



GE Thorn

Photo, Stage & Studio lamps



New star

CP100-104 Halogen PAR 64

The GE Thorn axially mounted PAR 64 lamp has become the industry standard for European voltage use. This 1500W lamp is ideal for use in multiple arrays where a substantial reduction in the size and weight of luminaires for equivalent beam performance can be achieved.



CSR Discharge 'Daylight'

The Compact Source Rare Earth lamp complements the GE Thorn range of CID lamps and is ideal for lighting in Film, Studio, Stage, Theatre and Disco.

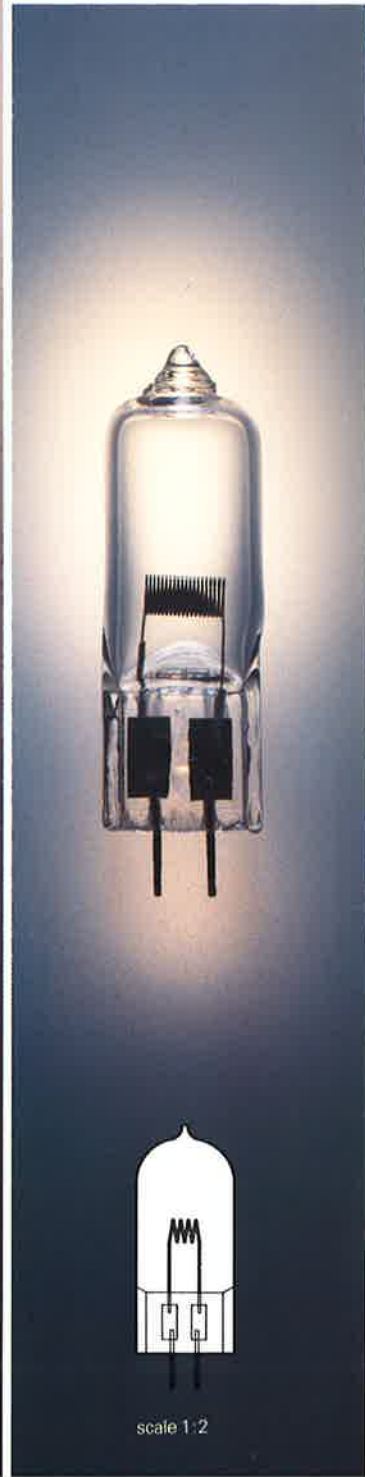
CSR is a range of high pressure discharge sources with extra high efficacies: i.e. 575W= 49 lm/W; 1200W= 110 lm/W; 2500W= 240 lm/W. They are dimmable and feature a stable colour temperature of 5600K throughout life.

Availability September 1991
Illustrated CSR 2500W HR



A1/239 400W Halogen Projector

A relatively inexpensive, compact and efficient source, ideal for image projection in the Disco market. The lamp is capable of being dimmed by conventional systems and is suitable for sound-to-light chasing.

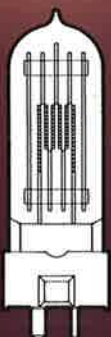


scale 1:2

performers

CP98 1KW Halogen 'Raylight'

A 1KW option for lightweight aluminium reflectors (eg Raylight), to complement the standard 300W and 500W lamps using the GY9.5 base. The lamp offers a duty cycle of 50%, suitable for typical uses such as Rock Concert chasing or Theatre affects.

