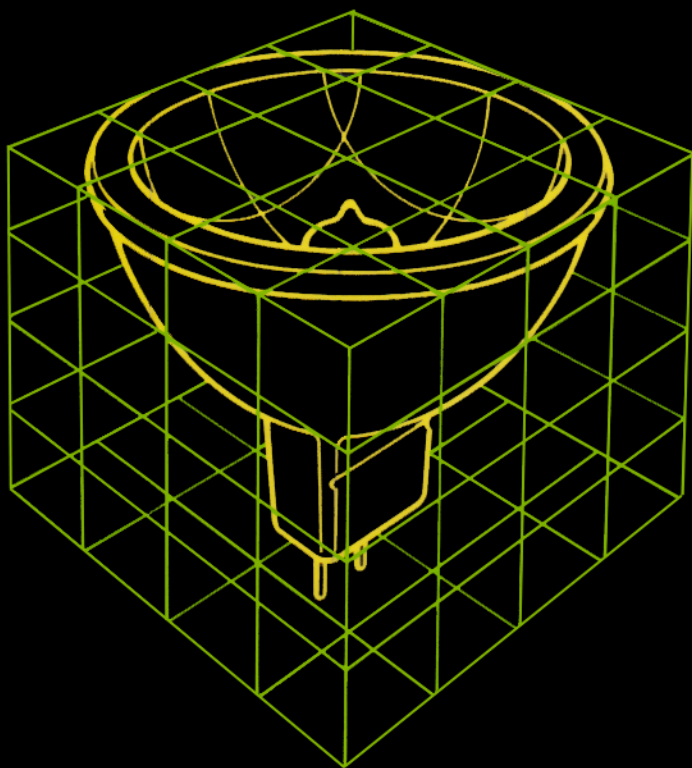


THE
COMPREHENSIVE
CATALOGUE
1987/8



 **THORN EMI Lighting**

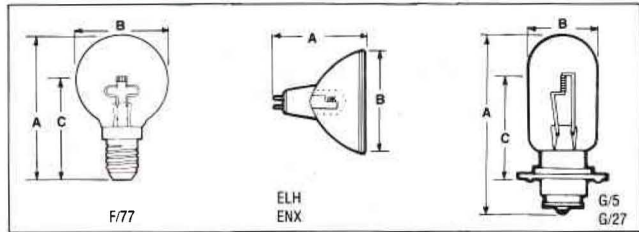
PHOTOGRAPHIC, AUTO AND MINIATURE LAMPS

Projector lamps	278
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Lamp caps	281
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PROJECTOR LAMPS, CLASS A1, F, & G

THORN EMI manufacture a wide range of photographic, studio and theatre lamps.

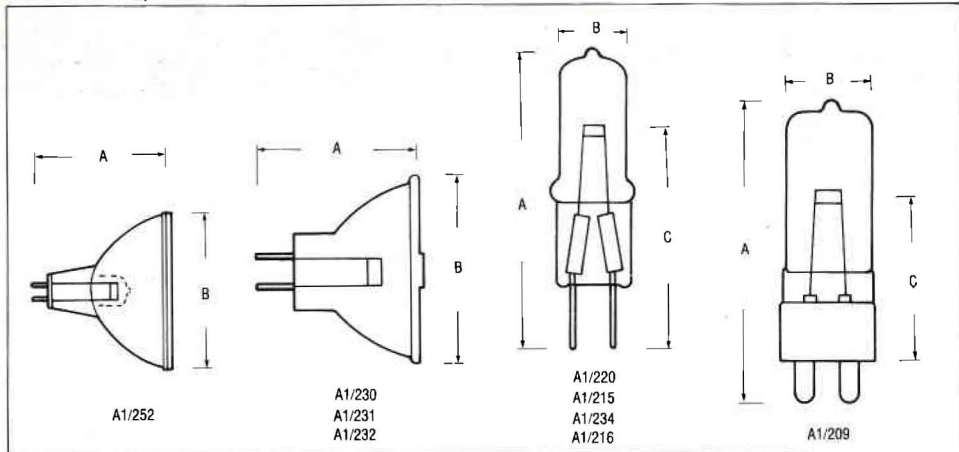
Only a few representative types are shown here. A full listing appears in the Comprehensive Price List. Specialist brochures and data sheets for some lamps are available from your nearest THORN EMI Lighting Regional Sales Office.



