

# PRODUCT FAMILY DATASHEET

## VIALOX NAV-T SUPER 4Y

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

- Long lifetime
- Very high luminous efficacy
- Very good luminous flux maintenance throughout the life of the lamp
- Energy savings of up to 50 % when replacing mercury vapor lamps (HQL)
- Optimum energy efficiency on POWERTRONIC PTo 3DIM ECGs

---

### PRODUCT FEATURES

- Lamp survival factor: 95 % after 16,000 h burning time
- Average lifetime: up to 36,000 h
- Lamp maintenance factor:  $\geq 80$  % after 16,000 h burning time (according to DIN 13201)
- Service lifetime: 4 years (at approx. 11 h/day)
- 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 4Y <sup>1)</sup>	52.00 W	0.75 A	50.00 W	86 V	1.8 / 5.0 kVp <sup>2)</sup>	81 lm/W	4200 lm	2000 K	0.92	0.90	0.88
NAV-T 70 W SUPER 4Y <sup>1)</sup>	71.00 W	0.98 A	70.00 W	90 V	1.8 / 5.0 kVp <sup>2)</sup>	93 lm/W	6600 lm	2000 K	0.92	0.91	0.90
NAV-T 100 W SUPER 4Y <sup>1)</sup>	100.00 W	1.2 A	100.00 W	100 V	3.3 / 5.0 kVp <sup>2)</sup>	107 lm/W	10700 lm	2000 K	0.94	0.92	0.90
NAV-T 150 W SUPER 4Y <sup>1)</sup>	152.00 W	1.8 A	150.00 W	100 V	3.3 / 5.0 kVp <sup>2)</sup>	115 lm/W	17500 lm	2000 K	0.98	0.97	0.96
NAV-T 250 W SUPER 4Y <sup>1)</sup>	255.00 W	2.95 A	250.00 W	100 V	3.3 / 5.0 kVp <sup>2)</sup>	130 lm/W	33200 lm	2000 K	0.98	0.97	0.96
NAV-T 400 W SUPER 4Y <sup>1)</sup>	400.00 W	4.52 A	400.00 W	100 V	3.3 / 5.0 kVp <sup>2)</sup>	141 lm/W	56500 lm	2000 K	0.98	0.97	0.96
NAV-T 600 W SUPER 4Y <sup>1)</sup>	600.00 W	6.06 A	600.00 W	110 V	3.6 / 5.0 kVp <sup>2)</sup>	150 lm/W	90000 lm	2000 K	0.98	0.97	0.96

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 4Y <sup>1)</sup>	0.86	0.84	0.83	0.79	4200 lm	≤25	36.0 mm	156.0 mm	104.0 mm	72.00 g	310 °C	210 °C
NAV-T 70 W SUPER 4Y <sup>1)</sup>	0.89	0.88	0.86	0.85	6600 lm	≤25	36.0 mm	156.0 mm	104.0 mm	71.00 g	310 °C	210 °C
NAV-T 100 W SUPER 4Y <sup>1)</sup>	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 4Y <sup>1)</sup>	0.95	0.94	0.94	0.94	17500 lm	≤25	47.0 mm	210.0 mm	132.0 mm	145.00 g	310 °C	210 °C
NAV-T 250 W SUPER 4Y <sup>1)</sup>	0.95	0.94	0.94	0.94	33200 lm	≤25	47.0 mm	257.0 mm	158.0 mm	165.00 g	400 °C	250 °C
NAV-T 400 W SUPER 4Y <sup>1)</sup>	0.95	0.94	0.94	0.94	56500 lm	≤25	47.0 mm	285.0 mm	175.0 mm	171.00 g	400 °C	250 °C
NAV-T 600 W SUPER 4Y <sup>1)</sup>	0.95	0.94	0.94	0.94	90000 lm	≤25	47.0 mm	285.0 mm	175.0 mm	187.00 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 B50	Lifespan B10	Lifespan B5	Operation mode LLMF/LSF	Base (standard designation)	Design / version
NAV-T 50 W SUPER 4Y <sup>1)</sup>	0.99	0.98	0.98	0.97	0.96	0.95	0.85	28000 h	18000 h	16000 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 B50	Lifespan B10	Lifespan B5	Operation mode LLMF/LSF	Base (standard designation)	Design / version
NAV-T 70 W SUPER 4Y <sup>1)</sup>	0.99	0.98	0.98	0.97	0.96	0.95	0.90	30000 h	20000 h	16000 h	50 Hz	E27	Clear
NAV-T 100 W SUPER 4Y <sup>1)</sup>	0.99	0.98	0.98	0.97	0.97	0.96	0.95	36000 h	22000 h	20000 h	50 Hz	E40	Clear
NAV-T 150 W SUPER 4Y <sup>1)</sup>	0.99	0.99	0.98	0.98	0.97	0.96	0.95	36000 h	24000 h	20000 h	50 Hz	E40	Clear
NAV-T 250 W SUPER 4Y <sup>1)</sup>	0.99	0.99	0.98	0.98	0.97	0.96	0.95	36000 h	24000 h	20000 h	50 Hz	E40	Clear
NAV-T 400 W SUPER 4Y <sup>1)</sup>	0.99	0.99	0.98	0.98	0.97	0.96	0.95	36000 h	24000 h	20000 h	50 Hz	E40	Clear
NAV-T 600 W SUPER 4Y <sup>1)</sup>	0.99	0.99	0.98	0.98	0.97	0.96	0.95	32000 h	24000 h	20000 h	50 Hz	E40	Clear

