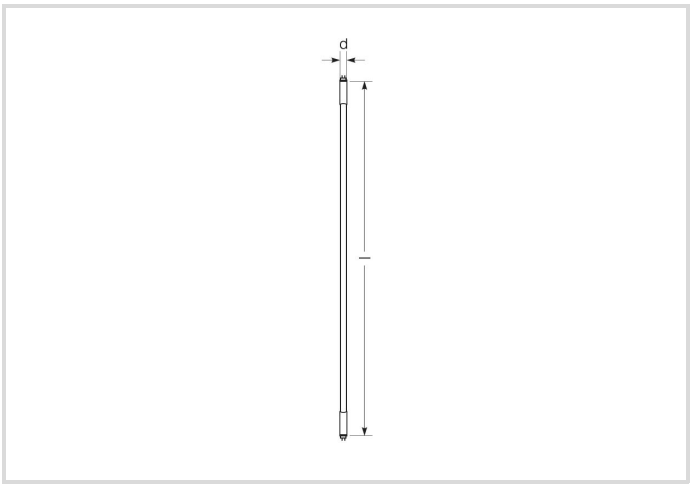
LED Essence T8-RetroFit HF

RL-T8 18 840/G13 HF

Radium

Product Datasheet Date: 29.10.2026





F	8	800	4000K	30 000h

General Data

Article No.	43920136
Code	RL-T8 18 840/G13 HF
Product EAN	4008597201363
Box quantitiy (pcs.)	10
EAN Box	4008597601361
Gross weight of box in kg	1.627
Length of box in m	0.662
Width of box in m	0.21
Height of box in m	0.115
Product weight	109 g
Product status	Active

Electric Parameters

Wattage	8.0 W
Nominal power	8.0 W
Weighted energy consumption in 1000 hours	8 kWh
Lamp power	8.0-8.0 W
Power factor	> 0.8

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Electric Parameters

Power factor	0,8
Nominal voltage	20-40 V
Voltage type	AC
Nominal current	60-60 mA
Nominal current (mA)	60 mA
Inrush current	20 A
dimmable	No

Light Application Parameters

Luminous flux	800 lm
Rated lamp luminous flux	800 lm
Luminous flux	800 lm
Beam angle	190 °
Efficacy / Luminous efficiency	100 lm/W
Total mains efficacy	93 lm/W
Color temperature	4000 K
Color coordinate X	0,381
Color coordinate Y	0,379
Color rendering index	≥ 80
Color rendering index nominal	83
Color Stability	≤ 4 sdcm

Service Life

Average life	30000 h
Tc Temperature max.	68 °C
Mean service life	30000 h
Lifetime L70B50	30000 h
max. temperature at Tc -point for nominal life with ECG	45 °C
Life L70 @ Tc max. with ECG	20000 h
Tc max. with ECG	68 °C
No. switching cycles	200000
Lamp survival factor at 6000h	≥ 0.90
Early failure rate at 1000h	≤ 5.0 %
Guarantee	3 years

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Specification

Energylabel notice	current label, with EPREL registration
Energylabel (G -> A)	F
Diameter	27,8 mm
Tube diameter	26 mm
Length	600 mm
Length	600 mm
Burning position	any
Mercury content	0.0 mg
Shatterproof	No
Photobiological safety according to EN 62471	RG0
Lamp shape	Tube, double-ended
Base	G13
Colour	White

Notes on Operation

IP Class (Room/Ceiling)	IP 20
Burning position	any
Mode of operation	ECG
Range of storage temperature	-20…+80 °C
Ambient temperatures	-20 … +45 °C
Tc Temperature max.	68 °C
Tc max. with ECG	68 °C
max. temperature at Tc -point for nominal life with ECG	45 °C
With movement sensor	No

Information especially for EPREL

Energylabel notice	current label, with EPREL registration
Lighting technology	LED
Color tunable light source	No
Type of color temperature	SINGLE_VALUE
Color stability MacAdams EPREL	4
Displacement factor EPREL	0,9
Life factor EPREL	0,9
Lumen maintenance EPREL	0,7
EPREL ID number	541680

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Miscellaneous

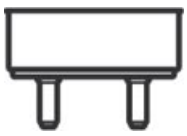
Similar products	43920128, 43719791, 43719848

Notes

T8 tubular LED lamp for exchange with fluorescent lamps, neutral white light, glass bulb, non-dim, base G13. Operation with suitable ECG only.

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).

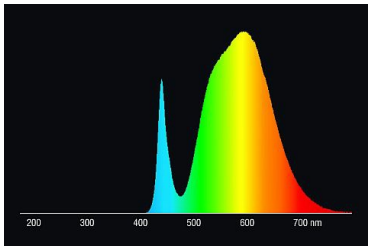
Base



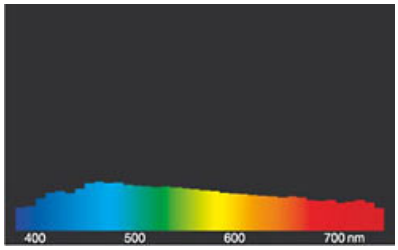
G13
IEC/EN 60061-1
sheet 7004-51-8

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.



LED retrofit tube lamps for fluorescent lamps 4000K



daylight(D 65)

Special features



General notes

Please note the installation instructions when replacing fluorescent lamps with LED tubes. Some LED lamp types are only suitable for 1: 1 replacement at the reespective burning position: with CCG by using the enclosed starter, with ECG with compatible control gear. Others can be operated directly on 230V (conversion of the luminaire), others again can 'do' CCG as well as 230V or all 3 variations. Neo tubes need an external LED driver (replacement of the control gear). LED Neo tubes are dimmable, all other LED tubes are not dimmable.

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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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.