- Mercury-free lamps





TECHNICAL DATA

Electrical data

Nominal wattage	5.6 W
Construction wattage	5.60 W
Nominal voltage	220240 V
Operating mode	AC Mains
Claimed equiv. conventional lamp power	49 W
Nominal current	50 mA
Type of current	AC
Inrush current	8.2 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	40
Total harmonic distortion	150 %
Power factor λ	> 0.50

Photometrical data

Luminous intensity220 cdLuminous flux620 lmLuminous efficacy110 lm/WLumen main.fact.at end of nom.life time0.93Light color (designation)Cool DaylightColor temperature6500 KColor rendering index Ra80Light color865Standard deviation of color matching≤6 sdcmRated peak intensity220 cdFlickering metric (Pst LM)1.0Stroboscope effect metric (SVM)0.4		
Luminous efficacy 110 lm/W Lumen main.fact.at end of nom.life time 0.93 Light color (designation) Cool Daylight Color temperature 6500 K Color rendering index Ra 80 Light color 865 Standard deviation of color matching ≤6 sdcm Rated peak intensity 220 cd Flickering metric (Pst LM) 1.0	Luminous intensity	220 cd
Lumen main.fact.at end of nom.life time 0.93 Light color (designation) Cool Daylight Color temperature 6500 K Color rendering index Ra 80 Light color 865 Standard deviation of color matching ≤6 sdcm Rated peak intensity 220 cd Flickering metric (Pst LM) 1.0	Luminous flux	620 lm
Light color (designation)Cool DaylightColor temperature6500 KColor rendering index Ra80Light color865Standard deviation of color matching≤6 sdcmRated peak intensity220 cdFlickering metric (Pst LM)1.0	Luminous efficacy	110 lm/W
Color temperature 6500 K Color rendering index Ra 80 Light color 865 Standard deviation of color matching ≤6 sdcm Rated peak intensity 220 cd Flickering metric (Pst LM) 1.0	Lumen main.fact.at end of nom.life time	0.93
Color rendering index Ra 80 Light color 865 Standard deviation of color matching ≤6 sdcm Rated peak intensity 220 cd Flickering metric (Pst LM) 1.0	Light color (designation)	Cool Daylight
Light color 865 Standard deviation of color matching ≤6 sdcm Rated peak intensity 220 cd Flickering metric (Pst LM) 1.0	Color temperature	6500 K
Standard deviation of color matching ≤6 sdcm Rated peak intensity 220 cd Flickering metric (Pst LM) 1.0	Color rendering index Ra	80
Rated peak intensity 220 cd Flickering metric (Pst LM) 1.0	Light color	865
Flickering metric (Pst LM) 1.0	Standard deviation of color matching	≤6 sdcm
	Rated peak intensity	220 cd
Stroboscope effect metric (SVM) 0.4	Flickering metric (Pst LM)	1.0
	Stroboscope effect metric (SVM)	0.4



OS 8W6565RL11L14 6500K

Light technical data

Beam angle	120°
Warm-up time (60 %)	< 0.50 s
Starting time	< 0.5 s

Dimensions & Weight

Overall length	54.00 mm
Diameter	50.00 mm
Maximum diameter	50 mm
Product weight	39.00 g

Temperatures & operating conditions

Ambient temperature range	-20+40 °C
Maximum temperature at tc test point	107.61 °C

Lifespan

Lifespan L70/B50 at 25 °C	15000 h
Number of switching cycles	100000
Lumen maintenance at end of service lifetime	0.93

Additional product data

Base (standard designation)	GU10
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

Certificates & Standards

Energy efficiency class	E 1)
Energy consumption	6.00 kWh/1000h
Type of protection	IP20
Standards	CE / EAC / UKCA
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	LSPAR1680120 5,

LOGISTICAL DATA

Energy labelling regulation data acc EU 2019/2015

Lighting technology used	LED
Non-directional or directional	NDLS
Mains or non-mains	MLS
Light source cap-type (or other electric interface)	GU10
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	54.00 mm

Height	50.00 mm
Width	50.00 mm
Chromaticity coordinate x	0.3123
Chromaticity coordinate y	0.3282
R9 Colour rendering index	1
Beam angle correspondence	SPHERE_360
Survival factor	0.90
Displacement factor	> 0.7
LED light source replaces a fluorescent light source	No
EPREL ID	2176431
Model number	AC70604,AC70604

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 PAR16 GU10
POF	Declarations of conformity UKCA	LED PAR16 GU10

Photometric and lighting design files Document		Document name
	Spectral power distribution	OS 8W6565RL11L14 6500K

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854457463	Folding box 1	52 mm x 52 mm x 95 mm	49.00 g	0.26 dm ³
4099854457470	Shipping box	185 mm x 120 mm x 76 mm	369.00 g	1.69 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

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