# PRODUCT DATASHEET
# LED Superstar Plus PAR16 80 120° 6W 927 GU10

LED SUPERSTAR PLUS REFLECTOR PAR16 | Dimmable LED reflector lamps PAR16 with bajonett base, natural daylight



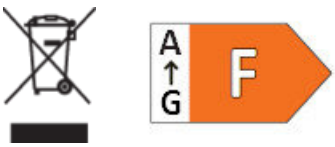
## Areas of application

- 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 a halogen lamp
- Natural light spectrum with outstanding color rendering of CRI>90
- Greatly reduced blue component
- Improved visual comfort and reduced eye strain
- Low maintenance costs and cost savings thanks to long lifetime
- Low flickering

## Product features





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- LED alternative to conventional low voltage lamps
- Dimmable
- Base: GU10
- Color rendering index $R_a$: ≥ 90
- Lamp made of glass


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## TECHNICAL DATA

### Electrical data

| | |
|---|---|
| Nominal wattage | 6 W |
| Construction wattage | 6.00 W |
| Nominal voltage | 220…240 V |
| Operating mode | AC Mains |
| Claimed equiv. conventional lamp power | 46 W |
| Nominal current | 32 mA |
| Type of current | AC |
| Inrush current | 0.036 A |
| Operating frequency | 50/60 Hz |
| Mains frequency | 50/60 Hz |
| Max. lamp no. on circuit break. 10 A (B) | 250 |
| Max. lamp no. on circuit break. 16 A (B) | 400 |
| Total harmonic distortion | < 120 % |
| Power factor λ | > 0.50 |

### Photometrical data

| | |
|---|---|
| Luminous intensity | 200 cd |
| Luminous flux | 575 lm |
| Nominal useful luminous flux 90° | 575 lm |
| Luminous efficacy | 95 lm/W |
| Lumen main.fact.at end of nom.life time | 0.70 |
| Light color (designation) | Warm White |
| Color temperature | 2700 K |
| Color rendering index Ra | 90 |
| Light color | 927 |
| Standard deviation of color matching | ≤6 sdcm |
| Rated peak intensity | 200 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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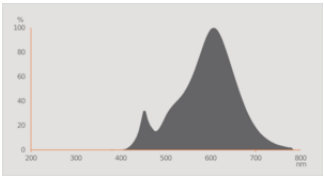

## Light technical data

| | |
|---|---|
| Beam angle | 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 | 41.00 g |

## Temperatures & operating conditions

| | |
|---|---|
| Ambient temperature range | -20…+40 °C |
| Maximum temperature at tc test point | 96 °C |

## Lifespan

| | |
|---|---|
| Lifespan L70/B50 at 25 °C | 25000 h |
| Number of switching cycles | 100000 |
| Lumen maintenance at end of service lifetime | 0.70 |
| 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 |


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| | |
|---|---|
| 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 | F [1)] |
| Energy consumption | 6.00 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 | LSSPP1680120 6W |

## 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 | NDLS |
| 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 |
| Standby power | 0 W |
| Networked standby power for CLS | 0 W |
| Claim of equivalent power | Yes |


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| | |
|---|---|
| Length | 54.00 mm |
| Height | 50.00 mm |
| Width | 50.00 mm |
| Chromaticity coordinate x | 0.458 |
| Chromaticity coordinate y | 0.410 |
| R9 Colour rendering index | 40 |
| Beam angle correspondence | SPHERE_360 |
| Survival factor | 0.90 |
| Displacement factor | 0.50 |
| LED light source replaces a fluorescent light source | No |
| EPREL ID | 642824,1368252,1841983 |
| Model number | AC35789,AC45639,AC58011 |

## DOWNLOAD DATA

| | Documents and certificates |
|---|---|
| PDF | Declarations Of Conformity CE |

| | Photometric and lighting design files |
|---|---|
| IES | IES file (IES) |
| LDT | LDT file (Eulumdat) |
| | LDC typ polar |
| | Spectral power distribution |

## LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---|---|---|---|---|
| 4058075613164 | Folding box<br>1 | 49 mm x 49 mm x 95 mm | 51.00 g | 0.23 $dm^3$ |
| 4058075613171 | Shipping box<br>6 | 168 mm x 111 mm x 71 mm | 378.00 g | 1.32 $dm^3$ |

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.


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## References / Links

- For dimming conformity see www.ledvance.com/dim
- For Guarantee see www.ledvance.com/guarantee

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