

LED Essence Mini-Ball, frosted

RL-D40 840/F/E14

Radium

Product Datasheet Date: 14.07.2022



E



4



470



4000K




15 000h



3
YEARS
GUARANTEE

General Data

Article No.	44020244
Code	RL-D40 840/F/E14
Product EAN	4008597202445
Customs tariff no.	85395200
Box quantity (pcs.)	10
EAN Box	4008597602443
Gross weight of box in kg	0.308
Length of box in m	0.24
Width of box in m	0.101
Height of box in m	0.108
ETIM class	EC001959
ETIM class name	LED-lamp/Multi-LED
Weight	15 g
Product status	 Active

Electric Parameters

Nominal power	4 W
Rated wattage	4.0 W

Electric Parameters

Weighted energy consumption in 1,000 hours	4 kWh
Power factor	> 0.5
Nominal voltage	20-240 V
Voltage type	AC
Nominal current	32-32 mA
Nominal current (mA)	32 mA
Inrush current	1,5 A
max. no. of Lps with 16A (B) circuit breaker with ballast (ECG, CCG no capacitor) / at mains	480
max. no. of Lps with 10A (B) circuit breaker with ballast (ECG, CCG no capacitor) / at mains	400
dimnable	No

Light Application Parameters

Luminous flux	470 lm
Rated lamp luminous flux	470 lm
Luminous flux nominal	470 lm
Beam angle	300 °
Luminous efficiency	117 lm/W
Color temperature	4000 K
Color coordinate X	0.380
Color coordinate Y	0.380
Color rendering index Ra	≥ 80
Color rendering index Ra nominal	80
Color Stability	≤ 6 sdc _m

Service Life

Average nominal lifespan	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 up to	3 years

Specification

Energy Label A to G	E
Diameter	45 mm
Length max.	77 mm

LED Essence Mini-Ball, frosted

RL-D40 840/F/E14

Radium

Specification

Length	77 mm
Length	77 mm
Mercury content	0.0 mg
Lamp shape	Pear-shape
Base	E14
Weight	15 g

Notes on Operation

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

Information especially for EPREL

Color stability MacAdams EPREL	6
EPREL Verschiebungsfaktor	0.40
Life factor EPREL	0.90
Lumen maintenance EPREL	0.70
Flicker	1.0
Stroboscopic effect	0.9

Notes

LED mini ball lamp for exchange with incandescent lamps, coated, non-dim, base E14. 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.

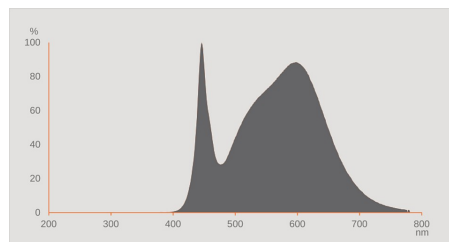
The optimal field 'info about service life' contains the frame conditions according to standards based on which the specific service life has been determined. So, for example, "12B50, 50Hz" means that the mean service life (B50) has been determined with a 12h switching cycle at mains (frequency 50Hz), "3B50, HF" is based on a 3h switching cycle at electronic control gear (high frequency).

Spectrum

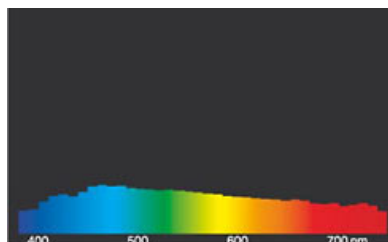
As daylight is a mixture of direct sunlight and light from the sky, the spectral distribution changes all the time due to the time of the day and the weather. The standard illuminant D65 corresponds to daylight with colour temperature of about 6500K.

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 reflector lamps 4000K



daylight(D 65)

LED Essence Mini-Ball, frosted

RL-D40 840/F/E14

Radium

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).

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 (clefs) 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.