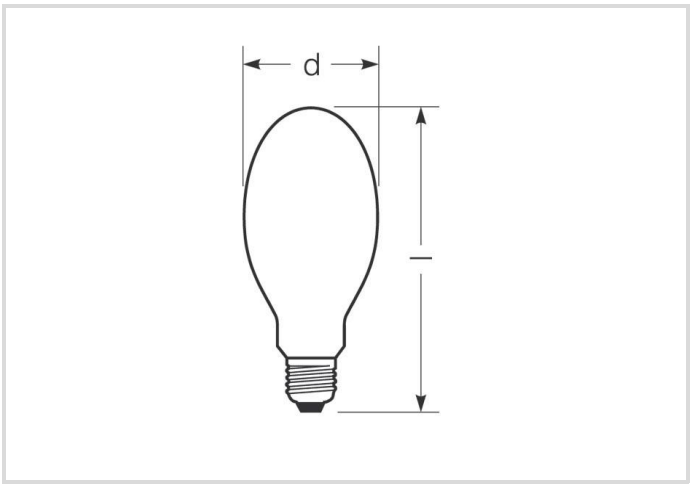
LED HPM-Retrofit
RL-HRL50 840/F/E27 EM

Radium

Product Datasheet Date: 31.10.2026





18	4000K	50 000h	5 YEARS GUARANTEE

General Data

Article No.	44120518
Code	RL-HRL50 840/F/E27 EM
Product EAN	4008597205187
Box quantitiy (pcs.)	6
EAN Box	4008597405181
Gross weight of box in kg	1.564
Length of box in m	0.32
Width of box in m	0.22
Height of box in m	0.24
Product weight	145 g
Product status	Active

Electric Parameters

Wattage	18.0 W
Nominal power	18.0 W
Weighted energy consumption in 1000 hours	18 kWh
Lamp power	18.0 W
Nominal voltage	220-240 V

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Electric Parameters

Voltage type	AC
Nominal current	81 mA
Nominal current (mA)	81 mA
Inrush current	5.57 A
max. no. of lamps at 10A-B10 automatic fuse	89
max. no. of lamps at 16A-B16 automatic fuse	135
dimmable	No

Light Application Parameters

Luminous flux	3000 lm
Rated luminous flux according to IEC 62612	3000 lm
Luminous flux	3000 lm
Beam angle	330 °
Luminous intensity	No
Efficacy / Luminous efficiency	167 lm/W
Total mains efficacy	167 lm/W
Color temperature	4000 K
Color coordinate X	0.382
Color coordinate Y	0.380
Color rendering index	≥ 80
Color Stability	≤ 6 sdcm

Service Life

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

Specification

Diameter	75 mm
Length max.	183 mm
Length	183 mm
Burning position	any
Photobiological safety according to EN 62471	RG0
Lamp shape	Other
Base	E27

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Specification

Material	Glass
Colour	White
Housing colour	Other

Notes on Operation

IP Class (Room/Ceiling)	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
Color tunable light source	No
Type of color temperature	SINGLE_VALUE
Color stability MacAdams EPREL	6
Displacement factor EPREL	0,7
Life factor EPREL	0.9
Lumen maintenance EPREL	0.93
Flicker	1.0
Stroboscopic effect	0.4
EPREL ID number	2222209

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

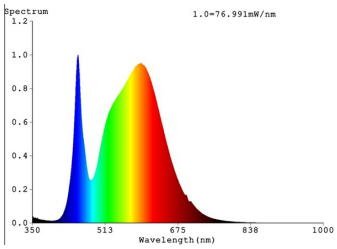


E27
IEC/EN 60061-1
sheet 7004-21-9

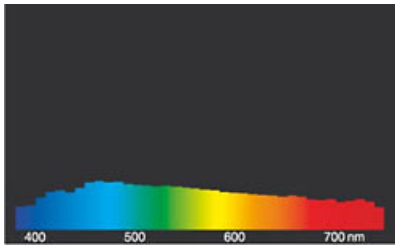
Spectrum

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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 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.
® = 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.