PROJECTOR LAMPS CLASSES F AND G

Lamp ref.	ANSI code	Voltage	Watts	Cap	A Maximum overall length	B Maximum bulb diameter	C Light centre length	Nominal lumens	Rated average life hrs.	Operating position
F/77	12	50	SES	70	40.0	48 ± 3	950	50*	BD ± 135°	*At 13.5v
	ELH	120	300	GY5-3	44.5	50.6	—	35	BD ± 90°	Focal distance 152.5 mm
	ENX	82	360	GY5-3	44.5	50.6	—	75	BD ± 90°	Focal distance 289 mm
G/27	BRK	4	0.75	P30s	50	16.5	28.5 ± 0.5	30	50	Universal Vertical filament
G/5	BSS	6	1.0	P30s	57	16.5	28.5 ± 0.5	80	100	BD ± 45° Vertical filament

PROJECTOR LAMPS, CLASS A1

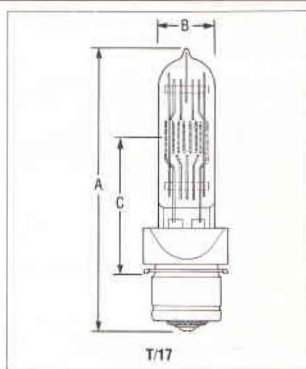
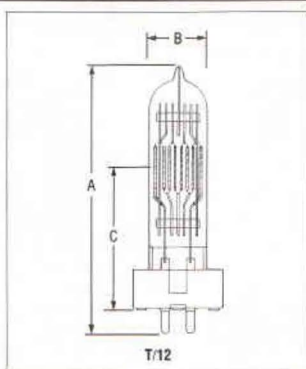
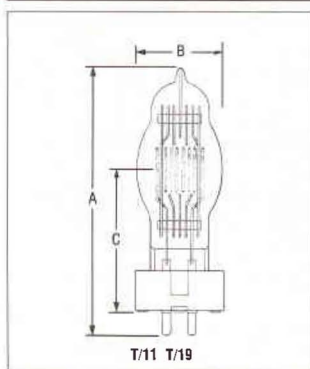


TUNGSTEN HALOGEN PROJECTOR LAMPS CLASS A1 (50-200W)

Lamp ref.	ANSI code	Voltage	Watts	Cap	A Maximum overall length	B Maximum bulb diameter	C Light centre length	Nominal lumens	Rated average life hrs.	Operating position
A1/220	BRL	12	50	G6-35	44	11.5	30 ± 0.25	1400	50	BD ± 90° Focal distance 32mm
A1/230	EFN	12	75	G6-35	42	50	—	50	HOR	Focal distance 32mm
A1/209	FDX	12	100	G6-35	44	11	24 - 0.5	3000	50	BD ± 90°
A1/215	FCR	12	100	G6-35	44	11	30 ± 0.25	3000	50	BD ± 90°
A1/231	EFP	12	100	G6-35	42	50	—	50	HOR	Focal distance 32mm
A1/232	EFR	15	150	G6-35	42	50	—	50	HOR	Focal distance 32mm
A1/234	BRJ	15	150	G6-35	44	11	30 ± 0.25	4650	50	BD ± 90°
A1/216	FCS	24	150	G6-35	47	13.5	32 - 0.5	5000	50	BD ± 90°
A1/252	EJL	24	200	GX5-3	44.5	50.6	—	—	50	HOR Focal distance 32mm

All these projector lamps should have a minimum bulb wall temperature of 350°C for the tungsten halogen cycle to function fully.

THEATRE SPOTLIGHT LAMPS, CLASS T



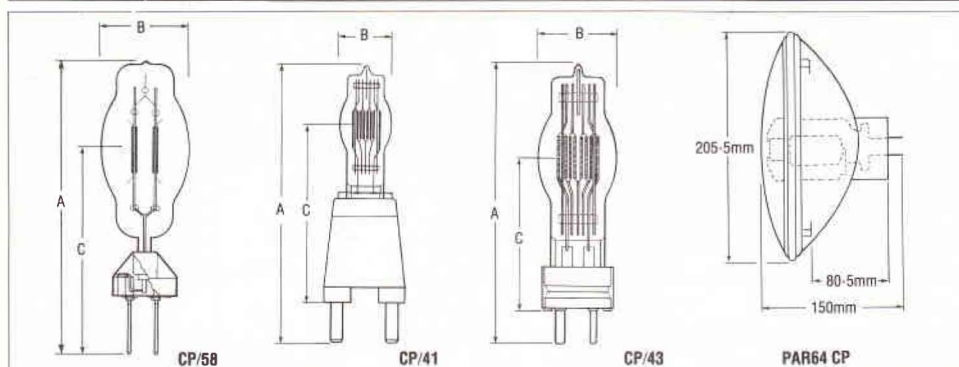
THEATRE SPOTLIGHT LAMPS CLASS T

Lamp ref.	Voltage	Watts	Cap	A Maximum overall length	B Maximum bulb diameter	C Light centre length	Nominal lumens	Rated average life hrs.	Operating position	Replaces
T/17*	240	500	P28s	130	25	55.5	9500	750	BD ± 90°	Replaces T/1
T/12*	240	650	GX9.5	110	25	55	13500	750	BD ± 90°	Replaces T/10
T/11†	240	1000	GX9.5	110	35	55	23000	750	BD ± 90°	Replaces T/9
T/19†	240	1000	GX9.5	110	35	55	21000	750	BD ± 90°	

