

## PRODUCT DATASHEET

# LED Superstar PAR 16 80 36° DIM 6.1W 940 GU10

LED SUPERSTAR PAR16 | Dimmable LED reflector lamps PAR16 with retrofit pin base



### Areas of application

- Shops
- Hospitality
- Museums, art galleries
- Residential interiors
- As a downlight for marking walkways, doors, stairs, etc.
- Spotlighting for accents
- Display cabinets and shop windows
- Spotlighting heat-sensitive objects such as food, plants, etc.
- Outdoor use in suitable outdoor luminaires only

### Product benefits

- Lower energy consumption than incandescent or halogen lamps
- High color consistency thanks to narrow binning
- Easy replacement of halogen lamps due to compact full glass design and single optic
- Ideal for economical spotlighting

### Product features

- LED alternative to conventional high voltage lamps
- Dimmable (with many common dimmers, see also [www.ledvance.com/dim](http://www.ledvance.com/dim))
- Mercury-free lamps



## TECHNICAL DATA

## Electrical data

|                                        |             |
|----------------------------------------|-------------|
| Nominal wattage                        | 6.1 W       |
| Construction wattage                   | 6.10 W      |
| Nominal voltage                        | 220...240 V |
| Operating mode                         | AC Mains    |
| Claimed equiv. conventional lamp power | 80 W        |
| Nominal current                        | 35 mA       |
| Type of current                        | AC          |
| Inrush current                         | 1.18 A      |
| Operating frequency                    | 50/60 Hz    |
| Mains frequency                        | 50/60 Hz    |
| Max. lamp number on MCB B10 A          | 139         |
| Max. lamp number on MCB B16 A          | 222         |
| Total harmonic distortion              | 150 %       |
| Power factor $\lambda$                 | > 0.70      |

## Photometrical data

|                                         |            |
|-----------------------------------------|------------|
| Luminous intensity                      | 1250 cd    |
| Luminous flux                           | 575 lm     |
| Nominal useful luminous flux 90°        | 575 lm     |
| Luminous efficacy                       | 94 lm/W    |
| Lumen main.fact.at end of nom.life time | 0.96       |
| Light color (designation)               | Cool White |
| Color temperature                       | 4000 K     |
| Color rendering index Ra                | 90         |
| Light color                             | 940        |
| Standard deviation of color matching    | ≤5 sdcn    |
| Rated peak intensity                    | 1250 cd    |
| Flickering metric (Pst LM)              | 1.0        |
| Stroboscope effect metric (SVM)         | 0.4        |



Everlight 67-23ST HKE 4000K

Light technical data

|                     |          |
|---------------------|----------|
| Beam angle          | 36 °     |
| 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   | 42.00 g  |

Temperatures & operating conditions

|                                      |              |
|--------------------------------------|--------------|
| Ambient temperature range            | -20...+40 °C |
| Maximum temperature at tc test point | 85 °C        |

Lifespan

|                                              |         |
|----------------------------------------------|---------|
| Lifespan L70/B50 at 25 °C                    | 25000 h |
| Number of switching cycles                   | 100000  |
| Lumen maintenance at end of service lifetime | 0.96    |

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 | Yes <sup>1)</sup> |
|----------|-------------------|

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

### Certificates & Standards

|                                              |                 |
|----------------------------------------------|-----------------|
| Energy efficiency class                      | E <sup>1)</sup> |
| Energy consumption                           | 7.00 kWh/1000h  |
| Type of protection                           | IP20            |
| Standards                                    | CE / EAC / UKCA |
| 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 | LSSPR16D8036 6, |
|-----------------|-----------------|

### 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 |
| Standby power                                       | 0 W          |
| Claim of equivalent power                           | Yes          |

|                                                      |                 |
|------------------------------------------------------|-----------------|
| Length                                               | 52.00 mm        |
| Height                                               | 50.00 mm        |
| Width                                                | 50.00 mm        |
| Chromaticity coordinate x                            | 0.382           |
| Chromaticity coordinate y                            | 0.373           |
| R9 Colour rendering index                            | 1               |
| Beam angle correspondence                            | NARROW_CONE_90  |
| Survival factor                                      | 0.9             |
| Displacement factor                                  | > 0.7           |
| LED light source replaces a fluorescent light source | No              |
| EPREL ID                                             | 2176435,2499550 |
| Model number                                         | AC70562,AC91822 |

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       |
|------------------------------------------------------------------------------------|---------------------------------|---------------------|
|  | Declarations of conformity      | LED lamp PAR16 GU10 |
|  | Declarations of conformity UKCA | LED lamp PAR16 GU10 |

| Photometric and lighting design files                                               |                             | Document name               |
|-------------------------------------------------------------------------------------|-----------------------------|-----------------------------|
|  | Spectral power distribution | Everlight 67-23ST HKE 4000K |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume   |
|---------------|------------------------------|--------------------------------------|--------------|----------|
| 4099854456954 | Folding box<br>1             | 49 mm x 49 mm x 95 mm                | 52.00 g      | 0.23 dm³ |
| 4099854456961 | Shipping box<br>6            | 168 mm x 111 mm x 71 mm              | 384.00 g     | 1.32 dm³ |

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](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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