OSRAM

NAV-T 100 W SUPER 4Y

VIALOX NAV-T SUPER 4Y | High-pressure sodium vapor lamps for open and enclosed luminaires

Areas of application

– Streets
– Outdoor lighting
– Industrial installations
– Suitable for use in open and enclosed luminaires
– Outdoor applications only in suitable luminaires

Product benefits

– Long lifetime
– Very high luminous efficacy
– Very good luminous flux maintenance throughout the life of the lamp
– Energy savings of up to 50 % when replacing inefficient mercury vapor lamps (HQL)
– Optimum energy efficiency on POWERTRONIC PTo 3DIM ECGs
– Dimmable on conventional control gears and electronic control gears

Product features

– Lamp survival factor: 95 % after 16,000 hours burning time
– Average lifetime: up to 32,000 hours
– Lamp maintenance factor: ≥ 80 % after 16,000 h burning time (according to DIN 13201)
– Service lifetime: 4 years (at approx. 11 h/day)
– ErP compliant according to EU Regulation 245/2009

Product datasheet

Electrical data

Nominal wattage	100.00 W
Rated wattage	100.00 W
Lamp current	1.2 A
Nominal voltage	100 V
Ignition voltage	3.3 / 5.0 kVp [1]
Rated lamp efficacy (standard condition)	107 lm/W
Rated luminous flux	10700 lm

[1] Minimum / Maximum

Photometrical data

Color rendering index Ra	≤25
Color temperature	2000 K
Rated LLMF at 2,000 h	0.94
Rated LLMF at 4,000 h	0.92
Rated LLMF at 6,000 h	0.90
Rated LLMF at 8,000 h	0.89
Rated LLMF at 12,000 h	0.88
Rated LLMF at 16,000 h	0.87
Rated LLMF at 20,000 h	0.86

Dimensions & weight
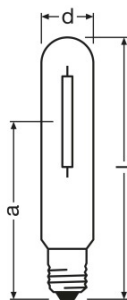
Diameter	47.0 mm
Length	210.0 mm
Light center length (LCL)	132.0 mm
Product weight	103.00 g

Product datasheet

Temperatures & operating conditions

Maximum permitted outer bulb temperature	310 °C
Maximum permitted base edge temperature	210 °C

Lifespan

Rated lamp survival factor at 2,000 h	0.99
Rated lamp survival factor at 4,000 h	0.98
Rated lamp survival factor at 6,000 h	0.98
Rated lamp survival factor at 8,000 h	0.97
Rated lamp survival factor at 12,000 h	0.97
Rated lamp survival factor at 16,000 h	0.96
Rated lamp survival factor at 20,000 h	0.95
Lifespan B50	32000 h
Lifespan B10	22000 h
Lifespan B5	20000 h
Operation mode LLMF/LSF	50 Hz

Additional product data

Base (standard designation)	E40
Product remark	Important: Before replacing for NAV Standard lamps in existing installations, check that the igniters are suitable
Design / version	Clear
System guarantee level	3 (2/5)
Lamp mercury content	19.0 mg

Capabilities

Dimmable	Yes [1]
Burning position	Any
Enclosed luminaire required	No

[1] In combination with POWERTRONIC PTo

Certificates & standards

Energy efficiency class	A+
Energy consumption	110 kWh/1000h

Country specific categorizations

ILCOS	ST-100-H/E/SL-E40-47/210

Product datasheet

Light Distribution
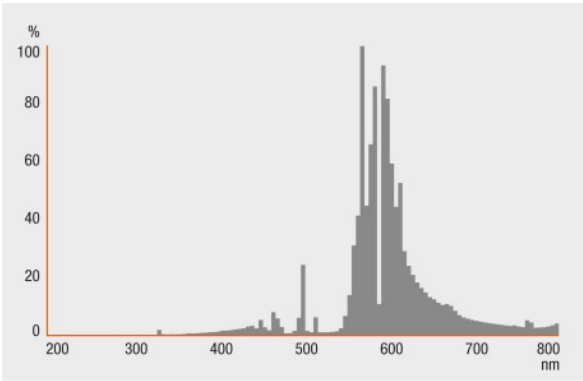
Spectral power distribution

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Guarantee

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4050300015743	NAV-T 100 W SUPER 4Y	Shipping carton box 12	247 mm x 270 mm x 220 mm	14.67 dm³	2262.00 g
4052899199170	NAV-T 100 W SUPER 4Y	Shipping carton box 12	266 mm x 216 mm x 277 mm	15.92 dm³	1938.00 g

Product datasheet

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

References / Links

For more information on the system guarantee and the terms and conditions of the guarantee visit
▸ www.osram.com/system-guarantee

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

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