

VIALOX[®] NAV[®]-E/I with internal ignition unit

Technical Information

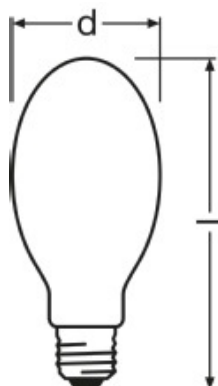


VIALOX[®] NAV[®]-E/I

General product description

- High-pressure sodium vapor lamps
- All wattages are ErP-compliant
- Only operation on electromagnetic ballast – external igniters are not permitted
- For open and closed luminaires

Basic technical description



Product reference	Nominal lamp wattage [W]	Cap E27	Correlated colour temperature [K]	Length max. (l) [mm]	Diameter (d) [mm]	Weight per piece [g]	Light centre length (a) [mm]	Typical lamp voltage ¹ [V]	Typical lamp current ¹ [A]
NAV-E 50W/I	50	E27	2000	156	71	55	n.a.	85	0.77
NAV-E 70W/I	70	E27	2000	156	71	55	n.a.	90	0.98

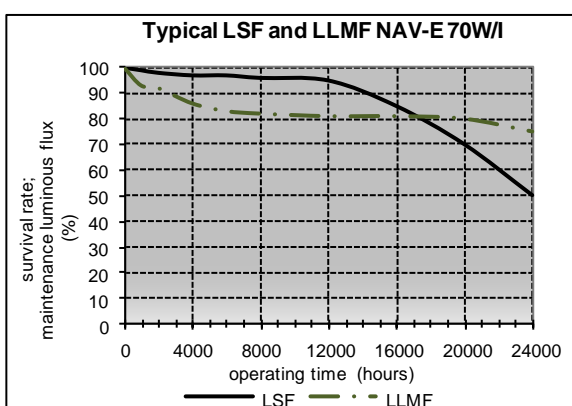
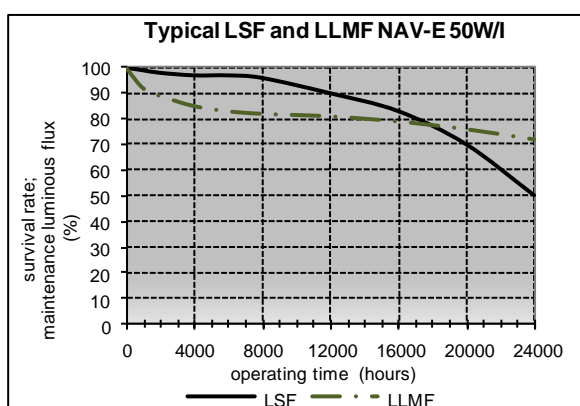
Performance specification¹

Product reference	Rated lamp wattage CCG [W]	Rated system wattage ¹ CCG [W]	Rated luminous flux [lm]	Rated luminous efficacy [lm/W]	Colour rendering index Ra	B5 [h]	B10 [h]	Average life (B50) [h]
NAV-E 50W/I	50	62	3600	72	≤ 25	9000	12000	24000
NAV-E 70W/I	70	83	5900	84	≤ 25	12000	14000	24000

¹ Refers to operation with a reference ballast (IEC 60662).

Product reference	Lamp lumen maintenance factor ² (LLMF) vs. operation hours							
	2000h	4000h	6000h	8000h	12000h	16000h	20000h	24000h
NAV-E 50W/I	89%	85%	83%	82%	81%	79%	76%	72%
NAV-E 70W/I	92%	86%	83%	82%	81%	81%	80%	75%

Product reference	Lamp survival factor ³ (LSF) vs. operation hours							
	2000h	4000h	6000h	8000h	12000h	16000h	20000h	24000h
NAV-E 50W/I	98%	97%	97%	96%	90%	83%	70%	50%
NAV-E 70W/I	98%	97%	97%	96%	95%	85%	70%	50%



² Indicates the percentage of luminous flux after a given period of operation time relative to the 100h values

³ Indicates the percentage of operational lamps after a given period of operation time.

Edition December 01, 2013; replaces edition January 29, 2013. Subject to change without notice. Errors and omissions excepted. Make sure to use the most recent edition.

