

B 47,5 4000K 50 000h

## General Data

|                           |                        |
|---------------------------|------------------------|
| Article No.               | 43920523               |
| Code                      | RL-HRL200 840/C/E40 EM |
| Product EAN               | 4008597205231          |
| Box quantity (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        |

## Electric Parameters

|   |        |
|---|--------|
| Nominal current                             | 230 mA |
| Nominal current (mA)                        | 230 mA |
| Inrush current                              | 37 A   |
| max. no. of lamps at 10A-B10 automatic fuse | 16     |
| max. no. of lamps at 16A-B16 automatic fuse | 20     |
| dimnable                                    | No     |

## Light Application Parameters

|  |                      |
|--|----------------------|
| Luminous flux                              | 9000 lm              |
| Rated luminous flux according to IEC 62612 | 9000 lm              |
| Luminous flux                              | 9000 lm              |
| Beam angle                                 | 330 °                |
| Efficacy / Luminous efficiency             | 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 sdc <sub>m</sub> |

## Service Life

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

## Specification

|  |        |
|--|--------|
| Energylabel (G -> A)                         | B      |
| Diameter                                     | 102 mm |
| Length max.                                  | 225 mm |
| Length                                       | 225 mm |
| Burning position                             | any    |
| Material                                     | Glass  |
| Photobiological safety according to EN 62471 | RG0    |
| Lamp shape                                   | Other  |
| Base   | E40    |

## Specification

|                |       |
|----------------|-------|
| Colour         | White |
| Housing colour | Other |

## Notes on Operation

|                       |                |
|-----------------------|----------------|
| protection class (IP) | IP20           |
| Burning position      | any            |
| Mode of operation     | CCG, 230V      |
| Ambient temperatures  | -20 ... +45 °C |
| With movement sensor  | No             |

## 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](http://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



E40  
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

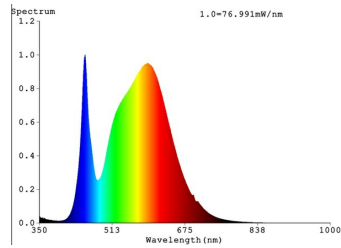
# LED HPM-Retrofit

RL-HRL200 840/C/E40 EM

# Radium

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 4000K



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.