

## PRODUCT DATASHEET

### NAV-E 50 W/E E27

VIALOX® NAV®-E | 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

- High luminous efficacy

#### Product features

- Service lifetime: 3 years (at approx. 11 h/day)



TECHNICAL DATA

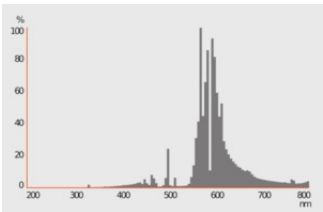
Electrical data

|                        |                                             |
|------------------------|---------------------------------------------|
| Nominal wattage        | 50 W                                        |
| Construction wattage   | 53.60 W                                     |
| Nominal voltage        | 85 V                                        |
| Ignition voltage       | 1.8/5.0 kVp <sup>1)</sup>                   |
| Operating mode         | Conventional control gear (CCG) and ignitor |
| Nominal current        | 0.77 A                                      |
| PFC capacitor at 50 Hz | 10 µF                                       |

1) Minimum / Maximum

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    | 0.91    |
| Rated LLMF at 4,000 h    | 0.89    |
| Rated LLMF at 6,000 h    | 0.84    |
| Rated LLMF at 8,000 h    | 0.83    |
| Rated LLMF at 12,000 h   | 0.82    |
| Rated LLMF at 16,000 h   | 0.81    |
| Rated LLMF at 20,000 h   | 0.80    |
| 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  | 0.99    |
| 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 | 0.91    |
| Rated lamp survival factor at 16,000   | 0.85    |
| Rated lamp survival factor at 20,000 h | 0.75    |
| Lifespan B10                           | 13000 h |
| Lifespan B5                            | 9000 h  |
| Lifespan B50                           | 28000 h |

### Additional product data

|                             |         |
|-----------------------------|---------|
| Base (standard designation) | E27     |
| Mercury content             | 10.8 mg |
| Design / version            | Coated  |

### Capabilities

|                             |                   |
|-----------------------------|-------------------|
| Dimmable                    | Yes <sup>1)</sup> |
| Burning position            | Any               |
| Enclosed luminaire required | No                |

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

### Certificates & Standards

|                         |                 |
|-------------------------|-----------------|
| Energy efficiency class | G               |
| Energy consumption      | 54.00 kWh/1000h |

### Country-specific categorizations

|                 |                         |
|-----------------|-------------------------|
| ILCOS           | SE-50-H/E/SL-E27-71/156 |
| Order reference | NAV-E 50W/E E27         |

### 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) | 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                                              | 155.00 mm       |
| Height                                              | 71 mm           |
| Width                                               | 71 mm           |
| Chromaticity coordinate x                           | 0,535           |
| Chromaticity coordinate y                           | 0,420           |
| Beam angle correspondence                           | SPHERE_360      |
| EPREL ID                                            | 546569          |
| Model number                                        | AC34361,AC34361 |

### 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 9C1-4077887-EN-00 - HPS |

| Documents and certificates                                                        |                             | Document name                                                           |
|-----------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------|
|   | 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                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4050300015750 | Round wrap<br>1              | 75 mm x 75 mm x 165 mm               | 80.00 g      | 0.93 dm <sup>3</sup>  |
| 4050300334424 | Shipping box<br>24           | 360 mm x 285 mm x 355 mm             | 1967.00 g    | 36.42 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.