

## PRODUCT DATASHEET

### P AR111 50 40 ° 10.8 W/2700 K G53

PARATHOM® PRO AR111 | Low-voltage LED reflector lamps AR111 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

#### Product features

- LED alternative to low voltage halogen lamps
- High color consistency:  $\leq 4$  SDCM



- Dimmable
- Base: G53
- Excellent color rendering ( $R_a$ : 97)
- Lifetime: up to 40,000 h

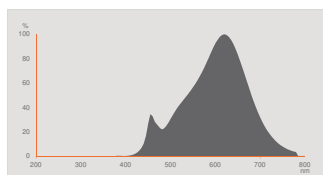
TECHNICAL DATA

Electrical data

Nominal wattage	10.8 W
Construction wattage	10.80 W
Nominal voltage	12 V
Claimed equiv. conventional lamp power	50 W
Nominal current	1.35 A
Type of current	AC
Inrush current	10 A
Operating frequency	50...60 Hz
Mains frequency	50...60 Hz
Max. lamp no. on circuit break. 10 A (B)	45
Max. lamp no. on circuit break. 16 A (B)	72
Power factor $\lambda$	> 0.50

Photometrical data

Luminous intensity	1500 cd
Luminous flux	680 lm
Nominal useful luminous flux 90°	680 lm
Luminous efficacy	62 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	≤6 sdc <sub>m</sub>
Rated peak intensity	1500 cd
Rated LLMF at 6,000 h	0.80



**Light technical data**

Beam angle	40 °
Warm-up time (60 %)	< 0.50 s
Starting time	< 0.5 s

**Dimensions & Weight**

Overall length	55.00 mm
Diameter	110.70 mm
Maximum diameter	111 mm
Product weight	215.00 g

**Temperatures & operating conditions**

Ambient temperature range	-20...+40 °C
Maximum temperature at tc test point	83 °C

**Lifespan**

Number of switching cycles	100000
Lumen maintenance at end of service lifetime	0.70
Rated lamp survival factor at 6,000 h	0.80

**Additional product data**

Base (standard designation)	G53
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
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**Certificates & Standards**

Energy efficiency class	A <sup>1)</sup>
Energy consumption	10.80 kWh/1000h
Type of protection	IP20
Standards	CE / CB / EAC
Photobiological safety group acc. to EN62778	RG1

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







### Country-specific categorizations

Order reference	LPAR111 5040 10
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### Energy labelling regulation data acc EU 2019/2015

Light source cap-type (or other electric interface)	G53
Length	55.00 mm
Height	110.70 mm
Width	110.70 mm

### DOWNLOAD DATA

Photometric and lighting design files	
	IES file (IES)
	LDT file (Eulumdat)
	UGR file (UGR table)
	LDC typ cone
	LDC typ polar
	Spectral power distribution

### LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075104990	Folding box 1	86 mm x 86 mm x 112 mm	246.00 g	0.83 dm <sup>3</sup>
4058075105003	Shipping box 6	275 mm x 185 mm x 130 mm	1605.00 g	6.61 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 Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)
- For further products and actual information concerning LED lamps see [www.ledvance.com/ledlamps](http://www.ledvance.com/ledlamps)
- Further information see [www.ledvance.com/low-voltage-ledlamps](http://www.ledvance.com/low-voltage-ledlamps)

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