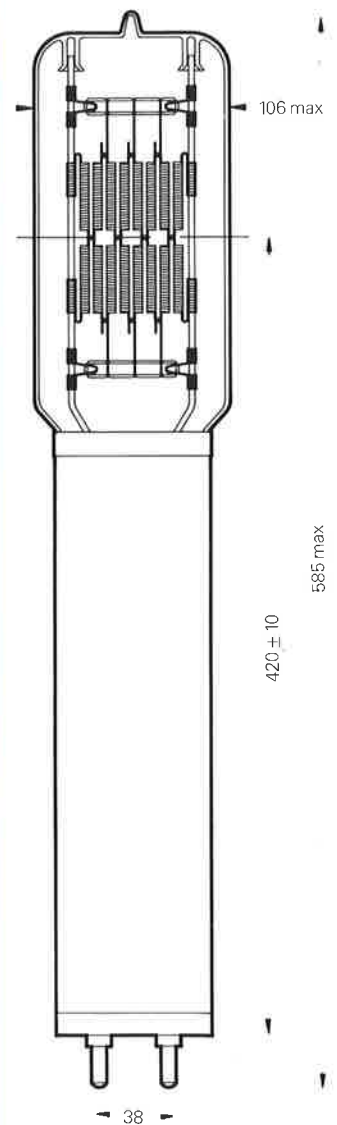


scale 1:2



CP27 20KW Halogen Studio

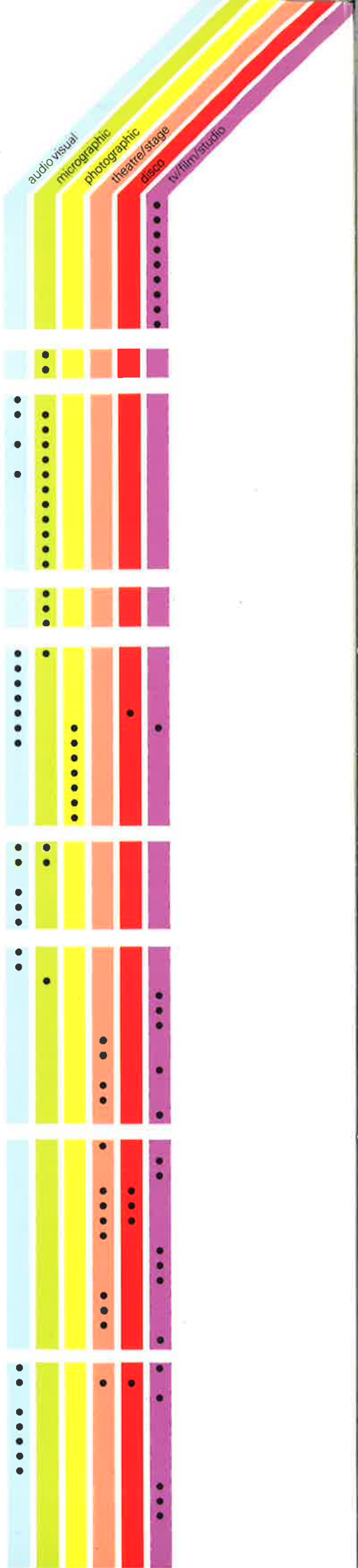
With this massive light source, standing 2 feet high and producing a staggering 570,000 lumens, GE Thorn engineering sets a new bench mark in Halogen technology.



