PRODUCT DATASHEET
NAV-TS 400 W FC2

VIALOX® NAV®-TS | High-pressure sodium vapor lamps for open and enclosed luminaires

Areas of application

- Industrial installations
- Car parks, courtyards
- Buildings, monuments, bridges
- Suitable for use in open and enclosed luminaires
- Outdoor applications only in suitable luminaires

Product benefits

- High luminous efficacy

Product features

- Lamp survival factor: 95 % after 12,000 h burning time

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TECHNICAL DATA

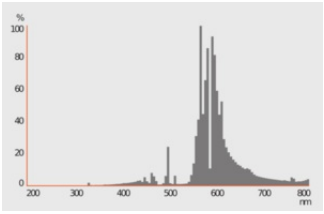
Electrical data

Nominal wattage	400 W
Construction wattage	400.00 W
Nominal voltage	105 V
Ignition voltage	4.0/5.0 kVp [1)]
Operating mode	Conventional control gear (CCG) and ignitor
Nominal current	4.45 A
PFC capacitor at 50 Hz	45 µF

1) Minimum / Maximum

Photometrical data

Luminous flux	49000 lm
Luminous efficacy	123 lm/W
Color temperature	2000 K
Color rendering index Ra	≤25
Light color	220
Rated LLMF at 2,000 h	0.97
Rated LLMF at 4,000 h	0.96
Rated LLMF at 6,000 h	0.94
Rated LLMF at 8,000 h	0.93
Rated LLMF at 12,000 h	0.91
Rated LLMF at 16,000 h	0.90
Rated LLMF at 20,000 h	0.88
Rated lamp efficacy (standard co.)	123 lm/W
UV protection	No



384084_NAV_SUPER_4Y

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Dimensions & Weight

Overall length	206.00 mm
Light center length (LCL)	103,0 mm
Diameter	23.0 mm
Product weight	62.00 g

Temperatures & operating conditions

Maximum permitted outer bulb temperature	650 °C
Maximum permitted pinch temperature	250 °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	0.97
Rated lamp survival factor at 8,000 h	0.96
Rated lamp survival factor at 12,000 h	0.95
Rated lamp survival factor at 16,000	0.90
Rated lamp survival factor at 20,000 h	0.75
Lifespan B10	16000 h
Lifespan B5	12000 h
Lifespan B50	24000 h
Operation mode LLMF/LSF	50 Hz

Additional product data

Base (standard designation)	Fc2
Mercury content	23.1 mg
Design / version	Clear

Capabilities

Dimmable	Yes [1)]
Burning position	P45
Enclosed luminaire required	No
Hot restart	Yes

1) In combination with POWERTRONIC PTo

Certificates & Standards

Energy efficiency class	E

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Energy consumption	440.00 kWh/1000h

Country-specific categorizations

ILCOS	SD-400-H/E/SL-Fc2-23/206/H
Order reference	NAV-TS 400W FC2

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)	Fc2
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	206.00 mm
Height	23.0 mm
Width	23.0 mm
Chromaticity coordinate x	0,535
Chromaticity coordinate y	0,420
Beam angle correspondence	SPHERE_360
EPREL ID	1314152
Model number	AM18161

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	High-Intensity-Discharge lamps. Operation instructions

	Photometric and lighting design files	Document name
	Spectral power distribution	384084_NAV_SUPER_4Y

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LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4050300015712	Sleeve 1	52 mm x 52 mm x 260 mm	88.00 g	0.70 dm^3
4050300216829	Shipping box 12	216 mm x 166 mm x 272 mm	1517.00 g	9.75 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.

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