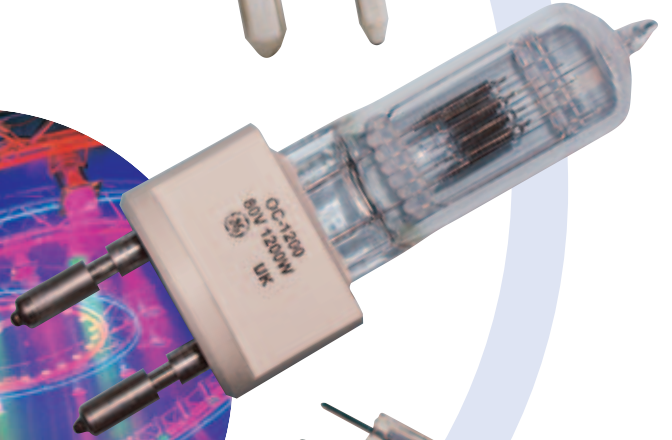
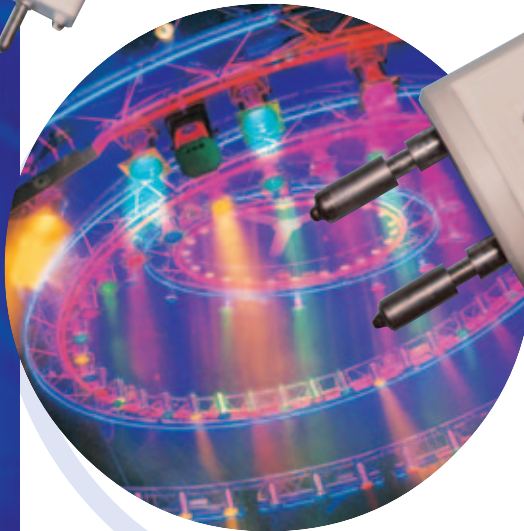
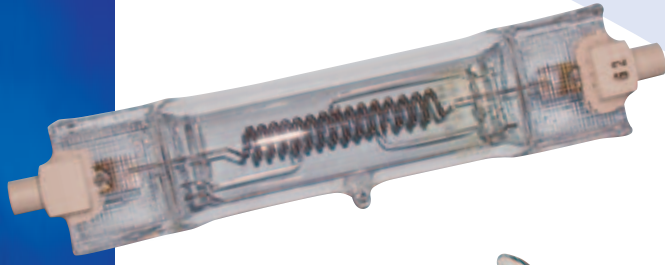


SHOWBIZ[®]



FEATURES

- For stage, studio, film and television lighting
- Incandescent, Quartzline® Halogen, High Intensity Discharge (HID), Cinema Fluorescent Technologies, Stage/Studio PAR Sealed Beams
- Quartzline® Halogen in low (120V) and high (240V) voltage single-ended and double-ended configurations
- Many Quartzline® Halogen lamps with Chromised Seal Protection to 500°C in the seal pinch
- HID in CSR, ConstantColor® CMH®, CSS, CSD and CID brand name codes
- CSR (Daylight) in single-ended short arc, single and double-end hot restrike
- ConstantColor® CMH® for “warmer people lighting”
- Cinema Fluorescent in linear, linear with covRguard®, and Biax®
- For additional reflectorized PAR Lighting (Halogen and HID) see Directional Lighting, Section 3

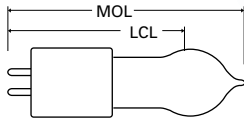


Fig. 7

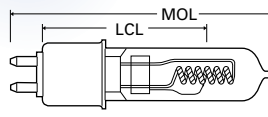


Fig. 8

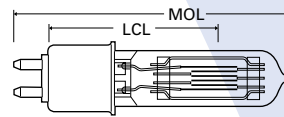


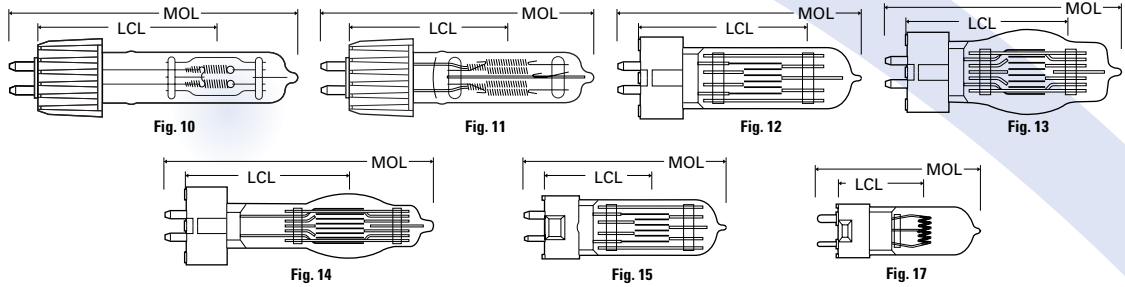
Fig. 9

APPLICATIONS

- Indoor and Outdoor Filming
- Stage Theater
- Photography Studios
- Concerts
- Color Simulation
- Architectural Lighting
- Night Clubs
- Large Screen Presentations
- TV Studios

Watts	Volts	Order Code	Description	ANSI Code	LIF Code	Case Qty.	Bulb	Base	Filament Type	Lumens	Color Temp.	Life (hrs)	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Footnotes	Figure Number
Single-Ended Lamps – G5.3, Miniature 2-Pin Base																		
30	10.8	37346	DZA	DZA		24	T-3.5	G5.3	C-6	530	3100	400	27	51	BDTHCH		62	
250	120	13617	EYH/FKT	EYH		24	G-6	G5.3	CC-6	6000	3000	200	36	64	BDTHCH		62	7
500	120	33663	FBG/FBD	FBG		24	G-6	G5.3	CC-6	13200	3200	50	44	76	ANYCH		62	7
600	120	30364	DYH	DYH		24	G-7	G5.3	CC-6	17000	3200	75	36	64	ANYCH		62	7
650	120	30304	DVY	DVY		24	G-6	G5.3	CC-6	20000	3300	25	36	64	BDTHCH		62	7
Single-Ended Lamps – G9.5, Medium 2-Pin Base																		
500	120	39768	EHD-Q500CL/TP	EHD		24	T-6	G9.5	CC-8	10000	2900	2000	60	105	Any		62	8
		39789	EHC-Q500/5CL	EHC		24	T-6	G9.5	CC-8	12700	3150	500	60	105	Any		62	8
575	115	11450	FLK-Q575T6	FLK		24	T-6	G9.5	CC-8	16500	3200	300	60	105	Any		62	8
		39730	FLK/LL-Q575T6			24	T-6	G9.5	CC-8	12800	3100	1500	60	105	Any		62	8
		93428	GLA-Q575T6/4CL	GLA		24	T-6	G9.5	C-13D	13000	3050	1500	60	105	Any		62	9
		93429	GLC-Q575T6/5CL	GLC		24	T-6	G9.5	C-13D	14500	3200	300	60	105	Any		62	9
600	230	39739	GKV-Q575T6/4CL	GKV		24	T-6	G9.5	C-13D	14000	3200	250	60	105	Any		62	9
		39751	GKV/LL	GKV		24	T-6	G9.5	C-13D	11000	3000	1500	60	105	Any		62	9
	240	39750	GKV	GKV		24	T-6	G9.5	C-13D	14000	3200	250	60	105	Any		62	9
		39752	GKV/LL	GKV		24	T-6	G9.5	C-13D	11000	3000	1500	60	105	Any		62	9
650	230	39734	FKR	FKR		24	T-6	G9.5	C-13D	15000	3100	300	60	105	Any		62	9
	240	39735	FKR	FKR		24	T-6	G9.5	C-13D	15000	3100	300	60	105	Any		62	9
750	115	92771	GLD-Q750T6/4CL	GLD		24	T-6	G9.5	C-13D	19000	3200	300	60	105	Any		62	9
		92773	GLE-Q750T6/4CL	GLE		24	T-6	G9.5	C-13D	17400	3050	1500	60	105	Any		62	9
	120	39680	BWM-Q750T7/4CL/TP	BWM		6	T-7	G9.5	C-13D	21000	3200	200	60	114	BDTH		1,62	9
		39771	EHF-Q750/4CL	EHF		24	T-6	G9.5	CC-8	20000	3200	300	60	105	Any		62	8
		39770	EHG-Q750CL/TP	EHG		24	T-6	G9.5	CC-8	15000	3000	2000	60	105	Any		62	8
800	230	39753	HX800		HX800	24	T-6	G9.5	C-13D	20000	3200	250	60	105	Any		62	9
	240	39754	HX800		HX800	24	T-6	G9.5	C-13D	20000	3200	250	60	105	Any		62	9
1000	120	39792	BWN-Q1000T7/4CL/TP	BWN		24	T-7	G9.5	C-13D	28500	3200	250	60	114	BDTH		1,62	9
		35853	FCV-Q1000/4	FCV		6	T-6	G9.5	CC-8	26500	3200	375	60	105	Any	Frosted	22,62	8
		39769	FEL-Q1000/4CL	FEL	CP77	24	T-6	G9.5	CC-8	27500	3200	300	60	105	Any		22,62	8
	230	39738	FEP-Q1MT6/4CL	FEP	CP77	24	T-6	G9.5	CC-8	25000	3200	300	60	105	Any		62	8
	240	39736	FEP-Q1MT6/4CL	FEP	CP77	24	T-6	G9.5	CC-8	25000	3200	300	60	105	Any		62	8