scale 1:4

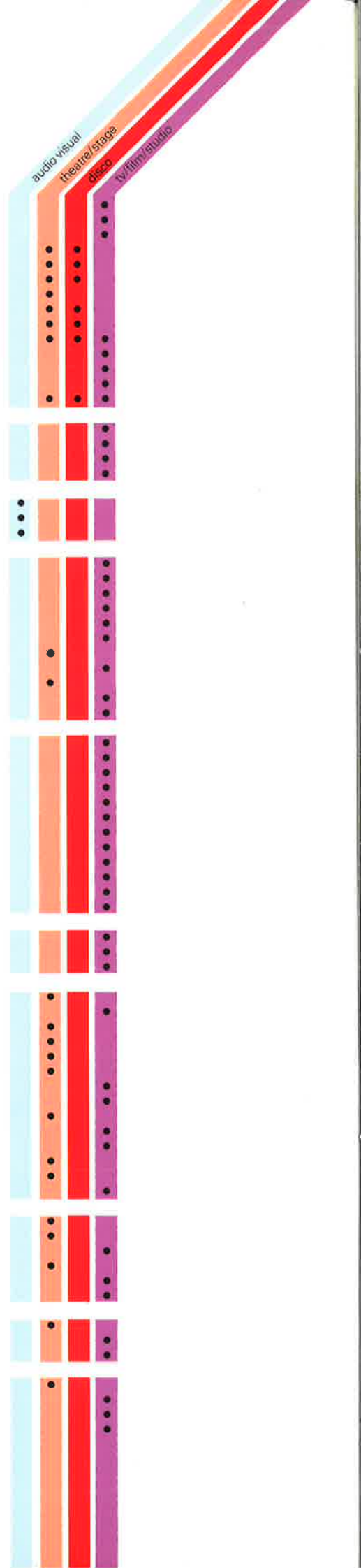
Single ended halogen lamps

LIF	ANSI	equivalent base	watts	volts	light centre length mm	focal length mm	maximum overall length mm	life hours	colour K	lumens	filament
—	DSE	—	E40s 1000	120	—	—	296	500	3200	26000	CC
—	DSF	—	E40s 1500	120	—	—	296	750	3200	41000	CC
CP59	—	—	E40s 2000	220,240	133	—	190	300	3200	50000	CC
—	BWF	—	E40s 2000	120	133	—	190	400	3200	59000	CC
—	BWG	—	E40s 2000	120	133	—	190	400	3200	56000	CC
—	FWG	—	E40s 2000	120	128	—	222	500	3200	58000	CC
—	FWJ	—	E40s 2000	120	128	—	222	500	3200	56000	CC
—	FWH	—	E40s 2000	120	171	—	299	500	3200	58000	CC
—	BWL	—	E40s 2000	120	171	—	299	500	3200	56000	CC
—	FLS	—	GZ4 28	12	—	216	40	1000	3000	—	—
—	FLT	—	GZ4 25	13.8	—	76 or 175	40	500	3100	—	—
A1/252	EJL	—	GX5.3 200	24	—	32	44	50	3400	—	—
A1/259	ELC	—	GX5.3 250	24	—	32	44	50	3400	—	—
—	DDL	—	GX5.3 150	20	—	194	44	500	3150	—	—
—	DDM	—	GX5.3 80	19	—	152	44	50	3350	—	—
—	DDS	—	GX5.3 80	21	—	165	44	500	3125	—	—
—	DED	—	GX5.3 85	13.8	—	165	44	1000	3150	—	—
—	ELD/EJN	—	GX5.3 150	21	—	165	44	40	3350	—	—
—	ENL	—	GX5.3 50	12	—	38	44	3000	3050	—	—
—	EPV	—	GX5.3 90	14.5	—	155	44	500	3150	—	—
—	EPX	—	GX5.3 90	14.5	—	165	44	500	3150	—	—
—	EWf	—	GX5.3 200	24	—	298	44	50	—	—	—
—	FHX	—	GX5.3 25	13.8	—	108	44	250	3200	—	—
—	ELH	—	GY5.3 300	120	—	152	44	35	3350	—	—
—	ENH	—	GY5.3 250	120	—	152	44	175	3250	—	—
—	ENX	—	GY5.3 360	82	—	298	44	75	3300	—	—
A1/216	FCS	—	G6.35 150	24	—	32	50	50	3400	5200	—
A1/220	BRL	—	G6.35 50	12	30	—	44	50	3400	1500	—
A1/223	EHJ	—	G6.35 250	24	33	—	55	50	3400	9400	—
A1/234	BRJ	—	G6.35 150	15	30	—	44	50	3400	5000	—
<i>new</i> A1/239	EVD	—	G6.35 400	36	36	—	60	150	—	14500	—
A1/248	—	—	G6.35 150	120,220,240	40	—	62	50	—	3150	—
A1/249	—	—	G6.35 300	120,220,240	40	—	62	50	—	7350	—
P2/16	—	—	G6.35 650	220,240	—	—	65	50	3200	17500	—
P2/17	DJE	—	G6.35 1000	220,240	—	—	71	50	3200	28000	—
P2/26	—	—	G6.35 1250	220,240	—	—	75	50	3200	35000	—
P1/13	BVM	—	G6.35 650	220,240	—	—	65	15	3400	20000	—
P1/15	DJC	—	G6.35 1000	220,240	—	—	65	15	3400	3200	—
A1/209	FDX	—	GY6.35 100	12	24	—	44	50	3300	3000	—
