

# PRODUCT DATASHEET

## NAV-E 70 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
- Lamp maintenance factor:  $\geq 80$  % after 24,000 h burning time (according to DIN 13201)
- Dimmable on conventional control gears and electronic control gears



## TECHNICAL DATA

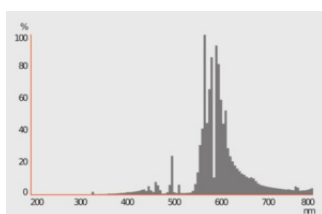
### Electrical data

Nominal wattage	70 W
Construction wattage	74.60 W
Nominal voltage	85 V
Ignition voltage	1.8/5.0 kVp <sup>1)</sup>
Nominal current	0.98 A
PFC capacitor at 50 Hz	12 µF

1) Minimum / Maximum

### Photometrical data

Luminous flux	6600 lm
Luminous efficacy	88 lm/W
Color temperature	2000 K
Color rendering index Ra	≤25
Light color	220
Rated LLMF at 2,000 h	0.94
Rated LLMF at 4,000 h	0.91
Rated LLMF at 6,000 h	0.90
Rated LLMF at 8,000 h	0.89
Rated LLMF at 12,000 h	0.89
Rated LLMF at 16,000 h	0.88
Rated LLMF at 20,000 h	0.86
UV protection	No



### Dimensions & Weight

Overall length	155.00 mm
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Diameter	71.00 mm
Product weight	50.00 g

### Temperatures & operating conditions

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

### Lifespan

Nominal lamp life time	44000 h
Rated lamp survival factor at 2,000 h	0.99
Rated lamp survival factor at 4,000	0.99
Rated lamp survival factor at 6,000	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	0.99
Rated lamp survival factor at 20,000 h	0.98
Lifespan B10	34000 h
Lifespan B5	26000 h
Lifespan B50	44000 h

### Additional product data

Base (standard designation)	E27
Mercury content	14.4 mg
Design / version	Coated
Product remark	Important: Before replacing for NAV Standard lamps in existing installations, check that the igniters are suitable

### Capabilities

Dimmable	Yes <sup>1)</sup>
Burning position	Any
Enclosed luminaire required	No
Hot restart	No

<sup>1)</sup> In combination with POWERTRONIC PTO

### Certificates & Standards

Energy efficiency class	G
Energy consumption	75.00 kWh/1000h





## Country-specific categorizations

ILCOS	SE-70-H/E/SL-E27-71/156
Order reference	NAV-E 70WSUPER

## Energy labelling regulation data acc EU 2019/2015

Lighting technology used	HPS
Non-directional or directional	NDLS
Mains or non-mains	NMLS
Light source cap-type (or other electric interface)	E27
Connected light source (CLS)	No
Color-tuneable light source	No
Envelope	SECOND
High luminance light source	No
Anti-glare shield	No
Correlated colour temperature type	SINGLE_VALUE
Claim of equivalent power	No
Length	155.00 mm
Height	71.00 mm
Width	71.00 mm
Chromaticity coordinate x	0,535
Chromaticity coordinate y	0,420
Beam angle	SPHERE_360
EPREL ID	546596
Model number	AC34391

## DOWNLOAD DATA

DOWNLOAD DATA	
	User instruction High Intensity Discharge Lamp UI
	Certificates EAC RU C-DE.AYA46.B.85891 29.06.2018-28.06.2023 ROSTEST-Moskva - HPS
	Certificates EAC N RU D-DE.MU62.B.00936_20 06.03.2020-05.03.2025 Prommash Test - HPS
	Declarations of conformity EC Declaration of Conformity - 2021 9C1-4077887-EN-00 - HPS

**LOGISTICAL DATA**

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075803589	Round wrap 1	75 mm x 75 mm x 165 mm	80.00 g	0.93 dm <sup>3</sup>
4058075803718	Shipping box 24	360 mm x 285 mm x 355 mm	1919.00 g	36.42 dm <sup>3</sup>

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.