

PRODUCT FAMILY DATASHEET

VIALOX NAV-T 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 lamp efficacy (standard condition)	Rated luminous flux	Color temperature	Rated LLMF at 2,000 h	Rated LLMF at 4,000 h	Rated LLMF at 6,000 h
NAV-T 50 W SUPER XT ¹⁾	52.00 W	0.75 A	50.00 W	86 V	1.8 / 5.0 kVp ²⁾	81 lm/W	4200 lm	2000 K	0.94	0.92	0.90
NAV-T 70 W SUPER XT ¹⁾	71.00 W	0.97 A	70.00 W	87 V	1.8 / 5.0 kVp ²⁾		6600 lm	2000 K			
NAV-T 100 W SUPER XT ¹⁾	100.00 W	1.2 A	100.00 W	100 V	3.3 / 5.0 kVp ²⁾	107 lm/W	10700 lm	2000 K	0.94	0.92	0.90
NAV-T 150 W SUPER XT ¹⁾	152.00 W	1.8 A	150.00 W	100 V	3.3 / 5.0 kVp ²⁾	118 lm/W	18000 lm	2000 K	0.98	0.97	0.96
NAV-T 250 W SUPER XT ¹⁾	255.00 W	2.95 A	250.00 W	100 V	3.3 / 5.0 kVp ²⁾	130 lm/W	33200 lm	2000 K	0.98	0.97	0.96
NAV-T 400 W SUPER XT ¹⁾	400.00 W	4.52 A	400.00 W	100 V	3.3 / 5.0 kVp ²⁾	141 lm/W	56500 lm	2000 K	0.98	0.97	0.95
NAV-T 600 W SUPER XT ¹⁾	600.00 W	6.06 A	600.00 W	110 V	3.6 / 5.0 kVp ²⁾	150 lm/W	90000 lm	2000 K	0.98	0.97	0.95

Product description	Rated LLMF at 8,000 h	Rated LLMF at 12,000 h	Rated LLMF at 16,000 h	Rated LLMF at 20,000 h	Luminous flux	Color rendering index Ra	Dimensions & weight				Temperatures & operating conditions	
							Diameter	Length	Light center length (LCL)	Product weight	Max. permitted outer bulb temperature	Max. permitted edge temperature
NAV-T 50 W SUPER XT ¹⁾	0.87	0.86	0.84	0.83	4200 lm	≤25	36.0 mm	156.0 mm	104.0 mm	62.00 g	310 °C	210 °C
NAV-T 70 W SUPER XT ¹⁾					6600 lm	≤25	38.0 mm	156.0 mm	104.0 mm	71.00 g	310 °C	210 °C
NAV-T 100 W SUPER XT ¹⁾	0.89	0.88	0.87	0.86	10700 lm	≤25	47.0 mm	210.0 mm	132.0 mm	108.00 g	310 °C	210 °C
NAV-T 150 W SUPER XT ¹⁾	0.95	0.94	0.94	0.94	18000 lm	≤25	47.0 mm	210.0 mm	132.0 mm	130.00 g	310 °C	210 °C
NAV-T 250 W SUPER XT ¹⁾	0.95	0.94	0.94	0.94	33200 lm	≤25	47.0 mm	257.0 mm	158.0 mm	152.00 g	400 °C	250 °C
NAV-T 400 W SUPER XT ¹⁾	0.94	0.94	0.94	0.94	56500 lm	≤25	47.0 mm	285.0 mm	175.0 mm	162.00 g	400 °C	250 °C
NAV-T 600 W SUPER XT ¹⁾	0.94	0.94	0.94	0.94	90000 lm	≤25	47.0 mm	285.0 mm	175.0 mm	172.00 g	400 °C	250 °C

Product description	Lifespan							Additional product data					
	Rated lamp survival factor at 2,000 h	Rated lamp survival factor at 4,000 h	Rated lamp survival factor at 6,000 h	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
NAV-T 50 W SUPER XT ¹⁾	0.99	0.99	0.99	0.99	0.99	0.98	0.96	22000 h	40000 h	30000 h	50 Hz	E27	Clear