Stage and Studio - Halogen SECTION 1



Watts	Volts	Order Code	Description	ANSI Code	LIF Code	Case Qty.	Bulb	Base	Filament Type	Lumens	Color Temp.	Life (hrs)	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Footnotes	Figure Number
Single-Ended Lamps – G9.5, Medium 2-Pin Heat Sink Base																		
375	115	17608	HPL375/C 115V			12	T-6	G9.5/HS 4-C8		10540	3250	300	60	106	Any		18,62	10
		18189	HPL375/LL/C 115V			12	T-6	G9.5/HS 4-C8		8000	3050	1000	60	106	Any		18,62	10
550	77	17607	HPL550/C 77V			12	T-6	G9.5/HS 4-C8		16170	3250	300	60	106	Any		18,62	10
575	115	92431	HPL575/C 115V			12	T-6	G9.5/HS 4-C8		16500	3200	300	60	106	Any		62	10
		92434	HPL575/LL/C 115V			12	T-6	G9.5/HS 4-C8		12360	3050	2000	60	106	Any		62	10
120		92433	HPL575/C 120V			12	T-6	G9.5/HS 4-C8		16520	3200	300	60	106	Any		62	10
		92435	HPL575/LL/C 120V			12	T-6	G9.5/HS 4-C8		12360	3050	2000	60	106	Any		62	10
230		37128	HPL575			12	T-6	G9.5/HS 6-C8		14900	3200	300	60	106	Any		62	11
		37817	HPL575-X LL			12	T-6	G9.5/HS 6-C8		11780	3050	1500	60	106	Any		62	11
240		37131	HPL575			12	T-6	G9.5/HS 6-C8		14900	3200	300	60	106	Any		62	11
		37818	HPL575-X LL			12	T-6	G9.5/HS 6-C8		11780	3050	1500	60	106	Any		62	11
750	115	92432	HPL750/C 115V			12	T-6	G9.5/HS 4-C8		22000	3200	300	60	106	Any		7,62	10
		92770	HPL750/LL/C			12	T-6	G9.5/HS 4-C8		16400	3050	2000	60	106	Any		7,62	10
230		37824	HPL750			12	T-6	G9.5/HS 6-C8		19750	3200	300	60	106	Any		7,62	11
		92768	HPL750-XLL-C			12	T-6	G9.5/HS 6-C8		15600	3050	1500	60	106	Any		7,62	11
240		37826	HPL750			12	T-6	G9.5/HS 6-C8		19750	3200	300	60	106	Any		7,62	11
		92769	HPL750-XLL-C			12	T-6	G9.5/HS 6-C8		15600	3050	1500	60	106	Any		7,62	11
Single-Ended Lamps – GX9.5, Prefocus Medium 2-Pin Base																		
650	120	34328	EKD-Q650/3CL/2PP	EKD		24	G-6	GX9.5 CC-6		20000	3300	25	37	64	BDTHCH		62	
230		39654	CP23		CP23	12	T-8	GX9.5 C-13		16900	3200	100	55	110	BDTH		62	12
		39661	T12		T12	12	T-8	GX9.5 C-13		13500	3000	750	55	110	BDTH		62	12
240		39660	CP23		CP23	12	T-8	GX9.5 C-13		16900	3200	100	55	110	BDTH		62	12
		39663	T12		T12	12	T-8	GX9.5 C-13		13500	3000	750	55	110	BDTH		62	12
1000	120	29331	Q1000T8/CL		T11	24	G-11	GX9.5 C-13		23500	3050	750	55	110	BDTH		62	13
230		39651	CP24		CP24	12	G-11	GX9.5 C-13		26000	3200	200	55	110	BDTH		62	13
		39241	FVA	FVA	CP70	12	T-11	GX9.5 C-13D		25000	3200	200	55	110	BDTH		62	12
		39657	FWP	FWP	T19	12	T-11	GX9.5 C-13D		21000	3050	750	55	110	BDTH		62	12
		39656	T11		T11	12	G-11	GX9.5 C-13		23000	3050	750	55	110	BDTH		62	13
240		39653	CP24		CP24	12	G-11	GX9.5 C-13		26000	3200	200	55	110	BDTH		62	13
		39242	FVB	FVB	CP70	12	T-11	GX9.5 C-13D		25000	3200	200	55	110	BDTH		62	12
		39658	FWR	FWR	T19	12	T-11	GX9.5 C-13D		21000	3050	750	55	110	BDTH		62	12
		39659	T11		T11	12	G-11	GX9.5 C-13		23000	3050	750	55	110	BDTH		62	13
1200	120	39647	T29		T29	12	G-11	GX9.5 C-13D		30500	3050	400	67	125	BDTH		62	14
230		39724	CP90		CP90	12	G-11	GX9.5 C-13D		33000	3200	200	67	125	BDTH		62	14
		39723	FWS	FWS	T29	12	G-11	GX9.5 C-13D		29000	3050	400	67	125	BDTH		62	14
240		39725	CP90		CP90	12	G-11	GX9.5 C-13D		33000	3200	200	67	125	BDTH		62	14
		39667	FWT	FWT	T29	12	G-11	GX9.5 C-13D		29000	3050	400	67	125	BDTH		62	14
Single-Ended Lamps – GY9.5, Oriented Medium 2-Pin Base																		
235	33	11548	Q235T4/3			12	T-4	GY9.5 CC-6		6000	3125	150	39	64	BDTHCH	Frosted	62	17
300	120	39781	FKW-Q300T8	FKW	CP81	24	T-8	GY9.5 C-13		6900	3200	50	46	90	BDTH		62	15
230		39780	FSL	FSL	CP81	24	T-8	GY9.5 C-13		6900	3200	150	46	90	BDTH		62	15
240		39779	FSK	FSK	CP81	24	T-8	GY9.5 C-13		6900	3200	150	46	90	BDTH		62	15
420	120	33934	EKB-Q420/4CL/2PP	EKB		24	G-7	GY9.5 CC-6		11000	3200	75	37	64	ANYCH		62	17

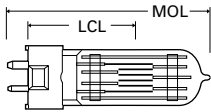


Fig. 15

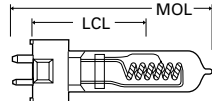


Fig. 16

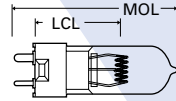


Fig. 17

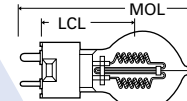


Fig. 18

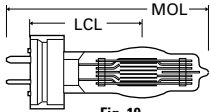


Fig. 19

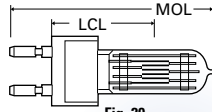


Fig. 20

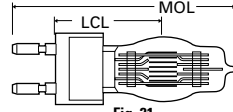


Fig. 21

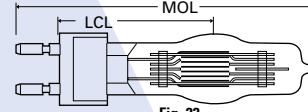
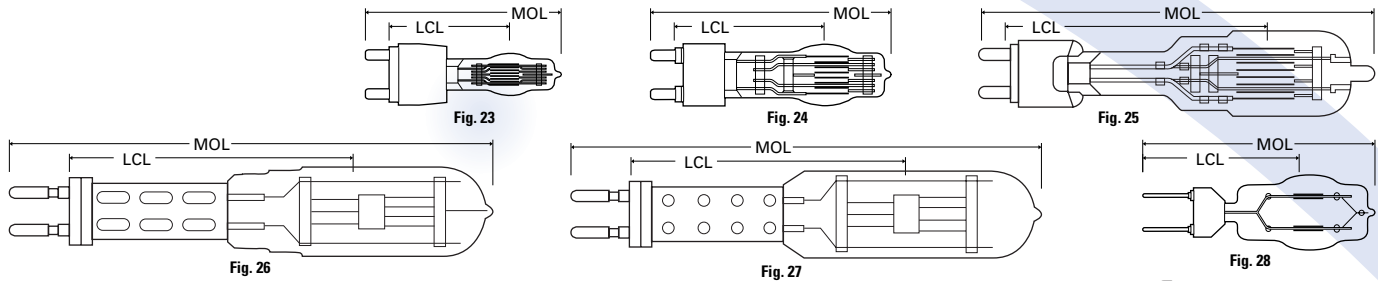


