PRODUCT DATASHEET

LED PAR16 50 36° Energy efficiency class A S 2W 840 GU10

LED LAMPS ENERGY EFFICIENCY REFLECTOR S | LED reflector lamps PAR16, ENERGY EFFICIENCY CLASS A



SUPERIOR CLASS

Areas of application

- Domestic applications
- General illumination
- Outdoor use in suitable outdoor luminaires only

Product benefits

- Design, dimensions, luminous flux comparable to a halogen lamp
- Instant 100 % light, no warm-up time
- Low flickering

Product features

- LED alternative to high voltage halogen lamps
- Very long lifetime of up to 50,000 h
- Luminous efficacy: up to 180 lm/W
- Very high number of switching cycles up to 100,000





TECHNICAL DATA

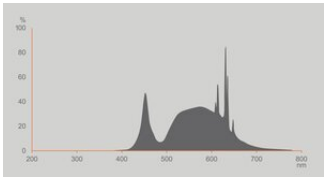
Electrical data

Nominal wattage	2 W
Construction wattage	2.00 W
Nominal voltage	220…240 V
Operating mode	AC Mains
Claimed equiv. conventional lamp power	50 W
Nominal current	28 mA
Type of current	AC
Inrush current	15.4 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	36
Max. lamp number on MCB B16 A	58
Maximum total harmonic distortion	150 %
Power factor λ	> 0.40

Photometrical data

Luminous intensity	750 cd
Luminous flux	360 lm
Nominal useful luminous flux 90°	360 lm
Luminous efficacy	180 lm/W
Lumen main.fact.at end of nom.life time	0.98
Light color (designation)	Cool White
Color temperature	4000 K
Color rendering index Ra	80
Light color	840
Standard deviation of color matching	≤5 sdcm
Rated peak intensity	750 cd
Flickering metric (Pst LM)	1.0
Stroboscope effect metric (SVM)	0.4

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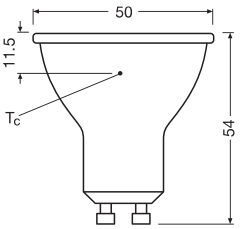


LED PAR16 100° 840 GU10 EELA

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	47.00 g

Temperatures & operating conditions

Ambient temperature range	-20…+40 °C
Maximum temperature at tc test point	58.7 °C

Lifespan

Lifespan L70/B50 at 25 °C	50000 h
Number of switching cycles	100000
Lumen maintenance at end of service lifetime	0.98

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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

Certificates & Standards

Energy efficiency class	A [1)]
Energy consumption	2.00 kWh/1000h
Type of protection	IP20
Standards	CE / UKCA / EAC
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 PAR165036 E

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
High luminance light source	No
Anti-glare shield	No
Correlated colour temperature type	SINGLE_VALUE

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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	1847350,2176354
Model number	AC58802,AC70545,AC70545

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 PAR16
PDF	Declarations of conformity	LED PAR16 GU10
PDF	Declarations of conformity UKCA	LED PAR16
PDF	Declarations of conformity UKCA	LED PAR16 GU10

	Photometric and lighting design files	Document name
IES	IES file (IES)	LED PAR165036 EELA 2W 840 GU10 S LEDV
LDT	LDT file (Eulumdat)	LED PAR165036 EELA 2W 840 GU10 S LEDV
	UGR file (UGR table)	LED PAR165036 EELA 2W 840 GU10 S LEDV

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	Photometric and lighting design files	Document name
	Light distribution curve type polar	LED PAR165036 EELA 2W 840 GU10 S LEDV
	Spectral power distribution	LED PAR16 100° 840 GU10 EELA

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854245275	Folding box 1	52 mm x 52 mm x 60 mm	55.00 g	0.16 dm^3
4099854245282	Shipping box 10	270 mm x 114 mm x 72 mm	660.00 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 further products and actual information concerning LED lamps see www.ledvance.com/ledlamps
- For Guarantee see www.ledvance.com/guarantee
- Further information see www.ledvance.com/low-voltage-ledlamps

DISCLAIMER

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