

# Product family datasheet

## PARATHOM MR16

Low-voltage LED reflector lamps MR16 with retrofit pin base



- 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 applications only in suitable luminaires

- Long lifetime of up to 15,000 h
- Low energy consumption
- Easy replacement of halogen lamps due to compact full glass design and single optic
- Instant 100 % light, no warm-up time
- Ideal for economical spotlighting

### Product features

- Professional LED alternative to low voltage halogen lamps
- Made in Germany (versions up to 35 W)
- Mercury-free lamps



## Product family datasheet

---

### Product benefits

- Long lifetime of up to 15,000 h
- Low energy consumption
- Easy replacement of halogen lamps due to compact full glass design and single optic
- Instant 100 % light, no warm-up time
- Ideal for economical spotlighting

---

### 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 applications only in suitable luminaires

---

### Equipment / Accessories

- Equipped with high-power LEDs

## Product family datasheet

### Technical data

Product description	Electrical data		Photometrical data				Light technical data
	Nominal wattage	Nominal voltage	Luminous intensity	Nominal luminous flux	Rated color temperature	Light color (designation)	Beam angle
P MR16 20 36° 2.9 W/827 GU5.3 <sup>1)</sup>	2.90 W	12 V	600 cd	230 lm	2700 K	Warm White	36 °
P MR16 20 36° 2.9 W/840 GU5.3 <sup>1)</sup>	2.90 W	12 V	600 cd	230 lm	4000 K	Cool White	36 °
P MR16 35 36° 4.6 W/830 GU5.3 <sup>1)</sup>	4.60 W	12 V		350 lm	3000 K	Warm White	36 °
P MR16 35 36° 4.6 W/840 GU5.3 <sup>1)</sup>	4.60 W	12 V	950 cd	350 lm	4000 K	Cool White	36 °
P MR16 50 36° 7.2 W/830 GU5.3 <sup>1)</sup>	7.20 W	12 V	1430 cd	621 lm	3000 K	Warm White	36 °
P MR16 50 36° 7.2 W/840 GU5.3 <sup>1)</sup>	7.20 W	12 V	1430 cd	621 lm	4000 K	Cool White	36 °
P MR16 2.9 W/830 GU5.3	2.90 W	12 V	600 cd	230 lm	3000 K	Warm White	36 °

Product description	Nominal beam angle	Rated beam angle (half peak value)	Starting time	Dimensions & weight	Lifespan		
				Overall length	Nominal lamp life time	Rated lamp life time	Number of switching cycles
P MR16 20 36° 2.9 W/827 GU5.3 <sup>1)</sup>	36 °	36.00 °	< 0.5 s	46.0 mm	15000 h	15000 h	100000
P MR16 20 36° 2.9 W/840 GU5.3 <sup>1)</sup>	36 °	36.00 °	< 0.5 s	46.0 mm	15000 h	15000 h	100000
P MR16 35 36° 4.6 W/830 GU5.3 <sup>1)</sup>	36 °	36.00 °	< 0.5 s	46.0 mm	15000 h	15000 h	100000
P MR16 35 36° 4.6 W/840 GU5.3 <sup>1)</sup>	36 °	36.00 °	< 0.5 s	46.0 mm	15000 h	15000 h	100000
P MR16 50 36° 7.2 W/830 GU5.3 <sup>1)</sup>	36 °	36.00 °	< 0.5 s	53.0 mm	15000 h	15000 h	100000
P MR16 50 36° 7.2 W/840 GU5.3 <sup>1)</sup>	36 °	36.00 °	< 0.5 s	53.0 mm	15000 h	15000 h	100000
P MR16 2.9 W/830 GU5.3	36 °	36.00 °	< 0.5 s	46.0 mm	15000 h	15000 h	100000

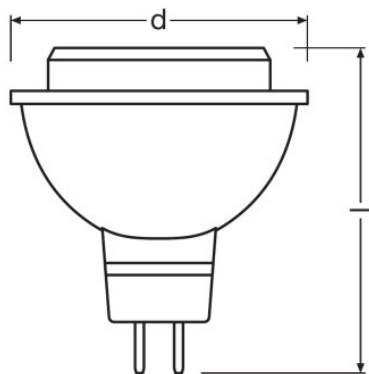
Product description	Additional product data	Capabilities	Certificates & standards		Country specific categorizations	
	Base (standard designation)	Dimmable	Energy consumption	Energy efficiency class	ILCOS	Order reference
P MR16 20 36° 2.9 W/827 GU5.3 <sup>1)</sup>	GU5.3	No	3 kWh/1000h	A+	DRR-2,9/827-12-GU5,3-50/36	LEDPMR162036 2,