Fig. 22

Watts	Volts	Order Code	Description	ANSI Code	LIF Code	Case Qty.	Bulb Base	Filament Type	Lumens	Color Temp.	Life (hrs)	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Footnotes	Figure Number
Single-Ended Lamps – GY9.5, Oriented Medium 2-Pin Base (Continued)																	
500	120	39623 FRG-Q500T8		FRG	CP82	24	T-8	GY9.5	C-13	13000	3200	150	46	90	BDTH	62	15
	230	39455 GCV		GCV	T25	24	T-8	GY9.5	C-13D	11000	3000	360	46	90	BDTH	62	15
		39717 GCV		GCV	T18	24	T-8	GY9.5	C-13	11000	3050	400	46	90	BDTH	62	15
		39624 FRH		FRH	CP82	24	T-8	GY9.5	C-13	12500	3200	150	46	90	BDTH	62	15
	240	39262 GCW		GCW	T25	24	T-8	GY9.5	C-13D	11000	3000	360	46	90	BDTH	62	15
		39629 GCW		GCW	T18	24	T-8	GY9.5	C-13	11000	3050	400	46	90	BDTH	62	15
		39628 FRJ		FRJ	CP82	24	T-8	GY9.5	C-13	12500	3200	150	46	90	BDTH	62	15
600	120	30475 FMR-Q600T5		FMR		24	T-5	GY9.5	CC-8	12600	3050	2000	51	85	BDTHCH	62	16
650	120	39630 FRE		FRE	T26	24	T-8	GY9.5	C-13	15500	3100	500	46	90	BDTH	62	15
		39637 FRK-Q650T8		FRK	CP89	24	T-8	GY9.5	C-13	16900	3200	200	46	90	BDTH	62	15
	230	39456 GCT		GCT	T27	24	T-8	GY9.5	C-13D	14500	3050	400	46	90	BDTH	62	15
		39635 GCT		GCT	T26	24	T-8	GY9.5	C-13	15500	3100	400	46	90	BDTH	62	15
		39640 FRL		FRL	CP89	24	T-8	GY9.5	C-13	16250	3200	150	46	90	BDTH	62	15
	240	39457 GCS		GCS	T27	24	T-8	GY9.5	C-13D	14500	3050	400	46	90	BDTH	62	15
		39636 GCS		GCS	T26	24	T-8	GY9.5	C-13	15500	3100	400	46	90	BDTH	62	15
		39642 FRM		FRM	CP89	24	T-8	GY9.5	C-13	16250	3200	150	46	90	BDTH	62	15
Single-Ended Lamps – GZ9.5, Oriented Medium 2-Pin Base																	
600	120	32955 DYS/DYV/BHC		DYS	A1/264	24	G-7	GZ9.5	CC-6	17000	3200	75	37	64	BDTHCH	62	17
650	220	33248 DYR		DYR	A1/233	24	G-7	GZ9.5	2CC-8	16500	3200	50	37	64	Any	62	18
240		33250 DYR		DYR	A1/233	24	G-7	GZ9.5	2CC-8	16500	3200	50	37	64	Any	62	18
Single-Ended Lamps – GY16, 2-Pin Prefocus Base																	
2000	120	90360 CP79			CP79	12	G-13	GY16	C-13D	54000	3200	350	70	145	BDTH	62	19
	230	30497 CP79			CP79	12	G-13	GY16	C-13D	54000	3200	350	70	145	BDTH	62	19
		20309 FTM		FTM	CP43	12	G-13	GY16	C-13	54000	3200	400	70	145	BDTH	62	19
	240	30498 CP79			CP79	12	G-13	GY16	C-13D	54000	3200	350	70	145	BDTH	62	19
		20310 FTL		FTL	CP43	12	G-13	GY16	C-13	54000	3200	400	70	145	BDTH	62	19
Single-Ended Lamps – G22, Medium Bi-Post Base																	
500	120	30373 EGN-Q500T8		EGN		12	T-8	G22	C-13	13000	3200	150	64	140	BDTH	62	20
650	230	20320 FKH		FKH	CP39	12	T-8	G22	C-13	16900	3200	100	64	140	BDTH	62	20
	240	20321 FKH		FKH	CP39	12	T-8	G22	C-13	16900	3200	100	64	140	BDTH	62	20
750	120	39190 EGR-Q750T7/4CL		EGR		12	T-7	G22	C-13D	21000	3200	200	64	127	BDTH	1,62	20
1000	120	39191 EGT-Q1000T7/4CL		EGT		12	T-7	G22	C-13D	28500	3200	250	64	127	BDTH	1,62	20
	230	39655 FKJ		FKJ	CP40	12	T-8	G22	C-13	26000	3200	200	64	140	BDTH	62	20
	240	20286 FKJ		FKJ	CP40	12	T-8	G22	C-13	26000	3200	200	64	140	BDTH	62	20
1200	80	91580 OC1200				12	T-8	G22	C-13D	37500	3300	300	64	140	BDTH	62	20
	240	30384 CP93			CP93	12	G-11	G22	C-13D	33000	3200	200	64	140	BDTH	62	21
2000	120	30391 CP92			CP92	12	G-13	G22	C-13D	55000	3200	400	90	175	BDTH	62	22
	230	30394 CP92			CP92	12	G-13	G22	C-13D	52000	3200	400	90	175	BDTH	62	22
	240	30397 CP92			CP92	12	G-13	G22	C-13D	52000	3200	400	90	175	BDTH	62	22
2500	230	30415 CP91			CP91	12	G-13	G22	C-13D	67500	3200	400	90	175	BDTH	62	22
	240	30423 CP91			CP91	12	G-13	G22	C-13D	67500	3200	400	90	175	BDTH	62	22

Stage and Studio - Halogen SECTION 1



Watts	Volts	Order Code	Description	ANSI Code	LIF Code	Case Qty.	Bulb	Base	Filament Type	Lumens	Color Temp.	Life (hrs)	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Footnotes	Figure Number	
Single-Ended Lamps – G38, Mogul Bi-Post Base																			
1000	120	42697	CYV-Q1000T7/4CL/BP	CYV		6	T-7	G38	C-13D	28500	3200	200	127	203	BDTH	1, 62		23	
	230	35234	HX270		HX270	12	G-11	G38	C-13D	25000	3200	200	127	216	BDTH	62		23	
	240	35233	HX270		HX270	12	G-11	G38	C-13D	25000	3200	200	127	216	BDTH	62		23	
1500	120	37564	CXZ-Q1500T10/4CL	CXZ		6	T-10	G38	C-13	44500	3200	400	127	216	BDTH	1, 62		23	
2000	120	39587	BWA-Q2000/4CL/BP	BWA		6	T-8	G38	CC-8	54000	3200	500	127	210	BDTH	1, 55, 62		23	
		36636	CYX-Q2000T10/4CL	CYX		6	T-10	G38	C-13	59000	3200	350	127	216	BDTH	1, 62		23	
	230	31844	FKK		FKK	CP41	12	G-10	G38	C-13	54000	3200	400	127	216	BDTH	62		23
	240	31849	FKK		FKK	CP41	12	G-10	G38	C-13	54000	3200	400	127	216	BDTH	62		23
2500	230	30499	CP94		CP94	12	G-13	G38	C-13D	67500	3200	400	127	210	BDTH	62		23	
	240	30500	CP94		CP94	12	G-13	G38	C-13D	67500	3200	400	127	210	BDTH	62		23	
3000	230	30503	HX48		HX48	12	G-15	G38	C-13	82000	3200	400	127	210	BD45	62		23	
	240	30504	HX48		HX48	12	G-15	G38	C-13	82000	3200	400	127	210	BD45	62		23	
5000	120	41736	DPY-Q5000T20/4CL	DPY	CP29	6	T-20	G38	C-13	143000	3200	500	165	279	BD45	1, 62		24	
	230	30505	CP29		CP29	12	G-20	G38	C-13	135000	3200	500	165	279	BDTH	62		24	
	240	30506	CP29		CP29	12	G-20	G38	C-13	135000	3200	500	165	279	BDTH	62		24	
10000	120	18305	DTY-Q10M/T24/4CL	DTY	–	4	T-24	G38	C-13	290000	3200	300	254	400	BD45	1, 62		25	
	230	12036	CP83		CP83	1	T-27	G38	C-13	280000	3200	250	254	405	BDTH	62		25	
	240	12037	CP83		CP83	1	T-27	G38	C-13	280000	3200	250	254	405	BDTH	62		25	
Single-Ended Lamps – GX38, Mogul Bi-Post Base																			
12000	120	48770	Q12MT26/4CL			1	T-26	GX38	C-13	420000	3400	150	85	410	BD45	62		26	
	230	48771	Q12MT26/4CL			1	T-26	GX38	C-13	420000	3400	130	85	410	BD45	62		26	
	240	48779	Q12MT26/4CL			1	T-26	GX38	C-13	420000	3400	130	85	410	BD45	62		26	
20000	208	48772	BCM-Q20MT32/4CL	BCM		1	T-32	GX38	C-13	580000	3200	400	103	560	BD45	62		27	
	230	48773	BCM-Q20MT32/4CL	BCM		1	T-32	GX38	C-13	580000	3200	400	103	560	BD45	62		27	
	240	48774	BCM-Q20MT32/4CL	BCM		1	T-32	GX38	C-13	580000	3200	400	103	560	BD45	62		27	
24000	230	48776	Q24MT32/4CL			1	T-32	GX38	C-13	800000	3400	150	103	560	BD45	62		27	
	240	48777	Q24MT32/4CL			1	T-32	GX38	C-13	800000	3400	150	103	560	BD45	62		27	
Single-Ended Lamps – GX38q Base, 2 Filament, Hi-Volt																			
1250	230	30513	CP30-1250/1250		CP30	12	G-18	GX38q	2C-13	27M 56M	3200	300	143	220	BD45	62		28	
		30515	CP58-1250/2500		CP58	12	G-22	GX38q	2C-13	27M 91M	3200	300	143	220	BD45	62		28	
		34056	CP105-1250/650		CP105	12	G-18	GX38q	2C-13	27M 13M	3050	250	143	220	BD45	62		28	
240	30514	CP30-1250/1250			CP30	12	G-18	GX38q	2C-13	27M 56M	3200	300	143	220	BD45	62		28	
		30517	CP58-1250/2500		CP58	12	G-22	GX38q	2C-13	27M 91M	3200	300	143	220	BD45	62		28	
		34024	CP105-1250/650		CP105	12	G-18	GX38q	2C-13	27M 13M	3050	250	143	220	BD45	62		28	
2500	230	30518	CP32-2500/2500		CP32	12	G-22	GX38q	2C-13	59M 127M	3200	300	143	220	BD45	62		28	
	240	30519	CP32-2500/2500		CP32	12	G-22	GX38q	2C-13	59M 127M	3200	300	143	220	BD45	62		28	

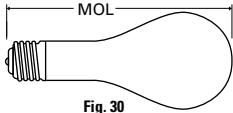


Fig. 30

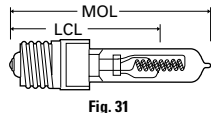


Fig. 31

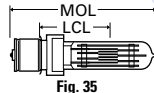


Fig. 35

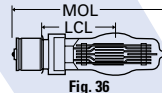


Fig. 36

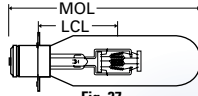


Fig. 37

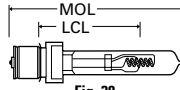
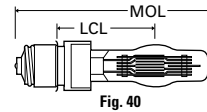
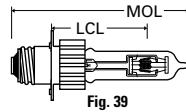


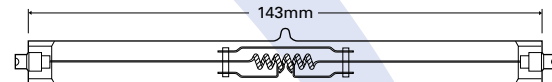
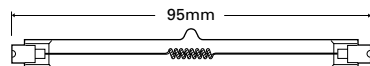
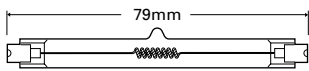
Fig. 38

