

PRODUCT FAMILY DATASHEET

VIALOX NAV-E SUPER XT

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
- 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
- Very long average lifetime: up to 48,000 h
- Lamp maintenance factor: ≥ 80 % after 24,000 h burning time (according to DIN 13201)
- ErP compliant according to EU Regulation 245/2009
- Dimmable on conventional control gears and electronic control gears



TECHNICAL DATA

Product description	Electrical data					Photometrical data						
	Rated wattage	Lamp current	Nominal wattage	Nominal voltage	Ignition voltage	Rated luminous flux	Color temperature	Rated LLMF at 2,000 h	Rated LLMF at 4,000 h	Rated LLMF at 6,000 h	Rated LLMF at 8,000 h	Rated LLMF at 12,000 h
NAV-E 50 W SUPER XT ¹⁾	52.00 W	0.75 A	50.00 W	86 V	1.8 / 5.0 kVp ²⁾	4200 lm	2000 K	0.94	0.92	0.90	0.87	0.86
NAV-E 70 W SUPER XT ¹⁾	71.00 W	0.98 A	70.00 W	85 V	1.8 / 5.0 kVp ²⁾	6600 lm	2000 K					
NAV-E 100 W SUPER XT ¹⁾	100.00 W	1.2 A	100.00 W	100 V	3.3 / 5.0 kVp ²⁾	10400 lm	2000 K					
NAV-E 150 W SUPER XT ¹⁾	152.00 W	1.8 A	150.00 W	100 V	3.3 / 5.0 kVp ²⁾	17600 lm	2000 K	0.98	0.97	0.96	0.95	0.94
NAV-E 250 W SUPER XT ¹⁾	255.00 W	2.95 A	250.00 W	100 V	3.3 / 5.0 kVp ²⁾	31600 lm	2000 K					
NAV-E 400 W SUPER XT ¹⁾	410.00 W	4.42 A	400.00 W	105 V	3.3 / 5.0 kVp ²⁾	56500 lm	2000 K	0.98	0.97	0.96	0.95	0.94

Product description					Dimensions & weight			Temperatures & operating conditions		Lifespan		
	Rated LLMF at 16,000 h	Rated LLMF at 20,000 h	Luminous flux	Color rendering index Ra	Diameter	Length	Product weight	Max. permitted outer bulb temperature	Max. permitted edge temperature	Rated lamp survival factor at 2,000 h	Rated lamp survival factor at 4,000 h	Rated lamp survival factor at 6,000 h
NAV-E 50 W SUPER XT ¹⁾	0.84	0.83	4200 lm	≤25	71.0 mm	156.0 mm	68.00 g	310 °C	210 °C	0.99	0.99	0.99
NAV-E 70 W SUPER XT ¹⁾			6600 lm	≤25	71.0 mm	156.0 mm	52.00 g	310 °C	210 °C			
NAV-E 100 W SUPER XT ¹⁾			10400 lm	≤25	76.0 mm	183.0 mm	80.00 g	310 °C	210 °C			
NAV-E 150 W SUPER XT ¹⁾	0.94	0.94	17600 lm	≤25	76.0 mm	214.0 mm	101.00 g	310 °C	210 °C	0.99	0.99	0.99
NAV-E 250 W SUPER XT ¹⁾			31600 lm	≤25	91.0 mm	226.0 mm	164.00 g	400 °C	250 °C			
NAV-E 400 W SUPER XT ¹⁾	0.94	0.94	56500 lm	≤25	122.0 mm	290.0 mm	222.00 g	400 °C	250 °C	0.99	0.99	0.99

Product description									Additional product data			Capabilities
	Rated lamp survival factor at 8,000 h	Rated lamp survival factor at 12,000 h	Rated lamp survival factor at 16,000 h	Rated lamp survival factor at 20,000 h	Lifespan B5	Lifespan B50	Lifespan B10	Operation mode LLMF/LSF	Base (standard designation)	Design / version	Mercury content	Dimmable
NAV-E 50 W SUPER XT ¹⁾	0.99	0.99	0.98	0.96	22000 h	40000 h	30000 h	50 Hz	E27	Coated	14.3 mg	Yes ³⁾
NAV-E 70 W SUPER XT ¹⁾					26000 h	44000 h	34000 h		E27	Coated	13.1 mg	Yes ³⁾
NAV-E 100 W SUPER XT ¹⁾					28000 h	48000 h	34000 h		E40	Coated	18.7 mg	Yes ³⁾

