LED Star LED-RetroFit AR111

RL-AR111 75 DIM 930/WFL

Radium

Product Datasheet Date: 31.10.2022

G	11,7	800	3000K	40 000h	Dimmable
EL G→A	W	lm		L70	

5 YEARS GUARANTEE

General Data

Article No.	43520571
Code	RL-AR111 75 DIM 930/WFL
Product EAN	4008597205712
Customs tariff no.	85395200
Box quantitiy (pcs.)	6
EAN Box	4008597605710
Gross weight of box in kg	1.184
Length of box in m	0.238
Width of box in m	0.208
Height of box in m	0.123
ETIM class	EC001959
ETIM class name	LED-lamp/Multi-LED
Weight	145 g
Product status	Active

Electric Parameters

Rated wattage	11.7 W
Nominal power	11,7 W

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Electric Parameters

Weighted energy consumption in 1,000 hours	12 kWh
Power factor	> 0.5
Nominal voltage	11.5-12 V
Mains Voltage	220 - 240 V
Voltage type	AC
Nominal current	1000-1000 mA
Nominal current (mA)	1000 mA
Inrush current	18 A
max. no. of Lps with 10A (B) circuit breaker with ballast (ECG, CCG no capacitor) / at mains	25
max. no. of Lps with 16A (B) circuit breaker with ballast (ECG, CCG no capacitor) / at mains	32
dimmable	Yes

Light Application Parameters

Luminous flux	800 lm
Rated lamp luminous flux	800 lm
Luminous flux nominal	800 lm
Luminous intensity	1600 cd
Beam angle	40 °
Luminous efficiency	68 lm/W
Radium light colour	warmwhite
Color temperature	3000 K
Color coordinate X	0.434
Color coordinate Y	0.403
Color rendering index Ra	≥ 90
Color rendering index Ra nominal	97
Color Stability	≤ 4 sdcm

Service Life

Average nominal lifespan	40000 h
Tc Temperature max.	70 °C
Mean service life	40000 h
No. switching cycles	100000
Lamp survival factor at 6000h	≥ 0.90
Early failure rate at 1000h	≤ 5.0 %
Guarantee up to	5 years

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Specification

Energy Label A to G	G
Diameter	111 mm
Length max.	55 mm
Length	55 mm
Burning position	beliebig
Mercury content	0.0 mg
Photobiological safety according to EN 62471	RG1
Lamp shape	Reflector
Base	G53
Colour	White

Notes on Operation

Degree of protection (IP)	IP20
Burning position	beliebig
Ambient temperatures	-20 … +40 °C
Tc Temperature max.	70 °C

Information especially for EPREL

Lighting technology	LED
Mains/Non mains connectable	NMLS
Directional or non-directional light	DLS
Color tunable light source	No
Type of color temperature	SINGLE_VALUE
Color stability MacAdams EPREL	4
Life factor EPREL	0.90
Lumen maintenance EPREL	0.70

Notes

AR111-LED for exchange with 12V halogen lamps, warm white light, 40°, dimmable, base G53. LED light does not contain UV or IR radiation.

Please, refer to www.radium.de/recycling for notes on disposal of burned-out lamps as well as lamp breakage.
The "lifespan L70" described for LED lamps indicates the number of hours when the luminous flux has decreased to 70% of its initial value.
The optinal field 'info about service life' contains the frame conditions according to standards based on which the specific service life has been determined. So, for example, "12B50, 50Hz" means that the mean service life (B50) has been determined with a 12h switching cycle at mains (frequency 50Hz), "3B50, HF" is based on a 3h switching cycle at electronic control gear (high frequency).

Spectrum
As daylight is a mixture of direct sunlight and light from the sky, the spectral distribution changes all the time due to the time of the day and the weather. The standard illuminant D65 corresponds to daylight with colour temperature of about 6500K.
The colour of coloured LEDs depends on the chemical elements within the light generating chip. The coloured light is generated directly and does not need filtering.
White LEDs are either RGB (red + green + blue chip in one LED = light colour white) or blue LED-chips with yellow/orange phosphor in the resin.
Visible region from 380 to 780 nm; height of graph corresponding with relative spectral emission (400mW/klm)per 10nm.

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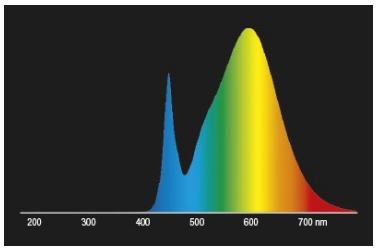
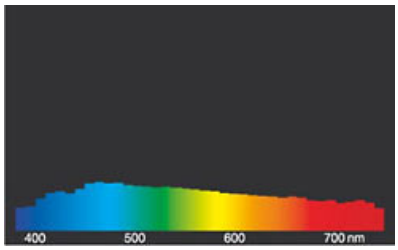


LED Retrofit reflector lamps 3000K



daylight(D 65)

Special features

General notes

For LED replacement of halogen and incandescent lamps, we recommend direct replacement (1: 1) at the respective burning position. For new systems, the number of lamps in the circuit operated at control gear such as transformers or dimmers can be obtained from corresponding compatibility lists (if available). If there is no specification for the type of device or lamp required, for safety reasons, the replacement power shall be assumed as taht of the original halogen type (eg "RL-MR16 35" -> 35W, independent of the real power consumption).

The technical design data in accordance with DIN and IEC. The producer does not take any responsibility for damage to persons or property in case of unsuitable operation or handling of the product. Operating data and dimensions are valid within the usual tolerances. Related lamp types (different bases, mains voltages) may be available on request. Sale and delivery are effected in accordance with the Radium Terms of Delivery and Payment valid on the day of conclusion of contract. Packing units offer economical advantages to the purchase and logistic department. Please match your quantity volume accordingly. For orders of a minimum quantity (clefts) with a lamp model the amount lower than the volume of each packaging unit, we will invoice 10 % additional charge per lamp type. Technical changes and terms of delivery are reserved. Manipulation of any kind to packaging or product is not permissible as this will violate Radium brand rights. Furthermore, technical properties of the product can change to its disadvantage or even destruction. Therefore, Radium cannot be responsible for consequential damages.
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Safety instructions

To ensure full light efficiency and product life, the permissible temperature ranges must be observed and dry environment ensured. When operated with existing control gear, their compatibility with the lamp must be checked.

All technical data without guarantee.