

Fluorescent lamp Spectralux®

NL-T5 13W/827/G5 RO

Radium

Product Datasheet Date: 09.09.2025



A

G

950

2700K

10 000h

Dimmable

General Data

Article No.	31111984
Code	NL-T5 13W/827/G5 RO
Product EAN	4050300008967
Box quantitiy (pcs.)	25
EAN Box	4050300608013
Gross weight of box in kg	1.6
Length of box in m	0.55
Width of box in m	0.11
Height of box in m	0.11
Product weight	50 g
Product status	Inactive

Electric Parameters

Wattage	13.2 W
Lamp nominal wattage	13 W
Weighted energy consumption in 1000 hours	14 kWh
Lamp voltage	95 V
Mains voltage	230 V

Electric Parameters

Nominal current (mA)	170 mA
Compensation capacitor for 50Hz operation	2 µF
dimmable	Yes

Light Application Parameters

Luminous flux	950 lm
Rated lamp luminous flux	950 lm
max. luminous flux at	25 °C
Beam angle	360 °
Efficacy	72 lm/W
Total mains efficacy	72 lm/W
Light colour	Intra
Code of light color	827
Colour temperature	2700 K
Color rendering index	? 80
Mean luminance	0.8
Lumen maintenance at 2000h	0.80
Lumen maintenance at 4000h	0.74
Lumen maintenance at 6000h	0.71
Lumen maintenance at 8000h	0.69

Service Life

Average life	10000 h
Service Life	5600 h
Lamp survival factor at 2000h	0.99
Lamp survival factor at 4000h	0.99
Lamp survival factor at 6000h	0.95
Lamp survival factor at 8000h	0.81

Specification

Energylabel notice	old label, no EPREL registration, no EU data sheet
Energylabel (G -> A)	G
Energylabel (E -> A++)	A
Diameter max.	16 mm
Tube diameter	16 mm
Length max.	531 mm

Specification

Length	517 mm
Burning position	h180
Mercury content	2.9 mg
Lamp shape	Rod
Base	G5
Colour	White

Notes on Operation

Burning position	h180
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Information especially for EPREL

Energylabel notice	old label, no EPREL registration, no EU data sheet
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Miscellaneous

EU-date of phase-out	25.08.2023
EU Directive	RoHS
Similar products	31119596

Notes

Fluorescent lamp T5 - 16mm diameter, light colour 827, high luminous efficiency, good colour rendering, long life, base G5. Controllable by Dim-ECG.

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 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



G5
IEC/EN 60061-1
sheet 7004-52-5

Spectrum

Natural daylight is a mixture of direct sunlight and the light of the sky. Therefore, its spectral composition changes permanently due to the changing time of day. The standardised light classification D65 corresponds to a daylight with a colour temperature of approximately 6500 K.

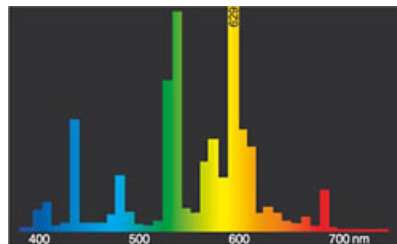
Every fluorescent lamp type has got an individual spectral power distribution according to its phosphor coating inside the bulb. From this result important properties light colour or colour rendering.

Visible region from 380 to 780 nm; height of graph corresponding with relative spectral emission (400mW/klm) per 10nm.

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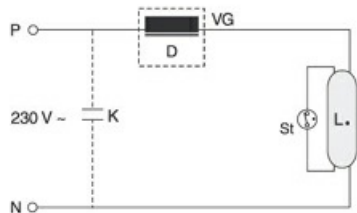


light colour 827 Spectralux® Intra (41)



daylight(D 65)

Circuit diagram(s)



One-lampe circuit inductive

Key:

D = choke

L. = lamp

St = starter

VG = electromagnetic ballast (KVG/VVG)

P = phase

N = zero potential

K = p. f. correction capacitor

The required control gear (here starter and ballast) for the lamps operation is usually mounted in the suitable luminaire in an appropriate electric circuit. Changes of any kind are to be conducted by qualified and specialised staff, only. Thus, this circuit example is to be understood merely as a technical background information for interested users.

One-lampe circuit inductive

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L. = lamp

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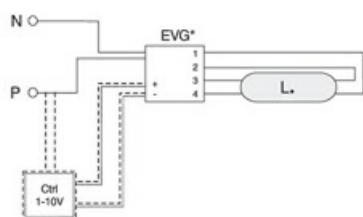
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One-lampe circuit with electronic ballast

Key:

VG = ballast electronic (ECG)

P = phase

N = zero potential

Ctrl = Controller, dimmer

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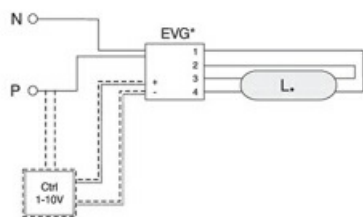
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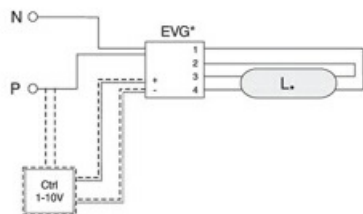
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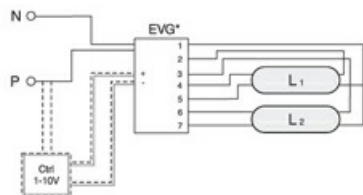
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Circuit with multi electronic ballast

Key:

VG = ballast electronic (ECG)

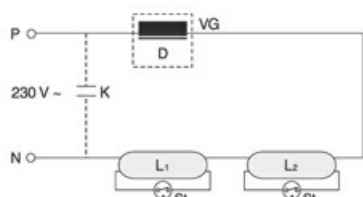
P = phase

N = zero potential

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Serious connection with conventional (low loss) ballast

Key:

D = choke

L = lamp

St = starter

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P = phase

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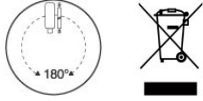
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Special features



General notes

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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All technical data without guarantee.