

HQL[®] Standard

Technical Information

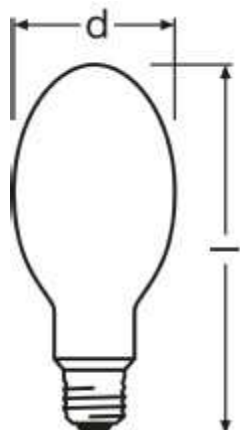


HQL[®] Standard

General product description

- High Pressure Mercury Vapor Lamp

Basic technical description



Product reference	Nominal lamp wattage	Cap	Correlated colour temperature	Length max. (l)	Diameter (d)	Weight per piece	Light centre length (a)	Typical lamp voltage ¹	Typical lamp current ¹
	[W]		[K]	[mm]	[mm]	[g]	[mm]	[V]	[A]
HQL 50W	50	E27	4200	130	56	40	n.a.	95	0.61
HQL 80W	80	E27	4100	155	71	56	n.a.	115	0.80
HQL 125W	125	E27	4000	168	76	62	n.a.	125	1.15
HQL 250W	250	E40	3900	226	91	160	n.a.	135	2.13
HQL 400W	400	E40	3800	285	122	242	n.a.	135	3.25
HQL 700W	700	E40	4000	325	141	305	n.a.	140	5.40
HQL 1000W	1000	E40	4000	355	165	390	n.a.	145	7.50

Performance specification¹

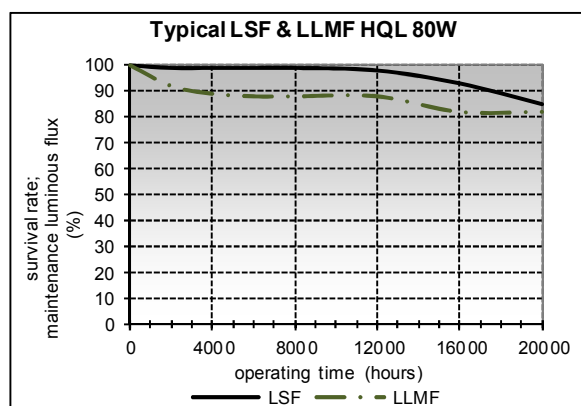
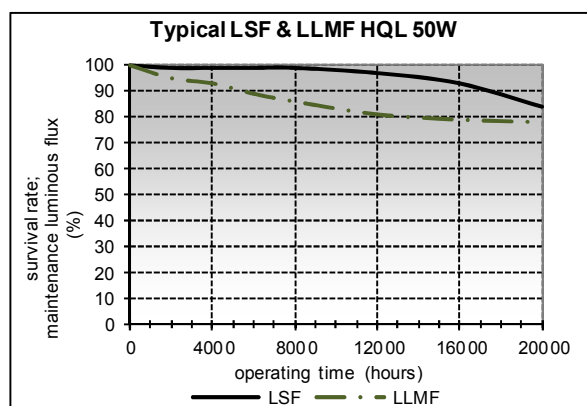
Product reference	Rated lamp wattage	Rated system wattage	Rated Luminous flux	Rated luminous efficacy	Colour rendering index Ra	B5	B10	Average Life (B50)
	[W]	[W]	[lm]	[lm/W]		[h]	[h]	[h]
HQL 50W	50	59	2000	40	50	6000	8000	24000
HQL 80W	80	89	4000	50	50	6000	8000	24000
HQL 125W	125	137	6500	52	50	6000	8000	24000
HQL 250W	250	266	14000	56	41	6000	8000	24000
HQL 400W	400	425	24000	60	39	6000	8000	24000
HQL 700W	700	740	40000	57	43	5000	8000	16000
HQL 1000W	1000	1045	57000	57	43	5000	8000	16000

¹ Refers to operation with a reference electromagnetic ballast (IEC 60188).

Edition February 19, 2013. Subject to change without notice. Errors and omissions excepted. Make sure to use the most recent edition.

