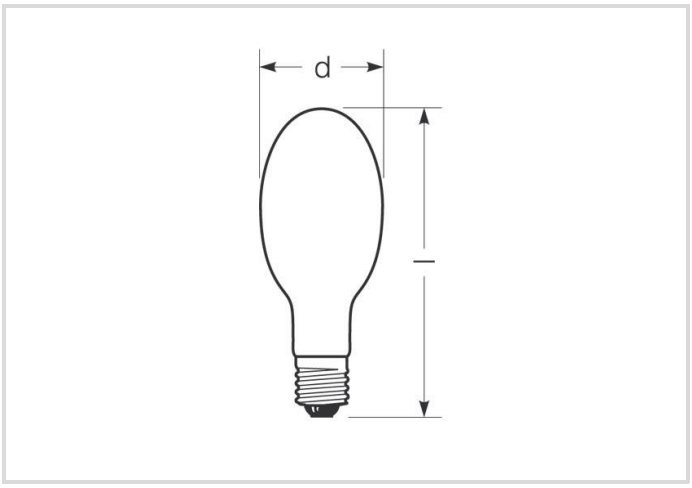
High pressure sodium lamp
RNP-E/LR 400W/S/230/E40

Radium

Product Datasheet Date: 31.05.2026



E	56500	2000K	36 000h	Gradable

General Data

Code Radium	34419716
Désignation	RNP-E/LR 400W/S/230/E40
EAN 10 (unité)	4050300024394
Unité de transport (pièces)	12
EAN 40 (carton)	4050300631776
Poids brut du carton en kg	4.182
Longueur box in m	0.541
Largeur du carton en m	0.416
Hauteur du carton en m	0.317
Product weight	230 g
Product status	Actif

Electric Parameters

Wattage	418.3 W
Weighted energy consumption in 1000 hours	419 kWh
Lamp voltage	100 V
Mains voltage	230 V
Ignition voltage	3.3 up to 5.0

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Electric Parameters

Nominal current (A)	4.42 A
Nominal choke current	4.6 A
Compensation capacitor for 50Hz operation	45 µF
Fuse	Daelay-action; min. double nominal current
dimmable	Oui

Light Application Parameters

Luminous flux	55400 lm
Rated lamp luminous flux	56500 lm
Efficacy / Luminous efficiency	132 lm/W
Total mains efficacy	123 lm/W
Colour temperature	2000 K
Color coordinate X	0,535
Color coordinate Y	0.420
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	36000 h
B5 - Service life 5% failures	20000 h
B10 - Service life 10% failures	24000 h
Lamp survival factor at 2000h	0.99
Lamp survival factor at 4000h	0.99
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

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Specification

Energylabel notice	current label, with EPREL registration
Energylabel (G -> A)	E
Diameter	122 mm
Length	290 mm
Total length max.	290 mm
Burning position	h180
Mercury content	19.6 mg
Lamp shape	Ellipsoid
Model	Opal
Base	E40

Notes on Operation

Burning position	h180

Information especially for EPREL

Energylabel notice	current label, with EPREL registration
EPREL ID number	541507

Miscellaneous

Similar products	32417733, 34414856

Notes

High pressure sodium lamp long run (4Y), elliptical bulb coated, base E27. 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).

Culot

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

Courbes spectrales

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

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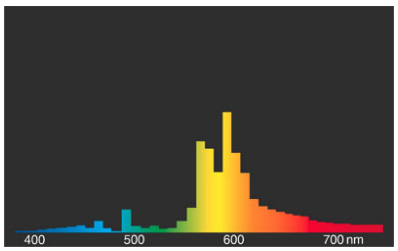
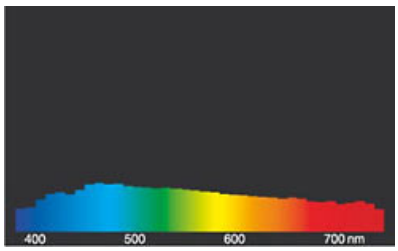
modest colour rendering.
After the lamp start a high pressure sodium lamp needs about 6-10 minutes time to reach its full luminous flux.
Visible region from 380 to 780 nm; height of graph corresponding with relative spectral emission (400mW/klm)per 10nm.

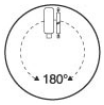


RNP Standard/Super



daylight(D 65)

Particularités



Notices explicatives générales

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.