* 3 or 4 amp HBC fuse necessary

† 5 or 6 amp HBC fuse necessary

PHOTOGRAPHIC LAMPS, CLASS CP & P

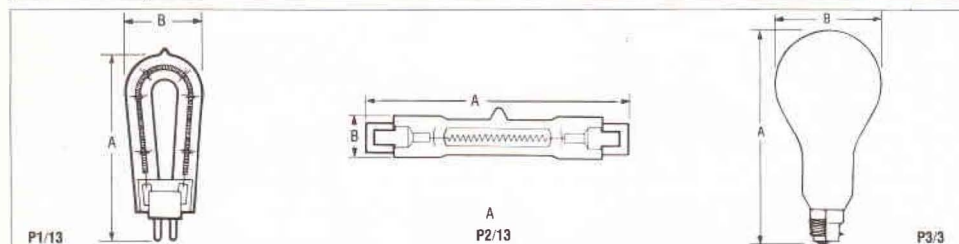


TUNGSTEN HALOGEN PHOTOGRAPHIC LAMPS CLASS CP (Suitable for use with colour film balanced for 3200K)

Lamp ref.	ANSI code	Voltage	Watts	Cap	A Maximum overall length	B Maximum bulb diameter	C Light centre length	Nominal lumens	Rated average life hrs.	Operating position
CP/58		240	1250/2500	GX38q	220	70	143	27000/59000 91000	300	BD ± 45°
CP/41	FKK	240	2000	G38	210	40	127	54000	400	BD ± 90°
CP/43		240	2000	GY16	145	40	70	54000	400	BD ± 90°

PAR 64 SEALED BEAM CP LAMPS

Lamp ref.	ANSI code	Voltage	Watts	Cap	Peak intensity k cds	Beam angle to ½ peak (°)	Field angle to ¼ peak (°)	Rated average life hours	Operating position
CP/86	EXC	240	500	EMEP	240	V7 x H10	V13 x H16	300	Universal Clear Spot
CP/87	EXD	240	500	EMEP	140	V9 x H11	V16 x H19	300	Universal Stipple Spot
CP/88	EXE	240	500	EMEP	65	V10 x H21	V19 x H32	300	Universal Flood
CP/60		240	1000	EMEP	320	V9 x H12	V17 x H20	300	Universal Clear Spot
CP/61		240	1000	EMEP	140	V10 x H14	V20 x H22	300	Universal Stipple Spot
CP/62		240	1000	EMEP	65	V11 x H24	V20 x H38	300	Universal Flood



PHOTOGRAPHIC LAMPS CLASS P

Lamp ref.	ANSI code	Voltage	Watts	Cap	A Maximum overall length	B Maximum bulb diameter	Nominal lumens	Rated average life hrs.	Operating position
P1/13*	BVM	240/250	650	G6.35	65	28	20000	15	BD ± 90°
P2/13†	DXX	240/250	800	R7s	80	15	20000	75	Universal
P3/3		240	75	BC, ES	108.5	61	1150	100	Universal

* 3 or 4 amp HBC fuse necessary

† 5 or 6 amp HBC fuse necessary



B22d



B22d-3



B15d



P40s



P28s



E40s



E27s



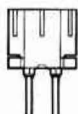
E14s



E12



BA20d



GX38q



PG22



BHP30s

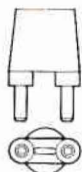


GX9-5

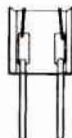


G17q

G17t



G38



G6-35



G4



R7s



GY7-9



GY16



G22



GY9-5



EMEP



5-3mm
GX5-3

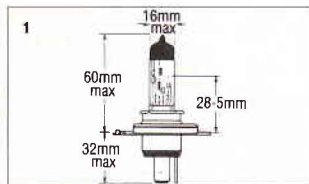


4mm
G24

AUTO AND MINIATURE LAMPS

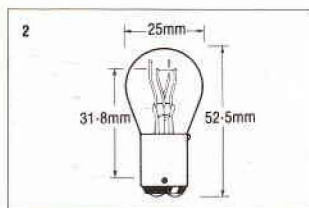
THORN EMI manufacture a wide range of vehicle and miniature lamps. These are supplied to the major European vehicle manufacturers for initial embodiment and the same high quality should be used for lamps for replacement purposes.

Only a few representative types are shown here. A full listing appears in the Comprehensive Price List and specialist brochures and data sheets for some lamps are available from your nearest THORN EMI Lighting Regional Sales Office.



