

## PRODUCT DATASHEET

### PPRO MR16 35 36 ° 6.3 W/3000 K GU5.3 DIM

PARATHOM® PRO MR16 | Dimmable low-voltage LED reflector lamps MR16 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)
- Compatible with many common conventional and electronic control gears (see also compatibility list)
- Instant 100 % light, no warm-up time
- Lower energy consumption than incandescent or halogen lamps



## Product features

- LED alternative to low voltage halogen lamps
- High color consistency:  $\leq 3$  SDCM
- Dimmable
- Base: GU5.3
- Lamp made of glass
- Excellent color rendering CRI > 97
- Lifetime up to 40,000 h

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

|                                        |            |
|----------------------------------------|------------|
| Nominal wattage                        | 6.3 W      |
| Construction wattage                   | 6.30 W     |
| Nominal voltage                        | 12 V       |
| Claimed equiv. conventional lamp power | 35 W       |
| Nominal current                        | 950 mA     |
| Type of current                        | AC/DC      |
| Inrush current                         | 9.9 A      |
| Operating frequency                    | 50...60 Hz |
| Mains frequency                        | 50...60 Hz |
| Power factor $\lambda$                 | > 0.50     |

**Photometrical data**

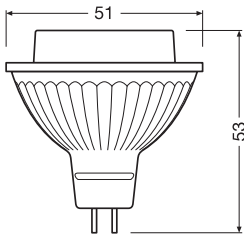
|                                         |            |
|-----------------------------------------|------------|
| Luminous intensity                      | 900 cd     |
| Luminous flux                           | 350 lm     |
| Nominal useful luminous flux 90°        | 350 lm     |
| Luminous efficacy                       | 55 lm/W    |
| Lumen main.fact.at end of nom.life time | 0.70       |
| Light color (designation)               | Warm White |
| Color temperature                       | 3000 K     |
| Color rendering index Ra                | 97         |
| Light color                             | 930        |
| Standard deviation of color matching    | ≤3 sdcn    |
| Rated peak intensity                    | 900 cd     |
| Rated LLMF at 6,000 h                   | 0.80       |

OS GW P9LT31.CM 10 C 3000K

**Light technical data**

|                     |          |
|---------------------|----------|
| Beam angle          | 36 °     |
| Warm-up time (60 %) | < 0.50 s |
| Starting time       | < 0.5 s  |

Dimensions & Weight



|                  |          |
|------------------|----------|
| Overall length   | 53.00 mm |
| Diameter         | 51.00 mm |
| Maximum diameter | 51 mm    |
| Product weight   | 65.00 g  |

Temperatures & operating conditions

|                                      |              |
|--------------------------------------|--------------|
| Ambient temperature range            | -20...+40 °C |
| Maximum temperature at tc test point | 80 °C        |

Lifespan

|                                              |         |
|----------------------------------------------|---------|
| Number of switching cycles                   | 1000000 |
| 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) | GU5.3                                                                                                                                                                                                                                                                                                                                        |
| 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 |
|----------|-----|

Certificates & Standards

|                         |                 |
|-------------------------|-----------------|
| Energy efficiency class | A <sup>1)</sup> |
|-------------------------|-----------------|

|                                              |                |
|----------------------------------------------|----------------|
| Energy consumption                           | 7.00 kWh/1000h |
| Type of protection                           | IP20           |
| Standards                                    | CE / EAC       |
| Photobiological safety group acc. to EN62778 | RG0            |

1) Energy efficiency class (EEC) on a scale of A++ (highest efficiency) to E (lowest efficiency)

Country-specific categorizations

|                 |                 |
|-----------------|-----------------|
| Order reference | LPMR16D3536 6,3 |
|-----------------|-----------------|

Energy labelling regulation data acc EU 2019/2015

|                                                     |          |
|-----------------------------------------------------|----------|
| Light source cap-type (or other electric interface) | GU5.3    |
| Length                                              | 53.00 mm |
| Height                                              | 51.00 mm |
| Width                                               | 51.00 mm |

DOWNLOAD DATA

| Photometric and lighting design files                                               |                                     | Document name                            |
|-------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------|
|  | IES file (IES)                      | AC07565_MR16356,3W12VGU5,3               |
|  | LDT file (Eulumdat)                 | AC07565_MR16356,3W12VGU5,3               |
|  | Light distribution curve type cone  | LPMR16D3536 6,3W 930 12V GU5.3 FS1 OSRAM |
|  | Light distribution curve type polar | LPMR16D3536 6,3W 930 12V GU5.3 FS1 OSRAM |
|  | Spectral power distribution         | OS GW P9LT31.CM 10 C 3000K               |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume   |
|---------------|------------------------------|--------------------------------------|--------------|----------|
| 4058075094970 | Folding box<br>1             | 49 mm x 49 mm x 62 mm                | 72.00 g      | 0.15 dm³ |
| 4058075094987 | Shipping box<br>10           | 255 mm x 107 mm x 72 mm              | 813.00 g     | 1.96 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.

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)
  - Further information see [www.ledvance.com/low-voltage-ledlamps](http://www.ledvance.com/low-voltage-ledlamps)
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