A1/215	FCR	—	GY6.35 100	12	30	—	44	50	3250	3400	—
A1/230	EFN	—	GZ6.35 75	12	—	32	42	50	3400	—	—
A1/231	EFP	—	GZ6.35 100	12	—	32	42	50	3400	—	—
A1/232	EFR	—	GZ6.35 150	15	—	32	42	50	3400	—	—
A1/258	EMM	—	GX7.9 200	24	—	32	45	50	3400	—	—
A1/266	DNF	—	GX7.9 150	21	—	69	43	50	3400	—	—
—	ELS/ELR	—	GX7.9 50	16	—	205	43	650	3100	—	—
—	EHC	—	G9.5 500	120	60	—	101	300	3200	13000	CC
—	EHD	—	G9.5 500	120	60	—	101	2000	2900	10000	CC
—	FKR	—	G9.5 650	220,240	60	—	101	300	3100	15000	CC
—	FKV	—	G9.5 650	120	60	—	101	300	3150	17000	CC
—	EHG	—	G9.5 750	120	60	—	101	2000	3000	15000	CC
—	EHF	—	G9.5 750	120	60	—	101	300	3200	20000	CC
CP77	FEP	—	G9.5 1000	220,240	60	—	101	300	3200	25000	CC
CP77	FEL	—	G9.5 1000	120	60	—	101	300	3200	27500	CC
—	FCV	—	G9.5 1000	120	60	—	101	300	3200	26500	CC
T12	—	T21	GX9.5 650	220,240	55	—	110	750	3000	13500	MP
CP23	—	CP67	GX9.5 650	120,220,240	55	—	110	100	3200	16900	MP
CP24	—	CP70	GX9.5 1000	220,240	55	—	110	200	3200	27000	MP
T11	—	—	GX9.5 1000	220,240	55	—	110	750	3050	23000	MP
T19	—	—	GX9.5 1000	120	55	—	110	750	3050	24000	BP
T19	FWP	—	GX9.5 1000	220	55	—	110	750	3050	21000	BP
T19	FWR	—	GX9.5 1000	240	55	—	110	750	3050	21000	BP
CP70	—	—	GX9.5 1000	120	55	—	110	250	3200	27000	BP
CP70	FVA	—	GX9.5 1000	220	55	—	110	200	3200	25000	BP
CP70	FVB	—	GX9.5 1000	240	55	—	110	200	3200	25000	BP
T29	—	—	GX9.5 1200	120	67	—	125	400	3050	29000	BP
T29	FWS	—	GX9.5 1200	220	67	—	125	400	3050	29000	BP
T29	FWT	—	GX9.5 1200	240	67	—	125	400	3050	29000	BP
CP90	—	—	GX9.5 1200	120,220,240	67	—	125	200	3200	33000	BP
A1/233	DYR	—	GY9.5 650	220,240	36	—	64	75	3200	16500	—
A1/244	—	—	GY9.5 500	220,240	36	—	75	75	—	13000	—
—	DYG	—	GY9.5 250	30	36	—	63	15	3400	8000	—
A1/245	—	—	GY9.5 800	220,240	44	—	87	75	—	21500	—
A1/247	—	—	GY9.5 650	120,220,240	36	—	75	75	—	17750	—
A1/261	FDT	—	GY9.5 100	12	27	—	57	50	3300	3000	—
A1/262	DZE/FDS	—	GY9.5 150	24	33	—	60	50	3250	4900	—
A1/264	DYS	—	GY9.5 600	120	36	—	64	75	3200	1600	—
CP81	FKW	—	GY9.5 300	120	46	—	90	150	3200	7200	MP
CP81	FSL	—	GY9.5 300	220	46	—	90	150	3200	6900	S
CP81	FSK	—	GY9.5 300	240	46	—	90	150	3200	6900	S



