

## 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 life time
- Very high luminous efficacy
- Very good luminous flux maintenance throughout the life of the lamp
- Energy savings of up to 50 % when replacing inefficient mercury vapor lamps (HQL)
- Optimum energy efficiency on POWERTRONIC PTo 3DIM ECGs
- Dimmable on conventional control gears and electronic control gears

### Product features

- Lamp survival factor: 95 % after 16,000 hours burning time
- Average lifetime: up to 32,000 hours
- 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 Directive 245/2009



# Product family datasheet

## Technical data

Product description	Electrical data					Photometrical data					
	Nominal wattage	Nominal voltage	Lamp current	Rated wattage	Ignition voltage	Color rendering index Ra	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-T 50 W SUPER 4Y <sup>1)</sup>	50.00 W	86 V	0.75000 A	52.00 W	1.8 / 5.0 kVp <sup>2)</sup>	≤25	0.92	0.90	0.88	0.86	0.84
NAV-T 70 W SUPER 4Y <sup>1)</sup>	70.00 W	90 V	0.97000 A	71.00 W	1.8 / 5.0 kVp <sup>2)</sup>	≤25	0.92	0.91	0.90	0.89	0.88
NAV-T 100 W SUPER 4Y <sup>1)</sup>	100.00 W	100 V	1.20000 A	100.00 W	3.3 / 5.0 kVp <sup>2)</sup>	≤25	0.94	0.92	0.90	0.89	0.88
NAV-T 150 W SUPER 4Y <sup>1)</sup>	150.00 W	100 V	1.78000 A		3.3 / 5.0 kVp <sup>2)</sup>	≤25	0.98	0.97	0.96	0.95	0.94
NAV-T 250 W SUPER 4Y <sup>1)</sup>	250.00 W	100 V	2.95000 A	255.00 W	3.3 / 5.0 kVp <sup>2)</sup>	≤25	0.98	0.97	0.96	0.95	0.94
NAV-T 400 W SUPER 4Y <sup>1)</sup>	400.00 W	100 V	4.52000 A	400.00 W	3.3 / 5.0 kVp <sup>2)</sup>	≤25	0.98	0.97	0.96	0.95	0.94
NAV-T 600 W SUPER 4Y <sup>1)</sup>	600.00 W	110 V	6.06000 A	600.00 W	3.6 / 5.0 kVp <sup>2)</sup>	≤25	0.98	0.97	0.96	0.95	0.94

Product description	Rated LLMF		Dimensions & weight			Temperatures	Lifespan	Rated lamp survival factor				
	at 16,000 h	at 20,000 h	Diameter	Light center length (LCL)	Product weight	Max. permitted outer bulb temperature	Lifespan B50	at 2,000 h	at 4,000 h	at 6,000 h	at 8,000 h	at 12,000 h
NAV-T 50 W SUPER 4Y <sup>1)</sup>	0.83	0.79	39.0 mm	104.0 mm	70.00 g	310 °C	28000 h	0.99	0.98	0.98	0.97	0.96
NAV-T 70 W SUPER 4Y <sup>1)</sup>	0.86	0.85	39.0 mm	104.0 mm	52.00 g	310 °C	28000 h	0.99	0.98	0.98	0.97	0.96
NAV-T 100 W SUPER 4Y <sup>1)</sup>	0.87	0.86	47.0 mm	132.0 mm	103.00 g	310 °C	32000 h	0.99	0.98	0.98	0.97	0.97
NAV-T 150 W SUPER 4Y <sup>1)</sup>	0.94	0.94	47.0 mm	132.0 mm	127.00 g	310 °C	32000 h	0.99	0.99	0.98	0.98	0.97
NAV-T 250 W SUPER 4Y <sup>1)</sup>	0.94	0.94	47.0 mm	158.0 mm	148.00 g	400 °C	32000 h	0.99	0.99	0.98	0.98	0.97
NAV-T 400 W SUPER 4Y <sup>1)</sup>	0.94	0.94	47.0 mm	175.0 mm	174.00 g	400 °C	32000 h	0.99	0.99	0.98	0.98	0.97
NAV-T 600 W SUPER 4Y <sup>1)</sup>	0.94	0.94	47.0 mm	175.0 mm	187.00 g	400 °C	32000 h	0.99	0.99	0.98	0.98	0.97