Operation conditions

Product reference	Burning position	Max. permitted outer bulb temperature [°C]	Max. permitted base temperature [°C]	Min supply voltage for ignition [V]	Required control gear ⁴	Suitable OSRAM electronic control gear	Dimming
NAV-E 50W/I	universal	310	210	198	CCG	-	no
NAV-E 70W/I	universal	310	210	198	CCG	-	no

Safety, materials and environment

Product description	Typical mercury content [mg]
NAV-E 50W/I	17.0
NAV-E 70W/I	17.0

- Compliant with safety specifications according to EN 62035
- Compliant with RoHS.
- This lamps have been released only for electromagnetic ballast – external igniters are not permitted

Energy labelling⁵

Product description	Energy efficiency class	Weighted energy consumption E _c [kWh/1000h]
NAV-E 50W/I	A	55
NAV-E 70W/I	A	77

Logistics data

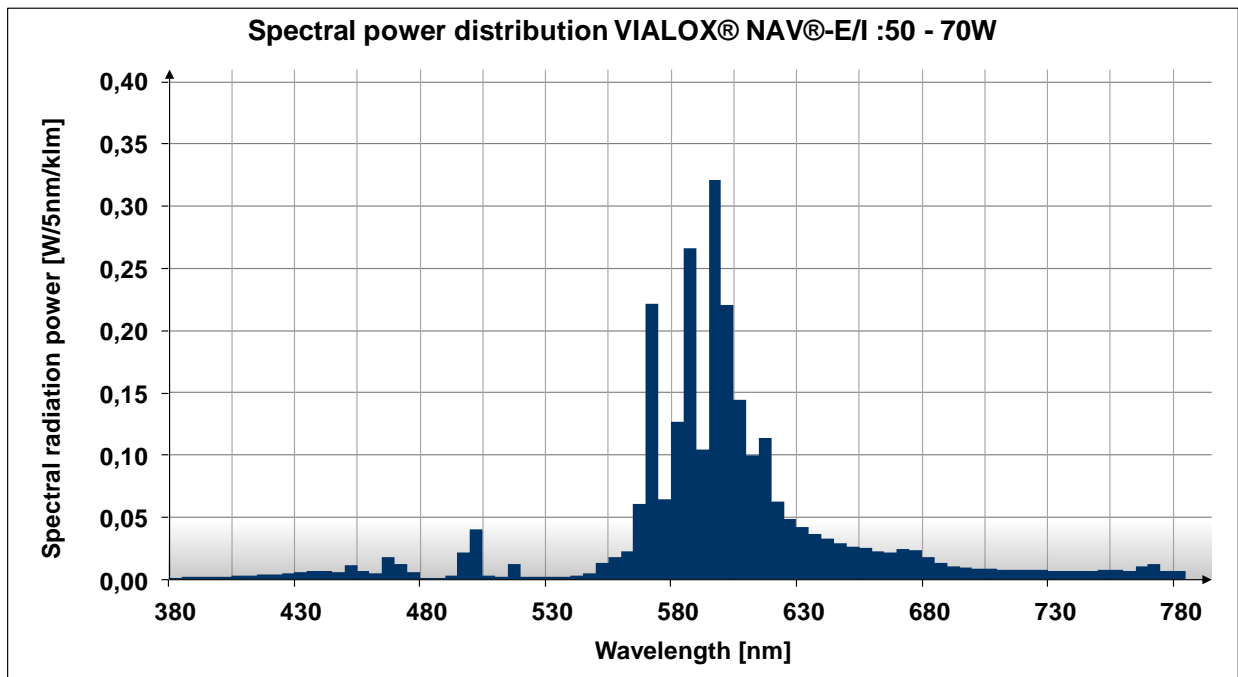
Product description	ILCOS	EAN 10	EAN 40	Standard pack quantity
NAV-E 50W/I	SE-50-H//S-E27-71/156	4050300015583	4050300222547	24
NAV-E 70W/I	SE-70-H//S-E27-71/156	4050300015590	4050300221250	24

⁴ CCG stands for electromagnetic ballast (see IEC 61347).

⁵ According to Regulation (EU) No 874/2012 of July 12, 2012

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Typical spectral power distribution



References

Reference	Location
Ray data (e.g. ASAP, SPEOS, LightTools)	available on request
3D data (e.g. Parasolid, STEP)	available on request