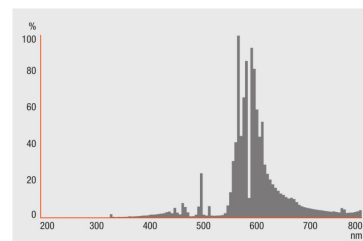
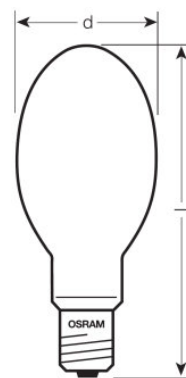
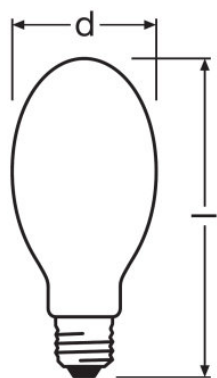
Product description	Rated lamp survival factor at 8,000 h	Rated lamp survival factor at 12,000 h	Rated lamp survival factor at 16,000 h	Rated lamp survival factor at 20,000 h	Lifespan B5	Lifespan B50	Lifespan B10	Operation mode LLMF/LSF	Additional product data			Capabilities
									Base (standard designation)	Design / version	Mercury content	Dimmable
NAV-E 150 W SUPER XT ¹⁾	0.99	0.99	0.99	0.99	28000 h	48000 h	34000 h	50 Hz	E40	Coated	24.0 mg	Yes ³⁾
NAV-E 250 W SUPER XT ¹⁾					28000 h	48000 h	34000 h		E40	Coated	20.9 mg	Yes ³⁾
NAV-E 400 W SUPER XT ¹⁾	0.99	0.99	0.99	0.98	28000 h	48000 h	34000 h	50 Hz	E40	Coated	24.0 mg	Yes

Product description	Burning position	Enclosed luminaire required	Certificates & standards	Country-specific categorizations
			Energy consumption	ILCOS
NAV-E 50 W SUPER XT ¹⁾	Any	No	58 kWh/1000h	SE-50-H/E/SL-E27-71/156
NAV-E 70 W SUPER XT ¹⁾	Any	No		SE-70-H/E/SL-E27-71/156
NAV-E 100 W SUPER XT ¹⁾	Any	No		SE-100-H/E/SL-E40-76/183
NAV-E 150 W SUPER XT ¹⁾	Any	No	168 kWh/1000h	SE-150-H/E/SL-E40-91/226
NAV-E 250 W SUPER XT ¹⁾	Any	No		SE-250-H/E/SL-E40-91/226
NAV-E 400 W SUPER XT ¹⁾	Any	No	451 kWh/1000h	SE-400-H/E/SL-E40-122/290

¹⁾ Important: Before replacing for NAV Standard lamps in existing installations, check that the igniters are suitable

²⁾ Minimum

³⁾ In combination with POWERTRONIC PTo



NAV-E 50 W SUPER XT, NAV-E 70 W SUPER XT

NAV-E 100 W SUPER XT, NAV-E 150 W SUPER XT, NAV-E 250 W SUPER XT, NAV-E 400 W SUPER XT

NAV-E 50 W SUPER XT, NAV-E 70 W SUPER XT, NAV-E 100 W SUPER XT, NAV-E 250 W SUPER XT, NAV-E 400 W SUPER XT

APPLICATION ADVICE

For more detailed application information and graphics please see product datasheet.

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075803787	Shipping carton box 24	360 mm x 285 mm x 355 mm	2300.00 g	36.42 dm ³
4058075803718	Shipping carton box 24	360 mm x 285 mm x 355 mm	2328.00 g	36.42 dm ³
4058075803725	Shipping carton box 12	380 mm x 300 mm x 203 mm	1681.00 g	23.14 dm ³
4058075803732	Shipping carton box 12	371 mm x 291 mm x 242 mm	1746.00 g	26.13 dm ³

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075803794	Shipping carton box 12	426 mm x 331 mm x 252 mm	2932.00 g	35.53 dm ³
4058075803800	Shipping carton box 12	541 mm x 416 mm x 317 mm	3758.00 g	71.34 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.

REFERENCES / LINKS

For more information on the system guarantee and the terms and conditions of the guarantee visit

▶ www.ledvance.com/system-guarantee

DISCLAIMER

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