

VIALOX[®] NAV[®]-TS SUPER 4Y[®]

Technical Information

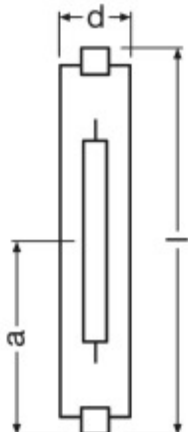


VIALOX[®] NAV[®]-TS SUPER 4Y[®]

General product description

- High-pressure sodium vapor lamps

Basic technical description



Product reference	Nominal lamp wattage [W]	Cap	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-TS 70W SUPER 4Y	70	RX7s	2000	120	20	20.80	60	85	0.98
NAV-TS 150W SUPER 4Y	150	RX7-24	2000	138	23	34.20	69	97	1.80

Performance specification¹

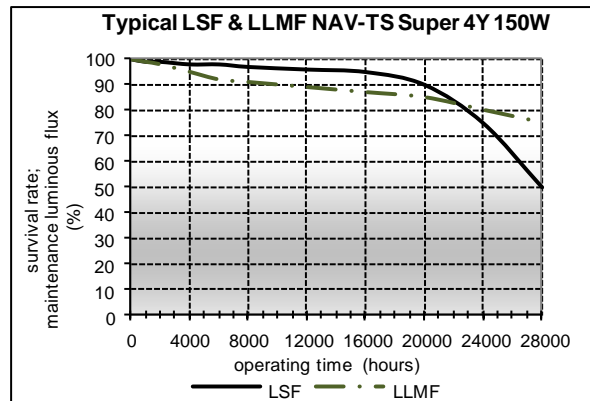
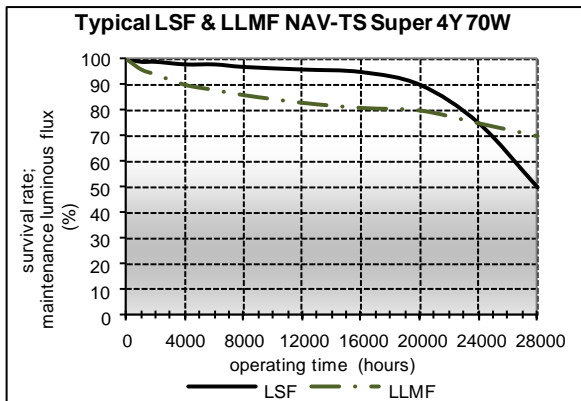
Product reference	Rated lamp wattage CCG/ECG [W]	Rated system wattage CCG/ECG ² [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Colour rendering index Ra	B5 [h]	B10 [h]	Average life (B50) [h]
NAV-TS 70W SUPER 4Y	70 / 72	83 / 80	6600	94	≤ 25	16000	20000	28000
NAV-TS 150W SUPER 4Y	150 / 147	170 / 160	15000	100	≤ 25	16000	20000	24000

¹ Refers to operation with a reference ballast (IEC 60622).

² With OSRAM POWERTRONIC PTo

Product reference	Lamp lumen maintenance factor ³ (LLMF) vs. operation hours								
	2000h	4000h	6000h	8000h	12000h	16000h	20000h	24000h	28000h
NAV-TS 70W SUPER 4Y	94%	90%	88%	86%	83%	81%	80%	75%	70%
NAV-TS 150W SUPER 4Y	98%	95%	92%	91%	89%	87%	85%	80%	75%

Product reference	Lamp survival factor ⁴ (LSF) vs. operation hours								
	2000h	4000h	6000h	8000h	12000h	16000h	20000h	24000h	28000h
NAV-TS 70W SUPER 4Y	99%	98%	98%	97%	96%	95%	90%	75%	50%
NAV-TS 150W SUPER 4Y	99%	98%	98%	97%	96%	95%	90%	75%	50%



³ Indicates the percentage of luminous flux after a given period of operation time relative to the 100h values

⁴ Indicates the percentage of operational lamps after a given period of operation time.