Watts	Volts	Order Code	Description	ANSI Code	LIF Code	Case Qty.	Bulb	Base	Filament Type	Lumens	Color Temp.	Life (hrs)	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Footnotes	Figure Number
Single-Ended Lamps – E39, Mogul Screw Base																		
1000	120	39582	DKZ/DSE-Q1000 PS52/4	DKZ	–	12	PS-52	E39	CC-8	28000	3200	750	241	330	Any	Frosted	1, 51, 62	30
		19926	DSE Q1000	DSE	–	10	T-10	E39	CC-8	28000	3200	750	241	330	Any	Frosted	1, 62	31
1500	120	40357	DKX/DSF-Q1500 PS52/4	DKX	–	12	PS-52	E39	C-8	41000	3200	1000	241	330	Any	Frosted	1, 51, 62	30
		19927	DSF Q1500	DSF	–	10	T-10	E39	C-8	41000	3200	1000	241	330	Any	Frosted	1, 62	31
2000	120	37086	BWF-Q2000/4CL	BWF	–	6	T-8	E39	CC-8	54000	3200	500	133	191	Any		62	31
	230	29424	CP59		CP59	12	T-10	E39	CC-8	50000	3200	300	133	191	Any		62	31
	240	29426	CP59		CP59	12	T-10	E39	CC-8	50000	3200	300	133	191	Any		62	31
Single-Ended Lamps – P28s, Medium Prefocus Base																		
500	120	11966	BTL-Q500T6/CL/P	BTL	T17	12	T-6	P28s	C-13	11000	3000	500	55	133	BDTH		62	35
		16465	BTM-Q500T6/4CL/2P	BTM	–	12	T-6	P28s	C-13	13000	3200	150	55	130	BDTH		62	35
		39134	EGC-Q500/5CL/P	EGC	–	12	T-4	P28s	CC-8	12700	3150	500	89	152	Any		62	38
		39135	EGE-Q500CL/P	EGE	–	12	T-4	P28s	CC-8	10450	2950	2000	89	152	Any		62	38
	230	30535	FKF	FKF	T17	12	T-6	P28s	C-13	9500	2950	750	55	130	BDTH		62	35
		39731	T28		T28	12	T-6	P28s	C-13	11000	3000	300	55	130	BDTH		62	35
	240	30536	T17		T17	12	T-6	P28s	C-13	9500	2950	750	55	130	BDTH		62	35
		39733	T28		T28	12	T-6	P28s	C-13	11000	3000	300	55	130	BDTH		62	35
650	230	30541	FKB	FKB	T13	12	T-8	P28s	C-13	13500	3000	750	55	130	BDTH		62	35
		20323	FKM	FKM	CP51	12	T-8	P28s	C-13	16900	3200	200	55	130	BDTH		62	35
	240	20324	CP51		CP51	12	T-8	P28s	C-13	16900	3200	200	55	130	BDTH		62	35
		30542	T13		T13	12	T-8	P28s	C-13	13500	3000	750	55	130	BDTH		62	35
750	120	11953	BTN-Q750T7/CL/2P	BTN	–	12	T-7	P28s	C-13D	17600	3050	500	55	121	BD30		1, 62	35
		11954	BTP-Q750T7/4CL/2P	BTP	–	12	T-7	P28s	C-13D	21000	3200	200	55	121	BD30		1, 62	35
		39136	EGF-Q750/4CL/P	EGF	–	12	T-6	P28s	CC-8	20400	3200	300	89	152	Any		62	38
		39137	EGG-Q750CL/P	EGG	–	12	T-6	P28s	CC-8	15750	3000	2000	89	152	Any		62	38
1000	120	11955	BTR-Q1000T7/4CL/2P	BTR	–	12	T-7	P28s	C-13D	28500	3200	250	55	121	BD30		1, 62	35
		29968	DRB	DRB	–	24	T-20	P28s	C-13	32000	3350	25	55	146	BD30			37
		29979	DRC	DRB	–	24	T-20	P28s	C-13	30000	3250	50	55	146	BD30			37
		29947	DRS	DRS	A1/58	24	T-20	P28s	C-13D	28500	3325	25	55	146	BD30			37
		38853	EGJ-Q1000/4/CL/P	EGJ	–	12	T-6	P28s	CC-8	27500	3200	300	89	152	Any		62	38
		38852	EGK-Q1000/4/P	EGK	–	12	T-6	P28s	CC-8	26500	3200	300	89	152	Any	Frosted	62	38
		39138	EGM-Q1000CL/P	EGM	–	12	T-6	P28s	CC-8	21500	3000	2000	89	152	Any		62	38
	230	30533	EWE	EWE	–	12	T-6	P28s	CC-8	26500	3200	250	89	152	BDTH		62	38
		20385	FKD	FKD	T14	12	G-11	P28s	C-13D	23000	3050	750	55	130	BDTH		62	36
	240	30534	EWE	EWE	–	12	T-6	P28s	CC-8	26500	3200	250	89	152	BDTH		62	38
		30532	FKE	FKE	T15	12	G-11	P28s	C-13	23000	3050	750	89	160	BDTH		62	36
		30546	FKN	FKN	CP52	12	G-11	P28s	C-13D	26000	3200	200	55	121	BDTH		62	36
		20388	T14		T14	12	G-11	P28s	C-13D	23000	3050	750	55	130	BDTH		62	36

Stage and Studio - Halogen SECTION 1



Watts	Volts	Order Code	Description	ANSI Code	LIF Code	Case Qty.	Bulb	Base	Filament Type	Lumens	Color Temp.	Life (hrs)	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Footnotes	Figure Number
Single-Ended Lamps – P40s, Mogul Prefocus Base																		
1000	120	12554	BVT-Q1000T7/CL/MP	BVT	–	6	T-7	P40s	C-13D	24500	3050	500	100	184	BDTH	1,62	39	
		12553	BVV-Q1000T7/4CL/MP	BVV	–	6	T-7	P40s	C-13D	28500	3200	200	100	184	BDTH	1,62	39	
		240 30521	T16		T16	12	G-11	P40s	C-13	23000	3050	750	87	180	BDTH	62	40	
1500	120	30522	DTA-Q1500T8/4CL	DTA	–	6	T-8	P40s	C-13D	41000	3200	300	87	200	BDTH	62	39	
2000	120	12555	BVW-Q2000T10/4CL/MP	BVW	CP53	6	T-10	P40s	C-13	59000	3200	350	100	215	BDTH	62	39	
		230 20311	CP53		CP53	12	G-13	P40s	C-13	54000	3200	400	87	200	BDTH	62	40	
		240 20312	CP53		CP53	12	G-13	P40s	C-13	54000	3200	400	87	200	BDTH	62	40	



Watts	Volts	Order Code	Description	ANSI Code	LIF Code	Case Qty.	Bulb	Base	Filament Type	Lumens	Color Temp.	Life (hrs)	Lighted Length (mm)	MOL (mm)	Burning Position	Bulb Finish	Footnotes	Figure Number
Double-Ended Lamps – Recessed Contact R7s, Compact CC8 filaments																		
200	120	16580	Q200T3			6	T-3	R7s	CC-8	3350	2850	1500		80	Any	Frosted	15,62	1
		43713	Q200T3/CL			6	T-3	R7s	CC-8	3460	2850	1500	24	80	Any		62	1
300	120	43705	Q300T4/CL	EHP		6	T-4	R7s	CC-8	5650	2900	2000	18	80	Any		62	1
375	30	29578	DWZ(30V)	DWZ	A1/266	24	T-4	R7s	CC-8	7500	3000	1000	10	80	Any		62	1
400	120	43708	Q400T4/CL	EHR		12	T-4	R7s	CC-8	7750	2900	2000	21	80	Any		62	1
420	120	30276	FFM	FFM		24	T-4	R7s	CC-8	11000	3200	75	13	80	Any		62	1
600	120	29598	FCB	FCB	A1/228	24	T-4	R7s	CC-8	17000	3250	75	17	95	Any		4,62	2
650	120	30325	FAD-Q650T4/4CL	FAD	P2/6	24	T-4	R7s	CC-8	16500	3200	100	17	80	Any		62	1
		30343	FBX-Q650T4/4	FBX	P2/6	24	T-4	R7s	CC-8	16500	3200	100	80	Any	Frosted	15,62	1	
800	230	36952	DXX	DXX	P2/13	24	T-4	R7s	CC-8	21400	3200	75	24	80	Any		62	1
		240 36953	DXX	DXX	P2/13	24	T-4	R7s	CC-8	21400	3200	75	24	80	Any		62	1
1000	120	29604	BRH	BRH		24	T-5	R7s	CC-8	30000	3350	75	19	95	Any		62	2
		23800	DWT-Q1000T6/CL	DWT		6	T-6	R7s	CC-8	23400	3000	2000	25	143	Any		62	3
		30157	DXW-Q1000T5/4CL	DXW		24	T-5	R7s	CC-8	28000	3200	150	22	95	Any		27,62	2
		30374	FBY-Q1000T5/4	FBY		24	T-5	R7s	CC-8	26000	3200	150	95	Any	Frosted	15,62	2	
		33760	FER-Q1000T6/4CL	FER		6	T-6	R7s	CC-8	27500	3200	500	19	143	Any		62	3
2000	120	39790	FEY-Q2000T8/4CL	FEY	P2/27	12	T-10	R7s	CC-8	57000	3200	400	25	143	H4		62	3
		230 35338	FEX-Q2MT8/4CL	FEX	P2/27	12	T-10	R7s	CC-8	50000	3200	300	37	143	H4		62	3
		240 35339	FEX-Q2MT8/4CL	FEX	P2/27	12	T-10	R7s	CC-8	50000	3200	300	37	143	H4		62	3

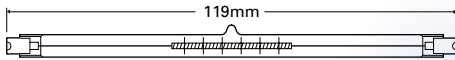
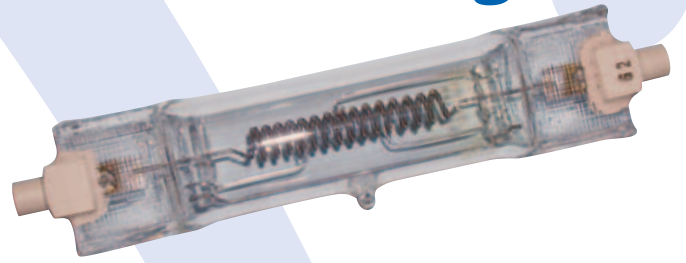


