

VIALOX NAV-T

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

- High luminous efficacy

Product features

- Service lifetime: 3 years (at approx. 11 h/day)
- Average lifetime: up to 20,000 h



Product family datasheet

Technical data

Product description	Electrical data						Photometrical data				
	Nominal wattage	Rated wattage	Lamp current	Nominal voltage	Ignition voltage	Rated lamp efficacy (standard condition)	Color rendering index Ra	Color temperature	Rated LLMF at 2,000 h	Rated LLMF at 4,000 h	Rated LLMF at 6,000 h
NAV-T 50 W E27 ¹⁾	50.00 W	50.00 W	0.77 A	85.0 V	1.8 / 5.0 kVp ³⁾	76 lm/W	≤25	2000 K	0.91	0.89	0.84
NAV-T 70 W E27 ¹⁾	70.00 W	70.00 W	0.98 A	90.0 V	1.8 / 5.0 kVp ³⁾	86 lm/W	≤ 20	2000 K	0.92	0.86	0.83
NAV-T 100 W E40 ¹⁾	100.00 W	97.00 W	1.2 A	100 V	3.3 / 5.0 kVp ³⁾	93 lm/W	≤25	2000 K	0.91	0.90	0.89
NAV-T 150 W E40 ¹⁾	150.00 W	150.00 W	1.8 A	100 V	3.3 / 5.0 kVp ³⁾	100 lm/W	≤25	2000 K	0.97	0.96	0.95
NAV-T 250 W E40 ¹⁾	250.00 W	250.00 W	3.0 A	100 V	3.3 / 5.0 kVp ³⁾	112 lm/W	≤25	2000 K	0.97	0.96	0.95
NAV-T 400 W E40 ¹⁾	400.00 W	392.00 W	4.6 A	100 V	3.3 / 5.0 kVp ³⁾	122 lm/W	≤25	2000 K	0.97	0.96	0.95
NAV-T 1000 W E40 ²⁾	1000.00 W	960.00 W	10.6 A	110 V	3.6 / 5.0 kVp ³⁾	135 lm/W	≤25	2000 K	0.96	0.93	0.91

Product description	Rated LLMF				Dimensions & weight				Temperatures & operating conditions		Lifespan	
	Rated LLMF at 8,000 h	Rated LLMF at 12,000 h	Rated LLMF at 16,000 h	Rated LLMF at 20,000 h	Diameter	Length	Light center length (LCL)	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
NAV-T 50 W E27 ¹⁾	0.83	0.82	0.81	0.80	38.0 mm	156.0 mm	104.0 mm	53.00 g	310 °C	210 °C	0.99	0.98
NAV-T 70 W E27 ¹⁾	0.82	0.81	0.81	0.80	38.0 mm	156.0 mm	104.0 mm	52.00 g	310 °C	210 °C	0.98	0.98
NAV-T 100 W E40 ¹⁾	0.88	0.88	0.87	0.86	47.0 mm	210.0 mm	132.0 mm	130.00 g	310 °C	210 °C	0.99	0.98
NAV-T 150 W E40 ¹⁾	0.94	0.92	0.91	0.89	47.0 mm	210.0 mm	132.0 mm	154.00 g	310 °C	210 °C	0.99	0.98
NAV-T 250 W E40 ¹⁾	0.94	0.92	0.91	0.89	47.0 mm	257.0 mm	158.0 mm	173.00 g	400 °C	250 °C	0.99	0.98
NAV-T 400 W E40 ¹⁾	0.94	0.92	0.91	0.89	47.0 mm	285.0 mm	175.0 mm	191.00 g	400 °C	250 °C	0.99	0.98
NAV-T 1000 W E40 ²⁾	0.89	0.84	0.81	0.79	66.0 mm	360.0 mm	240.0 mm	300.00 g	400 °C	250 °C	0.99	0.98

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Product description	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	Additional product data	
										Base (standard designation)	Design / version
NAV-T 50 W E27 ¹⁾	0.97	0.96	0.91	0.85	0.75	24000 h	13000 h	9000 h	50 Hz	E27	Clear
NAV-T 70 W E27 ¹⁾	0.97	0.96	0.95	0.85	0.75	24000 h	14000 h	12000 h	50 Hz	E27	Clear
NAV-T 100 W E40 ¹⁾	0.98	0.96	0.95	0.83	0.70	24000 h	14000 h	12000 h	50 Hz	E40	Clear
NAV-T 150 W E40 ¹⁾	0.97	0.96	0.95	0.90	0.85	24000 h	16000 h	12000 h	50 Hz	E40	Clear
NAV-T 250 W E40 ¹⁾	0.98	0.96	0.95	0.90	0.85	24000 h	16000 h	12000 h	50 Hz	E40	Clear
NAV-T 400 W E40 ¹⁾	0.97	0.96	0.95	0.90	0.85	24000 h	16000 h	12000 h	50 Hz	E40	Clear
NAV-T 1000 W E40 ²⁾		0.95	0.87	0.74	0.50	20000 h	11000 h	8000 h		E40	Clear

