

Strong light and a long tradition.

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw



SEE THE WORLD IN A NEW LIGHT

Welcome everywhere: the HQL® family from OSRAM

With their extremely reliable and robust technology, high intensity and long life HQL® high-pressure mercury lamps from OSRAM have been successfully used for a wide range of applications in both indoor and outdoor lighting for more than 70 years. With so many different types to choose from they offer the right output and light colour for almost every possible lighting task.

WWW.100Y.C

WW.100Y.COM.T

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Major benefits of HQL® lamps

- · Long life for long relamping intervals
- No igniters for simpler luminaire design
- Wattages from 50 to 1000 W and different light colours for the optimum light for different applications

Major applications of HQL® lamps

- Outdoor lighting for squares, residential areas, parks and main roads and trunk roads
- · Lighting for car parks and industrial sites
- HQL[®] DE LUXE also for factory lighting, effect lighting and decorative plant lighting WWW.100Y.C WWW.100Y.COM.T





WWW.100Y.COM.ITW The universal classic: **HQL® STANDARD**

HQL® STANDARD high-pressure mercury lamps have a yttrium vanadate phosphor. They are suitable for all traffic and factory lighting applications.

Features

- · High-pressure mercury lamps, elliptical, coated
- 7 wattages: 50, 80, 125, 250, 400, 700, 1000 W
- High luminous efficacy: up to 57 lm/W (for a 700 W lamp)
- Light colour: Neutral White
- Burning position: universal
- Base: E27 and E40 (from 250 W upwards)

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- Long average lamp life: 15,000 20,000 hours
- 2 to 3 years of use, operating for 11 hours per day

Applications

Street lighting, parks and gardens, car parks, other areas allocated to traffic, industrial sites, factories WWW.100Y.COM.TW

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DE LUXE

NW.100Y.COM.TW Up to 10% more light: HQL[®] DE LUXE

HQL® DE LUXE lamps have a warmer light colour, better colour rendering and greater light output than standard HQL® lamps, which makes them even more versatile, opening up a wide range of indoor and outdoor applications.

Features

- High-pressure mercury lamps, elliptical, coated
- 5 wattages: 50, 80, 125, 250, 400 W
- High luminous efficacy: up to 60 lm/W (for a 400 W lamp) oy.com
- Light colour: Warm White
- Burning position: universal
- Base: E27 and E40 (from 250 W upwards)
- Long average lamp life: 20,000 hours
- 2 to 3 years of use, operating for 11 hours per day

Applications

Street lighting, parks and gardens, car parks, other areas allocated to traffic, industrial sites, factories

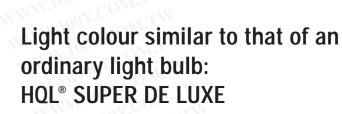
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SUPER DE LUXE H() WW.100Y.COM.TW



Because their light colour is similar to that of ordinary light bulbs, HQL® SUPER DE LUXE lamps are ideal for a wide range of outdoor applications, particularly prestige lighting for streets, squares and paths.

Features

- · High-pressure mercury lamps, elliptical, coated
- 3 wattages: 50, 80, 125 W
- Luminous efficacy: up to 46 lm/W (for a 125 W lamp)
- Light colour: Warm White
- Burning position: universal
- Base: E27
- Long average lamp life: 20,000 hours

WWW.100Y.COM.

• 2 to 3 years of use, operating for 11 hours per day

Applications

100Y.COM.TW

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Street lighting, historic town centres, pedestrian precincts, pathways in parks and gardens

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WWW.100Y.CO WW.100Y.COM.TW

25% longer life: WWW.100Y.COM.TW HQL[®] 4Y[®]

Thanks to the new HQL® 4Y® lamps from OSRAM, replacing lamps in outdoor installations and street lighting is no longer an everyday event. The relamping cycle can be extended to four years.

