

# PRODUCT DATASHEET

## LED PAR16 50 36° Energy efficiency class A S 2W 827 GU10

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



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### Areas of application

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

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### Product benefits

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

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### 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

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## 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	19 mA
Type of current	AC
Inrush current	5.85 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	37
Max. lamp number on MCB B16 A	44
Total harmonic distortion	200 %
Power factor $\lambda$	$\geq 0.40$

### Photometrical data

Luminous intensity	600 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)	Warm White
Color temperature	2700 K
Color rendering index Ra	80
Light color	827
Standard deviation of color matching	$\leq 6$ sdcn
Rated peak intensity	600 cd
Rated LLMF at 6,000 h	0.80
Flickering metric (Pst LM)	$< 1.0$
Stroboscope effect metric (SVM)	$< 0.4$

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### 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	49.00 g

### Temperatures & operating conditions

Ambient temperature range	-20...+40 °C
Maximum temperature at tc test point	83,2 °C

### Lifespan

Lifespan L70/B50 at 25 °C	50000 h
Number of switching cycles	100000
Lumen maintenance at end of service lifetime	0.98
Rated lamp survival factor at 6,000 h	≥ 0.90

### 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

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Dimmable	No
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### Certificates & Standards

Energy efficiency class	A <sup>1)</sup>
Energy consumption	2.00 kWh/1000h
Type of protection	IP20
Standards	CE / UKCA / EAC
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 PAR165036 E
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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
Claim of equivalent power	Yes
Length	54.00 mm
Height	50.00 mm
Width	50.00 mm
Chromaticity coordinate x	0.463
Chromaticity coordinate y	0.420
R9 Colour rendering index	1
Beam angle correspondence	NARROW_CONE_90
Survival factor	0.9

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Displacement factor	≥0.7
LED light source replaces a fluorescent light source	No
EPREL ID	1382162
Model number	AC45940

### 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
<input type="checkbox"/>	Declarations of conformity	LED SPOT PAR16 50

	Photometric and lighting design files	Document name
<input type="checkbox"/>	IES file (IES)	PAR16 50 827 Energy Label A
<input type="checkbox"/>	LDT file (Eulumdat)	PAR16 50 827 Energy Label A
<input type="checkbox"/>	Light distribution curve type polar	PAR16 50 827 Energy Label A
<input type="checkbox"/>	Spectral power distribution	LED PAR165036 EELA GU10

### LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854071690	Folding box 1	49 mm x 49 mm x 95 mm	59.00 g	0.23 dm <sup>3</sup>
4099854071706	Shipping box 6	168 mm x 111 mm x 71 mm	429.00 g	1.32 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 further products and actual information concerning LED lamps see [www.ledvance.com/ledlamps](http://www.ledvance.com/ledlamps)
- For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)
- Further information see [www.ledvance.com/low-voltage-ledlamps](http://www.ledvance.com/low-voltage-ledlamps)

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