

PRODUCT DATASHEET LED PAR16 80 120° P 6.9W 840 GU10

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



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: ≤ 6 SDCM
- Not dimmable
- Lamp made of glass
- Good quality of light; color rendering index R_a : ≥ 80





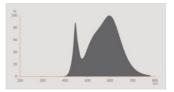
TECHNICAL DATA

Electrical data

Nominal wattage	6.9 W
Construction wattage	6.90 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	4.84 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp no. on circuit break. 10 A (B)	116
Max. lamp no. on circuit break. 16 A (B)	184
Total harmonic distortion	150 %
Power factor λ	> 0.50

Photometrical data

Luminous intensity	170 cd
Luminous flux	620 lm
Luminous efficacy	90 lm/W
Lumen main.fact.at end of nom.life time	0.93
Light color (designation)	Cool White
Color temperature	4000 K
Color rendering index Ra	80
Light color	840
Standard deviation of color matching	≤6 sdcm
Rated peak intensity	170 cd
Flickering metric (Pst LM)	1.0
Stroboscope effect metric (SVM)	0.4



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	97.5 °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

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
Certificates & Standards	
Energy efficiency class	F 1)
Energy consumption	7.00 kWh/1000h
Type of protection	IP20
Standards	CE / UKCA / EAC
Photobiological safety group acc. to EN62778	RG1
Order reference LOGISTICAL DATA	LED PAR1680120
Temperature range at storage	-20+80 °C
Energy labelling regulation data acc EU 2019/2015	
Energy labelling regulation data acc EU 2019/2015 Lighting technology used	LED
	LED NDLS
Lighting technology used	
Lighting technology used Non-directional or directional	NDLS
Lighting technology used Non-directional or directional Mains or non-mains	NDLS MLS
Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface)	NDLS MLS GU10
Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS)	NDLS MLS GU10 No
Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS) Color-tuneable light source	NDLS MLS GU10 No No
Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS) Color-tuneable light source Envelope	NDLS MLS GU10 No No No
Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS) Color-tuneable light source Envelope High luminance light source	NDLS MLS GU10 No No No No No
Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS) Color-tuneable light source Envelope High luminance light source Anti-glare shield	NDLS MLS GU10 No No No No No No
Lighting technology used Non-directional or directional Mains or non-mains Light source cap-type (or other electric interface) Connected light source (CLS) Color-tuneable light source Envelope High luminance light source Anti-glare shield Correlated colour temperature type	NDLS MLS GU10 No No No No No SINGLE_VALUE

50.00 mm

Height

Width	50.00 mm
Chromaticity coordinate x	0.3818
Chromaticity coordinate y	0.3797
R9 Colour rendering index	9
Beam angle correspondence	SPHERE_360
Survival factor	0.9
Displacement factor	0.70
LED light source replaces a fluorescent light source	No
EPREL ID	1368245,1841996
Model number	AC45673,AC57949

DOWNLOAD DATA

	Documents and certificates
PDF	Declarations Of Conformity CE
PDF	Declarations Of Conformity UKCA

Photometric and lighting design files



Spectral power distribution

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854055133	Folding box	52 mm x 52 mm x 60 mm	52.00 g	0.16 dm ³
4099854055140	Shipping box 10	270 mm x 114 mm x 72 mm	593.00 g	2.22 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 dimming conformity see www.ledvance.com/dim
- For Guarantee see www.ledvance.com/guarantee

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