PRODUCT DATASHEET
NAV-E 70 W SUPER XT

Starters for single operation at 230 V AC (ST 111, ST 171, ST 173) | Starters for single operation at 230 V AC

Areas of application

- Streets
- Outdoor lighting
- Industrial installations
- Suitable for use in open and enclosed luminaires
- Outdoor applications only in suitable luminaires
- Alternative to sodium twin arc lamps

Product benefits

- Very long lifetime
- Very high luminous efficacy
- Extended service time (lamp replacement cycle): 8 years (at approx. 11 h/day)
- Very good luminous flux maintenance throughout the life of the lamp
- Optimum energy efficiency on POWERTRONIC® PTo 3DIM ECGs

Product features

- Lamp survival rate: 95 % after 28,000 h burning time
- Lamp maintenance factor: ≥ 80 % after 24,000 h burning time (according to DIN 13201)
- Dimmable on conventional control gears and electronic control gears

TECHNICAL DATA

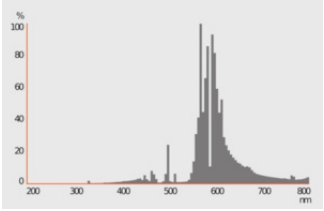
Electrical data

Nominal wattage	70 W
Construction wattage	71.00 W
Nominal voltage	85 V
Ignition voltage	1.8/5.0 kVp [1)]
Operating mode	Conventional control gear (CCG) and ignitor, Electronic control gear (ECG)
Nominal current	0.98 A
PFC capacitor at 50 Hz	12 µF

1) Minimum / Maximum

Photometrical data

Luminous flux	6600 lm
Luminous efficacy	88 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	0.91
Rated LLMF at 6,000 h	0.90
Rated LLMF at 8,000 h	0.89
Rated LLMF at 12,000 h	0.89
Rated LLMF at 16,000 h	0.88
Rated LLMF at 20,000 h	0.86
Rated lamp efficacy (standard co.)	93 lm/W
UV protection	No



384084_NAV_SUPER_4Y

Dimensions & Weight

Overall length	156.00 mm
Diameter	71.00 mm
Product weight	68.00 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	0.99
Rated lamp survival factor at 6,000 h	0.99
Rated lamp survival factor at 8,000 h	0.99
Rated lamp survival factor at 12,000 h	0.99
Rated lamp survival factor at 16,000	0.99
Rated lamp survival factor at 20,000 h	0.98
Lifespan B10	34000 h
Lifespan B5	26000 h
Lifespan B50	44000 h
Operation mode LLMF/LSF	50 Hz

Additional product data

Base (standard designation)	E27
Mercury content	19.0 mg
Design / version	Coated
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
Hot restart	No

1) In combination with POWERTRONIC PTo

Certificates & Standards

Energy efficiency class	A+
Energy consumption	77.00 kWh/1000h

Country-specific categorizations

ILCOS	SE-70-H/E/SL-E27-71/156
Order reference	NAV-E 70WSUPER

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	156.00 mm
Height	71.00 mm
Width	71.00 mm
Chromaticity coordinate x	0,535
Chromaticity coordinate y	0,420
Beam angle correspondence	SPHERE_360

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	High Intensity Discharge Lamp UI
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

	Documents and certificates	Document name
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
	Spectral power distribution	384084_NAV_SUPER_4Y

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.