

PRODUCT DATASHEET

NAV-E 100 W E40

VIALOX® NAV®-E | 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

- High luminous efficacy

Product features

- Service lifetime: 3 years (at approx. 11 h/day)



TECHNICAL DATA

Electrical data

Nominal wattage	100 W
Construction wattage	97.00 W
Nominal voltage	100 V
Ignition voltage	3.3/5.0 kVp ¹⁾
Operating mode	Conventional control gear (CCG) and ignitor
Nominal current	1.2 A

¹⁾ Minimum / Maximum

Photometrical data

Luminous flux	8800 lm
Luminous efficacy	85 lm/W
Color temperature	2000 K
Color rendering index Ra	≤25
Light color	220
Rated LLMF at 2,000 h	0.91
Rated LLMF at 4,000 h	0.90
Rated LLMF at 6,000 h	0.89
Rated LLMF at 8,000 h	0.88
Rated LLMF at 12,000 h	0.88
Rated LLMF at 16,000 h	0.87
Rated LLMF at 20,000 h	0.86
Rated lamp efficacy (standard co.)	91 lm/W
UV protection	No

Dimensions & Weight

Overall length	183.00 mm
Diameter	76 mm
Product weight	80.00 g

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	0.96
Rated lamp survival factor at 12,000 h	0.95
Rated lamp survival factor at 16,000	0.83
Rated lamp survival factor at 20,000 h	0.70
Lifespan B10	14000 h
Lifespan B5	12000 h
Lifespan B50	28000 h
Operation mode LLMF/LSF	50 Hz

Additional product data

Base (standard designation)	E40
Mercury content	18.7 mg ¹⁾
Mercury-free	No
Design / version	Coated
Product remark	Phased out in the EU as non ErP compliant according to EU directive 245/2009

¹⁾ Maximum

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	106.70 kWh/1000h

Country-specific categorizations

ILCOS	SE-100-H/E/SL-E40-76/183
Order reference	NAV-E 100W E40

Energy labelling regulation data acc EU 2019/2015


Light source cap-type (or other electric interface)	E40
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Length	183.00 mm
Height	76 mm
Width	76 mm

Safety advice

- Disconnect mains before installation.
- Must not be used if outer bulb is defective.
- Protect from spray water.

DOWNLOAD DATA

Documents and certificates		Document name
	User instruction / safety instructions	High-Intensity-Discharge lamps. Operation instructions

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4008321087300	Round wrap 1	80 mm x 80 mm x 183 mm	93.00 g	1.17 dm ³
4008321087317	Shipping box 12	380 mm x 203 mm x 300 mm	1677.40 g	23.14 dm ³

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.

DISCLAIMER

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