

# PRODUCT DATASHEET

## NAV-E 400 W SUPER 4Y

VIALOX® NAV®-E 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

- Very high luminous efficacy
- Very good luminous flux maintenance throughout the life of the lamp
- Energy savings of up to 50 % when replacing mercury vapor lamps (HQL)
- Optimum energy efficiency on POWERTRONIC® PTo 3DIM ECGs

### Product features

- Lamp survival factor: 95 % after 16,000 h burning time
- Lamp maintenance factor:  $\geq 80$  % after 16,000 h burning time (according to DIN 13201)
- Service lifetime: 4 years (at approx. 11 h/day)
- Dimmable on conventional control gears and electronic control gears



## TECHNICAL DATA

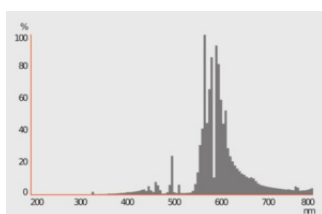
### Electrical data

Nominal wattage	400 W
Construction wattage	418.30 W
Nominal voltage	105 V
Ignition voltage	3.3/5.0 kVp <sup>1)</sup>
Nominal current	4.42 A
PFC capacitor at 50 Hz	45 µF

<sup>1)</sup> Minimum / Maximum

### Photometrical data

Luminous flux	56500 lm
Luminous efficacy	135 lm/W
Color temperature	2000 K
Color rendering index Ra	≤25
Light color	220
Rated LLMF at 2,000 h	0.98
Rated LLMF at 4,000 h	0.97
Rated LLMF at 6,000 h	0.96
Rated LLMF at 8,000 h	0.95
Rated LLMF at 12,000 h	0.94
Rated LLMF at 16,000 h	0.94
Rated LLMF at 20,000 h	0.94
UV protection	No



### Dimensions & Weight

Overall length	285.00 mm
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Diameter	122 mm
Product weight	230.00 g

### Temperatures & operating conditions

Maximum permitted outer bulb temperature	400 °C
Maximum permitted base edge temperature	250 °C

### Lifespan

Nominal lamp life time	32000 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	0.98
Rated lamp survival factor at 8,000 h	0.98
Rated lamp survival factor at 12,000 h	0.97
Rated lamp survival factor at 16,000	0.96
Rated lamp survival factor at 20,000 h	0.95
Lifespan B10	24000 h
Lifespan B5	20000 h
Lifespan B50	36000 h

### Additional product data

Base (standard designation)	E40
Mercury content	21.6 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
Burning position	Any
Enclosed luminaire required	No

### Certificates & Standards

Energy efficiency class	E
Energy consumption	419.00 kWh/1000h

### Country-specific categorizations





ILCOS	SE-400-H/E/SL-E40-122/290
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Order reference	NAV-E 400W SUPE
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### 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)	E40
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	285.00 mm
Height	122 mm
Width	122 mm
Chromaticity coordinate x	0,535
Chromaticity coordinate y	0,420
Beam angle	SPHERE_360
EPREL ID	546587
Model number	AC34379

### 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
4050300024394	Round wrap 1	125 mm x 125 mm x 295 mm	337.00 g	4.61 dm <sup>3</sup>
4050300631776	Shipping box 12	541 mm x 317 mm x 416 mm	4182.60 g	71.34 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.

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## DISCLAIMER

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