



# 4ArXS HSD<sup>®</sup>—The tool for your creativity

Innovative metal halide lamps for creative  
architectural and effect lighting



SEE THE WORLD IN A NEW LIGHT





## Sets new standards:

**4ArXS (“For Architainment eXtreme Seal”) HSD® are new, powerful metal halide lamps from OSRAM with innovative eXtreme Seal technology. Thanks to excellent maintenance, robustness and a long service life, the 4ArXS opens up new prospects for creative architectural and effect lighting.**

### **Higher thermal resilience and long service life**

While conventional metal halide lamps begin to sweat, the new 4ArXS lamp keeps its cool even during really hot performances: thanks to innovative XS technology (eXtreme Seal), the maximum pinch temperature is increased from 350°C to 450°C.

4ArXS HSD® from OSRAM puts its rivals in the shade not only in respect of thermal resilience: the new patented filling system dramatically reduces devitrification and thus enables an extra long service life of 3,000 hours to 6,000 hours (believe it or not!) for the UL versions.

### **Versatile in use, wide range, easy handling**

From architectural lighting, projected advertising and nightclub lighting, through TV shows to concerts, musicals and theatre: 4ArXS HSD® ensure the right special effects wherever you want them. The high luminous efficacy, tremendous colour stability throughout the life of the lamp and different colour temperatures – daylight and bluish-white “bright light” – offer the user outstanding cost-effectiveness and new and varied design opportunities.

4ArXS HSD® are available in wattages of 150 to 1200 W. The rugged, compact lamp design and the thermal and mechanical stability of the lamp ensure easy handling and safe operation – even under difficult conditions.

### **Confidence inspiring: the benefits of 4ArXS HSD® at a glance**

- Average service life of 2,000 to 6,000 hours
- Outstanding luminous intensity and colour consistency throughout the life of the lamp
- Low devitrification of the bulb wall, therefore lesser decline in system luminous flux over the life of the lamp
- Daylight type (6000 K) and “bright light” type (7000–8000 K)
- Can be used with ECGs and chokes
- Simple and reliable cold starting
- Wattages of 150 to 1200 W



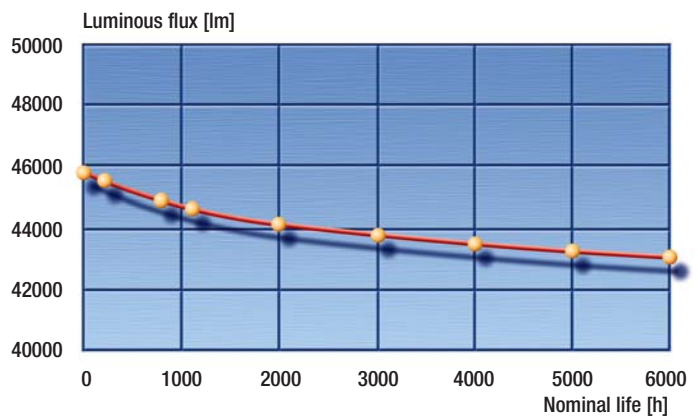


# 4ArXS HSD<sup>®</sup> from OSRAM

## Very special highlight: 4ArXS HSD<sup>®</sup> 150 W with UV filter

The 4ArXS HSD<sup>®</sup> 150 W is the first lamp in the HSD<sup>®</sup> family to come with its own UV filter.

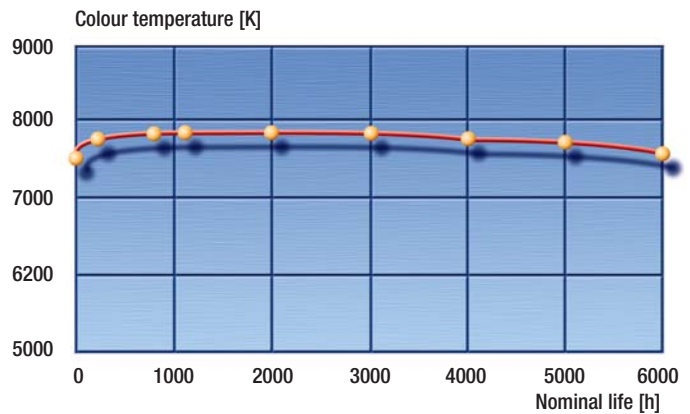
## Outstanding maintenance: 4ArXS HSD<sup>®</sup>



Uniform luminous efficiency throughout the life of the lamp  
( $< 10\%$  decline in luminous flux over its service life):

**4ArXS HSD<sup>®</sup> 575W/UL/75**

Typical curve of luminous flux over the average life  
(measured in Ulbricht globe at rated wattage)



Stable colour temperature throughout the life of the lamp

**4ArXS HSD<sup>®</sup> 575W/UL/75**

Typical curve of colour temperature over the average life  
(measured in Ulbricht globe at rated wattage)



## 4ArXS HSD®

Single-ended metal halide lamps with 2,000 to 6,000 hours life in daylight version (6000 K) or bright light version (7000 - 8000 K). With outer bulb for easy handling. None hot restrike.

