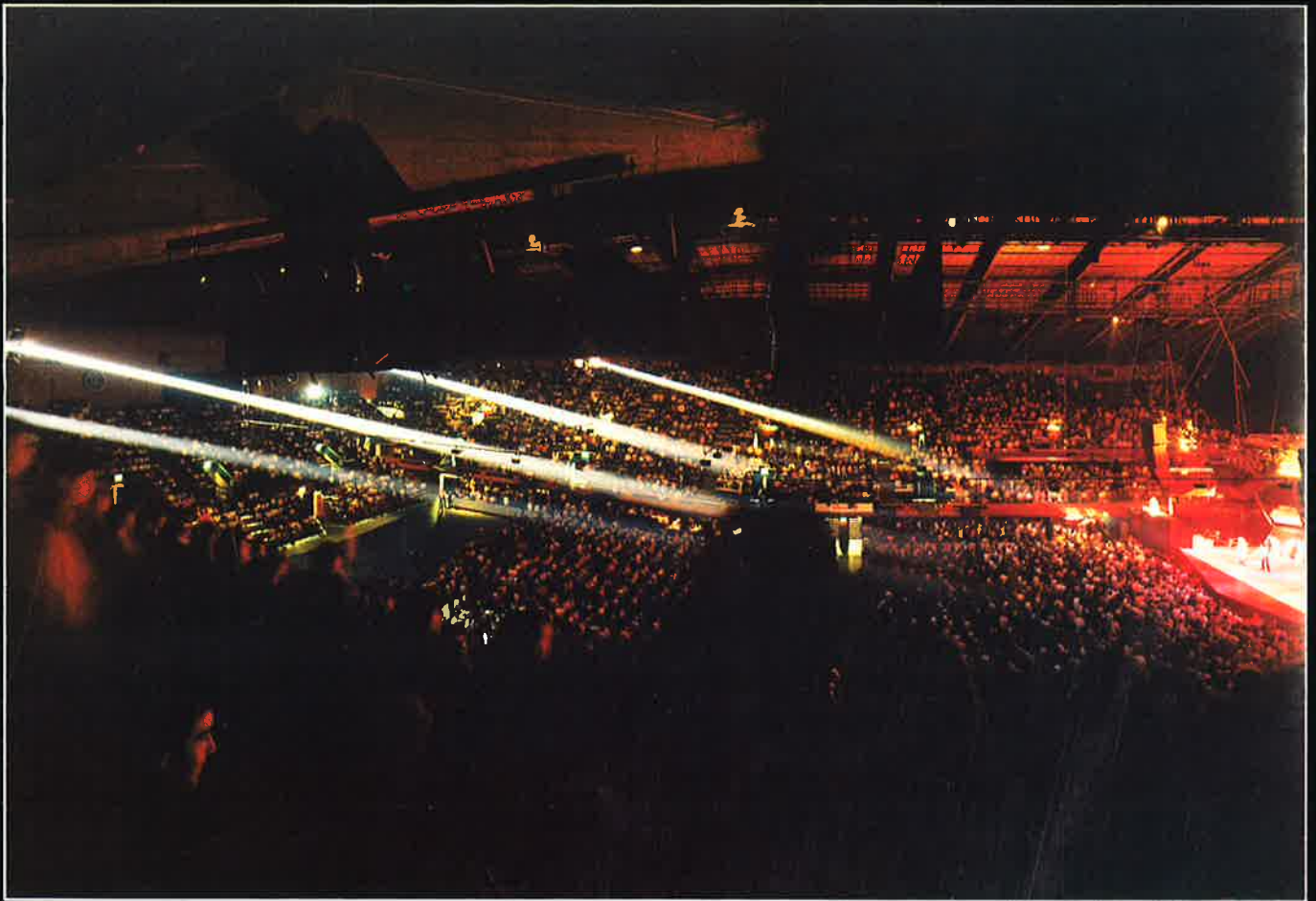


Xenon Lamps

lenco
lighting ltd.