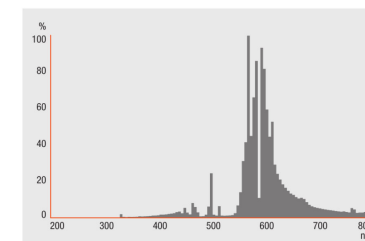
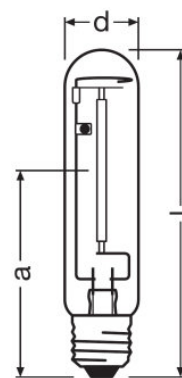
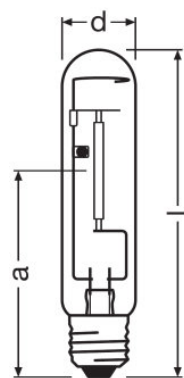
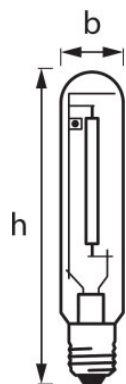
Product description	Lifespan								Additional product data				
	Rated lamp survival factor at 2,000 h	Rated lamp survival factor at 4,000 h	Rated lamp survival factor at 6,000 h	Rated lamp survival factor at 8,000 h	Rated lamp survival factor at 12,000 h	Rated lamp survival factor at 16,000 h	Rated lamp survival factor at 20,000 h	Lifespan B5	Lifespan B50	Lifespan B10	Operation mode LLMF/LSF	Base (standard designation)	Design / version
NAV-T 70 W SUPER XT ¹⁾								26000 h	44000 h	34000 h		E27	Clear
NAV-T 100 W SUPER XT ¹⁾	0.99	0.99	0.99	0.99	0.99	0.99	0.99	28000 h	48000 h	34000 h	50 Hz	E40	Clear
NAV-T 150 W SUPER XT ¹⁾	0.99	0.99	0.99	0.99	0.99	0.99	0.99	28000 h	48000 h	34000 h	50 Hz	E40	Clear
NAV-T 250 W SUPER XT ¹⁾	0.99	0.99	0.99	0.99	0.99	0.99	0.99	28000 h	48000 h	34000 h	50 Hz	E40	Clear
NAV-T 400 W SUPER XT ¹⁾	0.99	0.99	0.99	0.99	0.99	0.99	0.99	28000 h	48000 h	34000 h	50 Hz	E40	Clear
NAV-T 600 W SUPER XT ¹⁾	0.99	0.99	0.99	0.98	0.97	0.96	0.96	24000 h	48000 h	28000 h	50 Hz	E40	Clear

Product description	Mercury content	Capabilities			Certificates & standards	Country-specific categorizations
		Dimmable	Burning position	Enclosed luminaire required	Energy consumption	ILCOS
NAV-T 50 W SUPER XT ¹⁾	14.3 mg	Yes ³⁾	Any	No	58 kWh/1000h	ST-50-H/E/SL-E27-39/156
NAV-T 70 W SUPER XT ¹⁾	13.1 mg	Yes ³⁾	Any	No		ST-70-H/E/SL-E27-39/156
NAV-T 100 W SUPER XT ¹⁾	19.0 mg	Yes ³⁾	Any	No	110 kWh/1000h	ST-100-H/E/SL-E40-47/210
NAV-T 150 W SUPER XT ¹⁾	24.0 mg	Yes ³⁾	Any	No	168 kWh/1000h	ST-150-H/E/SL-E40-47/210
NAV-T 250 W SUPER XT ¹⁾	24.0 mg	Yes ³⁾	Any	No	281 kWh/1000h	ST-250-H/E/SL-E40-47/257
NAV-T 400 W SUPER XT ¹⁾	24.0 mg	Yes	Any	No	440 kWh/1000h	ST-400-H/E/SL-E40-47/285
NAV-T 600 W SUPER XT ¹⁾	24.0 mg	Yes	Any	No	660 kWh/1000h	ST-600-H/E/SL-E40-47/285

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

NAV-T 100 W SUPER XT

NAV-T 150 W SUPER XT, NAV-T 250 W SUPER XT, NAV-T 400 W SUPER XT, NAV-T 600 W SUPER XT

NAV-T 70 W SUPER XT, NAV-T 100 W SUPER XT, NAV-T 150 W SUPER XT, NAV-T 250 W SUPER XT, NAV-T 400 W SUPER XT, NAV-T 600 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
4058075803770	Shipping carton box 12	168 mm x 130 mm x 212 mm	996.00 g	4.63 dm ³
4058075803688	Shipping carton box 12	168 mm x 130 mm x 212 mm	986.00 g	4.63 dm ³
4058075803695	Shipping carton box 12	216 mm x 166 mm x 272 mm	1598.00 g	9.75 dm ³
4058075803701	Shipping carton box 12	216 mm x 166 mm x 272 mm	2004.00 g	9.75 dm ³

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075803749	Shipping carton box 12	266 mm x 216 mm x 342 mm	2508.00 g	19.65 dm ³
4058075803756	Shipping carton box 12	266 mm x 216 mm x 342 mm	2395.00 g	19.65 dm ³
4058075803763	Shipping carton box 12	266 mm x 216 mm x 342 mm	2748.00 g	19.65 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

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