# PRODUCT DATASHEET
# LED PAR16 35 36° DIM P 2.4W 940 GU10

LED PAR16 DIM P | Dimmable LED reflector lamps PAR16 with retrofit pin base




PERFOR-
MANCE
CLASS

## 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
- Instant 100 % light, no warm-up time
- Lower energy consumption than incandescent or halogen lamps

## Product features

- LED alternative to high voltage halogen lamps
- Dimmable
- Lamp made of glass





# TECHNICAL DATA

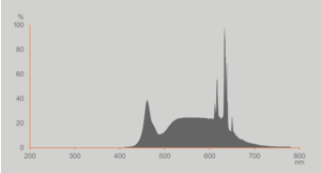
## Electrical data

| | |
|---|---|
| Nominal wattage | 2.4 W |
| Construction wattage | 2.40 W |
| Nominal voltage | 220…240 V |
| Operating mode | AC Mains |
| Claimed equiv. conventional lamp power | 35 W |
| Nominal current | 16 mA |
| Type of current | AC |
| Inrush current | 4.56 A |
| Operating frequency | 50/60 Hz |
| Mains frequency | 50/60 Hz |
| Max. lamp number on MCB B10 A | 131 |
| Max. lamp number on MCB B16 A | 164 |
| Maximum total harmonic distortion | 150 % |
| Power factor λ | > 0.50 |

## Photometrical data

| | |
|---|---|
| Luminous intensity | 500 cd |
| Luminous flux | 230 lm |
| Nominal useful luminous flux 90° | 230 lm |
| Luminous efficacy | 95 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 sdcm |
| Rated peak intensity | 500 cd |
| Flickering metric (Pst LM) | 1.0 |
| Stroboscope effect metric (SVM) | 0.4 |


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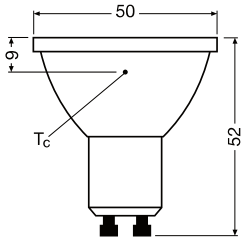


Spectral graph 4000K

## 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 | 38.00 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 |


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## 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 [1)] |

1) Check dimmer compatibility at ledvance.com/compatibility

## Certificates & Standards

| | |
|---|---|
| Energy efficiency class | E [1)] |
| Energy consumption | 3.00 kWh/1000h |
| Type of protection | IP20 |
| Standards | CE / EAC / UKCA |
| 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 | LED PAR163536 D |

## 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 |


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| | |
|---|---|
| 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 | 0.3792 |
| Chromaticity coordinate y | 0.3697 |
| 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 | 2176415,2499553 |
| Model number | AC70581,AC91843 |

## 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 |
|---|---|---|
| PDF | Declarations of conformity | LED lamp PAR16 GU10 |
| PDF | Declarations of conformity | LED PAR16 MR16 R50 |
| PDF | Declarations of conformity UKCA | LED lamp PAR16 GU10 |
| PDF | Declarations of conformity UKCA | LED PAR16 MR16 R50 |

| | Photometric and lighting design files | Document name |
|---|---|---|
| IES | IES file (IES) | LED PAR163536 DIM 2.4W 940 GU10 P LEDV |
| LDT | LDT file (Eulumdat) | LED PAR163536 DIM 2.4W 940 GU10 P LEDV |


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| | Photometric and lighting design files | Document name |
|---|---|---|
| | UGR file (UGR table) | LED PAR163536 DIM 2.4W 940 GU10 P LEDV |
| | Light distribution curve type polar | LED PAR163536 DIM 2.4W 940 GU10 P LEDV |
| | Spectral power distribution | Spectral graph 4000K |

## LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---|---|---|---|---|
| 4099854456831 | Folding box<br>1 | 49 mm x 49 mm x 62 mm | 45.00 g | 0.15 $dm^3$ |
| 4099854456848 | Shipping box<br>10 | 255 mm x 107 mm x 72 mm | 500.00 g | 1.96 $dm^3$ |

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.

## References / Links

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

## DISCLAIMER

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