PRODUCT DATASHEET
LED PAR16 80 120° DIM P 6.9W 940 GU10

LED PAR16 DIM P | Dimmable 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
- Stepless dimming
- Very high dimmer compatibility, see also www.ledvance.com/dim
- Instant 100 % light, no warm-up time
- Lower energy consumption than incandescent or halogen lamps

Product features

- LED alternative to high voltage halogen lamps
- Dimmable
- Lamp made of glass





TECHNICAL DATA

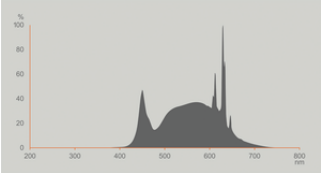
Electrical data

Nominal wattage	6.9 W
Construction wattage	6.90 W
Nominal voltage	220…240 V
Operating mode	AC Mains
Claimed equiv. conventional lamp power	51 W
Nominal current	44 mA
Type of current	AC
Inrush current	12.4 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	48
Max. lamp number on MCB B16 A	60
Maximum total harmonic distortion	150 %
Power factor λ	> 0.50

Photometrical data

Luminous intensity	340 cd
Luminous flux	650 lm
Nominal useful luminous flux 90°	650 lm
Luminous efficacy	94 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	340 cd
Flickering metric (Pst LM)	1.0
Stroboscope effect metric (SVM)	0.4

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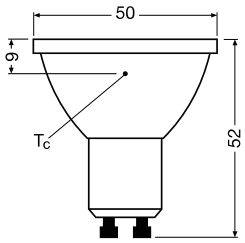


EPREL data spectral diagram PROF LEDr 4000K CRI90

Light technical data

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

Dimensions & Weight



Overall length	52.00 mm
Diameter	50.00 mm
Maximum diameter	50 mm
Product weight	38.00 g

Temperatures & operating conditions

Ambient temperature range	-20…+40 °C
Maximum temperature at tc test point	110 °C

Lifespan

Lifespan L70/B50 at 25 °C	25000 h
Number of switching cycles	100000

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Lumen maintenance at end of service lifetime	0.96

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	Yes [1)]

1) Check dimmer compatibility at ledvance.com/compatibility

Certificates & Standards

Energy efficiency class	E [1)]
Energy consumption	7.00 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	LED PAR1680120

LOGISTICAL DATA

Temperature range at storage	-20…+80 °C

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

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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	52.00 mm
Height	50.00 mm
Width	50.00 mm
Chromaticity coordinate x	0.3850
Chromaticity coordinate y	0.3738
R9 Colour rendering index	1
Beam angle correspondence	WIDE_CONE_120
Survival factor	0.9
Displacement factor	> 0.7
LED light source replaces a fluorescent light source	No
EPREL ID	2176418,2499560
Model number	AC70568,AC91828,AC91828

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 lamp PAR16 GU10
PDF	Declarations of conformity	LED PAR16 MR16 R50
PDF	Declarations of conformity UKCA	LED lamp PAR16 GU10
PDF	Declarations of conformity UKCA	LED PAR16 MR16 R50

	Photometric and lighting design files	Document name
IES	IES file (IES)	LED PAR1680120 DIM 6.9W 940 GU10 P LEDV
LDT	LDT file (Eulumdat)	LED PAR1680120 DIM 6.9W 940 GU10 P LEDV

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	Photometric and lighting design files	Document name
	UGR file (UGR table)	LED PAR1680120 DIM 6.9W 940 GU10 P LEDV
	Light distribution curve type polar	LED PAR1680120 DIM 6.9W 940 GU10 P LEDV
	Spectral power distribution	EPREL data spectral diagram PROF LEDr 4000K CRI90

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854456435	Folding box 1	49 mm x 49 mm x 62 mm	45.00 g	0.15 dm^3
4099854456442	Shipping box 10	255 mm x 107 mm x 72 mm	500.00 g	1.96 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

DISCLAIMER

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