LED HPM-Retrofit
RL-HRL50 840/E27

Radium

Product Datasheet Date: 10.11.2026



A++	E	16	2000	4000K	50 000h	5 YEARS GUARANTEE

General Data

Artikel Nr.	43618301
Bestellzeichen	RL-HRL50 840/E27
EAN-Faltschachtel	4008597183010
Versandeinheit in Stk.	6
EAN Umkarton (Versandeinheit)	4008597483011
Brutto-Gewicht Versandeinheit in kg	3.391
Länge Versandeinheit in m	0.265
Breite Versandeinheit in m	0.188
Höhe Versandeinheit in m	0.2
Product weight	276 g
Produktstatus	Inaktiv

Electric Parameters

Wattage	16.0 W
Nominal power	16.0 W
Weighted energy consumption in 1000 hours	16 kWh
Lamp power	23.0-23.0 W
Power factor	0.90

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Electric Parameters

Power factor	0,9
Nominal voltage	220-240 V
Mains Voltage	220 - 240 V
Voltage type	AC
Nominal current	110-110 mA
Nominal current (mA)	110 mA
max. no. of lamps at 10A-B10 automatic fuse	80
max. no. of lamps at 16A-B16 automatic fuse	128
dimmable	Nein

Light Application Parameters

Luminous flux	3000 lm
Rated lamp luminous flux	2000 lm
Luminous flux in 90°-sector	3000 lm lm
Beam angle	360 °
Efficacy / Luminous efficiency	125 lm/W
Total mains efficacy	130,43 lm/W
Color temperature	4000 K
Color rendering index	≥ 80
Color rendering index nominal	80
Color Stability	≤ 6 sdcm

Service Life

Average life	50000 h
Mean service life	50000 h
No. switching cycles	100000
Lamp survival factor at 6000h	≥ 0.90
Early failure rate at 1000h	≤1.0%
Guarantee	5 years

Specification

Energylabel notice	old label, no EPREL registration, no EU data sheet
Energylabel (G -> A)	E
Energylabel (E -> A++)	A++
Diameter	75 mm
Length	153 mm

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Specification

Length	145 mm
Burning position	any
Mercury content	0.0 mg
Photobiological safety according to EN 62471	RG0
Lamp shape	Tube, single-ended
Base	E27
Material	Glass
Colour	White
Housing colour	Other

Notes on Operation

IP Class (Room/Ceiling)	IP65
Burning position	any
Mode of operation	CCG, 230V
Range of storage temperature	-20…+80 °C
Ambient temperatures	-20 ... +60°C
With movement sensor	Nein

Information especially for EPREL

Energylabel notice	old label, no EPREL registration, no EU data sheet
Lighting technology	LED
Mains/Non mains connectable	MLS
Directional or non-directional light	NDLS
Type of color temperature	SINGLE_VALUE
Life factor EPREL	0.9
Lumen maintenance EPREL	0.93

Notes

LED lamp for exchange with mercury lamps (HPM), non-dim, base E27. Operation with ballast (1:1 replacement) or without (= with 230V). No UV or IR.

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).

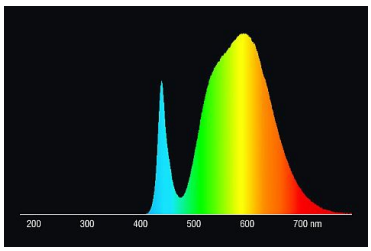
Sockelübersicht
E27
IEC/EN 60061-1
sheet 7004-21-9

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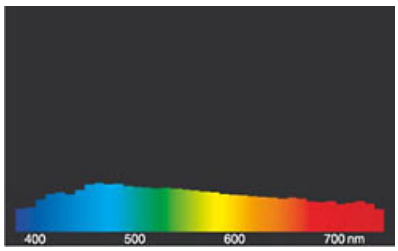
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Spektrale Strahlungsverteilung
As daylight is a mixture of direct sunlight and light from the sky, the spectral distribution changes all the time due to the time of the day and the weather. The standard illuminant D65 corresponds to daylight with colour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

Besonderheiten







Allgemeine Hinweise
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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Sicherheitshinweise
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.