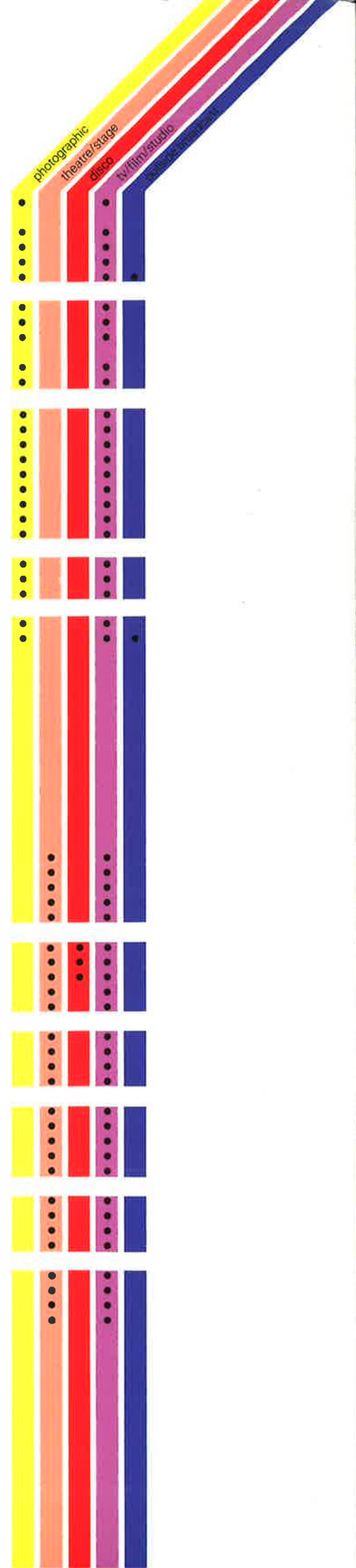
Single ended halogen lamps

LIF	ANSI	equivalent base	watts	volts	light centre length rmm	maximum overall length rmm	life hours	colour K	lumens	filament	
CP82	FRG	—	GY9.5	500	120	46	90	400	3200	13000	MP
CP82	FRH	—	GY9.5	500	220	46	90	400	3200	12500	MP
CP82	FRJ	—	GY9.5	500	240	46	90	400	3200	12500	MP
T18	FRF	T25	GY9.5	500	120	46	90	900	3050	12000	MP
T18	GCV	T25	GY9.5	500	220	46	90	400	3050	11000	MP
T18	GCW	T25	GY9.5	500	240	46	90	400	3050	11000	MP
—	FMR	—	GY9.5	600	120	51	85	2000	3000	12600	CC
T26	FRE	T27	GY9.5	650	120	46	90	400	3050	15000	MP
T26	GCT	T27	GY9.5	650	220	46	90	400	3050	15000	MP
T26	GCS	T27	GY9.5	650	240	46	90	400	3050	15000	MP
CP89	FRK	—	GY9.5	650	120	46	90	200	3200	16900	MP
CP89	FRL	—	GY9.5	650	220	46	90	150	3200	16250	MP
CP89	FRM	—	GY9.5	650	240	46	90	150	3200	16250	MP
new CP98	—	—	GY9.5	1000	220,240	46.5	90	125	3200	26000	MP
CP43	—	CP72	GY16	2000	120	70	145	400	3200	54000	MP
CP43	FTM	CP72	GY16	2000	220	70	145	400	3200	54000	MP
CP43	FTL	CP72	GY16	2000	240	70	145	400	3200	54000	MP
CP79	—	—	GY16	2000	120,220,240	70	145	350	3200	54000	BP
A1/241	BCK	—	G17T	500	120	40	94	50	3200	—	—
A1/241	—	—	G17T	500	220,240	40	94	50	3200	—	—
A1/268	EPS	—	G17T	500	220,240	40	94	50	3250	—	—
—	EGN	—	G22	500	120	63	140	150	3200	13000	MP
CP39	FKG	CP68	G22	650	120	63	140	100	3200	16900	MP
CP39	FKH	CP68	G22	650	220,240	63	140	100	3200	16900	MP
—	EGR	—	G22	750	120	63	140	200	3200	20500	MP
—	EGT	—	G22	1000	120	63	140	250	3200	28000	MP
CP40	FKJ	CP71	G22	1000	220,240	63	140	200	3200	26000	MP
T30	—	—	G22	1000	220,240	63	140	750	3000	21000	BP
CP93	—	—	G22	1200	120,220,240	63	140	200	3200	33000	BP
T31	—	—	G22	1200	220,240	63	140	400	3050	29000	BP
CP92	—	—	G22	2000	120,220,240	90	175	400	3200	52000	BP
CP91	—	—	G22	2500	120,220,240	90	175	400	3200	67500	BP
—	CYV	—	G38	1000	120	127	203	250	3200	28000	MP
—	CXZ	—	G38	1500	120	127	210	300	3200	41000	MP
—	BWA	—	G38	2000	120	127	210	400	3200	59000	CC
—	CYX	—	G38	2000	120	127	210	400	3200	56000	MP