Operation conditions

Product reference	Burning position	Max. permitted outer bulb temperature [°C]	Max. permitted pinch temperature [°C]	Ignition voltage min. ⁵ /max. ⁶ [kV]	Required control gear ⁷	Suitable OSRAM electronic control gear	Dimming
NAV-TS 70W SUPER 4Y	p45	650	250	4.0 / 5.0	ECG, CCG	PTo	Yes
NAV-TS 150W SUPER 4Y	p45	650	250	4.0 / 5.0	ECG, CCG	PTo	Yes

Safety, materials and environment

Product description	Typical mercury content [mg]
NAV-TS 70W SUPER 4Y	16.0
NAV-TS 150W SUPER 4Y	20.0

- Compliant with safety specifications according to EN 62035
- Compliant with RoHS.

Energy labelling⁸

Product description	Energy efficiency class	Weighted energy consumption E _c [kWh/1000h]
NAV-TS 70W SUPER 4Y	A+	77
NAV-TS 150W SUPER 4Y	A+	165

Logistics data

Product description	ILCOS	EAN 10	EAN 40	Standard pack quantity
NAV-TS 70W SUPER 4Y	SD-70-H/E/SL-RX7s-20/120/H	4050300024301	4050300249865	12
NAV-TS 150W SUPER 4Y	SD-150-H/E/SL-RX7s24-23/138/H	4050300281667	4050300281674	12

⁵ Maximum Ignition voltage according to IEC 60662

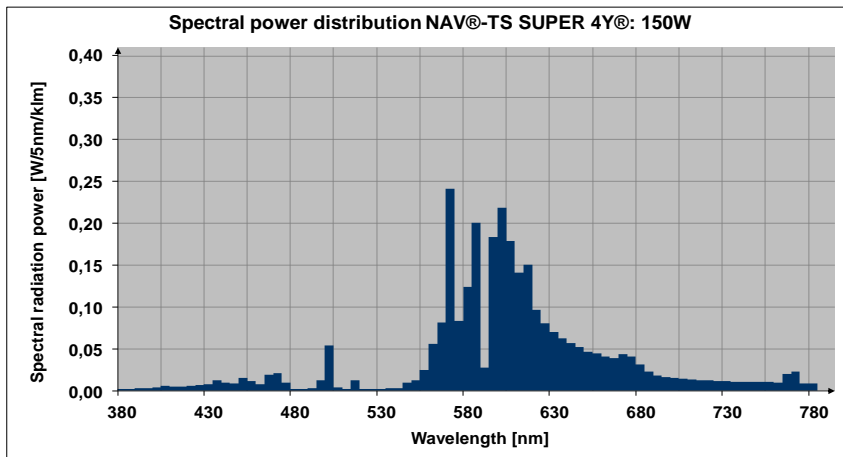
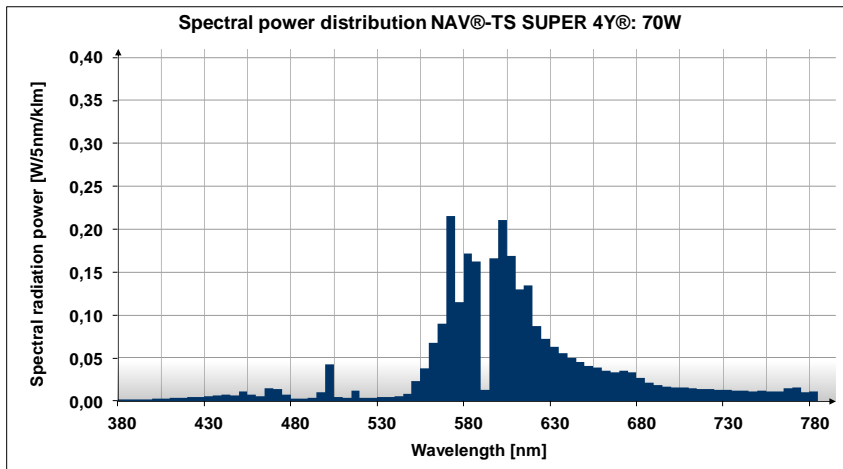
⁶ Maximum ignition voltage for the lamp

⁷ ECG stands for low frequency square wave electronic ballast, CCG stands for electromagnetic ballast according to IEC 61347

⁸ According to Regulation (EU) No 874/2012 of July 12, 2012

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Typical spectral power distribution



References

Reference	Location
Brochure "High Intensity Discharge lamps. Technical information on reducing the wattage"	www.osram.com
Ray data (e.g. ASAP, SPEOS, LightTools)	available on request
3D data (e.g. Parasolid, STEP)	available on request