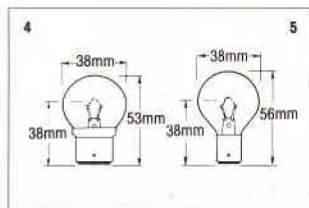
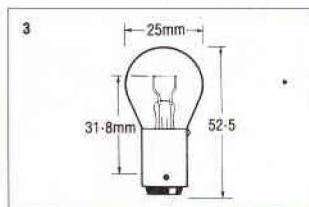
H4 TUNGSTEN HALOGEN HEADLAMP

Lamp ref.	European reference	Voltage	Watts	Cap	Diagram	Standard pack
472	H4	12	60/55	P43t	1	10
475	H4	24	75/70	P43t	1	10
2970		12	100/80	P43t	1	10



FLASHER, STOP AND STOP/TAIL

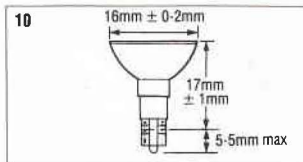
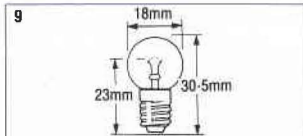
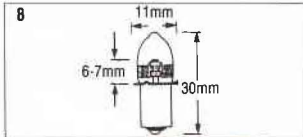
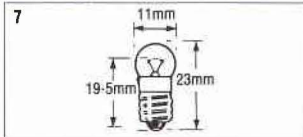
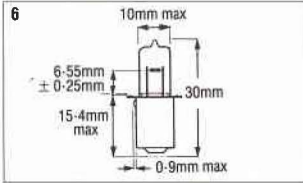
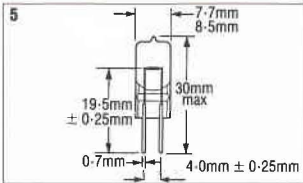
Lamp reference	European reference	Voltage	Watts	Cap	Diagram	Standard pack
382	P25-1	12	21	BA15s	2	10
335	P25-1	12	21	BA15d	2	10
380	P25-2	12	21/5	BAY15d	3	10
241	P25-1	24	21	BA15s	2	10
346	P25-1	24	21	BA15d	2	10
334	P25-2	24	24/6	BAY15d	3	10



BUS LAMPS (FOR INTERIOR LIGHTING)

Lamp reference	Voltage	Watts	Cap	Finish	Diagram	Standard pack
804	12	12	B22d	Pearl	4	100
805	12	12	BA15d	Pearl	5	100
809	12	24	B22d	Pearl	4	100
810	12	24	BA15d	Pearl	5	100
816	24	12	B22d	Pearl	4	100
817	24	12	BA15d	Pearl	5	100
821	24	20	B22d	Pearl	4	100
822	24	20	BA15d	Pearl	5	100

MINIATURE LAMPS



MINERS LAMPS

Lamp reference	Voltage	Current	Cap	Nominal lumens	Average life hours	Lampholder	Diagram
GH47	4	1A	P13-5s	48	600	—	6
GH48	4.2	1A	P13-5s	52	600	—	6
GH49	4	1.2A	P13-5s	60	600	—	6

CYCLE LAMPS

Lamp reference	Voltage	Watts	Cap	Nominal lumens	Average life hours	Lampholder	Diagram
GH90	6	2.4	P13-5s	36	100	—	6
GH98	6	2.4	P13-5s	36	100	—	6

BATTERY AND RECHARGEABLE BATTERY TYPES

Lamp reference	Voltage	Watts	Cap	Nominal lumens	Average life hours	Lampholder	Diagram
GH11	6	6	G4	100	100	GL1211/12	5
GH15	6	6	P13-5s	100	100	—	6
GH20	6	10	G4	200	200	GL1211/12	5
GH24	6	10	P13-5s	200	200	—	6
GH82	3.6	6	P13-5s	120	120	—	6
GH95	6	5	G4	75	75	GL1211/12	5

MINERS AND EMERGENCY LAMPS

Lamp reference	Voltage	Amps	Cap	Type	Standard pack	Diagram
5-02315	3.6	1	E10/13	Krypton	25	9
3-70879	4	0.9	E10/13	Krypton	25	9
2-02322	4	1	E10/13	Krypton	25	9
6-78029	4	1	P13-5s	Krypton	25	8
1-70219	4	0.75	P13-5s	Krypton	25	8
9-02312	4	0.46	E10/13	Vacuum	25	7
2-76929	2.4	1.0	E10/13	Krypton	25	9
2-77572	3.6	0.6	E10/13	Krypton	25	9

INTEGRAL OPTIC REFLECTOR LAMP

Accurately focused lamp with solid reflector and dispersive lensing. Surface brightness sufficient for clear visibility under incident sunlight. For dot matrix and other displays.

Lamp ref.	Voltage	Watts	Cap	Standard pack	Diagram
2-79670	12	1.2	W2 x 4-6d	100	10