CP41	FKK	CP73	G38	2000	220,240	127	210	400	3200	54000	MP
CP94	—	—	G38	2500	220,240	127	210	400	3200	67500	BP
HX48	—	—	G38	3000	120,220,240	127	210	400	3200	82000	MP
CP29	—	CP85	G38	5000	220,240	165	280	500	3200	135000	MP
—	DPY	—	G38	5000	120	165	280	500	3200	145000	MP
—	DTY	—	G38	10000	120	254	405	500	3200	290000	MP
CP83	—	—	G38	10000	220,240	254	380	500	3200	290000	MP
new CP27	—	—	G38	20000	220,240	420	585	500	3200	570000	MP
CP30	—	—	GX38q	1250/1250	220,240	143	220	300	3200	27/56000	TF
CP58	—	—	GX38q	1250/2500	220,240	143	220	300	3200	27/59/91000	TF
CP32	—	—	GX38q	2500/2500	220,240	143	220	300	3200	59/127000	TF
—	BTL	—	P28s	500	120	55	130	750	2950	11000	MP
—	BTM	—	P28s	500	120	55	130	150	3200	13000	MP
T28	—	—	P28s	500	220,240	55	130	300	3000	11000	MP
T17	FKF	T24	P28s	500	220,240	55	130	750	2950	9500	MP
T13	FKA	T22	P28s	650	120	55	130	750	3000	13500	MP
T13	FKB	T22	P28s	650	220,240	55	130	750	3000	13500	MP
CP51	FKL	CP69	P28s	650	120	55	130	100	3200	17000	MP
CP51	FKM	CP69	P28s	650	220,240	55	130	100	3200	16900	MP
—	BTN	—	P28s	750	120	55	130	750	3000	17000	MP
—	BTP	—	P28s	750	120	55	130	200	3200	20500	MP
—	BTR	—	P28s	1000	120	55	130	250	3200	28000	MP
T14	—	T20	P28s	1000	120	55	130	750	3050	23000	MP
T14	FKD	T20	P28s	1000	220,240	55	130	750	3050	23000	MP
CP52	FKN	—	P28s	1000	220,240	55	130	200	3200	26000	MP
—	EGE	—	P28s	500	120	88.9	152	2000	2900	10000	CC
—	EGG	—	P28s	750	120	88.9	152	2000	2900	15000	CC
—	EGJ	—	P28s	1000	120	88.9	152	500	3200	27500	CC
T15	FKE	T23	P28s	1000	220,240	88.9	160	750	3050	23000	MP
—	EWE	—	P28s	1000	220,240	88.9	152	250	3200	26500	CC
—	EGK	—	P28s	1000	120	88.9	152	500	3200	26500	CC
T16	—	—	P40s	1000	220,240	87	180	750	3050	23000	MP
—	DTA	—	P40s	1500	120	87	200	300	3200	41000	MP
CP53	—	CP74	P40s	2000	120,220,240	87	200	400	3200	54000	MP
—	BVT	—	P40s	1000	120	100	200	500	3050	24500	MP
—	BVV	—	P40s	1000	120	100	200	250	3200	28000	MP
—	CWZ	—	P40s	1500	120	100	215	300	3200	41000	MP
—	BWW	—	P40s	2000	120	100	215	400	3200	56000	MP



