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# Product family datasheet

## VIALOX NAV-E

High-pressure sodium vapor lamps for open and enclosed luminaires



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### Areas of application

- Streets
- Outdoor lighting
- Industrial installations
- Suitable for use in open and enclosed luminaires
- Outdoor applications only in suitable luminaires

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### Product benefits

- High luminous efficacy

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### Product features

- Service lifetime: 3 years (at approx. 11 h/day)
- Average lifetime: up to 24,000 h



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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-E 50 W/E E27 <sup>1)</sup>	50.00 W	85 V	3600 lm	≤25	2000 K	0.80
NAV-E 70 W/E E27 <sup>1)</sup>	70.00 W	90 V	5900 lm	≤25	2000 K	0.75
NAV-E 100 W E40 <sup>2)</sup>						
NAV-E 1000 W E40 <sup>1)</sup>	1000.00 W	110 V	130000 lm	≤25	2000 K	0.70

Product description	Rated lamp efficacy (standard condition)	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-E 50 W/E E27 <sup>1)</sup>						
NAV-E 70 W/E E27 <sup>1)</sup>						
NAV-E 100 W E40 <sup>2)</sup>						
NAV-E 1000 W E40 <sup>1)</sup>	128 lm/W	0.98	0.95	0.93	0.91	0.86

Product description	Rated LLMF at 16,000 h	Dimensions & weight		Temperatures & operating conditions		Lifespan
		Diameter	Length	Maximum permitted outer bulb temperature	Maximum permitted base edge temperature	Lifespan B50
NAV-E 50 W/E E27 <sup>1)</sup>		71.0 mm	156.0 mm	310 °C	210 °C	28000 h
NAV-E 70 W/E E27 <sup>1)</sup>		71.0 mm	156.0 mm	310 °C	210 °C	28000 h
NAV-E 100 W E40 <sup>2)</sup>						
NAV-E 1000 W E40 <sup>1)</sup>	0.80	165.0 mm	355.0 mm	400 °C	250 °C	20000 h

Product description	Lifespan B10	Lifespan B5	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
NAV-E 50 W/E E27 <sup>1)</sup>	13000 h	9000 h				
NAV-E 70 W/E E27 <sup>1)</sup>	14000 h	12000 h				
NAV-E 100 W E40 <sup>2)</sup>						

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Product description	Lifespan B10	Lifespan B5	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
NAV-E 1000 W E40 <sup>1)</sup>	10000 h	7000 h	0.99	0.98	0.96	0.93

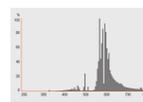
Product description	Rated lamp survival factor at 12,000 h	Rated lamp survival factor at 16,000 h	Rated lamp survival factor at 20,000 h	Additional product data	Capabilities	
				Base (standard designation)	Dimmable	Burning position
NAV-E 50 W/E E27 <sup>1)</sup>				E27	Yes <sup>3)</sup>	Any
NAV-E 70 W/E E27 <sup>1)</sup>				E27	Yes <sup>3)</sup>	Any
NAV-E 100 W E40 <sup>2)</sup>						
NAV-E 1000 W E40 <sup>1)</sup>	0.86	0.74	0.50	E40	Yes	Any

Product description	Enclosed luminaire required	Country specific categorizations
		ILCOS
NAV-E 50 W/E E27 <sup>1)</sup>	No	SE-50-H/E/SL-E27-71/156
NAV-E 70 W/E E27 <sup>1)</sup>	No	SE-70-H/E/SL-E27-71/156
NAV-E 100 W E40 <sup>2)</sup>		
NAV-E 1000 W E40 <sup>1)</sup>	No	SE-1000-H/E/SL-E40-165/355

<sup>1)</sup> ErP compliant according to EU Regulation 245/2009

<sup>2)</sup> Phased out in the EU as non ErP compliant according to EU directive 245/2009

<sup>3)</sup> In combination with POWERTRONIC PTo



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NAV-E 50 W/E E27, NAV-E 70 W/E E27

NAV-E 100 W E40, NAV-E 1000 W E40

NAV-E 50 W/E E27, NAV-E 70 W/E E27,  
NAV-E 1000 W E40

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### Application advice

For more detailed application information and graphics please see product datasheet.

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### Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4050300015750	NAV-E 50 W/E E27	Shipping carton box 24	360 mm x 356 mm x 288 mm	36.91 dm <sup>3</sup>	1967.00 g
4050300015767	NAV-E 70 W/E E27	Shipping carton box 24	360 mm x 356 mm x 285 mm	36.53 dm <sup>3</sup>	1967.00 g

## Product family datasheet

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4008321087300	NAV-E 100 W E40	Shipping carton box 12	380 mm x 203 mm x 300 mm	23.14 dm <sup>3</sup>	1677.40 g
4050300015644	NAV-E 1000 W E40	Shipping carton box 6	564 mm x 383 mm x 420 mm	90.73 dm <sup>3</sup>	3902.50 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.

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