

PRODUCT DATASHEET

AR111 50 40° S 7.4W 930 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
- 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: ≤ 4 SDCM
- Dimmable
- Base: G53
- Excellent color rendering ($R_a: 97$)



- Lifetime: up to 40,000 h

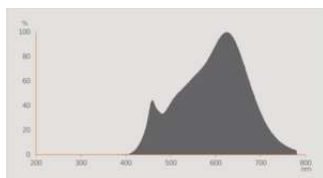
TECHNICAL DATA

Electrical data

Nominal wattage	7,4 W
Construction wattage	7.40 W
Nominal voltage	12 V
Claimed equiv. conventional lamp power	50 W
Nominal current	650 mA
Type of current	AC/DC
Inrush current	20 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp no. on circuit break. 10 A (B)	30
Max. lamp no. on circuit break. 16 A (B)	37
Total harmonic distortion	< 50 %
Power factor λ	0,50

Photometrical data

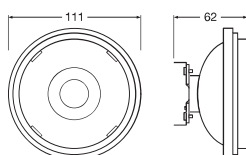
Luminous intensity	1000 cd
Luminous flux	450 lm
Nominal useful luminous flux 90°	450 lm
Luminous efficacy	60 lm/W
Lumen main.fact.at end of nom.li	0.70
Light color (designation)	Warm White
Color temperature	3000 K
Color rendering index Ra	97
Light color	930
Standard deviation of color matching	≤ 4 sdcn
Rated peak intensity	1000 cd
Rated LLMF at 6,000 h	0.80
Valoare pãlpãire Pst LM	1,0
Valoare efect stroboscopic SVM	0,4



Light technical data

Beam angle	40 °
Warm-up time (60 %)	< 0.50 s
Starting time	< 0.5 s
Rated beam angle (half peak valu	40.00 °

Dimensions & Weight



Construction length [PICOS]	55.00 mm
Diameter	110,70 mm
Maximum diameter	111 mm
Product weight	102,00 g

Temperatures & operating conditions

Ambient temperature range	-20...+40 °C
Maximum temperature at tc test point	69.7 °C

Lifespan

Nominal life time	40000 h
Number of switching cycles	100000
Lumen maintenance at end of serv	0.70
Rated lamp survival factor at 6,	≥ 0.90

Additional product data

Base (standard designation)	G53
Lamp 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	G 1)
Energy consumption	8.00 kWh/1000h
Type of protection	IP20
Standards	CE / UKCA / EAC
Photobio. safety group a EN62778	RG1

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

Country-specific categorizations

Order reference	LED AR111 50 40
-----------------	-----------------

LOGISTICAL DATA

Temperature range at storage	-20...+80 °C
------------------------------	--------------

Date privind reglementarea etichetării energetice (EU 2019/2015)

Tehnologia de iluminat utilizată	LED
Nedirecțională sau direcțională	DLS
Cu alimentare de la rețea sau nealimentată de la rețea	NMLS
Tipul de soclu al sursei de lumină (sau altă interfață electrică)	G53
Sursă de lumină conectată (SLC)	No
Sursă de lumină cu posibilitatea de reglare a culorilor	No
Anvelopă	No
Surse de lumină cu luminanță mare	No
Protecție antireflexie	No
Tip de temperatură de culoare corelată	SINGLE_VALUE
Puterea în modul standby	0 W

Puterea în modul standby pentru SLC	0 W
Declarație de putere echivalentă	Yes
Length	55.00 mm
Height (incl. cylin. luminaires) [calc.]	110.70 mm
Width (incl. round luminaires) [Calc.]	110.70 mm
Coordonata X a diagramei cromatica a culorilor	0,4339
Coordonata Y a diagramei cromatica a culorilor	0.4033
Valoarea indicelui de redare a culorilor R9	1
Corespondență unghi fascicul	NARROW_CONE_90
Factorul de supraviețuire	0.9
Factorul de defazaj	/
Sursa de lumină LED care înlocuiește o lumină fluorescentă	No
EPREL ID	1368297
Model number	AC45649

DOWNLOAD DATA

Documents and certificates



Declarations Of Conformity CE

Photometric and lighting design files



Spectral power distribution

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854048845	Folding box 1	113 mm x 66 mm x 113 mm	133.00 g	0.84 dm ³
4099854048852	Shipping box 6	238 mm x 208 mm x 123 mm	926.00 g	6.09 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 further products and actual information concerning LED lamps see www.ledvance.com/ledlamps

– Further information see www.ledvance.com/low-voltage-ledlamps

DISCLAIMER

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