

# PRODUCT DATASHEET LED PAR16 80 36° V 6.9W 840 GU10

LED PAR16 V | 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 halogen lamps
- Not dimmable
- Base: GU10
- Lamp made of glass
- Good quality of light; color rendering index CRI  $\geq$  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	80 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 number on MCB B10 A	116
Max. lamp number on MCB B16 A	184
Total harmonic distortion	150 %
Power factor $\lambda$	> 0.50

## Photometrical data

Luminous intensity	910 cd
Luminous flux	575 lm
Nominal useful luminous flux 90°	575 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	910 cd
Flickering metric (Pst LM)	1.0
Stroboscope effect metric (SVM)	0.4



OS S10x18 4000K

# 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	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	10000 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	LED PAR168036 6
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OGISTICAL DATA	LED PAR168036 6
	-20+80 °C
OGISTICAL DATA	
OGISTICAL DATA  Temperature range at storage	
COGISTICAL DATA  Temperature range at storage  Energy labelling regulation data acc EU 2019/2015	-20+80 °C
COGISTICAL DATA  Temperature range at storage  Energy labelling regulation data acc EU 2019/2015  Lighting technology used	-20+80 °C
COGISTICAL DATA  Temperature range at storage  Energy labelling regulation data acc EU 2019/2015  Lighting technology used  Non-directional or directional	-20+80 °C  LED  DLS
COGISTICAL DATA  Temperature range at storage  Energy labelling regulation data acc EU 2019/2015  Lighting technology used  Non-directional or directional  Mains or non-mains	-20+80 °C  LED  DLS  MLS
COGISTICAL DATA  Temperature range at storage  Energy labelling regulation data acc EU 2019/2015  Lighting technology used  Non-directional or directional  Mains or non-mains  Light source cap-type (or other electric interface)	-20+80 °C  LED  DLS  MLS  GU10
Connected light source (CLS)  Temperature range at storage  Energy labelling regulation data acc EU 2019/2015  Lighting technology used  Non-directional or directional  Mains or non-mains  Light source cap-type (or other electric interface)	-20+80 °C  LED  DLS  MLS  GU10  No
Color-tuneable light source  Conglistical Data  Temperature range at storage  Energy labelling regulation data acc EU 2019/2015  Lighting technology used  Non-directional or directional  Mains or non-mains  Light source cap-type (or other electric interface)  Color-tuneable light source	-20+80 °C  LED  DLS  MLS  GU10  No  No
Colstical Data  Temperature range at storage  Energy labelling regulation data acc EU 2019/2015  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	-20+80 °C  LED  DLS  MLS  GU10  No  No
Temperature range at storage  Energy labelling regulation data acc EU 2019/2015  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	-20+80 °C  LED  DLS  MLS  GU10  No  No  No  No
Temperature range at storage  Energy labelling regulation data acc EU 2019/2015  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	-20+80 °C  LED  DLS  MLS  GU10  No  No  No  No  No

54.00 mm

50.00 mm

Length

Height

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	0.9
Displacement factor	0.70
LED light source replaces a fluorescent light source	No
EPREL ID	1368239,1841990,2505767
Model number	AC45667,AC57944,AC57944,AC57944,AC91855

# Safety advice

- Do not touch the lamp if broken.
- Must not be used if outer bulb is defective.

Documents and certificates

## DOWNLOAD DATA

	200dinonto dila continoatoo	2004.116114.114	
PDF	Declarations of conformity	LED SPOT PAR16	
PDF	Declarations of conformity	LED PA16	
PDF	Declarations of conformity UKCA	LED PAR16	
	Photometric and lighting design files	Document name	
	IES file (IES)	PAR16 M3 80 36 4000K GU10	
	LDT file (Eulumdat)	PAR16 M3 80 36 4000K GU10	
	Light distribution curve type polar	PAR16 M3 80 36 4000K GU10	
	Light distribution curve type polar  Spectral power distribution	PAR16 M3 80 36 4000K GU10 OS S10x18 4000K	

# LOGISTICAL DATA

Document name

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854055331	Folding box	52 mm x 52 mm x 60 mm	52.00 g	0.16 dm <sup>3</sup>
4099854055348	Shipping box 10	270 mm x 114 mm x 72 mm	569.00 g	2.22 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 Guarantee see www.ledvance.com/guarantee

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