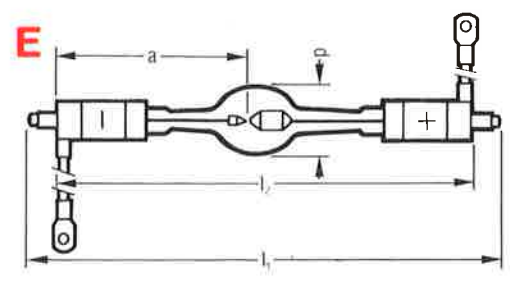
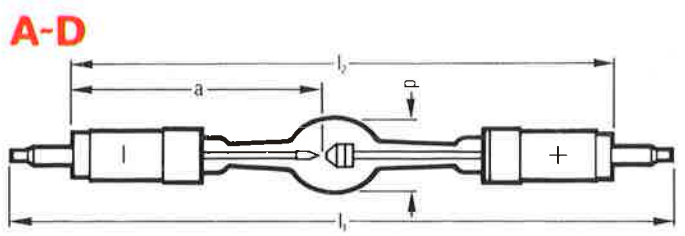
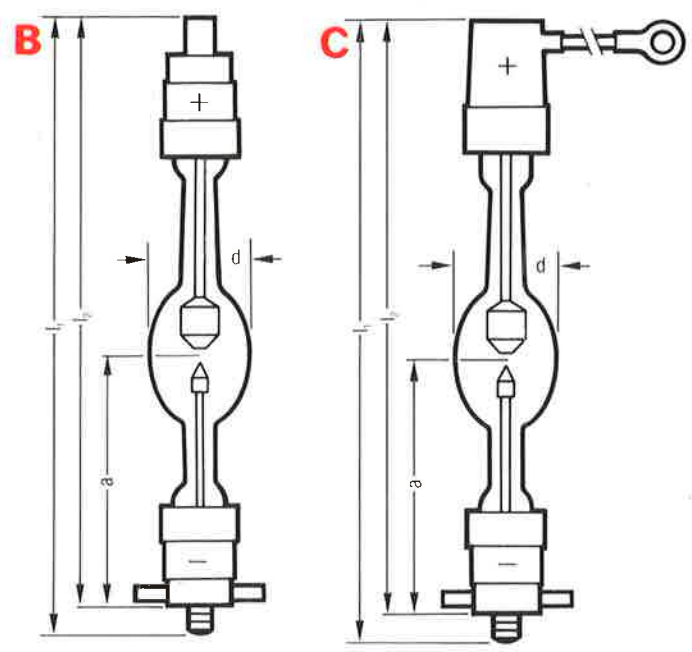
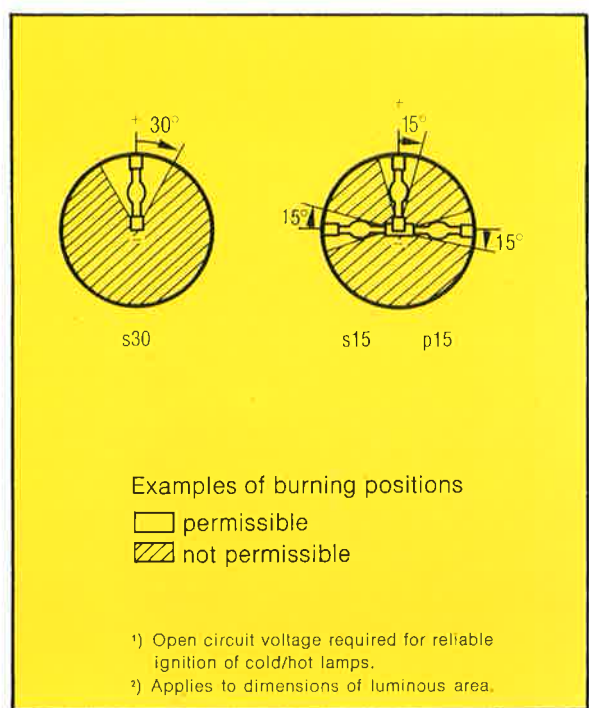


