

# PRODUCT DATASHEET LED Superstar PAR 16 50 36° DIM 4.5W 940 GU10

LED SUPERSTAR PAR16 | Dimmable 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
- Display cabinets and shop windows
- 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
- High color consistency thanks to narrow binning
- Easy replacement of halogen lamps due to compact full glass design and single optic
- Ideal for economical spotlighting

#### **Product features**

- LED alternative to conventional high voltage lamps
- Dimmable (with many common dimmers, see also www.ledvance.com/dim)
- Mercury-free lamps



940 GU10



## TECHNICAL DATA

## Electrical data

Nominal wattage	4.5 W
Construction wattage	4.50 W
Nominal voltage	220240 V
Operating mode	AC Mains
Claimed equiv. conventional lamp power	50 W
Nominal current	41 mA
Type of current	AC
Inrush current	2.56 A
Operating frequency	50 Hz
Mains frequency	50 Hz
Max. lamp number on MCB B10 A	81
Max. lamp number on MCB B16 A	129
Total harmonic distortion	120 %
Power factor $\lambda$	> 0.70

## Photometrical data

Luminous intensity	700 cd
Luminous flux	350 lm
Nominal useful luminous flux 90°	350 lm
Luminous efficacy	77 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	≤5 sdcm
Rated peak intensity	700 cd
Flickering metric (Pst LM)	1.0
Stroboscope effect metric (SVM)	0.4



Everlight 67-23ST HKE 4000K

# Light technical data

Beam angle	36 °
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	85 °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

All technical parameters apply to the entire lamp / D production process for light-emitting diodes, the typ Product remark  Product remark  for the technical LED parameters are purely statistic not necessarily match the actual technical parameter individual product, which can vary from the typical variations.	oical values shown al values that do ers of each
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## Capabilities

Dimmable	es <sup>1)</sup>
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<sup>1)</sup> Check dimmer compatibility at ledvance.com/compatibility

#### Certificates & Standards

Energy efficiency class	F 1)
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	LSSPR16D5036 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	DLS
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	NARROW_CONE_90
Survival factor	0.90
Displacement factor	0.5
LED light source replaces a fluorescent light source	No
EPREL ID	1236492,1368284,1842029
Model number	AC42787,AC45706,AC58004

## 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	PAR16 and GX53		
PDF	Declarations of conformity	LED PA16		
PDF	Declarations of conformity UKCA	LED PAR16		
	Photometric and lighting design files	Document name		
ES	IES file (IES)	PAR16 M2 50 36 940 GU10		
	LDT file (Eulumdat)	PAR16 M2 50 36 940 GU10		
	Light distribution curve type polar	PAR16 M2 50 36 940 GU10		

## LOGISTICAL DATA

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Spectral power distribution

Everlight 67-23ST HKE 4000K

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075798120	Folding box 1	52 mm x 52 mm x 95 mm	48.00 g	0.26 dm <sup>3</sup>
4058075798137	Shipping box	185 mm x 120 mm x 76 mm	360.00 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.

#### References / Links

- For dimming conformity see www.ledvance.com/dim
- For further products and actual information concerning LED lamps see www.ledvance.com/ledlamps
- For Guarantee see www.ledvance.com/guarantee

#### **DISCLAIMER**

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

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