

## PRODUCT DATASHEET

# LED Superstar Plus PAR16 50 120° DIM 4.1W 940 GU10

LED SUPERSTAR PLUS REFLECTOR PAR16 | Dimmable LED reflector lamps PAR16 with bajonett base, natural daylight



### 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 a halogen lamp
- Natural light spectrum with outstanding color rendering of CRI > 90
- Greatly reduced blue component
- Improved visual comfort and reduced eye strain
- Low maintenance costs and cost savings thanks to long lifetime
- Low flickering
- Lower energy consumption than incandescent or halogen lamps

### Product features

- LED alternative to conventional low voltage lamps
- Dimmable



- Base: GU10
- Color rendering index  $R_a \geq 90$
- Lamp made of glass

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**TECHNICAL DATA****Electrical data**

Nominal wattage	4.1 W
Construction wattage	4.10 W
Nominal voltage	220...240 V
Operating mode	AC Mains
Claimed equiv. conventional lamp power	32 W
Nominal current	37 mA
Type of current	AC
Inrush current	2.48 A
Operating frequency	50 Hz
Mains frequency	50 Hz
Max. lamp number on MCB B10 A	84
Max. lamp number on MCB B16 A	133
Total harmonic distortion	120 %
Power factor $\lambda$	> 0.50

**Photometrical data**

Luminous intensity	115 cd
Luminous flux	350 lm
Luminous efficacy	85 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	≤6 sdcn
Rated peak intensity	115 cd
Flickering metric (Pst LM)	1.0
Stroboscope effect metric (SVM)	0.4



Everlight 67-23ST HKE 4000K

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	75 °C

Lifespan

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

Additional product data

Base (standard designation)	GU10
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
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### 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	F <sup>1)</sup>
Energy consumption	5.00 kWh/1000h
Type of protection	IP20
Standards	CE / EAC / UKCA
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	LSSPP1650120 4,
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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	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	0.3818
Chromaticity coordinate y	0.3797
R9 Colour rendering index	1
Beam angle correspondence	SPHERE_360
Survival factor	0.90
Displacement factor	0.5
LED light source replaces a fluorescent light source	No
EPREL ID	642823,1841972
Model number	AC35788,AC58010,AC58010

### 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	PAR16 M2+ 50 120° 4000K GU10
	Declarations of conformity	LED PA16
	Declarations of conformity UKCA	LED PAR16
Photometric and lighting design files		Document name
	IES file (IES)	PAR16 M2 PLUS 50 120 4000K GU10
	LDT file (Eulumdat)	PAR16 M2 PLUS 50 120 4000K GU10
	Light distribution curve type polar	PAR16 M2 PLUS 50 120 4000K GU10
	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
4058075613140	Folding box 1	52 mm x 52 mm x 95 mm	49.00 g	0.26 dm <sup>3</sup>
4058075613157	Shipping box 6	185 mm x 120 mm x 76 mm	345.00 g	1.69 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.

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### References / Links

- For dimming conformity see [www.ledvance.com/dim](http://www.ledvance.com/dim)
- For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)

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