

# High pressure sodium lamp

RNP-E/XLR 150W/S/230/E40 RO

# Radium

Product Datasheet Date: 16.06.2026



## General Data

Article No.	34418097
Code	RNP-E/XLR 150W/S/230/E40 RO
Product EAN	4058075803602
Box quantity (pcs.)	12
EAN Box	4052899418257
Gross weight of box in kg	1.866
Length of box in m	0.37
Width of box in m	0.29
Height of box in m	0.24
Product weight	99 g
Product status	● Phase Out

## Electric Parameters

Wattage	152.0 W
Lamp nominal wattage	150 W
Weighted energy consumption in 1000 hours	168 kWh
Lamp voltage	100 V
Mains voltage	230 V

## Electric Parameters

Ignition voltage	3.3 up to 5.0
Lamp's nominal current	1.8 A
Nominal choke current	1.8 A
Compensation capacitor for 50Hz operation	20 $\mu$ F

## Light Application Parameters

Luminous flux	17600 lm
Rated lamp luminous flux	17600 lm
Efficacy / Luminous efficiency	116 lm/W
Total mains efficacy	107 lm/W
Colour temperature	2000 K
Color rendering index	25
Lumen maintenance at 2000h	0.98
Lumen maintenance at 4000h	0.97
Lumen maintenance at 6000h	0.96
Lumen maintenance at 8000h	0.95
Lumen maintenance at 12000h	0.94
Lumen maintenance at 16000h	0.94
Lumen maintenance at 20000h	0.94

## Service Life

Average life	40000 h
B5 - Service life 5% failures	28000 h
B10 - Service life 10% failures	34000 h
Lamp survival factor at 2000h	0.99
Lamp survival factor at 4000h	0.98
Lamp survival factor at 6000h	0.98
Lamp survival factor at 8000h	0.98
Lamp survival factor at 12000h	0.97
Lamp survival factor at 16000h	0.96
Lamp survival factor at 20000h	0.96

## Specification

Energylabel notice	old label, no EPREL registration, no EU data sheet
Energylabel (G -> A)	F
Energylabel (E -> A++)	A+

## Specification

Diameter	91 mm
Length	226 mm
Total length max.	226 mm
Burning position	h180
Mercury content	24.0 mg
Lamp shape	Ellipsoid
Model	Opal
Base	E40

## 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

Similar products	34419712
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## Notes

High pressure sodium lamp extra long run (6Y), elliptical bulb coated, base E40. Operation with ballast and ignitor.

Please, refer to [www.radium.de/recycling](http://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



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.

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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

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ECG-operation with additional ignitor

Key:

L. = lamp  
 EVG = electronic ballast  
 P = phase  
 N = zero potential  
 Z = ignitor

The required control gear (here ignitor and electronic ballast) for the lamps operation is usually mounted in

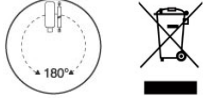
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### Special features



### 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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