

LED low voltage retrofit
RL-MR16 35 4,6W/12/840/WFL/GU5.3

Radium

Product Datasheet Date: 28.07.2023



A+

G

4,6

350

4000K

15 000h

General Data

Article No.	43618599
Code	RL-MR16 35 840/WFL
Product EAN	4008597185991
Customs tariff no.	85395200
Box quantitiy (pcs.)	10
EAN Box	4008597485992
Gross weight of box in kg	0.468
Length of box in m	0.256
Width of box in m	0.11
Height of box in m	0.065
ETIM class	EC001959
ETIM class name	LED-lamp/Multi-LED
Weight	38 g
Product status	<div><div></div>Inactive</div>

Electric Parameters

Rated wattage	4.6 W
Nominal power	4.6 W

Electric Parameters

Weighted energy consumption in 1,000 hours	5 kWh
Power factor	> 0.50
Nominal voltage	11,5-12 V
Voltage type	AC
Nominal current	490-490 mA
Nominal current (mA)	490 mA
max. no. of Lps with 10A (B) circuit breaker with ballast (ECG, CCG no capacitor) / at mains	21
max. no. of Lps with 16A (B) circuit breaker with ballast (ECG, CCG no capacitor) / at mains	35
dimnable	No

Light Application Parameters

Luminous flux	350 lm
Rated lamp luminous flux	350 lm
Luminous flux in 90°-sector	350 lm lm
Luminous flux in 120°-sector	350 lm lm
Luminous intensity	950 cd
Beam angle	36 °
Luminous efficiency	76 lm/W
Color temperature	4000 K
Color rendering index Ra	≥ 80
Color rendering index Ra nominal	80-89
Color Stability	≤ 6 sdc _m

Service Life

Average nominal lifespan	15000 h
Tc Temperature max.	77 °C
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
Energy Label A to G	G
Energylabel A++ to E	A+

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Specification

Diameter	51 mm
Length max.	46 mm mm
Length	46 mm
Burning position	any
Mercury content	0.0 mg
Base	GU5.3
Colour	White

Notes on Operation

Degree of protection (IP)	IP20
Burning position	any
Ambient temperatures	-20...+40 °C
Tc Temperature max.	77 °C

Information especially for EPREL

Energylabel notice	old label, no EPREL registration, no EU data sheet
Lighting technology	LED
Color tunable light source	No
Color stability MacAdams EPREL	6
EPREL ID number	875509

Notes

MR16-LED, exchange with 12V halogen lamps, neutral white light, glass bulb, non-dim, base GU5.3. 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



GU5.3
IEC/EN 60061-1
sheet 7004-109-2

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.

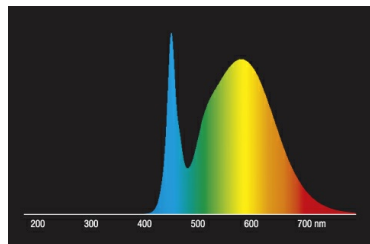
The colour of coloured LEDs depends on the chemical elements within the light generating chip. The coloured light is generated directly and does not need filtering.

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 4000K



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).

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.