Projecting the perfect image

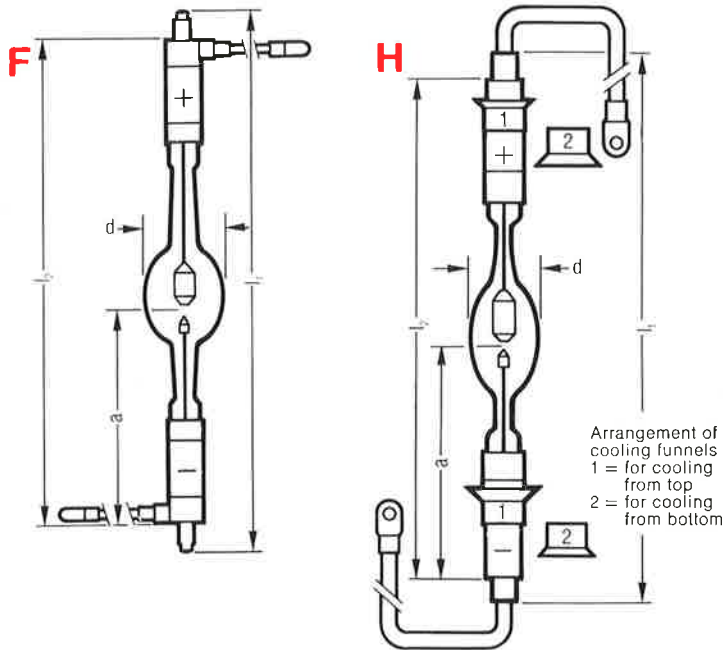
THORN EMI SHORT ARC XENON LAMPS

A COMPREHE

Lamp (Order reference)		250W 98-0351 V	500W 98-1005 V-H	700W 98-1351 H-V	900W 98-1361 V	1000W 98-1439 H.S.C.	1000W 98-1431 H-V	1600W 98-1476 H.S.
Supply voltage ¹⁾ min. U_v	V	55/65	60/80	65/75	60/70	65/75	65/75	65/75
Operating Voltage approx. U_L	V	14	18	19	20	20	20	22
Current J_L	A	18	28	37	45	50	50	65
Power P_L	W	250	500	700	900	1000	1000	1450
Luminous flux ϕ	lm	4800	14500	20000	30000	32000	32000	60000
Light intensity I	cd	530	1450	2000	3000	3000	3000	5500
Average luminance ²⁾ L	cd/cm ²	26000	40000	40000	50000	60000	60000	70000
Current J_L	A	—	—	—	53	—	—	—
Luminous flux ϕ	lm	—	—	—	39000	—	—	—
Light intensity I	cd	—	—	—	3900	—	—	—
Average luminance ²⁾ L	cd/cm ²	—	—	—	6200	—	—	—
Current control range	A	—	17-30	30-45	30-53	30-55	30-55	45-70
Average life (h) at	vertical s	1200	2000	1500	2000	1500	1500	1500
Burning position	horizontal p	—	2000	1500	—	1500	1500	1500
Burning position		S 15	S 30-P 30	S 20-P 20	S 30	S 20-P 20	S 20-P 20	S 20-P 20
Arc stabilization		Required	— Required	— —	—	— —	— —	— —
Forced cooling		—	Required	Required	—	Required	Required	Required
Luminous area w x h	mm	0.7 x 1.7	0.9 x 2.5	1.1 x 2.9	1.1 x 3.3	1.1 x 2.8	1.1 x 2.8	1.5 x 3.3
Diameter d	mm	25	35	40	40	40	40	46.5
Length l_1	max. mm	226	190	235	325	236	235	235
Length l_2	max. mm	192	165	205	277	222	205	205
Distance a	mm	94	76	96.5	125	96.5	96.5	96.5
Fig. No.		A	A	B-C	A	C	B	B
Ozone Free		OFR	OFR	OFR	OFR	OFR	OFR	OFR

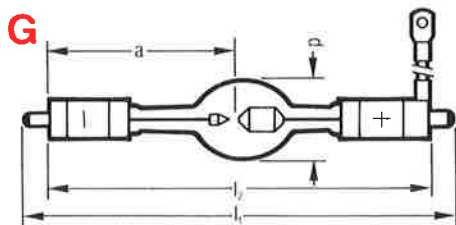


1600W 98-1479 H.S.C.	1600W 98-1477 V	2000W 98-1516 H-V	2500W 98-1841 V	2500W 98-1842 H	3000W V-H 98-1902 H-S 98-1903	4000W 98-1910 V	4000W 98-1911 V - HS	6500W 98-1915 V
65/75	65/75	85/110	75/85	70/90	85/110	85/110	75/100	85/110
22	25	29	30	28	30	33	30	41
65	65	70	83	90	100	120	135	160
1450	1600	2000	2500	2500	3000	4000	4000	65000
60000	60000	80000	100000	100000	130000	180000	155000	325000
5500	6000	7500	9500	10000	12000	19000	17000	32000
70000	65000	75000	61000	80000	85000	70000	90000	95000
—	75	—	95	—	—	140	—	—
—	77000	—	124000	—	—	230000	—	—
—	7400	—	11700	—	—	24000	—	—
—	80000	—	72000	—	—	85000	—	—
45-70	45-75	50-85	60-95	70-100	60-110	60-140	80-150	80-160
1500	2000	2000	1500	1500	1500	1000	800	500
1500	—	2000	—	1200	1200	—	800	—
S 20-P 20	S 30	S 30-P 30	S 30	S 30-P 20	S 30-P 30	S 15	S 20-P 20	S 10
—	Required	Required	—	—	Required	—	—	—
Required	—	Required	—	Required	—	Required	Required	Required
1.5 x 3.3	1.4 x 4.0	1.3 x 4.8	1.5 x 6.0	1.5 x 4.5	1.7 x 5.7	2.0 x 7.5	1.9 x 6.0	2.3 x 9.0
46.5	52	60	57	60	66	60	70	61
236	370	370	428	342	428/342	432	410	483
222	322	322	382	302	382/302	384	370	434
96.5	145	145	171	147	171/148	180	174	205
C	D	E	F	G	E-G	H	G	H
OFR	OFR	OFR	OFR	OFR	OFR		OFR	



Matt Screen (0.8 Gain)		1.6 Gain Screen	
Xenon Lamps in Kilowatts	Screen Width Meters Feet	Xenon Lamps in Kilowatts	Screen Width Meters Feet
4.0	2	1.0	2
3.0	3	1.6	3
2.0	4	2.0	4
1.6	5	3.0	5
1.0	6	4.0	6
	7		7
	8		8
	9		9
	10		10
	11		11
	12		12
	13		13
	14		14
	15		15
	16		16
	17		17
	18		18

Screen Illumination
Screens somewhat larger than those shown above can be illuminated to these standards if bulbs are used at their maximum current.

