

BD



MSR 12000 HR



MSR 6000 HR



MSR 2500/4000 HR



MSR 1200 HR



MSR 575 HR



MSD 575 HR



MSR 125/200/400 HR

**Features**

High-efficiency hot-restrike metal halide lamps designed for optimum light collection. They combine the high luminous efficacy, compact arc (5-30 mm) and excellent colour characteristics required for a variety of spotlighting and projection applications. Hot re-ignition is possible with a high voltage peak (25 to 55 kV). They can be operated on an electronic power supply as well as on a magnetic ballast-ignitor combination. The run-up time is two minutes. The lamps are dimmable with the feature of stable colour temperature. In view of their high internal working pressure, these lamps must only be operated in closed luminaires. They radiate a considerable amount of ultraviolet; the luminaire lenses must block this, and no radiation must be spilled through ventilation slots. Burning position: universal. Top of outer bulb is frosted to avoid a too high spot in the centre of the beam in open face luminaires.

**Applications**

- Indoor and outdoor filming.
- Theatres and discos.
- Professional photography.
- Solar simulation.

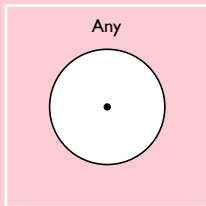


**Philips P3 technology**

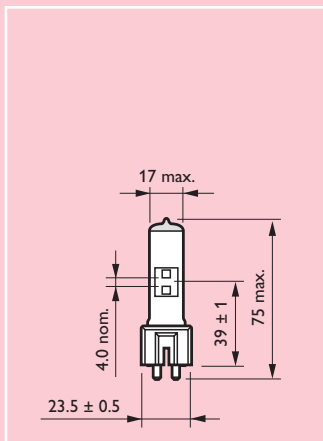
- Reliability, through longer lifetime and fewer early failures.
- Quality, through excellent storage characteristics and consistent performance over time.
- Freedom in both luminaire design and burning position.

Type	Lamp wattage	Cap/ base	Lumen output	Efficacy source	Chromaticity coordinate	Chromaticity coordinate	Colour temp.	Dimming	Average life	Replacement before hrs	Minimum ignition supply voltage	CRI	Lamp current	Ordering number
	W		lm	lm/W	x	y	K		h		V		A	
MSR 125 HR	125	GZ×9.5	9400	75	.323	.328	6000	YES	200	300	207	92	1.9	9280 602 05100
MSR 200 HR	200	GZY9.5	15000	75	.323	.328	6000	YES	200	400	207	92	3.3	9280 979 05100
MSR 400 HR	400	GZZ9.5	32000	80	.323	.328	6000	YES	750	1000	207	92	6.9	9280 502 05100
MSD 575 HR	575	G22	46000	80	.321	.336	6000	YES	2000	2200	207	75	6.95	9280 989 05100
MSR 575 HR	575	G22	49000	85	.323	.328	6000	YES	1000	1200	207	95	6.95	9280 977 05100
MSR 1200 HR	1200	G38	110000	91	.323	.328	6000	YES	1000	1200	207	95	13.8	9281 050 05100
MSR 2500 HR	2500	G38	240000	96	.323	.328	6000	YES	500	750	207	95	25.6	9281 049 05100
MSR 4000 HR	4000	G38	380000	95	.323	.328	6000	YES	500	650	207	95	24.0	9280 504 05100
MSR 6000 HR	6000	GY38	570000	95	.323	.328	6000	YES	500	650	207	95	55.0	9281 727 05100
MSR 12000 HR	12000	GY38	1200000	100	.323	.328	6000	YES	300	350	207	95	86.0	9281 773 05100

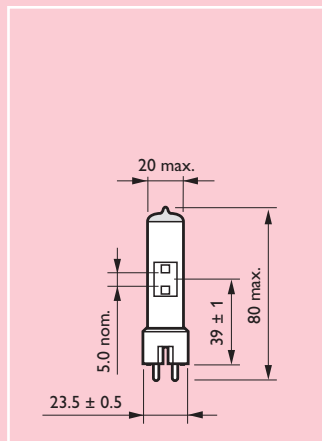
Nominal values measured in horizontal burning position in an integrating sphere on a magnetic ballast.