## Product family datasheet

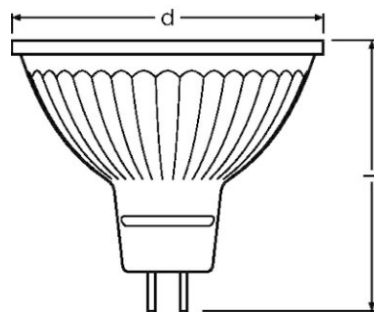
	Additional product data	Capabilities	Certificates & standards		Country specific categorizations	
Product description	Base (standard designation)	Dimmable	Energy consumption	Energy efficiency class	ILCOS	Order reference
P MR16 20 36° 2.9 W/840 GU5.3 <sup>1)</sup>	GU5.3	No	3 kWh/1000h	A+	DRR-2,9/840-12-GU5,3-50/36	LEDPMR162036 2,
P MR16 35 36° 4.6 W/830 GU5.3 <sup>1)</sup>	GU5.3	No	5 kWh/1000h	A+		LEDPMR163536 4,
P MR16 35 36° 4.6 W/840 GU5.3 <sup>1)</sup>	GU5.3	No	5 kWh/1000h	A+	DRR-4,6/840-12-GU5,3-50/36	LEDPMR163536 4,
P MR16 50 36° 7.2 W/830 GU5.3 <sup>1)</sup>	GU5.3	No	8 kWh/1000h	A+	DRR-7,2/830-12-GU5,3-50/36	LPMR165036 7,2W
P MR16 50 36° 7.2 W/840 GU5.3 <sup>1)</sup>	GU5.3	No	8 kWh/1000h	A+	DRR-7,2/840-12-GU5,3-50/36	LPMR165036 7,2W
P MR16 2.9 W/830 GU5.3	GU5.3	No	3 kWh/1000h	A+		LEDPMR162036 2,

<sup>1)</sup> 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

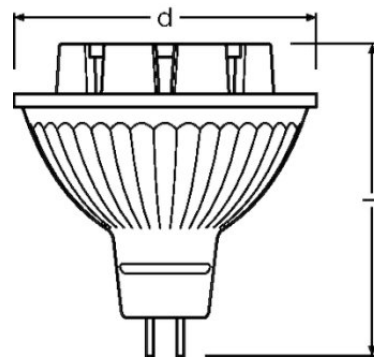
## Product family datasheet



P MR16 20 36° 2.9 W/827 GU5.3, P  
MR16 20 36° 2.9 W/840 GU5.3



P MR16 35 36° 4.6 W/830 GU5.3, P  
MR16 35 36° 4.6 W/840 GU5.3, P  
MR16 2.9 W/830 GU5.3



P MR16 50 36° 7.2 W/830 GU5.3, P  
MR16 50 36° 7.2 W/840 GU5.3

### Equipment / Accessories

- Equipped with high-power LEDs

### Application advice

For more detailed application information and graphics please see product datasheet.

### Logistical Data

## Product family datasheet

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899957749	P MR16 20 36° 2.9 W/827 GU5.3	Shipping carton box 10	257 mm x 110 mm x 70 mm	1.98 dm <sup>3</sup>	498.40 g
4052899957732	P MR16 20 36° 2.9 W/840 GU5.3	Shipping carton box 10	257 mm x 110 mm x 70 mm	1.98 dm <sup>3</sup>	498.40 g
4058075815513	P MR16 35 36° 4.6 W/830 GU5.3	Shipping carton box 10	257 mm x 110 mm x 70 mm	1.98 dm <sup>3</sup>	498.40 g
4052899957787	P MR16 35 36° 4.6 W/840 GU5.3	Shipping carton box 10	257 mm x 110 mm x 70 mm	1.98 dm <sup>3</sup>	498.40 g
4058075815575	P MR16 50 36° 7.2 W/830 GU5.3	Shipping carton box 10	255 mm x 107 mm x 72 mm	1.96 dm <sup>3</sup>	501.40 g
4052899957824	P MR16 50 36° 7.2 W/840 GU5.3	Shipping carton box 10	255 mm x 107 mm x 72 mm	1.96 dm <sup>3</sup>	768.00 g
4058075815391	P MR16 2.9 W/830 GU5.3	Shipping carton box 10	257 mm x 110 mm x 70 mm	1.98 dm <sup>3</sup>	495.00 g

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 further products and actual information concerning LED lamps see

- ▶ [www.osram.com/ledlamps](http://www.osram.com/ledlamps)

For Guarantee see

- ▶ [www.osram.com/guarantee](http://www.osram.com/guarantee)

Further information see

- ▶ [www.osram.com/low-voltage-ledlamps](http://www.osram.com/low-voltage-ledlamps)

---

### Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

OSRAM is distribution partner  
of LEDVANCE of LAMPS

**OSRAM**

OSRAM GmbH  
Marcel-Breuer-Strasse 6  
80807 Munich, Germany