Fig. 4

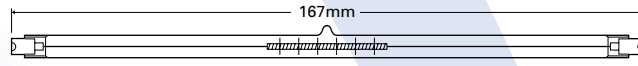


Fig. 5

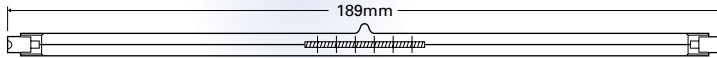


Fig. 6

Watts	Volts	Order Code	Description	ANSI Code	LIF Code	Case Qty.	Bulb	Base	Filament Type	Lumens	Color Temp.	Life (hrs)	Lighted Length (mm)	MOL (mm)	Burning Position	Bulb Finish	Footnotes	Figure Number
Double-Ended Lamps – Recessed Contact R7s, C-8 filaments																		
300	120	43704	Q300T3	EZH		6	T-3	R7s	C-8	5900	2950	2000	119	H4		Frosted	15, 62	4
		43703	Q300T3/CL	EHM		6	T-3	R7s	C-8	5950	2950	2000	59	119	H4		62	4
350	120	20881	FDH/HIR-Q350T2/4CL			6	T-2	R7s	C-8	13250	3200	400	60	119	H4		62	4
		13894	Q350T3/HIR			6	T-3	R7s	C-8	10000	3000	2000	56	119	H4		62	4
425	120	11178	Q425T3/CL			12	T-3	R7s	C-8	8900	2950	2000	56	119	H4		62	4
500	120	23735	FDH-Q500T3/4CL	FDH	P2/30	12	T-3	R7s	C-8	13250	3200	400	60	119	H4		62	4
		23734	FDN-Q500T3/4	FDN	P2/31	12	T-3	R7s	C-8	12800	3200	400	119	H4		Frosted	15, 62	4
		23731	Q500T3/CL	FCL		12	T-3	R7s	C-8	11100	3000	2000	57	119	H4		62	4
		23744	Q500T3/CL/6			12	T-3	R7s	C-8	10950	2950	1500	60	119	H4		62	4
	130	23733	Q500T3/CL	DVS		12	T-3	R7s	C-8	10550	3000	2000	62	119	H4		62	4
525	120	20883	EJG/HIR-Q525T2 1/2/4			6	T-2.5	R7s	C-8	20600	3250	400	62	119	H4		62	4
625	230	19697	Q625T3/4CLP2/10		P2/10	12	T-3	R7s	C-8	16900	3200	300	107	189	H4		62	6
	240	19698	Q625T3/4CLP2/10		P2/10	12	T-3	R7s	C-8	16900	3200	300	107	189	H4		62	6
650	120	13895	FCM/HIR-Q650T3/4	FCM		6	T-3	R7s	C-8	25200	3275	400	60	119	H4		52, 62	4
675	120	20884	FFT/HIR-Q675T3/4			6	T-3	R7s	C-8	26400	3250	400	67	167	H4		52, 62	5
750	120	23756	EJG-Q750T3/4CL	EJG		12	T-3	R7s	C-8	20600	3200	400	62	119	H4		62	4
		23755	EMD-Q750T3/4	EMD		12	T-3	R7s	C-8	19500	3200	400	119	H4		Frosted	15, 62	4
800	240	23760	EME-Q800T3/P2/11	EME	P2/11	12	T-3	R7s	C-8	22000	3200	150	64	119	H4		62	4
		23761	EMF-Q800T3/P2/11	EMF	P2/11	12	T-3	R7s	C-8	21400	3200	150	119	H4		Frosted	62	4
1000	120	23797	FCM-Q1000T3/4CL	FCM	P2/28	12	T-3	R7s	C-8	28000	3200	400	60	119	H4		62	4
		23792	FHM-Q1000T3/4	FHM	P2/29	12	T-3	R7s	C-8	27300	3200	400	119	H4		Frosted	15, 31, 62	4
		33280	FFT-Q1000T3/1CL	FFT		12	T-3	R7s	C-8	26400	3200	400	67	167	H4		62	5
185		23788	EJD-Q1000T3/3CL (185V)	EJD		12	T-3	R7s	C-8	33600	3350	100	68	119	H4		52, 62	4
230		20249	EKM-Q1M T3/4CLP2/7	EKM	P2/7	12	T-3	R7s	C-8	28000	3200	300	115	189	H4		62	6
240		20253	EKM-Q1M T3/4CLP2/7	EKM	P2/7	12	T-3	R7s	C-8	28000	3200	300	115	189	H4		62	6
1250	230	19695	Q1250T3/P2/12		P2/12	12	T-3	R7s	C-8	35000	3200	300	112	189	H4		62	6
	240	19696	Q1250T3/P2/12		P2/12	12	T-3	R7s	C-8	35000	3200	300	112	189	H4		62	6
1500	120	23841	FDB-Q1500T4/4CL	FDB		12	T-4	R7s	C-8	41250	3200	400	62	167	H4		62	5
		41229	FGT-Q1500T4/4	FGT		12	T-4	R7s	C-8	40200	3200	400	167	H4		Frosted	15, 62	5

Stage and Studio - Discharge SECTION 1

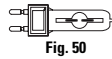
CSR Metal Halide (Daylight) – Single-Ended Cold Start

FEATURES

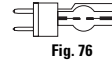
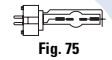
- Industry standard outline
- Chromized Seal Protection to 500°C
- Up to 90 lumens/watt with superior color stability
- Use with electronic or AC magnetic ballast/ignitor control gear
- Available in short arc for superior light control
- CSR Metal Halide are daylight (5600-7200K) color with CRI between 80-90
- CSD are compact source lamps with very high color temperature and long life
- Note: See FDA Warning, footnote 14, on page 94 for discharge lamps.

APPLICATIONS

- Stage
- Concert
- Sporting Events
- Venues Using Intelligent and Moving Lights



Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Arc Length	Lumens	CRI Index	Color Temp.	Life (hrs)	LCL (mm)	MOL (mm)	Burning Position	CIE Color x	CIE Color y	Footnotes	Figure Number
CSR/CSD Metal Halide (Daylight) – Single-Ended Cold Start																		
250	90	10744	CSD250/2/SE	10	T7	GY9.5	5	18000	65+	8500	2000			Any	0.289	0.305	14, 63	50
575	97	49492	CSR575/2/T/SE	10	T9	GX9.5	7	49000	80	7200	1000	65	125	Any	0.302	0.320	14, 63	50
		15378	CSR575/2/SE	10	T9	GX9.5	7	49000	80	7200	1000	65	125	Any	0.302	0.320	14, 63	50
700	70	49491	CSR700/2/SE	10	T9	G22	8	55000	80	7200	1000	75	155	Any	0.302	0.320	14, 63	51
1200	100	49490	CSR1200/2/SE	6	T12	G22/30X53	10	110000	85	7200	800	85	175	Any	0.302	0.320	14, 63	51



Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Arc Length	Lumens	CRI Index	Color Temp.	Life (hrs)	LCL (mm)	MOL (mm)	Burning Position	CIE Color x	CIE Color y	Footnotes	Figure Number
CSR Metal Halide (Daylight) – Single-Ended Short Arc																		
700	70	15380	CSR700/SA	6	G7	GY9.5	4	58000	75	5600	500	39	85	Any*	0.330	0.342	14, 63	75
1200	100	21849	CSR1200/SA	6	G8	GY22	7	100000	80	5800	750	59	135	Any*	0.326	0.330	14, 18, 63	76
1800	100	21801	CSR2000/SA	4	G9	GY22	7	155000	80+	6000	750	59	135	Any*	0.320	0.330	14, 18, 63	76

* Lead Down

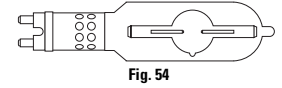
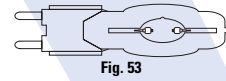
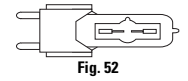
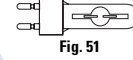
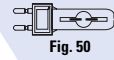
CSR Metal Halide (Daylight) – Single-Ended Hot Restrike

FEATURES

- Industry standard outline
- Cold start and hot restrike-dimmable with stable color temperature
- Use with electronic or AC magnetic ballast/ignitor control gear
- CSR Metal Halide are daylight (6000K) color with CRI above 90
- Up to 90 lumens/watt with superior color stability

APPLICATIONS

- Film Production
- Sporting Events
- Stage
- Photographic Studios
- Concerts
- Overhead and Large Screen Projection
- Color Simulation



Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Arc Length	Lumens	CRI Index	Color Temp.	Life (hrs)	LCL (mm)	MOL (mm)	Burning Position	CIE Color x	CIE Color y	Footnotes	Figure Number
125	80	48461	CSR125/SE/HR	10	T5	GZX9.5	4	9400	90+	5600	200	39	75	Any	0.330	0.333	14, 63	50
200	70	48462	CSR200/SE/HR	10	T6	GZY9.5	5	15000	90+	5600	200	39	80	Any	0.330	0.333	14, 63	50
400	70	21853	CSR400/SE/HR	10	T6	GZZ9.5	6	32000	90+	6000	750	60	110	Any	0.323	0.328	14, 18	50
575	95	48463	CSR575/SE/HR	10	T9.5	G22	7	48000	90+	6000	750	70	145	Any	0.323	0.328	14, 63	51
1200	100	48464	CSR1200/SE/HR	6	T13	G38	10	110000	90+	6000	750	107	200	Any	0.323	0.328	14, 63	52
2500	115	48465	CSR2500/SE/HR	6	T19.5	G38	14	220000	90+	6000	500	127	240	Any	0.323	0.328	14, 63	53
4000	200	48466	CSR4000/SE/HR	6	T24	G38	24	380000	90+	6000	500	142	250	Any	0.323	0.328	14, 63	53
6000	130	48467	CSR6000/SE/HR	6	T26.5	G38	26	540000	90+	6000	300	210	360	Any	0.323	0.328	14, 63	54
12000	160	48468	CSR12000/SE/HR	4	T32	G38	28	1100000	90+	6000	250	255	450	Any	0.323	0.328	14, 63	54

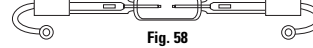
CSR Metal Halide (Daylight) – Double-Ended Hot Restrike

FEATURES

- Industry standard outline
- Up to 100 lumens/watt with superior color stability
- Use with electronic or AC magnetic ballast/ignitor control gear
- Up to 18,000 watts available

APPLICATIONS

- Film Production
- Sporting Events
- Stage
- Photographic Studios
- Concerts
- Overhead and Large Screen Projection
- Color Simulation



Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Arc Length	Lumens	CRI Index	Color Temp.	Life (hrs)	LCL (mm)	MOL (mm)	Burning Position	CIE Color x	CIE Color y	Footnotes	Figure Number
200	80	48450	CSR200/DE	10	T4.5	X515	8	16000	90+	6000	300	75	H15	0.323	0.325	14, 63	55	
575	95	48451	CSR575/DE	10	T6.5	SfC 10-4 SI/M4	7	49000	90+	6000	750	145	H15	0.323	0.325	14, 63	56	
1200	100	48452	CSR1200/S/DE	10	T6.5	SfC 10-4 SI/M4	7	110000	90+	6000	750	145	H15	0.323	0.325	14, 63	56	
		48453	CSR1200/DE	6	T8.5	SfC 15.5-6 SI/M6	10	110000	90+	6000	750	220	H15	0.323	0.325	14, 63	56	
2500	115	48454	CSR2500/DE	6	T9.5	Sfa21-12	14	240000	90+	6000	500	355	H15	0.323	0.325	14, 63	59	
4000	200	48455	CSR4000/DE	6	T12	Sfa21-12	34	410000	90+	6000	500	405	H15	0.323	0.325	14, 63	59	
6000	125	48456	CSR6000/DE	6	T16	25X51 Cyl 165mm	22	570000	90+	6000	300	450	H15	0.323	0.325	14, 63	57	
12000	160	48457	CSR12000/DE	4	T22.5	30x70 Cyl 165mm	32	1100000	90+	6000	300	470	H15	0.323	0.325	14, 63	57	
18000	225	45459	CSR18000/DE	4	T28	30x70 Cyl 165mm	45	1650000	90+	6000	300	500	H15	0.323	0.325	14, 63	58	
		48460	CSR18000/S/DE	4	T28	30x70 Cyl 165mm	45	1650000	90+	6000	300	470	H15	0.323	0.325	14, 63	58	

Stage and Studio – Discharge SECTION 1

Architectural – Discharge

FEATURES

- Color stability lamp to lamp for the entire lamp life
- Can blend with tungsten lamps at 3000 degrees K
- Excellent color rendition with CRI 80-90+
- Operates on standard metal halide ballasts with 10-20% more output

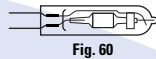


Fig. 60

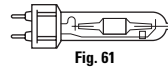


Fig. 61

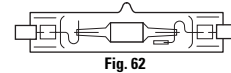


Fig. 62

Watts	ANSI Ballast	Order Code	Description	Case Qty.	Bulb	Base	Lumens	CRI Index	Color Temp.	Life (hrs)	LCL (mm)	MOL (mm)	Burning Position	Footnotes	Figure Number
ConstantColor® CMH® Metal Halide (Tungsten film) – Single-Ended Miniatures															
20		92079	CMH20/TC/UVC/U/830/G8.5	12	T4.5	G8.5	1700	80+	3000	9000	51	86	Any	14, 63	60
	Pending	92696	CMH20/TC/U/830/G8.5	12	T4.5	G8.5	1700	80+	3000	6000	51	86	Any	14, 63	60
35		38697	CMH35/TC/UVC/U/830/G8.5	12	T4.5	G8.5	3400	80+	3000	10000	51	86	Any	14, 63	60
39	M130	90352	CMH39/TC/U/830/G8.5	12	T4.5	G8.5	3400	80+	3000	9000	51	86	Any	14, 63	60
70		38700	CMH70/TC/UVC/U/830/G8.5	12	T4.5	G8.5	6200	80+	3000	9000	51	86	Any	14, 63	60
	M98, M139	92585	CMH70/TC/U/830/G8.5	12	T4.5	G8.5	6200	80+	3000	9000	51	86	Any	14, 63	60
ConstantColor® CMH® Metal Halide (Tungsten film) – Single-Ended															
35		38696	CMH35/T/UVC/U/830/G12	12	T6	G12	3400	80+	3000	10000	55	90	Any	14, 63	61
39	M130	42070	CMH39/T/U/830/G12	12	T6	G12	3400	80+	3000	10000	55	90	Any	14, 63	61
70		36844	CMH70/T/UVC/U/830/G12	12	T6	G12	6000	80+	3000	15000	55	90	Any	14, 63	61
		38701	CMH70/T/UVC/U/942/G12	12	T6	G12	6000	90+	4200	15000	55	90	Any	14, 63	61
	M85, 98, 139	92582	CMH70/T/U/830/G12	12	T6	G12	6200	80+	3000	15000	55	90	Any	14, 63	61
		92583	CMH70/T/U/942/G12	12	T6	G12	6400	90+	4200	15000	55	90	Any	14, 63	61
150		36863	CMH150/T/UVC/U/830/G12	12	T6	G12	14000	80+	3000	12000	55	100	Any	14, 63	61
		38694	CMH150/T/UVC/U/942/G12	12	T6	G12	13000	90+	4200	12000	55	100	Any	14, 63	61
	M81, 102, 142	92584	CMH150/T/U/830/G12	12	T6	G12	14000	80+	3000	12000	55	100	Any	14, 63	61
		92586	CMH150/T/U/942/G12	12	T6	G12	13000	90+	4200	12000	55	100	Any	14, 63	61
ConstantColor® CMH® Metal Halide (Tungsten film) – Double-Ended															
70		36910	CMH70/TD/UVC/830/Rx7s	12	T6	Rx7s	7000	80+	3000	15000	57	114	H45	14, 63	62
		38698	CMH70/TD/UVC/942/Rx7s	12	T6	Rx7s	6200	90+	4200	15000	57	114	H45	14, 63	62
	M85, 98, 139	92587	CMH70/TD/830/Rx7s	12	T6	Rx7s	7000	80+	3000	15000	57	114	H45	14, 63	62
		92588	CMH70/TD/942/Rx7s	12	T6	Rx7s	6200	90+	4200	15000	57	114	H45	14, 63	62
150		36912	CMH150/TD/UVC/830/Rx7s-24	12	T7	Rx7s-24	14500	80+	3000	15000	67	136	H45	14, 63	62
		38692	CMH150/TD/UVC/942/Rx7s-24	12	T7	Rx7s-24	12500	90+	4200	15000	67	136	H45	14, 63	62
	M81, 102, 142	92589	CMH150/TD/830/Rx7s	12	T7	Rx7s	14500	80+	3000	15000	67	136	H45	14, 63	62
		92590	CMH150/TD/942/Rx7s	12	T7	Rx7s	12500	90+	4200	15000	67	136	H45	14, 63	62

CSI/CID/MVR/SPL Discharge

FEATURES

- CID is Compact Iodide Daylight with color temperatures of 5500 degrees K
- CSS Compact Source Specials are for disco and fiberoptic applications
- CSI Compact Source Iodide lamps have a warmer 4000 degrees K
- MVR and SPL are Multi-Vapor® Metal Halide for large people areas such as stadiums

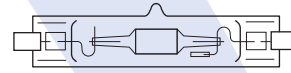


Fig. 64



Fig. 65

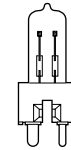


Fig. 66

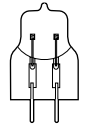


Fig. 67

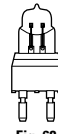


Fig. 68

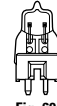


Fig. 69

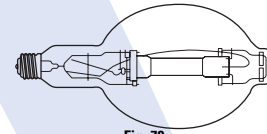


Fig. 70

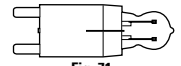


Fig. 71

Watts	Volts or ANSI Ballast	Order Code	Description	Case Qty.	Bulb	Base	Arc Length (mm)	Lumens	CRI Index	Color Temp.	Life (hrs)	LCL (mm)	MOL (mm)	Burning Position	Footnotes	Figure Number
CSI/CID/MVR/SPL Discharge																
140	85	34813	CSS150/850/GY9.5	10	T-7	GY9.5	6	10000	80	5000	1000	30	48	BDTH	14, 63	65
200	70	30560	99-0211CID/HR	1	T-5	Special	5.5	14000	85	5500	150	36	57	BDTH	14, 63	66
400	100	30555	99-0201CSI	1	T-6	Special	9	32000	80	4000	500	25	55	BDTH	14, 63	67
575	95	30563	99-0415CID	1	T-7	G22	9	40250	85	5500	500	52	94	BDTH	14, 63	68
		34822	CSS575/855/GY9.5	10	T-7	GY9.5	9	40250	85	5500	500	52	94	BDTH	14, 63	69
1000	77	30558	99-0221CSI	1	T-10	G22	14	90000	80	4000	500	64	115	BDTH	14, 63	68
		30561	99-0222CID	1	T-10	G22	15	70000	85	5500	500	64	115	BDTH	14, 63	68
1500	M48	37405	MVR1500/HBU	6	BT56	E39		165000	65	3900	3000	241	390	HBU	14, 63	70
		47326	MVR1500/U/SPORTS	6	BT56	E39		178000	65	4000	3000	241	390	Any	14, 63	70
		Special	30061	SPL1500/L/H/652	1	T-7	Rx7s		120000	80	5200	6000	127	257	H4	14, 63
1650	M112	25532	MVR1650/HOR	6	BT56	E39p		177000	65	3200	3000	241	390	H15	14, 63	70
2000	M134	12275	MQI12000/T9/40	10	T-9	Special		200000	65	4000	4000	109	254	H15	14, 63	
2500	100	30567	99-0431CID/HR	1	G-13	G38	18	200000	85	5500	350	127	175	BDTH	14, 63	71

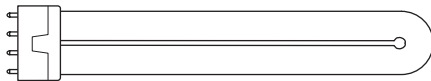
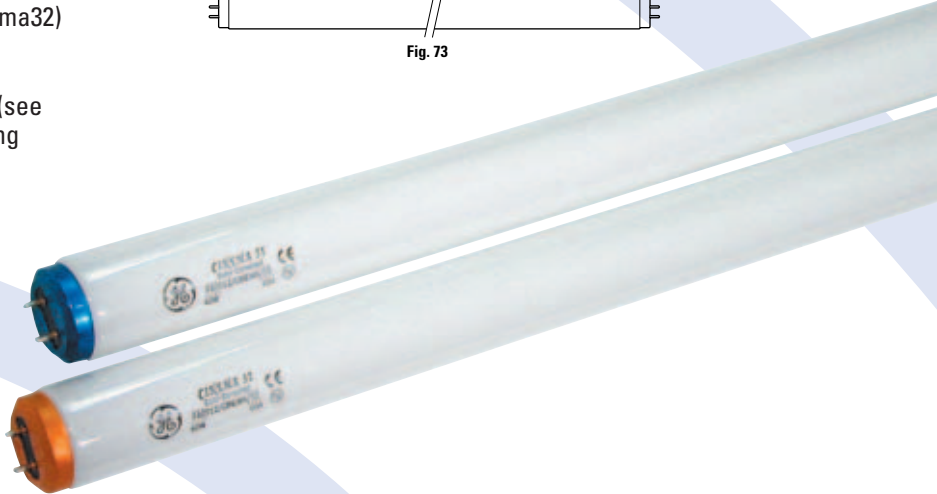
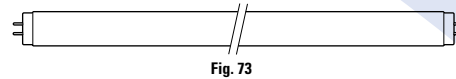


