PRODUCT DATASHEET
NAV-E 100 W SUPER XT

VIALOX NAV-E SUPER XT | 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
- Alternative to sodium twin arc lamps

PRODUCT BENEFITS

- Very long lifetime
- Very high luminous efficacy
- Extended service time (lamp replacement cycle): 8 years (at approx. 11 h/day)
- Very good luminous flux maintenance throughout the life of the lamp
- Optimum energy efficiency on POWERTRONIC PTo 3DIM ECGs

PRODUCT FEATURES

- Lamp survival rate: 95 % after 28,000 h burning time
- Very long average lifetime: up to 48,000 h
- Lamp maintenance factor: ≥ 80 % after 24,000 h burning time (according to DIN 13201)
- ErP compliant according to EU Regulation 245/2009
- Dimmable on conventional control gears and electronic control gears



© 2018, LEDVANCE GmbH. All rights reserved.

TECHNICAL DATA

Electrical data

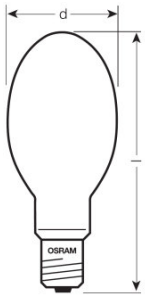
Rated wattage	100.00 W
Lamp current	1.2 A
Nominal wattage	100.00 W
Nominal voltage	100 V
Ignition voltage	3.3 / 5.0 kVp [1]

[1] Minimum / Maximum

Photometrical data

Rated luminous flux	10400 lm
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
Luminous flux	10400 lm
Color rendering index Ra	≤25

Dimensions & weight



Diameter	76.0 mm
Length	183.0 mm
Product weight	95.00 g

Temperatures & operating conditions

Maximum permitted outer bulb temperature	310 °C

© 2018, LEDVANCE GmbH. All rights reserved.

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	0.99
Rated lamp survival factor at 6,000 h	0.99
Rated lamp survival factor at 8,000 h	0.99
Rated lamp survival factor at 12,000 h	0.99
Rated lamp survival factor at 16,000 h	0.99
Rated lamp survival factor at 20,000 h	0.98
Lifespan B5	28000 h
Lifespan B50	48000 h
Lifespan B10	34000 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	Coated
System guarantee level	3 (2/5)
Mercury content	19.0 mg

Capabilities

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

[1)] In combination with POWERTRONIC PTo

Certificates & standards

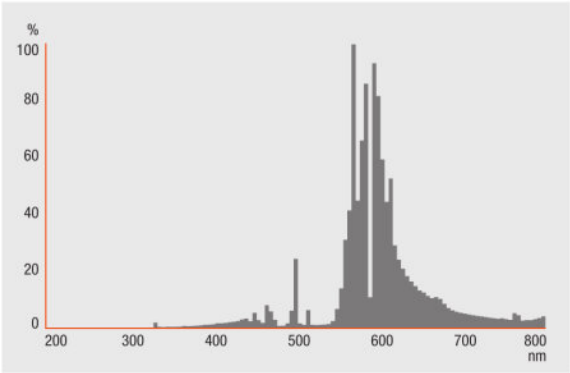
Energy efficiency class	A+
Energy efficiency class	A+
Energy consumption	110 kWh/1000h

Country-specific categorizations

ILCOS	SE-100-H/E/SL-E40-76/183

© 2018, LEDVANCE GmbH. All rights reserved.

Light Distribution



Spectral power distribution

LOGISTICAL DATA

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4058075803596	NAV-E 100 W SUPER XT	Shipping carton box 12	380 mm x 300 mm x 203 mm	23.14 dm^3	1610.00 g

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.ledvance.com/system-guarantee

DISCLAIMER

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

© 2018, LEDVANCE GmbH. All rights reserved.