

PRODUCT DATASHEET NAV-E 50 W/I E27

VIALOX® NAV®-E/I | High-pressure sodium vapor lamps with internal igniter



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)





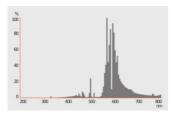
TECHNICAL DATA

Electrical data

Nominal wattage	50 W	
Construction wattage	53.60 W	
Nominal voltage	85 V	
gnition voltage 0.198 kVp		
Operating mode	Conventional control gear (CCG) without ignitor, Electronic control gear (ECG)	
Nominal current	770 mA	
PFC capacitor at 50 Hz	10 μF	

Photometrical data

Luminous flux	3700 lm
Luminous efficacy	69 lm/W
Color temperature	2000 K
Color rendering index Ra	≤25
Light color	220
Rated LLMF at 2,000 h	0.89
Rated LLMF at 4,000 h	0.85
Rated LLMF at 6,000 h	0.83
Rated LLMF at 8,000 h	0.82
Rated LLMF at 12,000 h	0.81
Rated LLMF at 16,000 h	0.79
Rated LLMF at 20,000 h	0.72
UV protection	No



384084_NAV_SUPER_4Y

Dimensions & Weight

Overall length	155.00 mm	
Diameter	71 mm	
Product weight	50.00 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	0.98	
Rated lamp survival factor at 4,000 h	0.97	
Rated lamp survival factor at 6,000 h	0.97	
Rated lamp survival factor at 8,000 h	0.96	
Rated lamp survival factor at 12,000 h	0.90	
Rated lamp survival factor at 16,000	0.83	
Rated lamp survival factor at 20,000 h	0.70	
Lifespan B10	12000 h	
Lifespan B5	9000 h	
Lifespan B50	24000 h	
Additional product data		
Base (standard designation)	E27	
Mercury content	10.8 mg	
Design / version	Coated	
Product remark	Operate only with NAV control gear. No igniter required	
Capabilities		
Dimmable	No	
Burning position	Any	
Enclosed luminaire required	No	
Certificates & Standards		
Energy efficiency class	G	
Energy consumption	54.00 kWh/1000h	
Country-specific categorizations		
ILCOS	SE-50-H/I/S-E27-71/156	
Order reference	NAV-E 50W/I E27	

Energy labelling regulation data acc EU 2019/2015

Non-directional or directional 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 Height 71 mm Width	
Light source cap-type (or other electric interface) Connected light source (CLS) No Color-tuneable light source Envelope High luminance light source No Anti-glare shield No Correlated colour temperature type Claim of equivalent power Length Height E27 No No SECOND No SINGLE_VALUE 155.00 mm Height	
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 Claim of equivalent power Length Height No The manner of the source of th	
Color-tuneable light source Envelope SECOND High luminance light source No Anti-glare shield No Correlated colour temperature type SINGLE_VALUE Claim of equivalent power Length 155.00 mm Height	
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 mm	
High luminance light source Anti-glare shield No Correlated colour temperature type SINGLE_VALUE Claim of equivalent power No Length 155.00 mm Height	
Anti-glare shield Correlated colour temperature type SINGLE_VALUE Claim of equivalent power No Length 155.00 mm Height	
Correlated colour temperature type SINGLE_VALUE Claim of equivalent power No Length 155.00 mm Height 71 mm	
Claim of equivalent power No Length 155.00 mm Height 71 mm	
Length 155.00 mm Height 71 mm	
Height 71 mm	
Width 71 mm	
Chromaticity coordinate x 0,535	
Chromaticity coordinate y 0,420	
Beam angle correspondence SPHERE_360	
EPREL ID 546570	
Model number AC34362,AC34362	

Safety advice

- Do not stare at the operating light source: The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer that 4 m is not expected.
- Disconnect mains before installation.
- Must not be used if outer bulb is defective.
- Protect from spray water.

DOWNLOAD DATA

	Documents and certificates	Document name
POF	User instruction / safety instructions	High Intensity Discharge Lamp UI
PDF	Declarations of conformity	EC Declaration of Conformity - 2021 9C1-4077887-EN-00 - HPS
PDF	Certificates	EAC RU C-DE.AYA46.B.85891 29.06.2018-28.06.2023 ROSTEST-Moskva - HPS

	Documents and certificates	Document name
PDF	Certificates	EAC N RU D-DE.MU62.B.00936_20 06.03.2020-05.03.2025 Prommash Test - HPS

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
4050300015583	Round wrap 1	75 mm x 75 mm x 165 mm	83.00 g	0.93 dm ³
4050300222547	Shipping box 24	360 mm x 285 mm x 355 mm	2423.00 g	36.42 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.