Stage and Studio – Fluorescent SECTION 1

Cinema Fluorescent

FEATURES

- Color is matched for Tungsten 3200 degrees K (Cinema32) or Daylight 5500 degrees K (Cinema 55)
- High CRI of 95+
- Each available with covRguard® shatter protection (see Order w/CVG), which afford UV protection, protecting against color fading effects
- Note: Footnote 173 applies to covRguard®, not 171



Cinema Fluorescent – Biax®

FEATURES

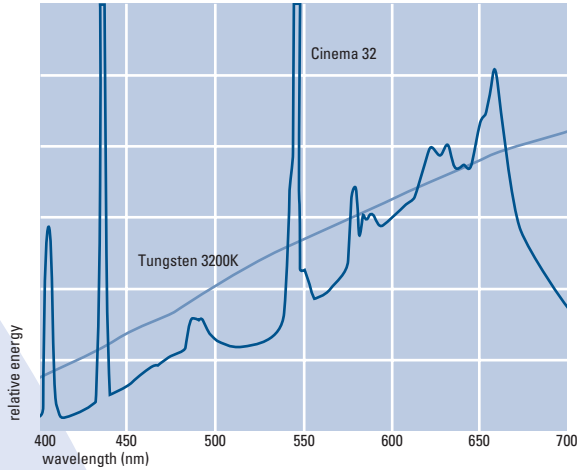
- Color is matched for Tungsten 3200 degrees K (Cinema32) or Daylight 5500 degrees K (Cinema 56)
- For smaller light weight fixtures
- Dimmable to 1% with approved ANSI systems

Watts	MOL (in)	Order Code	Description	Order w/CVG	Case Qty.	Bulb	Base	CRI Index	Initial Lumens	Mean Lumens	Color Temp.	Life (hrs)	MOL (mm)	Burning Position	CIE Color x	CIE Color y	Footnotes	Figure Number
Cinema Fluorescent – Linear																		
15	18.00	15722	F15T8/CINEMA32	15800	24	T8	G-13 Med BiPin	95	720	575	3200	8000	457	Any	0.415	0.377	8, 171	73
		15723	F15T8/CINEMA55	15801	24	T8	G-13 Med BiPin	96	700	560	5500	8000	457	Any	0.330	0.335	8, 171	73
17	24.00	15724	F17T8/CINEMA32	15806	24	T8	G-13 Med BiPin	95	800	640	3200	20000	610	Any	0.415	0.377	8, 171	73
		15725	F17T8/CINEMA55	15810	24	T8	G-13 Med BiPin	96	770	610	5500	20000	610	Any	0.330	0.335	8, 171	73
20	24.00	15558	F20T12/CINEMA32	15766	24	T12	G-13 Med BiPin	95	780	620	3200	10000	610	Any	0.415	0.377	8, 171	73
		15710	F20T12/CINEMA55	15774	24	T12	G-13 Med BiPin	96	760	600	5500	10000	610	Any	0.330	0.335	8, 171	73
30	36.00	15714	F30T12/CINEMA32	15779	24	T12	G-13 Med BiPin	95	1450	1160	3200	18000	914	Any	0.415	0.377	8, 171	73
		15715	F30T12/CINEMA55	15780	24	T12	G-13 Med BiPin	96	1400	1120	5500	18000	914	Any	0.330	0.335	8, 171	73
32	48.00	47868	F32T8/CINEMA32	47881	36	T8	G-13 Med BiPin	95	1800	1440	3200	20000	1219	Any	0.415	0.377	8, 171	73
		47869	F32T8/CINEMA55	47882	36	T8	G-13 Med BiPin	96	1750	1400	5500	20000	1219	Any	0.330	0.335	8, 171	73
35	24.00	15712	F20T12/CINEMA32/HO	15775	24	T12	G-13 Med BiPin	95	1130	800	3200	7500	610	Any	0.415	0.377	8, 171	73
		15713	F20T12/CINEMA55/HO	15776	24	T12	G-13 Med BiPin	96	1100	770	5500	7500	610	Any	0.330	0.335	8, 171	73
40	48.00	47857	F40T12/CINEMA32	47876	30	T12	G-13 Med BiPin	95	2000	1600	3200	20000	1219	Any	0.415	0.377	8, 171	73
		47864	F40T12/CINEMA55	47877	30	T12	G-13 Med BiPin	96	1950	1560	5500	20000	1219	Any	0.330	0.335	8, 171	73
75	48.00	15716	F40T12/CINEMA32/HO	15782	30	T12	G-13 Med BiPin	95	2900	2030	3200	15000	1219	Any	0.415	0.377	8, 171	73
		15717	F40T12/CINEMA55/HO	15783	30	T12	G-13 Med BiPin	96	2820	1974	5500	15000	1219	Any	0.330	0.335	8, 171	73
85	72.00	15718	F72T12/CINEMA32/HO	15785	15	T12	G-13 Med BiPin	95	4150	2905	3200	15000	1829	Any	0.415	0.377	8, 171	73
		15719	F72T12/CINEMA55/HO	15786	15	T12	G-13 Med BiPin	96	4050	2835	5500	15000	1829	Any	0.330	0.335	8, 171	73
110	96.00	15720	F96T12/CINEMA32/HO	15794	15	T12	G-13 Med BiPin	95	5800	4060	3200	15000	2438	Any	0.415	0.377	8, 171	73
		15721	F96T12/CINEMA55/HO	15798	15	T12	G-13 Med BiPin	96	5650	3955	5500	15000	2438	Any	0.330	0.335	8, 171	73
Cinema Fluorescent – Biax®																		
55	21.10	15811	F55BX/CINEMA32		10	T5	2G11-4 PIN	86	4100	3485	3200	8000	536	Any	0.415	0.380	171	74
		15814	F55BX/CINEMA56		10	T5	2G11-4 PIN	86	4100	3485	5600	8000	536	Any	0.330	0.335	171	74
		22084	F55BX/CINPLUS/32		10	T5	2G11-4 PIN	86	2400	2040	3200	8000	536	Any	0.415	0.380	171	74
		22085	F55BX/CINPLUS/56		10	T5	2G11-4 PIN	86	2400	2040	5600	8000	536	Any	0.330	0.335	171	74

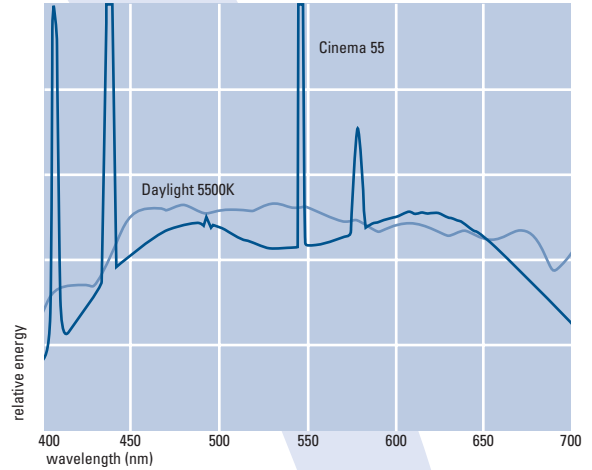
SECTION 1 Stage and Studio – Fluorescent

- GE Cinema Fluorescent match phosphor blends to film light reference sources
- A full range of operating currents and dimming conditions can be used without requiring added filtration

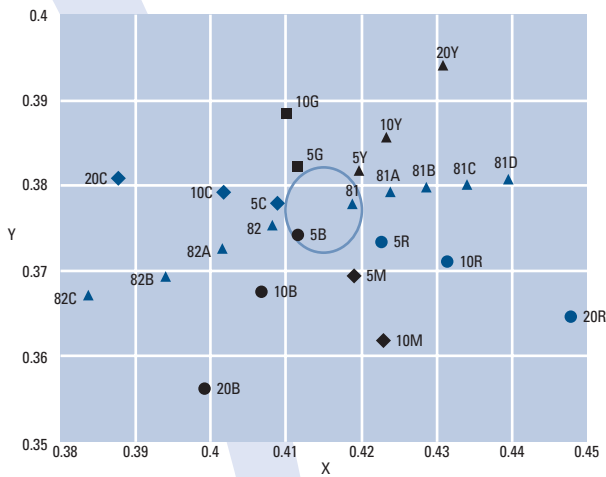
Cinema 32 vs. Tungsten 3200K



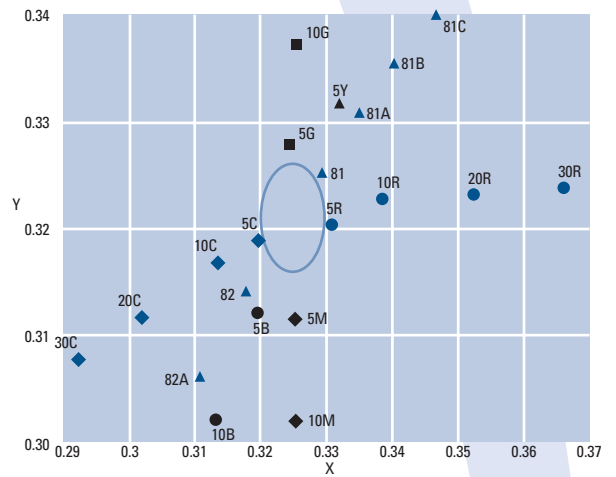
Cinema 55 vs. 5540K Daylight



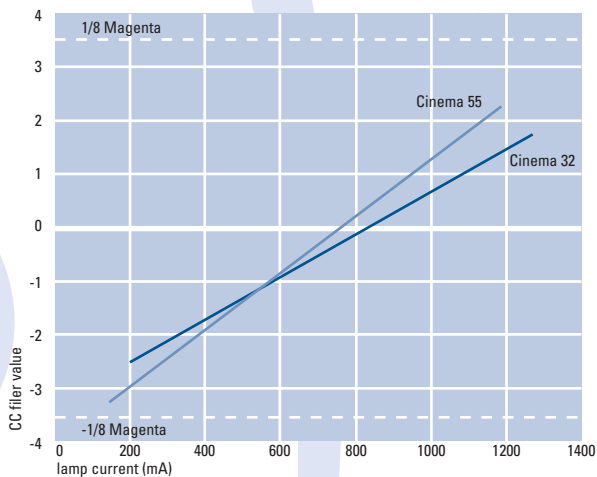
Tungsten 3200K Color Shift with Wratten Filters