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Every lamp that needs replacing in an outdoor installation costs a great deal of time and money. Increasing the life of the lamps and reducing the premature failure rate therefore have a major influence on overall lighting costs. The new HQL® 4Y® lamps score highly on both counts. Firstly, their average life has been increased to 25,000 hours (corresponding to around four years of use in an outdoor installation) and secondly the failure rate has been reduced to 10% after 16,000 hours.

HQL[®] 4Y[®] lamps represent enormous potential savings. Switching from a three-year relamping cycle to a four-year cycle reduces the average annual relamping costs by around 25%.

Features

- · High-pressure mercury lamps, elliptical, coated
- 3 wattages: 50, 80, 125 W
- High luminous efficacy: up to 54 lm/W (for a 125 W lamp)
- Light colour: Warm White
- Burning position: universal
- Base: E27
- Very long average lamp life: 25,000 hours
- 4 years of use, operating for 11 hours per day

Applications

Street lighting, parks and gardens, car parks, other areas allocated to traffic, industrial sites, factories

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Decorative spherical lamps: HQL[®]-B SUPER DE LUXE

With their golden internal coating, HQL®-B SUPER DE LUXE lamps are perfect for decorative indoors and outdoor applications. The large spherical surface distributes the light, similar to that from an ordinary light bulb, without causing glare. The lamps have such a large volume that the surface does not get hot. This means that the lamps are splash proof.

Features

- High-pressure mercury lamps, spherical, coated
- 2 wattages: 50, 80 W
- Luminous efficacy: up to 38 lm/W (for a 80 W lamp)
- Light colour: Warm White
- Burning position: universal
- Base: E27
- Long average lamp life: 20,000 hours
- 2 to 3 years of use, operating for 11 hours per day

Applications

Street lighting, historic town centres, pedestrian precincts, pathways in parks and gardens

Mushroom-shaped reflector lamp: HOL[®]-R DE LUXE

The mushroom-shaped HQL®-R DE LUXE with reflector provides warm white light and pleasant colour properties.

Features

- High-pressure mercury lamp, reflector, coated
- 80 W
- Luminous efficacy: 38 lm/W
- Light colour: Warm White
- Burning position: universal
- Base: E27
- Long average lamp life: 20,000 hours
- 2 to 3 years of use, operating for 11 hours per day

Applications

Decorative plant lighting

Operating instruction and technical information

The lamps must be connected using suitable control gear. The permitted fluctuation in mains voltage for HQL[®] is ±10%. Sudden fluctuations in mains voltage of more than 10% may cause the lamp to go out. Changes in colour and luminous flux are possible if there are long-term deviations from the rated supply voltage (230 V) for HQL[®] lamps. Lamp life may also be reduced. Operating high-pressure lamps for short periods in combination with frequent on/off switching will shorten their life.

End of life

HQL® lamps reach their end of life when

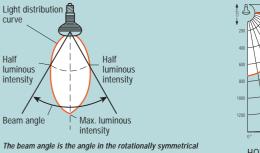
- the light colour of the lamp changes dramatically or
- there is a significant loss of brightness or
- the lamp no longer ignites or
- the lamp starts to cycle (periodically goes out and ignites again).

To protect the control gear and to avoid unnecessary radio interference, HQL[®] lamps must be replaced as soon as they come to the end of their life. To ensure the roads or workplaces remain safe the lamps should be replaced in groups every two years. Any lamps that fail earlier than this should be replaced as soon as possible. All lamp-specific electrical and photometric data is measured after 100 hours of operation under laboratory conditions on reference equipment. Full luminous flux is reached about five minutes after the lamp is switched on. The start-up current is around 40% higher. The luminous flux is virtually unaffected by the ambient temperature outside the luminaire.

Ignition

HQL® lamps become less and less willing to ignite as they get older, and this depends to a large extent on the supply voltage at the fixture. HQL[®] lamps ignite on mains voltage from around 200 V. At ambient temperatures lower than -18°C HQL[®] lamps generally only ignite if the full mains voltage is available (230 V). Hot lamps need a few minutes to cool down before they can be restarted.