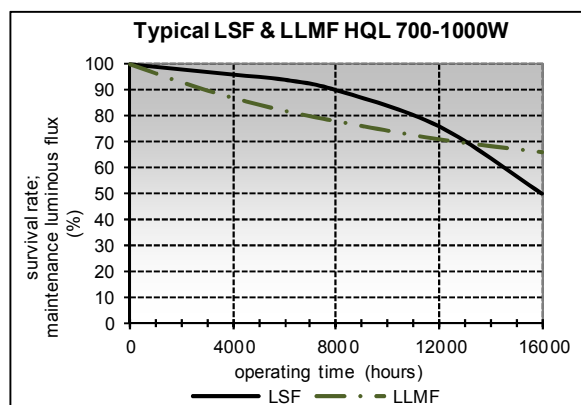
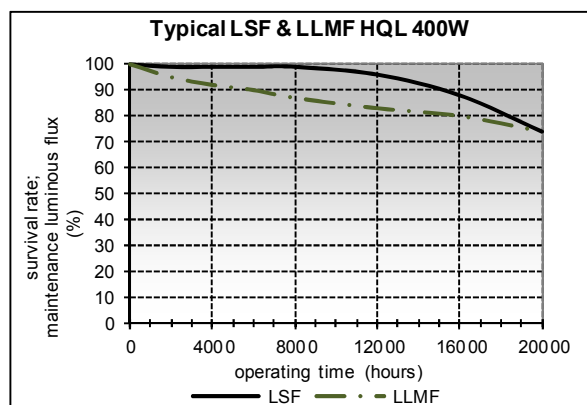
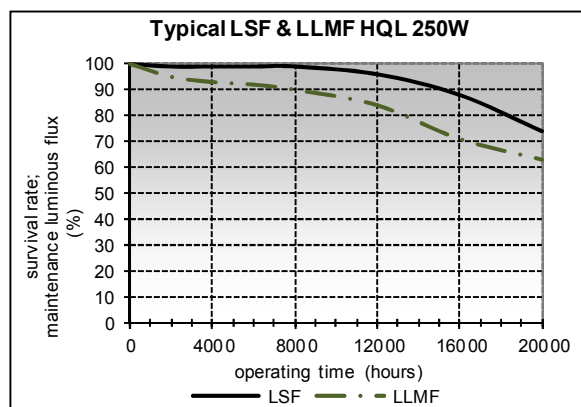
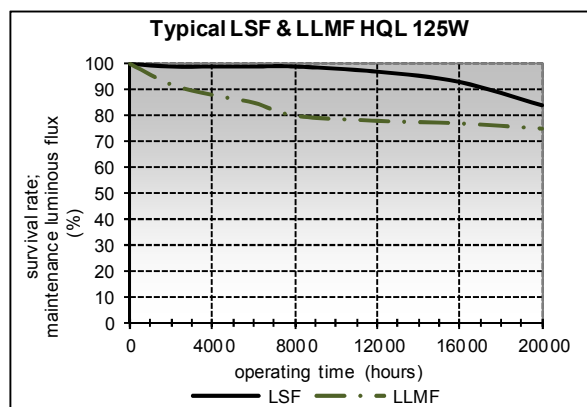
Product reference	Lamp lumen maintenance factor ² (LLMF) vs. operation hours							
	2000h	4000h	6000h	8000h	12000h	16000h	20000h	24000h
HQL 50W	95%	93%	89%	86%	81%	79%	78%	-
HQL 80W	92%	89%	88%	88%	88%	82%	82%	-
HQL 125W	92%	88%	85%	80%	78%	77%	75%	-
HQL 250W	95%	93%	92%	90%	84%	71%	63%	-
HQL 400W	95%	92%	90%	87%	83%	80%	74%	-
HQL 700W	93%	87%	82%	78%	71%	66%	-	-
HQL 1000W	93%	87%	82%	78%	71%	66%	-	-

Product reference	Lamp survival factor ³ (LSF) vs. operation hours							
	2000h	4000h	6000h	8000h	12000h	16000h	20000h	24000h
HQL 50W	99%	99%	99%	99%	97%	93%	84%	50%
HQL 80W	99%	99%	99%	99%	98%	93%	85%	50%
HQL 125W	99%	99%	99%	99%	97%	92%	70%	50%
HQL 250W	99%	99%	99%	99%	96%	87%	72%	50%
HQL 400W	99%	99%	99%	99%	96%	88%	74%	50%
HQL 700W	98%	96%	94%	90%	76%	50%	-	-
HQL 1000W	98%	96%	94%	90%	76%	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.