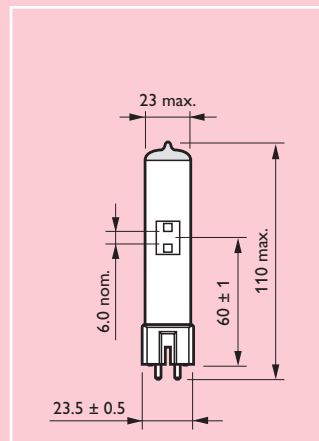
Burning position



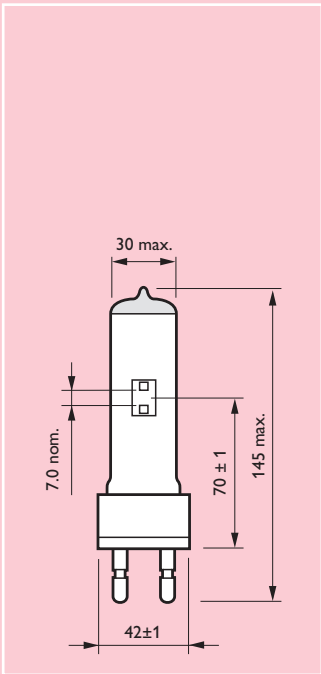
MSR 125 HR Dimensions in mm



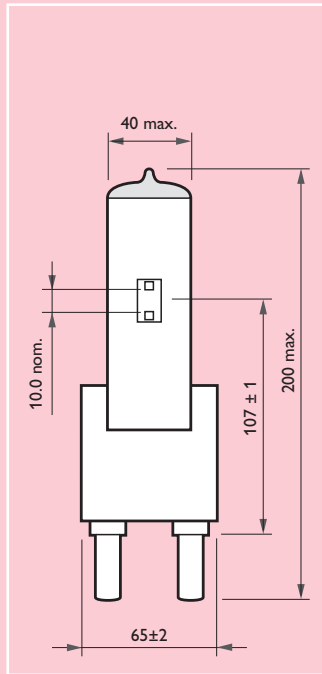
MSR 200 HR



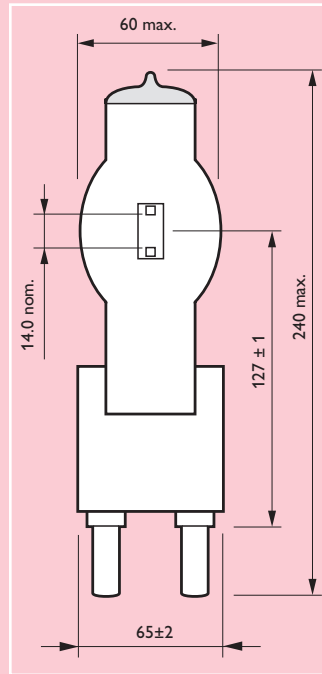
MSR 400 HR



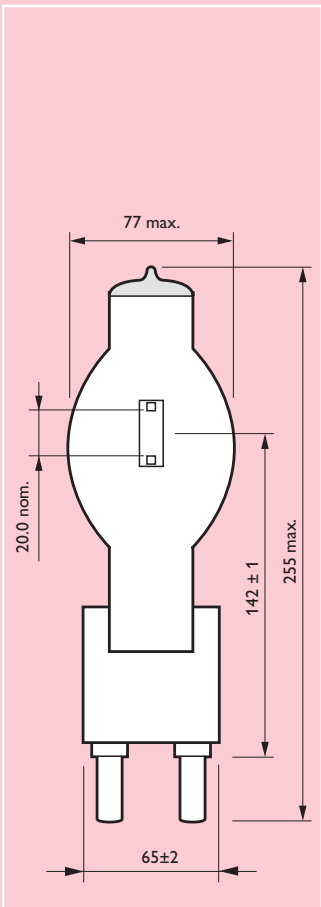
MSD/MSR 575 HR Dimensions in mm



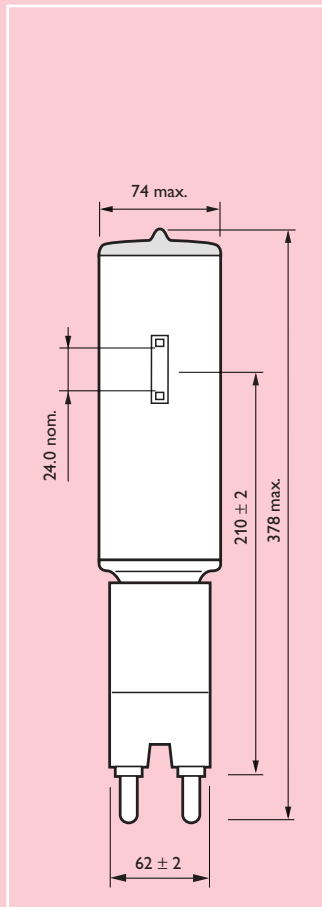
MSR 1200 HR



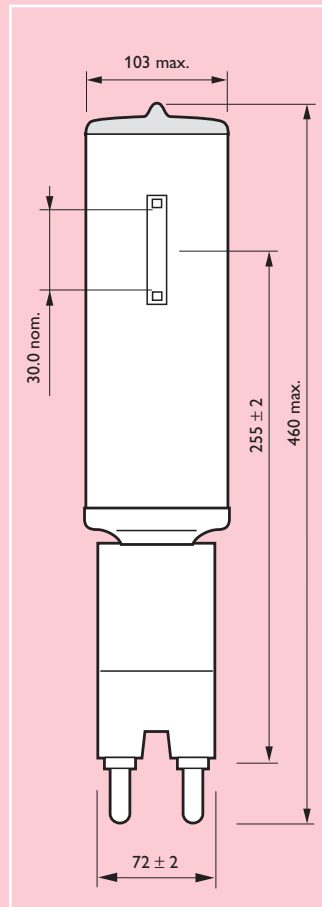
MSR 2500 HR



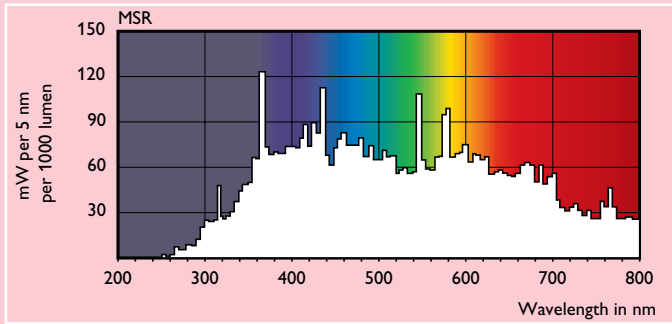
MSR 4000 HR



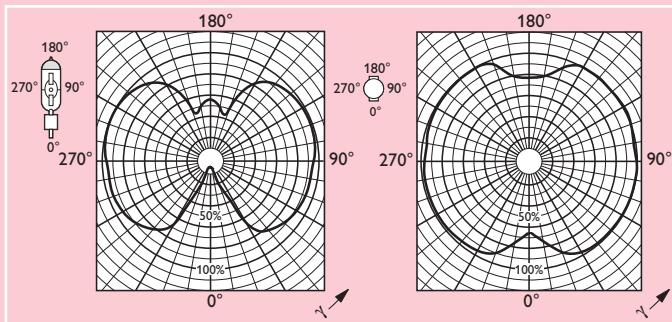
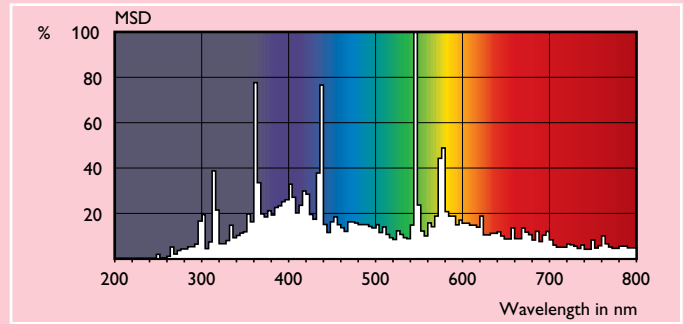
MSR 6000 HR



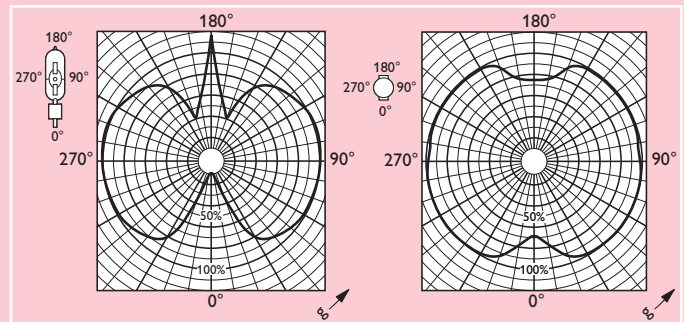
MSR 12000 HR



Spectral power distribution



Light distribution MSR; top outer bulb frosted



MSD

Maximum permissible temperatures (degr. C)

Type	Pinch	Bulb
MSR 125 HR	350	700
MSR 200 HR	350	700
MSR 400 HR	350	700
MSD 575 HR	350	600
MSR 575 HR	350	700
MSR 1200 HR	350	700
MSR 2500 HR	450	700
