

LED Essence Classic A, frosted

RL-A100 10W/230/827/F/E27

Radium

Product Datasheet Date: 03.05.2026



A++



10



1521



2700K



15 000h



General Data

Article No.	43819381
Code	RL-A100 827/F/E27
Product EAN	4008597193811
Box quantity (pcs.)	10
EAN Box	4008597493812
Gross weight of box in kg	0.583
Length of box in m	0.325
Width of box in m	0.136
Height of box in m	0.126
Product weight	32 g
Product status	● Inactive

Electric Parameters

Wattage	10.0 W
Nominal power	10.0 W
Weighted energy consumption in 1000 hours	10 kWh
Lamp power	10.0-10.0 W
Power factor	> 0.50

Electric Parameters

Nominal voltage	220-240 V
Mains Voltage	220 - 240 V
Voltage type	AC
Nominal current	90-90 mA
Nominal current (mA)	78 mA
max. no. of lamps at 10A-B10 automatic fuse	45
max. no. of lamps at 16A-B16 automatic fuse	72
dimmbable	No

Light Application Parameters

Luminous flux	1521 lm
Rated lamp luminous flux	1521 lm
Luminous flux in 90°-sector	1521 lm lm
Luminous flux in 120°-sector	1521 lm lm
Beam angle	300 °
Efficacy	152 lm/W
Total mains efficacy	152 lm/W
Color temperature	2700 K
Color rendering index	≥ 80
Color rendering index nominal	80-89
Color Stability	≤ 6 sdcms

Service Life

Average life	15000 h
Mean service life	15000 h
No. switching cycles	[100000]
Lamp survival factor at 6000h	≥ 0.90
Early failure rate at 1000h	≤ 5.0 %
Guarantee	4 years

Specification

Energylabel notice	old label, no EPREL registration, no EU data sheet
Energylabel (E -> A++)	A++
Diameter	60 mm
Length max.	105 mm mm
Length	105 mm

Specification

Burning position	any
Mercury content	0.0 mg
Material	Glass
Photobiological safety according to EN 62471	RG0
Lamp shape	Pear-shape
Base	E27
Colour	White

Notes on Operation

Degree of protection (IP)	IP20
Burning position	any
Mode of operation	230 V
Ambient temperatures	-20...+40 °C
With movement sensor	No

Information especially for EPREL

Energylabel notice	old label, no EPREL registration, no EU data sheet
Lighting technology	LED
Mains/Non mains connectable	MLS
Directional or non-directional light	NDLS
Color tunable light source	No
Type of color temperature	SINGLE_VALUE
Life factor EPREL	0.9
Lumen maintenance EPREL	0.93
Flicker	1.0
Stroboscopic effect	0.4
EPREL ID number	878443

Notes

Standard LED lamp for exchange with incandescent lamps, coated, non-dim, base E27. 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 optimal 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).

Base

E27

IEC/EN 60061-1

sheet 7004-21-9

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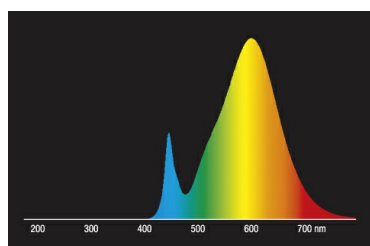
Spectrum

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.

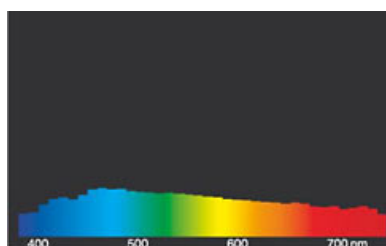
The colour of coloured LEDs depends on the chemical elements within the light generating chip. The coloured light is generated directly and does not need filtering.

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.

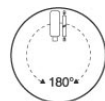


LED-Retrofit-Lamps 2700K



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 that of the original halogen type (eg "RL-MR16 35" -> 35W, independent of the real power consumption). When used outdoors or in damp rooms, the lamps must be installed in IP65 luminaires.

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.

® = Registered trademark

Subject to change without notice. Errors and omissions excepted.

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.