## Product family datasheet

Product description	Rated lamp survival factor at 16,000 h	Rated lamp survival factor at 20,000 h	Operation mode LLMF/LSF	Additional product data				Capabilities		
				Base (standard designation)	Design / version	Lamp mercury content	System guarantee level	Burning position	Enclosed luminaire required	Dimmable
NAV-T 50 W SUPER 4Y <sup>1)</sup>	0.95	0.85	50 Hz	E27	Clear	19.0 mg <sup>3)</sup>	3 (2/5)	Any	No	Yes <sup>4)</sup>
NAV-T 70 W SUPER 4Y <sup>1)</sup>	0.95	0.90	50 Hz	E27	Clear	19.0 mg <sup>3)</sup>	3 (2/5)	Any	No	Yes <sup>4)</sup>
NAV-T 100 W SUPER 4Y <sup>1)</sup>	0.96	0.95	50 Hz	E40	Clear	19.0 mg	3 (2/5)	Any	No	Yes <sup>4)</sup>
NAV-T 150 W SUPER 4Y <sup>1)</sup>	0.96	0.95	50 Hz	E40	Clear	24.0 mg	3 (2/5)	Any	No	Yes <sup>4)</sup>
NAV-T 250 W SUPER 4Y <sup>1)</sup>	0.96	0.95	50 Hz	E40	Clear	24.0 mg	3 (2/5)	Any	No	Yes <sup>4)</sup>
NAV-T 400 W SUPER 4Y <sup>1)</sup>	0.96	0.95	50 Hz	E40	Clear	24.0 mg	3 (2/5)	Any	No	Yes
NAV-T 600 W SUPER 4Y <sup>1)</sup>	0.96	0.95	50 Hz	E40	Clear	24.0 mg	3 (2/5)	Any	No	Yes

Product description	Certificates & standards		Country specific categorizations
	Energy efficiency class	Energy consumption	ILCOS
NAV-T 50 W SUPER 4Y <sup>1)</sup>	A	58 kWh/1000h	ST-50-H/E/SL-E27-39/156
NAV-T 70 W SUPER 4Y <sup>1)</sup>	A+	79 kWh/1000h	ST-70-H/E/SL-E27-39/156
NAV-T 100 W SUPER 4Y <sup>1)</sup>	A+	110 kWh/1000h	ST-100-H/E/SL-E40-47/210
NAV-T 150 W SUPER 4Y <sup>1)</sup>	A+	168 kWh/1000h	ST-150-H/E/SL-E40-47/210
NAV-T 250 W SUPER 4Y <sup>1)</sup>	A+	281 kWh/1000h	ST-250-H/E/SL-E40-47/257
NAV-T 400 W SUPER 4Y <sup>1)</sup>	A++	440 kWh/1000h	ST-400-H/E/SL-E40-47/285
NAV-T 600 W SUPER 4Y <sup>1)</sup>	A++	660 kWh/1000h	ST-600-H/E/SL-E40-47/285

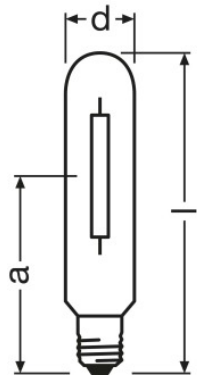
<sup>1)</sup> Important: Before replacing for NAV Standard lamps in existing installations, check that the igniters are suitable

<sup>2)</sup> Minimum

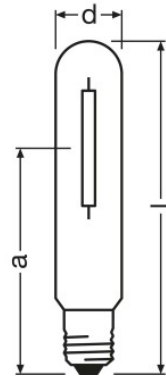
<sup>3)</sup> maximum

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

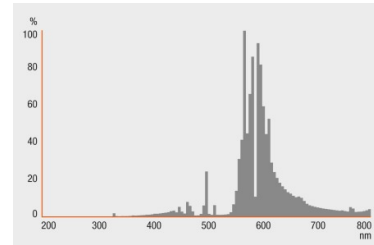
## Product family datasheet



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	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4050300024325	NAV-T 50 W SUPER 4Y	Shipping carton box 12	225 mm x 220 mm x 188 mm	9.31 dm <sup>3</sup>	1041.50 g

## Product family datasheet

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4050300015736	NAV-T 70 W SUPER 4Y	Shipping carton box 12	225 mm x 218 mm x 185 mm	9.07 dm <sup>3</sup>	1057.40 g
4050300015743	NAV-T 100 W SUPER 4Y	Shipping carton box 12	247 mm x 270 mm x 220 mm	14.67 dm <sup>3</sup>	2262.00 g
4050300024400	NAV-T 150 W SUPER 4Y	Shipping carton box 12	245 mm x 266 mm x 200 mm	13.03 dm <sup>3</sup>	2043.00 g
4050300024417	NAV-T 250 W SUPER 4Y	Shipping carton box 12	241 mm x 324 mm x 200 mm	15.62 dm <sup>3</sup>	2588.00 g
4050300281179	NAV-T 400 W SUPER 4Y	Shipping carton box 12	267 mm x 345 mm x 224 mm	20.63 dm <sup>3</sup>	2694.00 g
4050300275772	NAV-T 600 W SUPER 4Y	Shipping carton box 12	266 mm x 345 mm x 221 mm	20.28 dm <sup>3</sup>	2850.00 g

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.

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### References / Links

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

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

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### Disclaimer

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