

LED Essence R80

RL-R80 100 9,1W/230/827/WFL/E27

Radium

Product Datasheet Date: 25.09.2021



A+



F



9,1



670




2700K



15 000h



General Data

Article No.	43618705
Code	RL-R80 100 827/WFL
Product EAN	4008597187056
Customs tariff no.	85395000
Box quantity (pcs.)	10
EAN Box	4008597487057
Gross weight of box in kg	2.928
Length of box in m	0.446
Width of box in m	0.183
Height of box in m	0.15
ETIM class	EC001959
ETIM class name	LED-lamp/Multi-LED
Product status	 Active

Electric Parameters

Nominal power	9,1 W
Rated wattage	9.1 W
Weighted energy consumption in 1,000 hours	10 kWh

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Electric Parameters

Power factor	> 0.50
Nominal voltage	220-240 V
Mains Voltage	220 - 240 V
Voltage type	AC
Nominal current (mA)	64 mA
max. no. of Lps with 16A (B) circuit breaker with ballast (ECG, CCG no capacitor) / at mains	100
max. no. of Lps with 10A (B) circuit breaker with ballast (ECG, CCG no capacitor) / at mains	60
dimnable	No

Light Application Parameters

Rated lamp luminous flux	670 lm
Luminous flux in 90°-sector	670 lm lm
Luminous flux in 120°-sector	670 lm lm
Luminous intensity	1340 cd
Beam angle	36 °
Luminous efficiency	73 lm/W
Colour temperature	2700 K
Colour rendering index Ra	≥ 80
Coloure rendering index Ra nominal	80-89
Colour Stability	≤ 6 sdcn

Service Life

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

Specification

Energy Label A to G	F
Energylabel A++ to E	A+
Diameter	80 mm
Length max.	113,0 mm
Length	113 mm
Burning position	beliebig

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Specification

Mercury content	0.0 mg
Lamp shape	Reflector
Base	E27
Colour	White

Notes on Operation

Degree of protection (IP)	IP20
Ambient temperatures	-20...+40 °C

Notes

R80-LED for exchange with halogen lamps, warm white light, glass bulb, 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

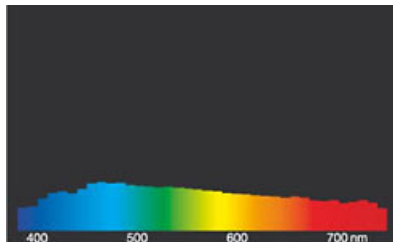
Spectrum

Da das Tageslicht eine Mischung von direktem Sonnenlicht und Himmelslicht darstellt, wechselt seine spektrale Zusammensetzung bedingt durch Tageszeit und Wetter ständig. Die Normlichtart D65 entspricht einem Tageslicht mit einer Farbtemperatur von ungefähr 6500 K.

Bei farbigen LEDs hängt die Lichtfarbe von den chemischen Elementen des lichterzeugenden Chips ab. Das farbige Licht wird direkt erzeugt und entsteht nicht erst durch den Filter.

Weißer LEDs sind entweder RGB (roter + grüner + blauer Chip in einer LED = Lichtfarbe weiß) oder blaue LED-Chips mit gelb/orange Leuchtstoff in der Vergussmasse.

Sichtbarer Bereich von 380 bis 780 nm; Bildhöhe entspricht der relativen spektralen Emission (400mW/klm)pro 10nm.



daylight(D 65)

Special features



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General notes

When replacing mercury vapor lamps HRL with LED lamps, we recommend replacement at the respective light point with operation at mains voltage directly (disconnect ballast, for lamps with article no. 426...), newer generations may also be replaced 1:1 (ballast remains in luminaire, lamps with article no. 43...) An ambient temperature of the lamp of 60 ° C inside the luminaire must not be exceeded. Outdoor use is permitted (IP65).

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.