

## 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



TECHNICAL DATA

Electrical data

|                        |   |
|------------------------|---|
| Nominal wattage        | 400 W                                       |
| Construction wattage   | 400.00 W                                    |
| Nominal voltage        | 105 V                                       |
| Ignition voltage       | 4.0/5.0 kVp <sup>1)</sup>                   |
| 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

### 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 <sup>1)</sup> |
| Burning position            | P45               |
| Enclosed luminaire required | No                |
| Hot restart                 | Yes               |

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

### Certificates & Standards

|                         |   |
|-------------------------|---|
| Energy efficiency class | E |
|-------------------------|---|

|                    |                  |
|--------------------|------------------|
| 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  |
|--|--|--|
|  | User instruction / safety instructions | High-Intensity-Discharge lamps. Operation instructions |

| 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               |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4050300015712 | Sleeve<br>1                  | 52 mm x 52 mm x 260 mm               | 88.00 g      | 0.70 dm <sup>3</sup> |
| 4050300216829 | Shipping box<br>12           | 216 mm x 166 mm x 272 mm             | 1517.00 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.