Operation conditions

Product reference	Burning position	Max. permitted outer bulb temperature [°C]	Max. permitted pinch Temperature [°C]	Min supply voltage for ignition [V]	Required control gear ⁴	Suitable OSRAM electronic control gear	Dimming
HQL 50W	any	310	210	198V	CCG	n.a.	no
HQL 80W	any	310	210	198V	CCG	n.a.	no
HQL 125W	any	310	210	198V	CCG	n.a.	no
HQL 250W	any	350	250	198V	CCG	n.a.	no
HQL 400W	any	380	250	198V	CCG	n.a.	no
HQL 700W	any	380	250	198V	CCG	n.a.	no
HQL 1000W	any	380	250	198V	CCG	n.a.	no

⁴ CCG stands for electromagnetic ballast according to IEC 61347.

Safety, materials and environment

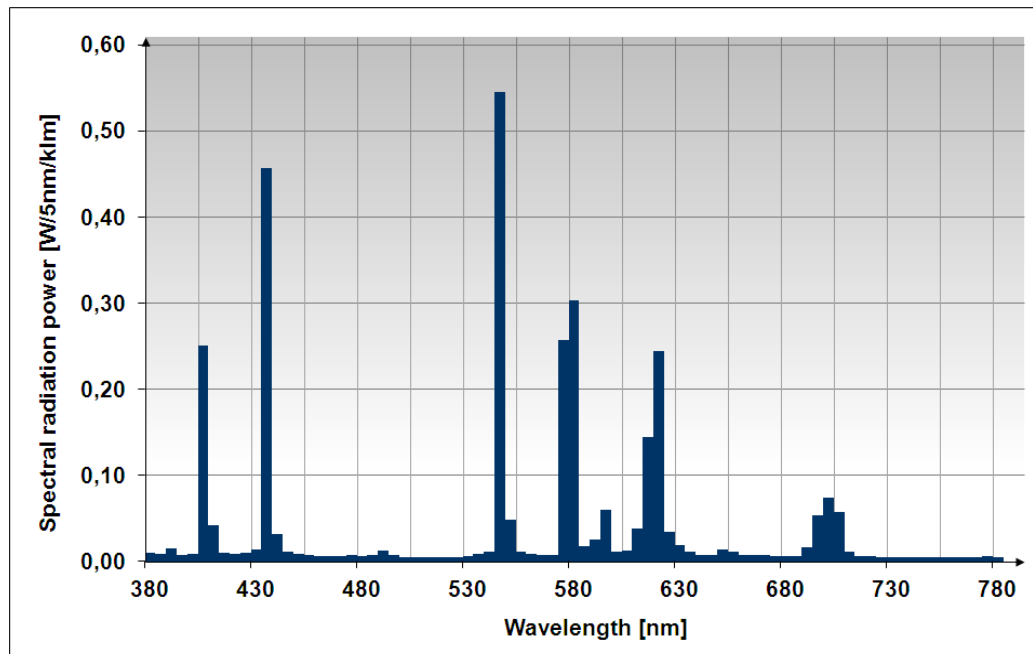
Product description	Typical mercury content [mg]
HQL 50W	13.0
HQL 80W	14.4
HQL 125W	22.5
HQL 250W	39.0
HQL 400W	63.4
HQL 700W	92.8
HQL 1000W	78.5

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

Logistics data

Product description	ILCOS	EAN 10	EAN 40	Standard pack quantity
HQL 50W	QE/R-50/42/3-H-E27-56/130	4050300015040	4050300213798	40
HQL 80W	QE/R-80/41/3-H-E27-71/155	4050300012360	4050300213200	40
HQL 125W	QE/R-125/42/3-H-E27-76/168	4050300012377	4050300212180	40
HQL 250W	QE/R-250/40/3-H-E40-91/226	4050300015064	4050300212555	12
HQL 400W	QE/R-400/40/3-H-E40-122/285	4050300015071	4050300212562	12
HQL 700W	QE/R-700/40/3-H-E40-141/325	4050300015088	4050300214252	6
HQL 1000W	QE/R-1000/40/3-H-E40-165/390	4050300015095	4050300214269	6

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