# **LED HPM-Retrofit** RL-HRL200 840/C/E40 EM



Product Datasheet Date: 05.12.2025













17

47,5

4000K

50 000h

### **General Data**

Article No.	43920523	
Codice	RL-HRL200 840/C/E40 EM	
Product EAN	4008597205231	
Box quantitiy (pcs.)	6	
EAN Box	4008597405235	
Gross weight of box in kg	3.177	
Length of box in m	0.442	
Width of box in m	0.311	
Height of box in m	0.28	
Product weight	260 g	

## **Electric Parameters**

Wattage	47.5 W
Nominal power	47.5 W
Weighted energy consumption in 1000 hours	48 kWh
Lamp power	47.5 W
Nominal voltage	220-240 V
Voltage type	AC

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## **Electric Parameters**

Nominal current	230 mA
Nominal current (mA)	230 mA
Inrush current	37 A
max. no. of lamps at 10A automatic fuse	16
max. no. of lamps at 16A automatic fuse	20

## **Light Application Parameters**

Luminous flux	9000 lm	
Rated luminous flux according to IEC 62612	9000 lm	
Luminous flux	9000 lm	
Beam angle	330 °	
Efficacy	189 lm/W	
Total mains efficacy	189 lm/W	
Color temperature	4000 K	
Color coordinate X	0.385	
Color coordinate Y	0.393	
Color rendering index	≥ 80	
Color Stability	≤ 6 sdcm	

## **Service Life**

Average life	50000 h
Mean service life	50000 h
Min. number of switching cycles	20000
Guarantee	5 years

# **Specification**

Diameter 102 mm Length max. 225 mm Length 225 mm Burning position any Material Glass	
Length 225 mm Burning position any	1
Burning position any	1
	1
Material Glass	
Photobiological safety according to EN 62471 RG0	
Lamp shape Other	
Base E40	
Colour White	

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### **Notes on Operation**

Degree of protection (IP)	IP20
Burning position	any
Mode of operation	CCG, 230V
Ambient temperatures	-20 +45 °C

### Information especially for EPREL

Lighting technology	LED	
Mains/Non mains connectable	MLS	
Directional or non-directional light	NDLS	
Type of color temperature	SINGLE_VALUE	
Color stability MacAdams EPREL	6	
Displacement factor EPREL	0,9	
Life factor EPREL	0.9	
Lumen maintenance EPREL	0.93	
Flicker	1.0	
Stroboscopic effect	0.4	
EPREL ID number	2222262	

#### **Notes**

LEDretrofit f. mercury vapor lamps, non-dim. Operate with contr. gear (1:1 replacemt) or without (230V). Use: outdoor, hall lighting (luminaire w. IP)

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).

#### Base



IEC/EN 60061-1 sheet 7004-24-6

#### Spectrum

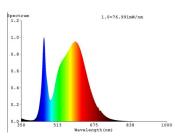
As daylight is a mixture of direct sunlight and light from the sky, the spectral distribution changes all the time due to the time of the day and the weather. The standard illuminant D65 corresponds to daylight with colour temperature of about 6500K.

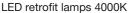
The colour of coloured LEDs depends on the chemical elements within the light generating chip. The coloured light is generated directly and does not need filtering.

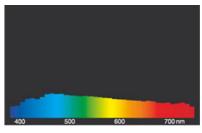
White LEDs are either RGB (red + green + blue chip in one LED = light colour white) or blue LED-chips with yellow/orange phosphor in the resin. Visible region from 380 to 780 nm; height of graph corresponding with relative spectral emission (400mW/klm)per 10nm.

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daylight(D 65)

#### Special features





#### 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.

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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.