MSR 4000 HR	450	700
MSR 6000 HR	400	700
MSR 12000 HR	400	700

Ballast specifications

Type of lamp	Mains voltage V	Impedance Ω	Current A	Ballast losses W	Same ballast as
MSR 200 HR	230	61	3.5	25	-
MSR 400 HR	230	30	7.0	50	-
MSD 575 HR	230	28	6.95	60	MSD 575
MSR 575 HR	230	28	6.95	60	MSI 575
MSR 1200 HR	230	14	13.8	120	MSI 1200
MSR 2500 HR	230	7	25.6	200	MSI 2500
MSR 4000 HR	400	12	24	300	MSI 4000
MSR 6000 HR	230	3.16	55	300	MSI 6000
MSR 12000 HR	230	1.61	84	750	MSI 12000

Starter specifications

Type of lamp	Starting voltage V		R/C network	Min. starting time (sec)
	min.	max.		
MSR 125 HR	20000	25000	27 Ω/0.5 μF	2
MSR 200 HR	20000	25000	27 Ω/0.5 μF	2
MSR 400 HR	25000	30000	27 Ω/0.5 μF	2
MSD 575 HR	25000	30000	-	-
MSR 575 HR	25000	30000	27 Ω/0.5 μF	2
MSR 1200 HR	45000	55000	27 Ω/0.5 μF	2
MSR 2500 HR	45000	55000	15 Ω/1 μF	2
MSR 4000 HR	45000	55000	15 Ω/1 μF	2
MSR 6000 HR	50000	60000	15 Ω/1 μF	2
MSR 12000 HR	65000	75000	15 Ω/3 μF	2