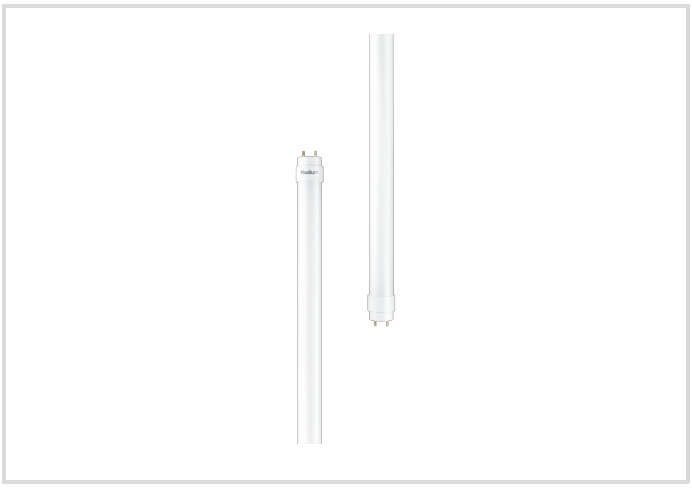
DC Tube for external drivers
LED T8 NEO 18 840/G13

Radium

Product Datasheet Date: 03.02.2026



LED T8 Neo 18 - 840				
Operating current	Voltage	Power	Luminous efficacy	Luminous flux
550 mA	20.0 V	11.0 W	170 lm/W	1 875 lm
500 mA	19.9 V	10.0 W	172 lm/W	1 710 lm
450 mA	19.9 V	8.9 W	173 lm/W	1 545 lm
400 mA	19.8 V	7.9 W	174 lm/W	1 380 lm
350 mA	**19.7 V**	**6.9 W**	**176 lm/W**	**1 215 lm**
300 mA	19.5 V	5.9 W	179 lm/W	1 049 lm
250 mA	19.4 V	4.8 W	182 lm/W	882 lm
200 mA	19.2 V	3.8 W	186 lm/W	716 lm

C	6.9	4000K	70 000h	Dimmable	5 YEARS GUARANTEE

General Data

Article No.	43719848
Code	RL-T8 18 NEO 840/G13 DC
Product EAN	4008597198489
Box quantitiy (pcs.)	25
EAN Box	4008597498480
Gross weight of box in kg	3.7
Length of box in m	0.67
Width of box in m	0.175
Height of box in m	0.18
Product weight	90 g
Product status	Active

Electric Parameters

Wattage	6.9 W
Nominal power	6.9 W
Weighted energy consumption in 1000 hours	7 kWh
Lamp power	3.8-11.0 W
Nominal voltage	18.5-20.5 V

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Electric Parameters

Voltage type	DC
Nominal current	200-550 mA
Nominal current (mA)	350 mA
dimmable	Yes

Light Application Parameters

Rated luminous flux according to IEC 62612	1215 lm
Luminous flux	716-1875 lm
max. luminous flux at	550 mA
Beam angle	160 °
Efficacy	176 lm/W
Total mains efficacy	163 lm/W
Light colour	coolwhite
Color temperature	4000 K
Color coordinate X	0.380
Color coordinate Y	0.380
Color rendering index	> 80
Color Stability	≤ 5 sdcm

Service Life

Average life	70000 h
Tc Temperature max.	70 °C
Mean service life	100000 h
Life L70B10	100000 h
Life L80B10	70000 h
No. switching cycles	>1.000.000
Guarantee	5 years

Specification

Energylabel notice	current label, with EPREL registration
Energylabel (G -> A)	C
Diameter	28.5 mm
Tube diameter	25.4 mm
Length	600 mm
Length	600 mm
Burning position	any

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Specification

Mercury content	0.0 mg
Material	Glass
Shatterproof	Yes
Lamp shape	Tube, double-ended
Base	G13
Colour	White

Notes on Operation

Degree of protection (IP)	IP20
Burning position	any
Mode of operation	DC
Range of storage temperature	-20 ... +60°C
Ambient temperatures	-20 ... +50°C
Tc Temperature max.	70 °C

Information especially for EPREL

Energylabel notice	current label, with EPREL registration
Lighting technology	LED
Mains/Non mains connectable	NMLS
Directional or non-directional light	NDLS
Color tunable light source	No
Type of color temperature	SINGLE_VALUE
Color stability MacAdams EPREL	5
Displacement factor EPREL	1
EPREL ID number	1083282

Miscellaneous

Similar products	43719849

Notes

T8 tubular DC LED lamp for external drivers, dimmable with suitable driver, neutral white light, glass bulb, base G13. Exchange for fluorescent lamps.

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

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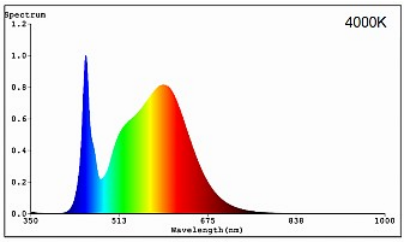
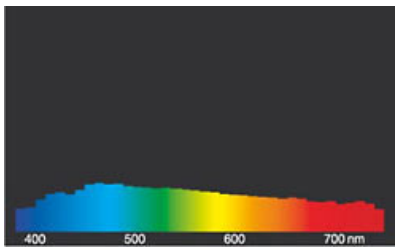
sheet 7004-51-8

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-NEO-Tubes 4000K, Replacements for fluorescent lamps



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.
® = Registered trademark
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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.