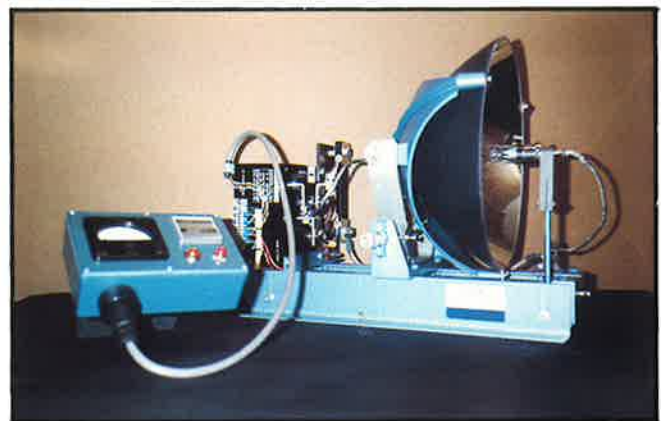


LAMP REFERENCE TABLE

THORN Xe	OSRAM XBO	PHILIPS CSX	USHIO UXL	TUNGSRAM XHP	TOSHIBA XD	ORC XM	WACOM KXO	HANOVA CH
98.1005	500 W/H	500 W H	5-S	500 W/H	(550 S/1)			500/HS
98.1351	700 W/HS	700 W HS	7-S	700/HS		XM 750 HS		700/HS
98.1361	900 W	900 W	900	900	900	XM 900 H/V	900 F	900/V
98.1431	1000 W/HS	1000 W HS	10-S	1000/HS	1000S/H	XM 1000 HS	1000 HSF	1000/HS
98.1439	1000 W/HSC	1000 W HSC	10-SC	1000/HSC	(1000 S/HC)			
98.1477	1600 W	1600 W	1600	1600	1600	XM 1600 V	1600 F	1600/V
98.1476	1600 W/HS	1600 W HS	16-S	1600/HS	1600 S/H	XM 1600 HS	(1600 HMF)	1600/HS
98.1479	1600 W/HSC	1600 W HSC	16-SC	1600/HSC	(1600 S/HC)	XM 1600 HSC		1600/HWL
98.1516	2000 W/HS					XM 2000 HS		
98.1841	2500 W	2500 W	2500	2500	2500	XM 2500 H/VC	2500 F	2500/VWL
98.1842	2500 W/HS	2500 W HSC	25-SC		2500 S/H	XM 2500 HS	2500 HSF	2500/HS
98.1902	3000 W/H	3000 W HC				XM 3000 H/VC	3000 HF	3000/HWL
98.1903	3000 W/HS					XM 3000 HS		
98.1910	4000 W		4000 K	4000			4000 F	4200/VWL
98.1915	6500 W						6500 F	

Total commitment

As a member of the THORN EMI Company and one of Europe's largest manufacturers of lighting components, THORN EMI Lamps & Components Limited is in the enviable position of being able to offer a unique facility to customers, backed up by over 50 years of lighting and technical experience. Our commitment to research and development is well known and Xenon lamps represent just one aspect of high pressure discharge lamp development.



Attention!

When handling Xenon lamps, face mask and gloves must be worn when lamphouse doors are opened for maintenance, cleaning or changing lamps. Should a lamp fail for any reason during operation it is imperative to let it cool down some 20 minutes before attempting to replace.

The conversion block, together with its pre-wired Electronic Control Unit, Door Safety Switch, and other accessories, provide a complete package for the conversion of carbon arcs to that of horizontally operated Xenon bulbs.

1025 Conversion Unit

Most carbon arcs can be converted to Xenon bulb operation. The THORN EMI Conversion Unit M1025 has been specially designed to a size that will enable it to be installed in the majority of carbon arc lamphouses.

The above include the Electronic Control Unit containing the Ammeter, Time Elapse Meter, Mains Neon Light Indicator, Strike and Meter Switches, the E53 Mirror, Safety Door Switch and full instructions for installation and alignment. The whole package is supplied in one case measuring 59 x 36 x 36cm approx.

UNIT 2, HASLERS LANE, GREAT DUNMOW, ESSEX, TEL. 0371 - 3779 FAX 0371 - 2351

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