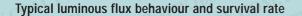
Luminous intensity distribution of the reflector lamp

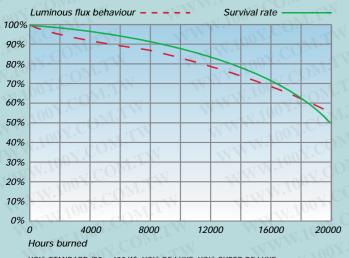


ous intensity distribution at which the lumino intensity is half its maximum valu

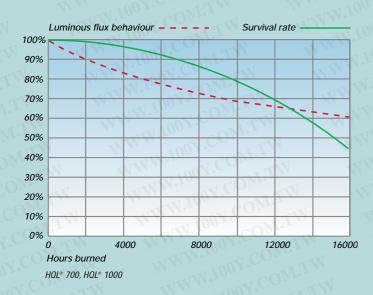
Half

Technical data

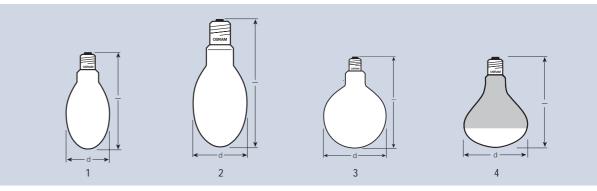




HQL® STANDARD (50 – 400 W), HQL® DE LUXE, HQL® SUPER DE LUXE, HQL®-B SUPER DE LUXE, HQL®-R DE LUXE







		HQL [®] (Stan	dard) elliptical	, coated					hql® de lu	JXE e
		50 W	80 W	125 W	250 W	400 W	700 W	1000 W	50 W	8
Product reference		HQL 50	HQL 80	HQL 125	HQL 250	HQL 400	HQL 700	HQL 1000	HQL 50 DE LUXE	
EAN 4050300	-	015040	012360	012377	015064	015071	629148	015095	015132	(
Lamp wattage	W	50	80	125	250	400	700	1000	50	8
System wattage (with CCG)	W	59	89	137	266	425	740	1045	59	8
Lamp voltage	V	95	115	125	130	135	140	145	95	
Lamp current	A	0,60	0,80	1,15	2,15	3,25	5,40	7,50	0,60	(
Mains current comp. at $\cos.\phi \ge 0.9$	A	0,27	0,41	0,6	1,2	1,9	3,6	5	0,27	(
Luminous flux	lm	1800	3800	6300	13000	22000	40000	57000	2000	4
Lamp luminous efficacy	lm/W	36	48	50	52	55	57	57	40	Ę
Average luminance	cd/cm ²	4,0	5,0	7,0	10,0	10,5	13,0	16,0	4,0	Ę
Colour rendering group	-	3	3	3	3	3	3	3	3	
Colour rendering index	Ra	50	50	50	46	44	43	43	54	Ę
Light colour	-			1	Veutral White					
Colour temperature	K	4200	4200	4200	4000	4000	4000	4000	3400	3
Diameter	mm	55	70	75	90	120	140	165	55	
Length max. I	mm	130	156	170	226	290	330	390	130	-
Base	-	E27	E27	E27	E40	E40	E40	E40	E27	F
Burning position	-				universal					
Max. perm. outer bulb temp.	°C	310	310	310	350	380	380	380	310	
Max. perm. base edge temp.	°C	210	210	210	250	250	250	250	210	
Comp. cap. at 50 Hz cos. $\phi \ge 0.9$	μF	7	8	10	18	25	40	60	7	1
Average lamp life	h	20000	20000	20000	20000	20000	15000	15000	20000	
Standard pack	Units	40	40	40	12	6	6	6	40	4
Fig. no.	-	1	1	1	2	2	2	2	1	