Double ended halogen lamps

LIF	ANSI	equivalent base	watts	volts	maximum overall length mm	life hours	colour K	lumens	filament	
P1/8	DWY	—	R7s	250	30	80.6	15	3400	8000	—
—	EHR	—	R7s	400	120	78.3	2000	2900	7500	CC
P2/6	FAD	—	R7s	650	120	78.3	100	3200	16500	CC
P2/6	FBX	—	R7s	650	120	78.3	100	3200	16500	CC
P2/13	DXX	—	R7s	800	220,240	78.3	75	3200	20500	CC
—	DXW	—	R7s	1000	120	93	150	3200	28000	CC
—	FBY	—	R7s	1000	120	93	150	3200	26000	CC
P2/35	—	—	R7s	1000	220,240	93	150	3200	26500	CC
—	FFT	—	R7s	1000	120	165.6	500	3200	26000	SC
—	FDB	—	R7s	1500	120	165.6	400	3200	41000	SC
P2/30	FDL	—	R7s	500	120	117.6	400	3200	13250	SC
P2/31	FDN	—	R7s	500	120	117.6	400	3200	12500	SC
—	EJG	—	R7s	750	120	117.6	400	3200	20000	SC
—	EMD	—	R7s	750	120	117.6	400	3200	19500	SC
P2/11	EME	—	R7s	800	220,240	117.6	150	3200	22000	CC
P2/11	EMF	—	R7s	800	220,240	117.6	150	3200	21400	CC
P2/28	FCM	—	R7s	1000	120	117.6	300	3200	27000	SC
P2/28	—	—	R7s	1000	120	117.6	300	3200	25500	CC
P2/29	FHM	—	R7s	1000	120	117.6	300	3200	26000	SC
P2/10	—	—	R7s	625	220,240	189.1	200	3200	15500	SC
P2/7	EKM	—	R7s	1000	220	189.1	200	3200	26000	SC
P2/12	ELL	—	R7s	1250	220,240	189.1	200	3200	35000	SC
—	FEY	—	RX7s	2000	120	141.5	300	3200	56600	CC
P2/27	FEX	—	RX7s	2000	220,240	141.5	300	3200	50000	CC



PAR 64 halogen lamps

LIF	ANSI	base	watts	volts	life hours	colour K	beam	intensity candela/s	beam angle 50% peak	beam angle 10% peak
<i>new</i> CP100	—	EMEP	1500	220,240	300	3200	VNSP	460 000	10° x 14°	18° x 24°
<i>new</i> CP101	—	EMEP	1500	220,240	300	3200	NSP	350 000	12° x 15°	20° x 26°
<i>new</i> CP102	—	EMEP	1500	220,240	300	3200	MFL	150 000	12° x 30°	22° x 44°
<i>new</i> CP103	—	EMEP	1500	220,240	300	3200	WFL	60 000	20° x 58°	50° x 78°
<i>new</i> CP104	—	EMEP	1500	220,240	300	3200	EWFL	25 000	70° x 66°	120° x 94°
CP60	EXC	EMEP	1000	220,240	300	3200	VNSP	320 000	9° x 12°	17° x 20°
CP61	EXD	EMEP	1000	220,240	300	3200	NSP	270 000	10° x 14°	20° x 22°
CP62	EXE	EMEP	1000	220,240	300	3200	MFL	125 000	11° x 24°	20° x 38°
HX134	EXG	EMEP	1000	220,240	300	3200	WFL	38 000	21° x 57°	36° x 73°
CP95	—	EMEP	1000	220,240	300	3200	EWFL	15 000	70° x 70°	125° x 95°
CP86	—	EMEP	500	220,240	300	3200	VNSP	240 000	7° x 10°	13° x 16°
CP87	—	EMEP	500	220,240	300	3200	NSP	140 000	9° x 11°	16° x 19°
CP88	—	EMEP	500	220,240	300	3200	MFL	65 000	10° x 21°	19° x 32°
HX115	—	EMEP	500	220,240	300	3200	EWFL	7 000	66° x 66°	85° x 85°
—	FFN	EMEP	1000	120	400	3200	VNSP	400 000	6° x 12°	10° x 24°
—	FFP	EMEP	1000	120	400	3200	NSP	330 000	7° x 14°	14° x 26°
—	FFR	EMEP	1000	120	400	3200	MFL	125 000	12° x 28°	21° x 44°
—	FFS	EMEP	1000	120	400	3200	WFL	40 000	24° x 48°	45° x 71°
—	GFF	EMEP	1000	120	400	3200	EWFL	16 000	67° x 68°	135° x 130°
HX154	—	EMEP	1000	120	4000	2950	NSP	220 000	8° x 16°	15° x 30°
HX154	—	EMEP	1000	120	4000	2950	MFL	100 000	12° x 24°	24° x 44°
HX154	—	EMEP	1000	120	4000	2950	WFL	35 000	20° x 56°	56° x 88°
HX154	—	EMEP	1000	120	4000	2950	EWFL	13 000	66° x 70°	144° x 148°
HX156	GFB	EMEP	1200	120	400	3200	NSP	450 000	8° x 10°	16° x 18°
HX156	GFA	EMEP	1200	120	400	3200	MFL	160 000	18° x 24°	22° x 36°
HX156	GFE	EMEP	1200	120	400	3200	WFL	45 000	20° x 58°	34° x 71°
HX156	GFD	EMEP	1200	120	400	3200	EWFL	20 000	65° x 65°	95° x 145°

