

# PRODUCT DATASHEET

## LED PAR16 80 120° DIM P 7.9W 927 GU10

LED PAR16 DIM P | Dimmable 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
- Stepless dimming
- Very high dimmer compatibility, see also [www.ledvance.com/dim](http://www.ledvance.com/dim)
- Instant 100 % light, no warm-up time

### Product features

- LED alternative to high voltage halogen lamps
- High color consistency:  $\leq 5$  SDCM
- Dimmable
- Lamp made of glass
- Very high color rendering ( $R_a: 90$ )



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**TECHNICAL DATA****Electrical data**

|                                          |             |
|------------------------------------------|-------------|
| Nominal wattage                          | 7.9 W       |
| Construction wattage                     | 7.90 W      |
| Nominal voltage                          | 220...240 V |
| Operating mode                           | AC Mains    |
| Claimed equiv. conventional lamp power   | 51 W        |
| Nominal current                          | 46 mA       |
| Type of current                          | AC          |
| Inrush current                           | 1 A         |
| Operating frequency                      | 50/60 Hz    |
| Mains frequency                          | 50/60 Hz    |
| Max. lamp no. on circuit break. 10 A (B) | 117         |
| Max. lamp no. on circuit break. 16 A (B) | 187         |
| Total harmonic distortion                | 120 %       |
| Power factor $\lambda$                   | > 0.70      |

**Photometrical data**

|                                         |                           |
|-----------------------------------------|---------------------------|
| Luminous intensity                      | 210 cd                    |
| Luminous flux                           | 650 lm                    |
| Luminous efficacy                       | 82 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    | $\leq 5$ sdc <sub>m</sub> |
| Rated peak intensity                    | 210 cd                    |
| Rated LLMF at 6,000 h                   | 0.80                      |
| Flickering metric (Pst LM)              | <1                        |
| Stroboscope effect metric (SVM)         | <0.4                      |



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   | 57.00 g  |

Temperatures & operating conditions

|                                      |              |
|--------------------------------------|--------------|
| Ambient temperature range            | -20...+40 °C |
| Maximum temperature at tc test point | 105 °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                                                                                                                                                                                                                                                                                                                                          |
| 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 <sup>1)</sup> |
|----------|-------------------|

<sup>1)</sup> Check dimmer compatibility at [ledvance.com/compatibility](https://www.ledvance.com/compatibility)

### Certificates & Standards

|                                              |                 |
|----------------------------------------------|-----------------|
| Energy efficiency class                      | G <sup>1)</sup> |
| Energy consumption                           | 8.00 kWh/1000h  |
| Type of protection                           | IP20            |
| Standards                                    | CE / 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 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                      | 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          |
| Length                                              | 52.00 mm     |
| Height                                              | 50.00 mm     |
| Width                                               | 50.00 mm     |
| Chromaticity coordinate x                           | 0.,458       |
| Chromaticity coordinate y                           | 0.41         |

|                                                      |            |
|------------------------------------------------------|------------|
| R9 Colour rendering index                            | 0.00       |
| Beam angle correspondence                            | SPHERE_360 |
| Survival factor                                      | 0.90       |
| Displacement factor                                  | 0.70       |
| LED light source replaces a fluorescent light source | No         |
| EPREL ID                                             | 1368273    |
| Model number                                         | AC45740    |

## DOWNLOAD DATA

| Documents and certificates                                                        |                               |
|-----------------------------------------------------------------------------------|-------------------------------|
|   | Declarations Of Conformity CE |
| Photometric and lighting design files                                             |                               |
|  | Spectral power distribution   |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume               |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4099854059018 | Folding box<br>1             | 49 mm x 49 mm x 62 mm                | 64.00 g      | 0.15 dm <sup>3</sup> |
| 4099854059025 | Shipping box<br>10           | 255 mm x 107 mm x 72 mm              | 690.00 g     | 1.96 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 dimming conformity see [www.ledvance.com/dim](http://www.ledvance.com/dim)
- 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)

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