HQL® DE LU	XE elliptical, c	oated		
50 W	80 W	125 W	250 W	400 W
HQL 50	HQL 80	HQL 125	HQL 250	HQL 400
DE LUXE	DE LUXE	DE LUXE	DE LUXE	DE LUXE
015132	015149	015156	015163	015170
50	80	125	250	400
59	89	137	266	425
95	115	125	130	135
0,60	0,80	1,15	2,15	3,25
0,27	0,41	0,6	1,2	1,9
2000	4000	6800	14000	24000
40	50	54	56	60
4,0	5,0	7,0	10,0	10,5
3	3	3	3	3
54	54	54	52	50
		Warm White	;	
3400	3400	3400	3400	3400
55	70	75	90	120
130	156	170	226	290
E27	E27	E27	E40	E40
		universal		
310	310	310	350	380
210	210	210	250	250
7	8	10	18	25
20000	20000	20000	20000	20000
40	40	40	12	12
1	1	1	2	2

treated with chlorine-free bleach.

Printed on paper

excepted.

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		HQL [®] SUPER DE LUXE elliptical, coated			HQI	
N. Th		50 W	80 W	125 W	50	
Product reference		HQL 50 SUPER DE LUXE	HQL 80 SUPER DE LUXE	HQL 125 SUPER DE LUXE	HQI	
EAN 4050300	-	015217	015224	018515		
EAN 4008321 (only for 4Y)					09	
Lamp wattage	W	50	80	125	50	
System wattage (with CCG)	W	59	89	137	59	
Lamp voltage	V	95	115	125	95	
Lamp current	A	0,60	0,80	1,15	0,6	
Mains current comp. at cos.φ ≥0,9	A	0,27	0,41	0,6	0,2	
Luminous flux	Im	1600	3400	5700	20	
Lamp luminous efficacy	lm/W	32	43	46	40	
Average luminance	cd/cm ²	3,0	4,0	6,0	4,0 3	
Colour rendering group	-	2B	2B	2B	3	
Colour rendering index	Ra	60	60	60	60	
Light colour		W	arm White			
Colour temperature	K	3200	3200	3200	34	
Diameter	mm	55	70	75	55	
Length max. I	mm	130	156	170	13	
Base		E27	E27	E27	E2	
Burning position	J.Y.		universal			
Max. perm. outer bulb temp.	°C	310	310	310	31	
Max. perm. base edge temp.	°C	210	210	210	21	
Comp. cap. at 50 Hz cos. $\phi \ge 0.9$	μF	7	8	10	7	
Average lamp life	h	20000	20000	20000	25	
Standard pack	Units	40	40	40	40	

50 W	80 W	125 W
HQL 50 4Y	HQL 80 4Y	HQL 125 4Y
097859	097811	097835
50	80	125
59	89	137
95	115	125
0,60	0,80	1,15
0,27	0,41	0,6
2000	4000	6800
40	50	54
4,0	5,0	7,0
3	3	3
60	60	60
	Warm White	
3400	3400	3400
55	70	75
130	156	170
E27	E27	E27
	universal	
310	310	310
210	210	210
7	8	10
25000	25000	25000
40	40	40
1	1	1

40	40	40	12	
1	1	1	2	
HOL®-B SUPEI		UOI ®	R DE LUXE	
spherical, coa				
spherical, coa 50W		80W	ctor, coated	
HQL B 50	80W HOL B 80	HOLF		-
SUPER DE LUXE	HUL B 80 SUPER DE LUXE	DE LUX		
				-
015194	015200	0032	90	
50	80	80		-
50	89	89		-
95	115	115		-
0,60	0,80	0,80		-
0,00	0,41	0,27		-
1600	3000	3000		-
32	38	38		-
3,0	4,0	6,0		-
2B	2B	3		-
60	60	56		-
	White		White	-
3200	3200	3400		-
126	126	125		-
190	190	168		-
E27	F27	E27		-
unive	rsal	unive	rsal	-
310	310	310		-
210	210	210		-
7	8	8		-
20000	20000	2000	0	-
6	6	6		-
3	3	4		-

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