

# PRODUCT DATASHEET NAV-T 100 W SUPER 4Y

VIALOX® NAV®-T SUPER 4Y® 50...400 W | 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: ≥ 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

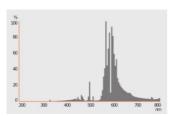
# Electrical data

Nominal wattage	100 W	
Construction wattage	105.20 W	
Nominal voltage	100 V	
Ignition voltage	3.3/5.0 kVp <sup>1)</sup>	
Operating mode	Conventional control gear (CCG) and ignitor, Electronic control gear (ECG)	
Nominal current	1200 mA	
PFC capacitor at 50 Hz	12 µF	

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

## Photometrical data

Luminous flux	10300 lm
Luminous efficacy	98 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	0.92
Rated LLMF at 6,000 h	0.90
Rated LLMF at 8,000 h	0.89
Rated LLMF at 12,000 h	0.88
Rated LLMF at 16,000 h	0.87
Rated LLMF at 20,000 h	0.86
UV protection	No



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# Dimensions & Weight

Overall length	211.00 mm
Light center length (LCL)	132,0 mm
Diameter	47 mm
Product weight	110.00 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	0.97
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	22000 h
Lifespan B5	20000 h
Lifespan B50	36000 h

# Additional product data

Base (standard designation)	E40	
Mercury content	14.4 mg	
Design / version	Clear	
Product remark	Important: Before replacing for NAV Standard lamps in existing installations, check that the igniters are suitable	

# Capabilities

Dimmable	Yes 1)
Burning position	Any
Enclosed luminaire required	No

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

# Certificates & Standards

Energy consumption	106.00 kWh/1000h	
Country-specific categorizations		
ILCOS ST-100-H/E/SL-E40-47/210		
Order reference NAV-T 100W SUPE		
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	211.00 mm	
Height	47 mm	
Width	47 mm	
Chromaticity coordinate x	0,535	
Chromaticity coordinate y	0,420	
Beam angle correspondence	SPHERE_360	
EPREL ID	546581	
Model number	AC34373,AC34373	

# 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
PDF	User instruction / safety instructions	High Intensity Discharge Lamp UI

	Documents and certificates	Document name
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
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

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Spectral power distribution

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#### LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4050300015743	Sleeve 1	52 mm x 52 mm x 260 mm	121.00 g	0.70 dm <sup>3</sup>
4050300631806	Shipping box 12	216 mm x 166 mm x 272 mm	2262.00 g	9.75 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.