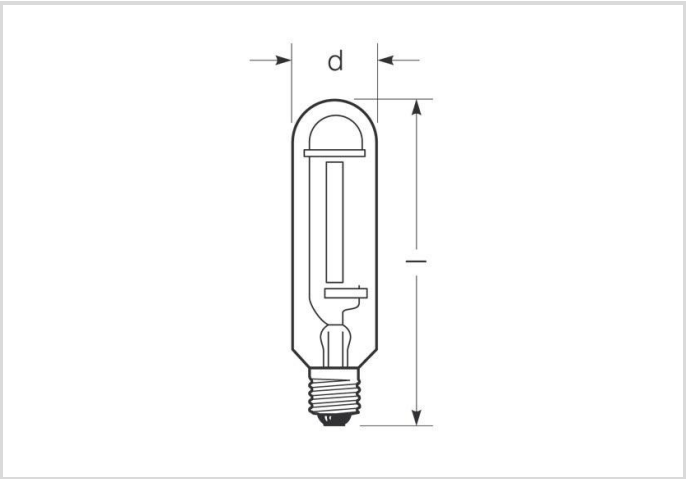
High pressure sodium lamp
RNP-T 1000W/230/E40

Radium

Product Datasheet Date: 24.11.2026





A++	130000	2000K	20 000h	Dimmable

General Data

Article No.	34404708
Code	RNP-T 1000W/230/E40
Product EAN	4008597047084
Box quantitiy (pcs.)	12
EAN Box	4008597447082
Gross weight of box in kg	4.647
Length of box in m	0.352
Width of box in m	0.283
Height of box in m	0.403
Product weight	300 g
Product status	Inactive

Electric Parameters

Wattage	960.0 W
Lamp nominal wattage	1000 W
Lamp voltage	110 V
Mains voltage	230 V
Ignition voltage	4.0 up to 5.0

High pressure sodium lamp
RNP-T 1000W/230/E40

Radium

Electric Parameters

Lamp's nominal current	10.6 A
Nominal choke current	10.3 A
Compensation capacitor for 50Hz operation	100 µF
Running up current max.	125%
Fuse	Daelay-action; min. double nominal current
dimmable	Yes
Controllable (in suitable circuit)	up to 50% (Run up at nominal power)

Light Application Parameters

Luminous flux	130000 lm
Rated lamp luminous flux	130000 lm
Efficacy / Luminous efficiency	135.42 lm/W
Total mains efficacy	130 lm/W
Colour temperature	2000 K
Color rendering index	25
Lumen maintenance at 2000h	0.96
Lumen maintenance at 4000h	0.93
Lumen maintenance at 6000h	0.91
Lumen maintenance at 8000h	0.89
Lumen maintenance at 12000h	0.84
Lumen maintenance at 16000h	0.81
Lumen maintenance at 20000h	0.79

Service Life

Average life	20000 h
B5 - Service life 5% failures	8000 h
B10 - Service life 10% failures	11000 h
Lamp survival factor at 2000h	0.99
Lamp survival factor at 4000h	0.98
Lamp survival factor at 6000h	0.95
Lamp survival factor at 8000h	0.90
Lamp survival factor at 12000h	0.87
Lamp survival factor at 16000h	0.74
Lamp survival factor at 20000h	0.50

High pressure sodium lamp
RNP-T 1000W/230/E40

Radium

Specification

Energylabel (E -> A++)	A++
Diameter	66 mm
Length	360 mm
Total length max.	360 mm
Burning position	h180
Mercury content	39.0 mg
Lamp shape	Tube, single-ended
Model	Clear
Base	E40

Notes on Operation

Burning position	h180

Miscellaneous

EU-date of phase-out	25.02.2022
EU Directive	RoHS

Notes

Standard high pressure sodium lamp, tubular bulb clear, base E40. Operation with ballast and ignitor.

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

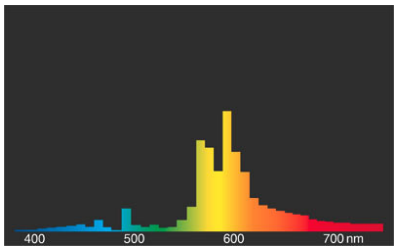


E40
IEC/EN 60061-1
sheet 7004-24-6

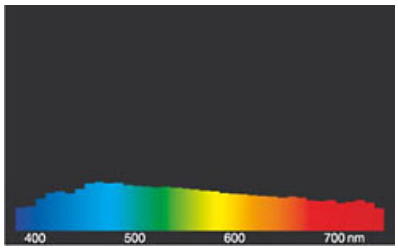
Spectrum

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 discharge lamp type has got an individual spectral power distribution according to its chemical filling. From this result important properties light colour or colour rendering. Sodium vapour lamps are very economic, due to the yellow light RNP lamps have got a high luminous efficiency but only modest colour rendering.
After the lamp start a high pressure sodium lamp needs about 6-10 minutes time to reach its full luminous flux.
Visible region from 380 to 780 nm; height of graph corresponding with relative spectral emission (400mW/klm)per 10nm.

High pressure sodium lamp
RNP-T 1000W/230/E40

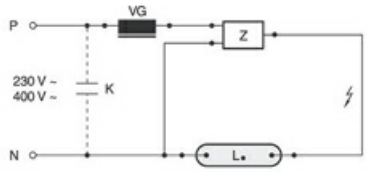


RNP Standard/Super



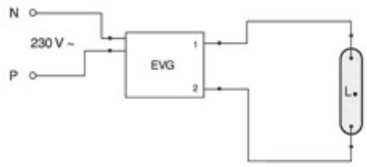
daylight(D 65)

Circuit diagram(s)



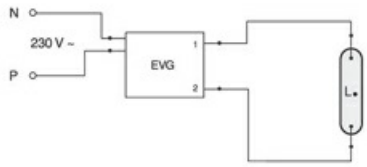
Standard circuit HID with external ignitor
Key:
L. = lamp
VG = electromagnetic ballast (KVG/VVG)
P = phase
N = zero potential
K = p. f. correction capacitor
Z = ignitor

The required control gear (here ignitor 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.



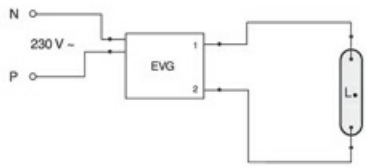
ECG-operation
Key:
L. = lamp
EVG = electronic ballast
P = phase
N = zero potential

The required control gear (here electronic 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.



ECG-operation
Key:
L. = lamp
EVG = electronic ballast
P = phase
N = zero potential

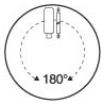
The required control gear (here electronic ballast) for the lamps operation is usually mounted in the suitable luminaire in an appropriate electric circuit. Changes of any kind are to be conducted by qualified and specialised staff, only. Thus, this circuit example is to be understood merely as a technical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



ECG-operation
Key:
L. = lamp
EVG = electronic ballast
P = phase
N = zero potential

The required control gear (here electronic 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.

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.
® = Registered trademark
Subject to change without notice. Errors and omissions excepted.

All technical data without guarantee.