CSI single ended discharge lamps

code	base	watts	light centre length mm	maximum overall length	arc gap mm	life hours	colour K	lumens	restrike time mins
99-0201	BIPIN	400	25.5	55	9	500	4000	32 000	5
99-0221	G22	1000	63.5	115	15	500	4000	90 000	5
99-0421	G38	1000	63.5	115	15	500	4000	90 000	INSTANT

CSI PAR 64 discharge lamps

code	base	watts	life hours	arc gap mm	colour K	intensity candelas	beam angle 50% peak	beam angle 10% peak	restrike time mins
99-1222	G38	1000	3500	15	4000	1350 000	6°	18°	10
99-1422	G38	1000	3500	15	4000	1350 000	6°	18°	INSTANT

CID single ended discharge lamps

code	base	watts	light centre length mm	maximum overall length mm	arc gap mm	life hours	colour K	lumens	restrike time mins
99-0211	BIPIN	200	36.5	57	5.5	150	5500	14000	INSTANT
99-0413	BIPIN	300	36.5	57	9	350	5500	21000	INSTANT
99-0415	G22	575	52	94	9	500	5500	40250	5
99-0222	G22	1000	63.5	115	15	500	5500	70000	5
99-0422	G38	1000	63.5	115	15	500	5500	70000	INSTANT
99-0431	G38	2500	127	175	18	350	5500	200000	INSTANT

CID PAR 46 & PAR 64 discharge lamps

code	base	watts	life hours	arc gap mm	colour K	intensity candelas	beam angle 50% peak	beam angle 10% peak	restrike time mins
99-1415	G38 PAR46	575	1000	9	5500	425 000	8°	18°	INSTANT
99-1435	G38 PAR64	1200	1000	18	5500	820 000	10°	20°	INSTANT
99-1225	G38 PAR64	1000	1500	15	5500	850 000	8°	20°	10
99-1425	G38 PAR64	1000	1000	15	5500	850 000	8°	20°	INSTANT

Notes:

Equivalent implies alternative lamp with biplane filament.

Nominal voltages only are shown

Filament abbreviations:

MP Monoplane Grid on ANSI C13
 BP Biplane Grid on ANSI C13D
 S Staggered filament
 SC Axial Single Coil on ANSI C8
 CC Axial Coiled Coil on ANSI CCB
 TW Twin Monoplane Grid on ANSI 2C13

Full technical specifications of these lamps can be found in Thorn publication 'Photo, Stage & Studio Light Sources,' no. 90.1707.

GE Thorn Lamps Ltd reserve the right to alter these specifications without prior notice or public announcement. Whilst every care has been taken in preparing this brochure no responsibility can be accepted for any error contained.

LIF Classification

A1 Projector Lamps for Film Projection, Slide Viewing etc.
 CP Colour Photography
 P1 Photographic - Monochrome & colour film - balanced for 3400K (photo flood type).
 P2 Photographic - Monochrome & colour film - balanced for 3200K.
 T Theatre Spotlights.

theatre stage
 cinema lighting

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