

HWL®

Technical Information

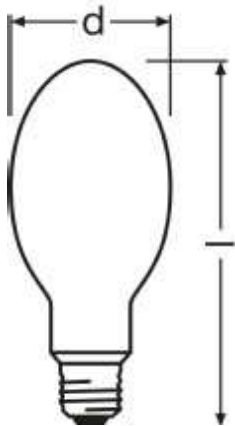


HWL®

General product description

- Mercury Mixed Light 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 [V]	Typical lamp current [A]
HWL 160W 225V	160	E27	3600	168	76	65	n.a.	225	0.81
HWL 160W 235V	160	E27	3600	168	76	65	n.a.	235	0.78
HWL 250W 225V	250	E40	3800	226	91	155	n.a.	225	1.23
HWL 250W 235V	250	E40	3800	226	91	155	n.a.	235	1.19
HWL 500W 225V	500	E40	4100	275	122	240	n.a.	225	2.41
HWL 500W 235V	500	E40	4100	275	122	240	n.a.	235	2.19

Performance specification

Product reference	Rated lamp wattage [W]	Rated system wattage [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Colour rendering index Ra	Colour rendering level	Average life (B50) [h]
HWL 160W 225V	175	n.a.	3100	17.7	62	2B	9000
HWL 160W 235V	175	n.a.	3100	17.7	62	2B	9000
HWL 250W 225V	270	n.a.	5600	21.0	58	3	10000
HWL 250W 235V	270	n.a.	5600	21.0	58	3	10000
HWL 500W 225V	530	n.a.	14000	27.0	60	3	10000
HWL 500W 235V	530	n.a.	14000	27.0	60	2B	10000

Product reference	Lamp lumen maintenance factor ¹ (LLMF) vs. operation hours						
	2000h	4000h	6000h	8000h	12000h	16000h	20000h
HWL 160W 225V	92%	88%	87%	87%	/	/	/
HWL 160W 235V	92%	88%	87%	87%	/	/	/
HWL 250W 225V	97%	95%	93%	93%	/	/	/
HWL 250W 235V	95%	95%	93%	84%	/	/	/
HWL 500W 225V	94%	92%	87%	87%	/	/	/
HWL 500W 235V	95%	94%	90%	90%	/	/	/

Product reference	Lamp survival factor ² (LSF) vs. operation hours						
	2000h	4000h	6000h	8000h	12000h	16000h	20000h
HWL 160W 225V	99%	94%	86%	75%	46%	20%	6%
HWL 160W 235V	99%	97%	91%	81%	52%	23%	6%
HWL 250W 225V	99%	98%	97%	96%	90%	72%	44%
HWL 250W 235V	99%	98%	98%	95%	80%	50%	18%
HWL 500W 225V	95%	90%	85%	80%	71%	62%	55%
HWL 500W 235V	99%	99%	99%	96%	89%	70%	43%

Operation conditions

Product reference	Burning position	Max. permitted outer bulb temperature [°C]	Max. permitted base edge temperature [°C]	Min supply voltage for ignition [V]	Required control gear	Suitable OSRAM electronic control gear	Dimming
HWL 160W 225 V	hs30	210	310	198	n.a.	n.a.	no
HWL 160W 235 V	hs30	210	310	198	n.a.	n.a.	no
HWL 250W 225 V	hs30	250	350	198	n.a.	n.a.	no
HWL 250W 235 V	hs30	250	350	198	n.a.	n.a.	no
HWL 500W 225 V	hs30	250	380	198	n.a.	n.a.	no
HWL 500W 235 V	hs30	250	380	198	n.a.	n.a.	no

Safety, materials and environment

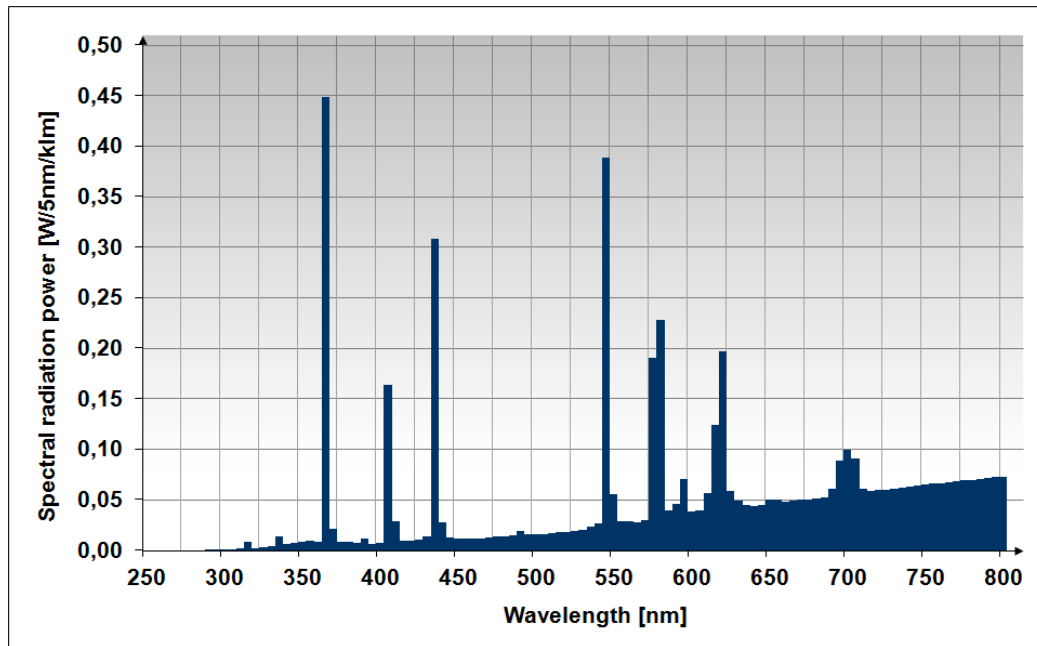
Product description	Typical mercury content [mg]
HWL 160W 225V	14.3
HWL 160W 235V	16.4
HWL 250W 225V	15.0
HWL 250W 235V	17.5
HWL 500W 225V	38.0
HWL 500W 235V	41.6

- Compliant with RoHS.

Logistics data

Product description	ILCOS	EAN 10	EAN 40	Standard pack quantity
HWL 160W 225V	QB/R-160/36/2B-E225-E27-76/168-HS30	4050300015453	4050300216478	40
HWL 160W 235V	QB/R-160/36/2B-E235-E27-76/168-HS30	4050300216867	4050300216874	40
HWL 250W 225V	QB/R-250/38/2B-E225-E40-91/226	4008321161123	4008321161130	12
HWL 250W 235V	QB/R-250/38/2B-E235-E40-91/226	4008321159274	4008321159281	12
HWL 500W 225V	QB/R-500/41/2B-E225-E40-122/275	4050300015484	4008321001900	12
HWL 500W 235V	QB/R-500/41/2B-E235-E40-122/275	4050300216928	4050300216935	12

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