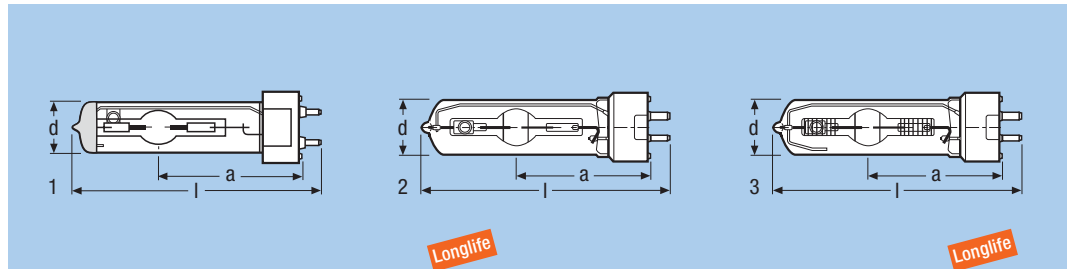
### Especially suitable for:

- Architectural and effect lighting
- Event and nightclub lighting
- Trade fair and exhibition lighting
- Projected advertising

### Safety:

Because HSD® lamps emit UV radiation and operate under positive pressure the lamps should only be used in an appropriate and fully enclosed luminaire. Suitable filters should be used to ensure that UV radiation is reduced to an acceptable level. Exception: HSD® 150 W with UV-reducing outer bulb.

## Technical data 4ArXS HSD®



Type	HSD 150 W/70	HSD 150 W/UL/75*	HSD 200 W/60	HSD 250 W/60	HSD 250 W/UL/75
Rated wattage	150 W	150 W	200 W	250 W	250 W
Lamp voltage	97 V	97 V	70 V	90 V	90 V
Operating current	1.8 A	1.8 A	3.3 A	3.1 A	3.1 A
Luminous flux	12000 lm	11000 lm	13000 lm	17000 lm	15000 lm
Colour temperature	7000 K	7500 K	6000 K	6000 K	7500 K
Colour rendering index	R <sub>a</sub> > 85	R <sub>a</sub> > 85	R <sub>a</sub> > 80	R <sub>a</sub> > 85	R <sub>a</sub> > 85
Average lamp life	3000 h	6000 h	2000 h	2000 h	6000 h
Length l max.	105 mm	105 mm	108 mm	108 mm	108 mm
LCL a	56 mm	56 mm	55 mm	55 mm	55 mm
Diameter d max.	20 mm	20 mm	23 mm	23 mm	23 mm
Base	G12	G12	GY 9.5	GY 9.5	GY 9.5
Fig. no.	1	1	2	2	2
Product No.	54119	54286	54167	54170	54288

Type	HSD 250 W/80	HSD 575 W/60	HSD 575 W/72	HSD 575 W/UL/75	HSD 1200 W/60 <sup>1)</sup>
Rated wattage	250 W	575 W	575 W	575 W	1200 W
Lamp voltage	95 V	88 V	88V	88V	100 V
Operating current	3.2 A	7.4 A	7.4A	7.4A	13.8 A
Luminous flux	17000 lm	45000 lm	45000 lm	43000 lm	110000 lm
Colour temperature	8000 K	6000 K	7200 K	7500 K	6000 K
Colour rendering index	R <sub>a</sub> > 85	R <sub>a</sub> > 85	R <sub>a</sub> > 85	R <sub>a</sub> > 80	R <sub>a</sub> > 85
Average lamp life	3000 h	3000 h	3000 h	6000 h	3000 h
Length l max.	108 mm	135 mm	135 mm	135 mm	175 mm
LCL a	55 mm	65 mm	65 mm	65 mm	85 mm
Diameter d max.	23 mm	30 mm	30 mm	30 mm	40 mm
Base	GY 9.5	GX 9.5	GX 9.5	GX 9.5	G 22
Fig. no.	3	3	3	3	not given
Product No.	54243	54271	54129	54287	TBD

\* Operation only with electric control gear.  
Optional system operation with POWERTRONIC®  
PTU electronic control gear from OSRAM  
(HSD® 150 W)

1) In development

### Picture credits:

Arcos Vallarta, Mexiko, Studio Due (Italy); Sony Center, Berlin (Germany); Arag-Tower, A&O Lighting Technology GmbH (Germany); Chicago Bridge, Martin Professional (Germany); Cathedral Chartres, Paris, Clay Paky (Italy)

**OSRAM GmbH**  
Hellabrunner Straße 1  
81543 Munich  
Germany  
Tel.: +49 (0)89 6213-0  
Fax: +49 (0)89 6213-2020

**Display/Optic Division**  
Nonnendammallee 44-61  
13625 Berlin  
Germany  
Tel.: +49 (0)30 3386 2174  
Fax: +49 (0)30 3386 2359  
entertainmentlight@info.osram.de

**In the U.S.**  
Display/Optic Division  
OSRAM SYLVANIA  
Tel: 888-677-2627  
Fax: 800-762-7192

