

POWERSTAR® HQI®-TS long arc

Technical Information



General product description

- POWERSTAR® quartz technology
- High luminous flux and efficacy
- Very good luminous flux performance
- Hot restriking
- Long service life
- Compact dimensions for small fixtures
- Long arc and uniform distribution of light
- Optimal for homogeneous large area illumination in combination with an asymmetric floodlight
- Approved for use in enclosed fixtures
- K12s for good base positioning

Basic technical description



Product reference	Nominal lamp wattage	Cap	Correlated colour temperature	Comp. Cap. @50hz, cos φ ≈0,9	Light color code	Length max. (l)	Diameter (d)	Weight per piece	Light centre length (a)	Typical lamp voltage ¹	Typical lamp current ¹
	[W]		[K]	[μF]		[mm]	[mm]	[g]	[mm]	[V]	[A]
HQI-TS 2000W/N/L	2000	K12s-36	4100	60	641	274	40	88.7	137	200	10.4

Performance specification²

Product reference	Rated lamp wattage	Rated system wattage ³	Luminous flux	Luminous efficacy	Colour rendering index Ra	Colour rendering level	Average life (B50) [h]
	[W]	[W]	[lm]	[lm/W]			
HQI-TS 2000W/N/L	2150		230000	107	65	2B	8000

Product reference	Lamp lumen maintenance factor (LLMF) vs. operation hours			
	2000h	4000h	6000h	8000h
HQI-TS 2000W/N/L	91%	85%	82%	80%

¹ Refers to 50 Hz operation with a reference electromagnetic ballast (IEC 60923).

² The specified values refer to 50 Hz operation with electromagnetic control gear at rated wattage, unless otherwise stated. They refer to horizontal burning position, in line with IEC 61167. Other burning positions may result in differing values.

³ With OSRAM POWERTRONIC PTi, PT-FIT or PTo

Product reference	Lamp survival factor ⁴ (LSF) vs. operation hours			
	2000h	4000h	6000h	8000h
HQI-TS 2000W/N/L	95%	83%	67%	50%

Operation conditions

Product reference	Burning position	Max. permitted outer bulb temperature [°C]	Max. permitted pinch temperature [°C]	Ignition voltage min. / max. [kVs]	Hot restrike voltage [kVs]	Required control gear ⁵	Suitable OSRAM electronic control gear	Dimming
HQI-TS 2000W/N/L	p15	950	390	4 / 5	36	CCG	n.a.	n.a. ⁶

Safety, materials and environment

Product description	Typical specific effective radiant UV power [mW/1000 lm]	Typical mercury content [mg]
HQI-TS 2000W/N/L	>2	220

- Compliant with safety specifications according to EN 62035
- Compliant with RoHS.
- Only for luminaires with protective shield according to IEC 60598-1
- For operation with an electromagnetic ballast⁷ a protection against rectifying effect at end-of-life required
- Staring to operating light source to be avoided because of high brightness

Energy labelling⁸

Product description	Energy efficiency class	Weighted energy consumption E _c [kWh/1000h]
HQI-TS 2000W/N/L	A+	2365

Logistics data

Product description	ILCOS	EAN 10	EAN 40	Standard pack quantity
HQI-TS 2000W/N/L	MN-2000/641-E/SL-KI25=36-40/274/p15	4008321530660	4008321530677	10

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

⁵ ECG stands for low frequency square wave electronic ballast. See the respective lamp data sheet in IEC 61167 and Annexes G and H, therein.

CCG stands for electromagnetic ballast (see IEC 61347).

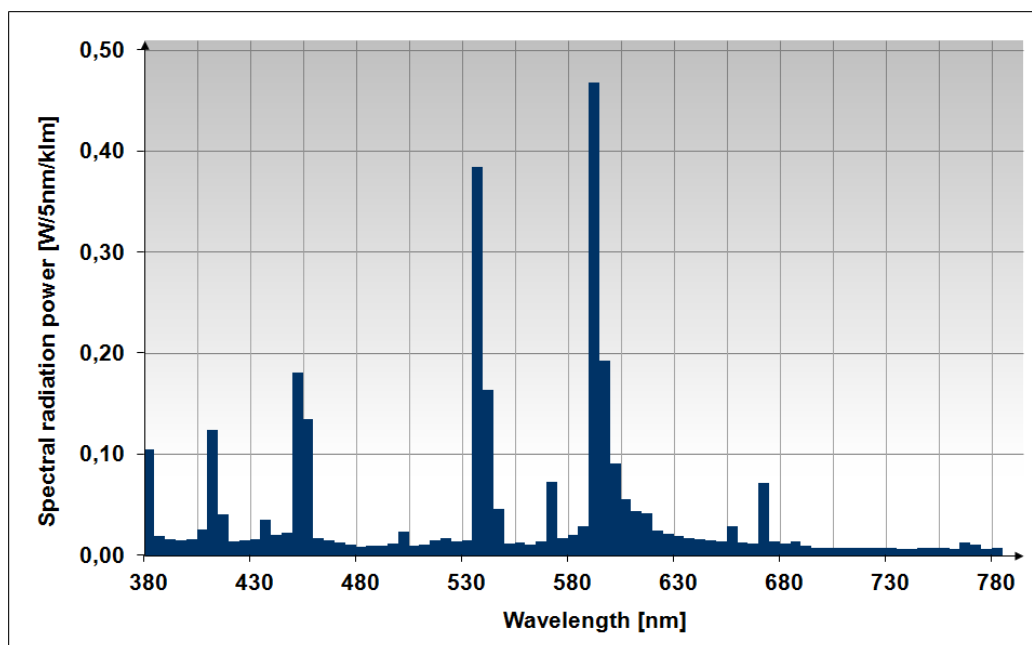
⁶ Depending on the dimming level both correlated colour temperature and colour rendering index Ra may substantially change. Average life may not increase.

⁷ See IEC 61347.

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

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Typical spectral power distribution



References

Reference	
Brochure "Metal halide lamps. Instructions for the use and application"	www.osram.com
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
System ⁺ guarantee	level 3C, see www.osram.com