Product description	Mercury content	Capabilities			Certificates & standards		Country specific categorizations
		Dimmable	Burning position	Enclosed luminaire required	Energy efficiency class	Energy consumption	ILCOS
NAV-T 50 W E27 ¹⁾	19.0 mg ⁴⁾	Yes ⁵⁾	Any	No	A	55 kWh/1000h	ST-50-H/E/SL-E27-39/156
NAV-T 70 W E27 ¹⁾	19.0 mg ⁴⁾	Yes ⁵⁾	Any	No	A+	77 kWh/1000h	ST-70-H/E/SL-E27-39/156
NAV-T 100 W E40 ¹⁾	19.0 mg	Yes ⁵⁾	Any	No	A+	107 kWh/1000h	ST-100-H/E/SL-E40-47/210
NAV-T 150 W E40 ¹⁾	15.9 mg	Yes ⁵⁾	Any	No	A+	165 kWh/1000h	ST-150-H/E/SL-E40-47/210
NAV-T 250 W E40 ¹⁾	19.9 mg	Yes ⁵⁾	Any	No	A+	275 kWh/1000h	ST-250-H/E/SL-E40-47/257
NAV-T 400 W E40 ¹⁾	19.9 mg	Yes	Any	No	A+	432 kWh/1000h	ST-400-H/E/SL-E40-47/285
NAV-T 1000 W E40 ²⁾	39.0 mg	Yes	Any	No	A++	1056 kWh/1000h	ST-1000-H/E/SL-E40-66/360

¹⁾ Phased out in the EU as non ErP compliant according to EU directive 245/2009

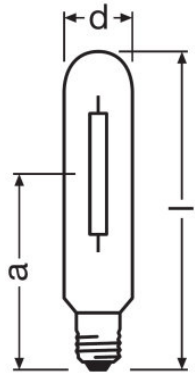
²⁾ ErP compliant according to EU Regulation 245/2009

³⁾ Minimum

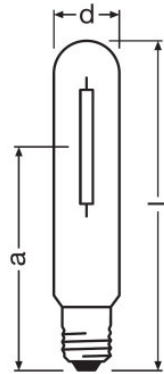
⁴⁾ Maximum

⁵⁾ In combination with POWERTRONIC PTo

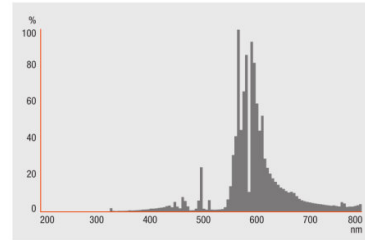
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NAV-T 50 W E27, NAV-T 70 W E27



NAV-T 100 W E40, NAV-T 150 W E40,
NAV-T 250 W E40, NAV-T 400 W E40,
NAV-T 1000 W E40



NAV-T 1000 W E40

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
4008321337986	NAV-T 50 W E27	Shipping carton box 12	225 mm x 221 mm x 187 mm	9.30 dm ³	1025.00 g
4050300255590	NAV-T 70 W E27	Shipping carton box 12	219 mm x 220 mm x 185 mm	8.91 dm ³	997.33 g

Product family datasheet

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4008321087287	NAV-T 100 W E40	Shipping carton box 12	277 mm x 279 mm x 221 mm	17.08 dm ³	2262.00 g
4050300015668	NAV-T 150 W E40	Shipping carton box 12	277 mm x 279 mm x 220 mm	17.00 dm ³	2527.00 g
4050300015675	NAV-T 250 W E40	Shipping carton box 12	270 mm x 350 mm x 225 mm	21.26 dm ³	2815.00 g
4050300015682	NAV-T 400 W E40	Shipping carton box 12	272 mm x 350 mm x 222 mm	21.13 dm ³	3067.00 g
4050300251417	NAV-T 1000 W E40	Shipping carton box 12	380 mm x 405 mm x 284 mm	43.71 dm ³	4477.00 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.

Disclaimer

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