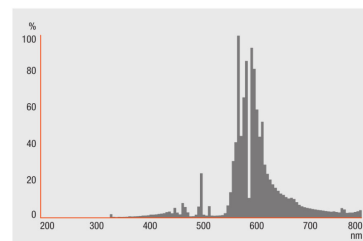
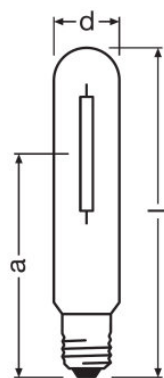
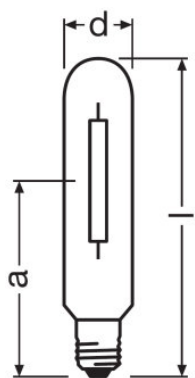
Product description	System guarantee level	Mercury content	Capabilities			Certificates & standards	Country-specific categorizations
			Dimmable	Burning position	Enclosed luminaire required	Energy consumption	ILCOS
NAV-T 50 W SUPER 4Y <sup>1)</sup>	3 (2/5)	9.8 mg <sup>3)</sup>	Yes <sup>4)</sup>	Any	No	58 kWh/1000h	ST-50-H/E/SL-E27-39/156
NAV-T 70 W SUPER 4Y <sup>1)</sup>	3 (2/5)	10.0 mg <sup>3)</sup>	Yes <sup>4)</sup>	Any	No	82 kWh/1000h	ST-70-H/E/SL-E27-39/156
NAV-T 100 W SUPER 4Y <sup>1)</sup>	3 (2/5)	18.7 mg	Yes <sup>4)</sup>	Any	No	110 kWh/1000h	ST-100-H/E/SL-E40-47/210
NAV-T 150 W SUPER 4Y <sup>1)</sup>	3 (2/5)	18.8 mg	Yes <sup>4)</sup>	Any	No	168 kWh/1000h	ST-150-H/E/SL-E40-47/210
NAV-T 250 W SUPER 4Y <sup>1)</sup>	3 (2/5)	18.8 mg	Yes <sup>4)</sup>	Any	No	281 kWh/1000h	ST-250-H/E/SL-E40-47/257
NAV-T 400 W SUPER 4Y <sup>1)</sup>	3 (2/5)	18.8 mg	Yes	Any	No	440 kWh/1000h	ST-400-H/E/SL-E40-47/285
NAV-T 600 W SUPER 4Y <sup>1)</sup>	3 (2/5)	19.6 mg	Yes	Any	No	660 kWh/1000h	ST-600-H/E/SL-E40-47/285

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

<sup>2)</sup> Minimum

<sup>3)</sup> Maximum

<sup>4)</sup> In combination with POWERTRONIC PTo



NAV-T 50 W SUPER 4Y, NAV-T 70 W SUPER 4Y

NAV-T 100 W SUPER 4Y, NAV-T 150 W SUPER 4Y, NAV-T 250 W SUPER 4Y, NAV-T 400 W SUPER 4Y, NAV-T 600 W SUPER 4Y

NAV-T 50 W SUPER 4Y, NAV-T 70 W SUPER 4Y, NAV-T 100 W SUPER 4Y, NAV-T 150 W SUPER 4Y, NAV-T 250 W SUPER 4Y, NAV-T 400 W SUPER 4Y, NAV-T 600 W SUPER 4Y

**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
4052899415386	Shipping carton box 12	168 mm x 130 mm x 212 mm	1182.00 g	4.63 dm <sup>3</sup>
4052899415423	Shipping carton box 12	168 mm x 130 mm x 212 mm	1164.00 g	4.63 dm <sup>3</sup>
4050300631806	Shipping carton box 12	247 mm x 270 mm x 220 mm	2262.00 g	14.67 dm <sup>3</sup>

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4050300631790	Shipping carton box 12	245 mm x 266 mm x 200 mm	2043.00 g	13.03 dm <sup>3</sup>
4050300631783	Shipping carton box 12	241 mm x 324 mm x 200 mm	2588.00 g	15.62 dm <sup>3</sup>
4050300199962	Shipping carton box 12	267 mm x 345 mm x 224 mm	2694.00 g	20.63 dm <sup>3</sup>
4050300199979	Shipping carton box 12	266 mm x 216 mm x 342 mm	2850.00 g	19.65 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.

---

#### REFERENCES / LINKS

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

▶ [www.ledvance.com/system-guarantee](http://www.ledvance.com/system-guarantee)

---

#### DISCLAIMER

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