

# PRODUCT DATASHEET

## LED PAR16 50 120° P 3.1W 830 GU10

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



PERFOR-  
MANCE  
CLASS

### 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 an incandescent or halogen lamp
- Low maintenance costs thanks to long lifetime
- No UV and near-IR radiation in the light beam
- Instant 100 % light, no warm-up time
- Lower energy consumption than incandescent or halogen lamps

### Product features

- LED alternative to high voltage halogen lamps
- High color consistency:  $\leq 6$  SDCM
- Not dimmable
- Lamp made of glass
- Good quality of light; color rendering index CRI  $\geq 80$



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

Nominal wattage	3.1 W
Construction wattage	3.10 W
Nominal voltage	220...240 V
Operating mode	AC Mains
Claimed equiv. conventional lamp power	32 W
Nominal current	25 mA
Type of current	AC
Inrush current	7.1 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	84
Max. lamp number on MCB B16 A	105
Total harmonic distortion	≤180 %
Power factor $\lambda$	> 0.40

**Photometrical data**

Luminous intensity	100 cd
Luminous flux	350 lm
Nominal useful luminous flux 90°	350 lm
Luminous efficacy	112 lm/W
Lumen main.fact.at end of nom.life time	0.93
Light color (designation)	Warm White
Color temperature	3000 K
Color rendering index Ra	80
Light color	830
Standard deviation of color matching	≤6 sdc <sub>m</sub>
Rated peak intensity	100 cd
Flickering metric (Pst LM)	1.0
Stroboscope effect metric (SVM)	0.4



OS S10x18 3000K

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	36.00 g

Temperatures & operating conditions

Ambient temperature range	-20...+40 °C
Maximum temperature at tc test point	81.1 °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

Dimmable	No
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### Certificates & Standards

Energy efficiency class	E <sup>1)</sup>
Energy consumption	4.00 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	LED PAR1650120
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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	0.4339
Chromaticity coordinate y	0.4033
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	2176367,2363532,2366024
Model number	AC70622,AC83995,AC84526

### 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	LED PAR16 GU10
	Declarations of conformity UKCA	LED PAR16 GU10
Photometric and lighting design files		Document name
	Spectral power distribution	OS S10x18 3000K

### LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854458101	Folding box 1	49 mm x 49 mm x 62 mm	43.00 g	0.15 dm <sup>3</sup>
4099854458118	Shipping box 10	255 mm x 107 mm x 72 mm	483.00 g	1.96 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 Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)
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