

# PRODUCT DATASHEET

## LED AR111 75 24° DIM S 11.7W 940 G53

LED AR111 DIM S | 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
- Lower energy consumption than incandescent or halogen lamps

### 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

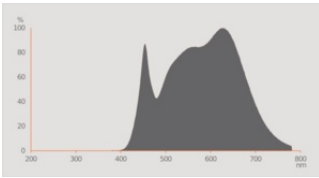
### Electrical data

Nominal wattage	11.7 W
Construction wattage	11.70 W
Nominal voltage	12 V
Operating mode	ECG, CCG <sup>1)</sup>
Claimed equiv. conventional lamp power	75 W
Nominal current	1 A
Type of current	AC/DC
Inrush current	23.5 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	25
Max. lamp number on MCB B16 A	32
Total harmonic distortion	< 120 %
Power factor $\lambda$	0.50

1) Check ECG compatibility at [ledvance.com/compatibility](http://ledvance.com/compatibility)

### Photometrical data

Luminous intensity	2800 cd
Luminous flux	800 lm
Nominal useful luminous flux 90°	800 lm
Luminous efficacy	68 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Color rendering index Ra	97
Light color	940
Standard deviation of color matching	≤4 sdcn
Rated peak intensity	2800 cd
Rated LLMF at 6,000 h	0.80
Flickering metric (Pst LM)	1,0
Stroboscope effect metric (SVM)	0.4



Everlight 67-23ST RKE 4000K

### Light technical data

Beam angle	24 °
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	110.00 g

### Temperatures & operating conditions

Ambient temperature range	-20...+40 °C
Maximum temperature at tc test point	80.8 °C

### Lifespan

Lifespan L70/B50 at 25 °C	40000 h
Number of switching cycles	100000
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)	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
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### Capabilities

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

### Certificates & Standards

Energy efficiency class	G <sup>1)</sup>
Energy consumption	12.00 kWh/1000h
Type of protection	IP20
Standards	CE / UKCA / EAC
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	LED AR1117524 D
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### LOGISTICAL DATA

Temperature range at storage	-20...+80 °C
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### Energy labelling regulation data acc EU 2019/2015


Lighting technology used	LED
Non-directional or directional	DLS
Mains or non-mains	NMLS
Light source cap-type (or other electric interface)	G53
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
Networked standby power for CLS	0 W
Claim of equivalent power	Yes





Length	55.00 mm
Height	110.70 mm
Width	110.70 mm
Chromaticity coordinate x	0.382
Chromaticity coordinate y	0.380
R9 Colour rendering index	1
Beam angle correspondence	NARROW_CONE_90
Survival factor	0.9
Displacement factor	/
LED light source replaces a fluorescent light source	No
EPREL ID	1368300
Model number	AC45652,AC45652

### 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	AR111 M1 G53

Photometric and lighting design files	Document name
 IES file (IES)	PPAR111 7524 11.5W 940 12V G53
 LDT file (Eulumdat)	PPAR111 7524 11.5W 940 12V G53
 Light distribution curve type polar	PPAR111 7524 11.5W 940 12V G53
 Spectral power distribution	Everlight 67-23ST RKE 4000K

### LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854049064	Folding box 1	113 mm x 66 mm x 113 mm	141.00 g	0.84 dm <sup>3</sup>

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854049071	Shipping box 6	238 mm x 208 mm x 123 mm	974.00 g	6.09 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.

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

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