

PRODUCT DATASHEET NAV-T 600 W SUPER 4Y

VIALOX® NAV®-T SUPER 4Y® 600 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	600 W
Nominal voltage	110 V
Ignition voltage	3.6/5.0 kVp ¹⁾
Operating mode	Conventional control gear (CCG) and ignitor
Nominal current	6.06 A
PFC capacitor at 50 Hz	65 µF

1) Minimum / Maximum

Photometrical data

Luminous flux	90000 lm
Luminous efficacy	146 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
Length	285.00 mm
Light center length (LCL)	175,0 mm
Diameter	47 mm
Product weight	165.00 g

Temperatures & operating conditions

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

Lifespan

Rated lamp survival factor at 2,000 h	0.99
Rated lamp survival factor at 4,000 h	0.99
Rated lamp survival factor at 6,000 h	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	32000 h

Additional product data

Base (standard designation)	E40
Mercury content	21.6 mg
Design / version	Clear
Product remark	Not for general lighting / 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 consumption	616.00 kWh/1000h
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Country-specific categorizations


ILCOS	ST-600-H/E/SL-E40-47/285
Order reference	NAV-T 600W SUPE

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
 User instruction / safety instructions	High Intensity Discharge Lamp UI
 Declarations of conformity	EC Declaration of Conformity - 2021 9C1-4088290-EN-00 - HPS 600W
 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

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
4050300275772	Sleeve 1	52 mm x 52 mm x 325 mm	205.00 g	0.88 dm ³
4050300199979	Shipping box 12	266 mm x 216 mm x 342 mm	2850.00 g	19.65 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.