

# 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



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### Technical data

Product description	Electrical data		Photometrical data			
	Nominal wattage	Nominal voltage	Rated luminous flux	Color rendering index Ra	Color temperature	Rated LLMF at 20,000 h
NAV-T 50 W SUPER 4Y <sup>1)</sup>	50.00 W	86 V	4200 lm	≤25	2000 K	0.79
NAV-T 70 W SUPER 4Y <sup>1)</sup>	70.00 W	90 V	6600 lm	≤ 20	2000 K	0.85
NAV-T 100 W SUPER 4Y <sup>1)</sup>	100.00 W	100 V	10700 lm	≤25	2000 K	0.86
NAV-T 150 W SUPER 4Y <sup>1)</sup>	150.00 W	100 V	17500 lm	≤25	2000 K	0.94
NAV-T 250 W SUPER 4Y <sup>1)</sup>	250.00 W	100 V	33200 lm	≤25	2000 K	0.94
NAV-T 400 W SUPER 4Y <sup>1)</sup>	400.00 W	100 V	56500 lm	≤25	2000 K	0.94
NAV-T 600 W SUPER 4Y <sup>1)</sup>	600.00 W	110 V	90000 lm	≤25	2000 K	0.94

Product description	Dimensions & weight		Temperatures & operating conditions		Lifespan	
	Diameter	Light center length (LCL)	Maximum permitted outer bulb temperature	Maximum permitted base edge temperature	Lifespan B50	Lifespan B10
NAV-T 50 W SUPER 4Y <sup>1)</sup>	36.0 mm	104.0 mm	310 °C	210 °C	28000 h	18000 h
NAV-T 70 W SUPER 4Y <sup>1)</sup>	36.0 mm	104.0 mm	310 °C	210 °C	30000 h	20000 h
NAV-T 100 W SUPER 4Y <sup>1)</sup>	47.0 mm	132.0 mm	310 °C	210 °C	36000 h	22000 h
NAV-T 150 W SUPER 4Y <sup>1)</sup>	47.0 mm	132.0 mm	310 °C	210 °C	36000 h	24000 h
NAV-T 250 W SUPER 4Y <sup>1)</sup>	47.0 mm	158.0 mm	400 °C	250 °C	36000 h	24000 h
NAV-T 400 W SUPER 4Y <sup>1)</sup>	47.0 mm	175.0 mm	400 °C	250 °C	36000 h	24000 h
NAV-T 600 W SUPER 4Y <sup>1)</sup>	47.0 mm	175.0 mm	400 °C	250 °C	32000 h	24000 h

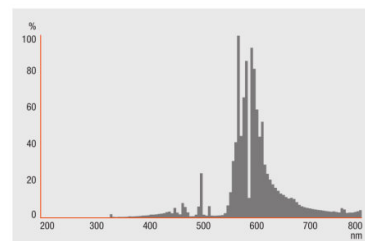
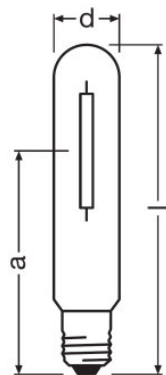
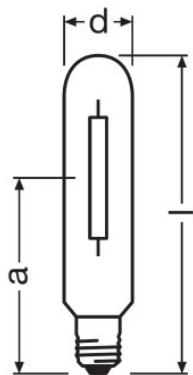
Product description	Lifespan B5	Additional product data	Capabilities			Country specific categorizations
		Base (standard designation)	Dimmable	Burning position	Enclosed luminaire required	ILCOS
NAV-T 50 W SUPER 4Y <sup>1)</sup>	16000 h	E27	Yes <sup>2)</sup>	Any	No	ST-50-H/E/SL-E27-39/156
NAV-T 70 W SUPER 4Y <sup>1)</sup>	16000 h	E27	Yes <sup>2)</sup>	Any	No	ST-70-H/E/SL-E27-39/156

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Product description	Lifespan B5	Additional product data	Capabilities			Country specific categorizations
		Base (standard designation)	Dimmable	Burning position	Enclosed luminaire required	ILCOS
NAV-T 100 W SUPER 4Y <sup>1)</sup>	20000 h	E40	Yes <sup>2)</sup>	Any	No	ST-100-H/E/SL-E40-47/210
NAV-T 150 W SUPER 4Y <sup>1)</sup>	20000 h	E40	Yes <sup>2)</sup>	Any	No	ST-150-H/E/SL-E40-47/210
NAV-T 250 W SUPER 4Y <sup>1)</sup>	20000 h	E40	Yes <sup>2)</sup>	Any	No	ST-250-H/E/SL-E40-47/257
NAV-T 400 W SUPER 4Y <sup>1)</sup>	20000 h	E40	Yes	Any	No	ST-400-H/E/SL-E40-47/285
NAV-T 600 W SUPER 4Y <sup>1)</sup>	20000 h	E40	Yes	Any	No	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> In combination with POWERTRONIC PTo



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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
4052899415379	NAV-T 50 W SUPER 4Y	Shipping carton box 12	210 mm x 171 mm x 212 mm	7.61 dm <sup>3</sup>	991.00 g
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

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Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
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.

### 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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