

PRODUCT DATASHEET

NAV-T 100 W E40

VIALOX® NAV®-T | 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
Nominal voltage	100 V
Ignition voltage	3.3/5.0 kVp ¹⁾
Nominal current	1.2 A

¹⁾ Minimum / Maximum

Photometrical data

Luminous flux	9000 lm
Luminous efficacy	90 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.)	93 lm/W
UV protection	No

Dimensions & Weight

Overall length	210.00 mm
Length	210.00 mm
Light center length (LCL)	132,0 mm
Diameter	47 mm
Product weight	108.00 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
Mercury-free	No
Design / version	Clear
Product remark	Phased out in the EU as non ErP compliant according to EU directive 245/2009

Capabilities

Dimmable	Yes ¹⁾
Burning position	Any
Enclosed luminaire required	No

¹⁾ In combination with POWERTRONIC PTO

Certificates & Standards

Energy efficiency class	F
Energy consumption	106.70 kWh/1000h

Country-specific categorizations

ILCOS	ST-100-H/E/SL-E40-47/210
Order reference	NAV-T 100W E40

Safety advice

- Disconnect mains before installation.
- Must not be used if outer bulb is defective.

DOWNLOAD DATA

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

Photometric and lighting design files		Document name
	Spectral power distribution	384084_NAV_SUPER_4Y

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4008321087287	Sleeve 1	52 mm x 52 mm x 260 mm	148.00 g	0.70 dm ³
4008321087294	Shipping box 12	216 mm x 166 mm x 272 mm	2262.00 g	9.75 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.