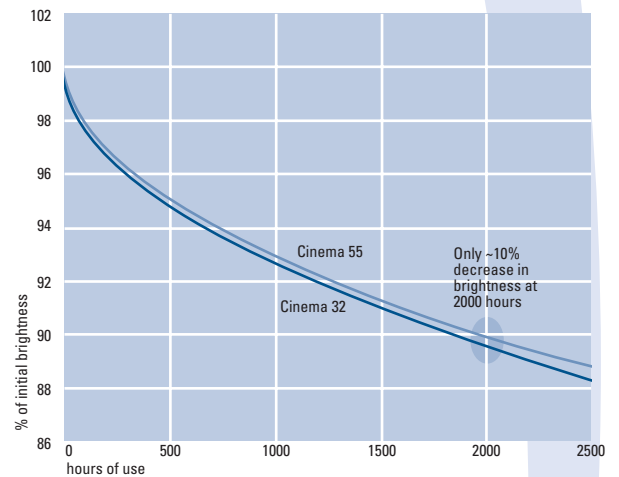
Daylight Color Shift with Wratten Filters



Color vs. Lamp Current for T12HO Cinema Lamps



Minimal Lamp Brightness Decrease Over Usage

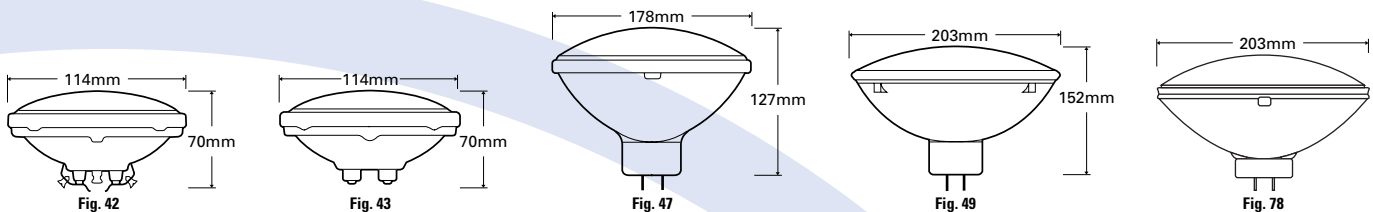


Stage and Studio – Sealed Beams SECTION 1

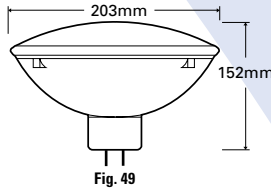
Stage/Studio Sealed Beams

FEATURES

- See Section 3 for additional sealed beams
- Sealed glass parts will tolerate moisture and salt over time better than metal composite lamps
- Consistent filament to reflector focusing, and tailored lenses to insure MBCP and spread suitable for the application
- Beam distributions in narrow spot (NSP), spot (SP), medium and wide flood (MFL, WFL)



Watts Volts	Order Code	Description	ANSI Code	LIF Code	Case Qty.	Bulb Size	Base	MOL (in)	MBCP	10% Spread H	10% Spread V	50% Spread H	50% Spread V	Color Temp.	Filament Type	Life (hrs)	Application	Footnotes	Figure Number
Sealed Beam – Halogen PAR36, 4.5" (144mm) Reflector																			
650 120	41667 DWE-Q650PAR36/1	DWE	12 PAR36	Screw Terminals	2.75	24000		40	30	3200		100					63		42
	41668 FAY-Q650PAR36/3D	FAY	12 PAR36	Ferrule	2.75	36000		25	15	5000	C-7A	30					63		43
	41669 FBE-Q650PAR36/5D	FBE	12 PAR36	Screw Terminals	2.75	36000		25	15	5000	C-7A	30					63		42
	41671 FBO-Q650PAR36/5	FBO	12 PAR36	Screw Terminals	2.75	67000		25	15	3400	C-7A	30					63		42
	41672 FCW-Q650PAR36/6	FCW	12 PAR36	Ferrule	2.75	9000		60	55	3200	C-7A	100					63		43
	41673 FCX-Q650PAR36/7	FCX	12 PAR36	Ferrule	2.75	24000		40	30	3200	C-7A	100					63		43
Sealed Beam – Halogen PAR56, 7" (178mm) Reflector																			
500 120	43495 Q500PAR56MFL		6 PAR56	Mog End Pr	5	43000	42	20	26	10	2950	CC-6	4000	Medium Flood	150				47
	43494 Q500PAR56NSP		6 PAR56	Mog End Pr	5	96000	32	15	13	8	2950	CC-6	4000	Narrow Spot	150				47
	43496 Q500PAR56WFL		6 PAR56	Mog End Pr	5	19000	66	34	44	20	2950	CC-6	4000	Wide Flood	150				47
Sealed Beam – Halogen and Incandescent PAR64, 8" (203mm) Reflector																			
500 120	39409 500PAR64/MFL		12 PAR64	ExMogEndPr	6	37000	35	19	23	11	2800	CC-13	2000	Medium Flood	20, 23, 24				49
	39406 500PAR64/NSP		12 PAR64	ExMogEndPr	6	110000	19	14	12	7	2800	CC-13	2000	Narrow Spot	20, 23, 24				49
	39412 500PAR64/WFL		12 PAR64	ExMogEndPr	6	13000	55	32	42	20	2800	CC-13	2000	Wide Flood	20, 23, 24				49
230	39411 500PAR64/MFL		12 PAR64	MogEndPr	6		32	19	21	10	2700	CC-13	2000	Medium Flood	20, 23, 24				78
	39414 500PAR64/WFL		12 PAR64	MogEndPr	6		55	32	42	20	2700	CC-13	2000	Wide Flood	20, 23, 24				78
	30287 Q500PAR64/MFL	CP88	6 PAR64	ExMogEndPr		65000	32	19	21	10	3200		300	CP88-MFL	63				49
	30283 Q500PAR64/NSP	CP87	6 PAR64	ExMogEndPr		140000	19	16	11	9	3200		300	CP87-MSP	63				49
	30280 Q500PAR64/VNSP	CP86	6 PAR64	ExMogEndPr		240000	16	13	10	7	3200		300	CP86-VNSP	63				49
240	30288 Q500PAR64/MFL	CP88	6 PAR64	ExMogEndPr		65000	32	19	21	10	3200		300	CP88-MFL	63				49
	30286 Q500PAR64/NSP	CP87	6 PAR64	ExMogEndPr		140000	19	16	11	9	3200		300	CP87-MSP	63				49
	30282 Q500PAR64/VNSP	CP86	6 PAR64	ExMogEndPr		240000	16	13	10	7	3200		300	CP86-VNSP	63				49
1000 120	13233 FFN-Q1000PAR64/1	FFN	6 PAR64	ExMogEndPr	6	400000	24	10	12	6	3200	C-7A	800	Very Narrow Spot	63				49
	13229 FFP-Q1000PAR64/2	FFP	6 PAR64	ExMogEndPr	6	330000	26	14	14	7	3200	C-7A	800	Narrow Spot	63				49
	13228 FFR-Q1000PAR64/5	FFR	6 PAR64	ExMogEndPr	6	125000	44	21	28	12	3200	C-7A	800	Medium Flood	63				49
	13227 FFS-Q1000PAR64/6	FFS	6 PAR64	ExMogEndPr	6	40000	71	45	48	24	3200	C-7A	800	Wide Flood	63				49
	13226 FGM-Q1000PAR64/3	FGM	6 PAR64	ExMogEndPr	6	200000	24	12	13	6	5200	C-7A	200	Medium Flood	63				49
	13225 FGN-Q1000PAR64/7D	FGN	6 PAR64	ExMogEndPr	6	70000	43	20	27	11	5200	C-7A	200	Narrow Spot	63				49
	43498 Q1000PAR64MFL		6 PAR64	ExMogEndPr	6	80000	45	22	28	12	3000	CC-6	4000	Medium Flood	150				49
	43497 Q1000PAR64NSP		6 PAR64	ExMogEndPr	6	200000	31	14	15	8	3000	CC-6	4000	Narrow Spot	150				49
	43499 Q1000PAR64/WFL		6 PAR64	ExMogEndPr	6	33000	72	45	48	24	3000	CC-6	4000	Wide Flood	150				49

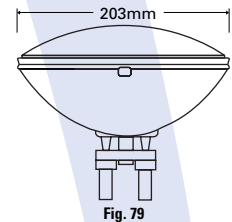
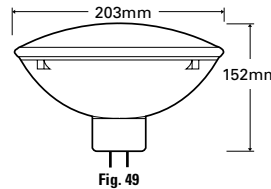


Watts	Volts	Order Code	Description	ANSI Code	LIF Code	Case Qty.	Bulb Size	Base	MOL (in)	MBCP	10% Spread H	10% Spread V	50% Spread H	50% Spread V	Color Temp.	Filament Type	Life (hrs)	Application	Footnotes	Figure
Sealed Beam – Halogen and Incandescent PAR64, 8" (203mm) Reflector (Continued)																				
1000	230	30277	CP95/230V	CP95	6 PAR64	ExMogEndPr			15000	125	95	70	70	3200		300	Very Wide Flood	63	49	
		93409	EXC-Q1MPAR64CP60	EXC	CP60	6 PAR64	ExMogEndPr		6	352000	20	17	12	9	3200	C-7A	300	Very Narrow Spot	63	49
		10928	EXD-Q1MPAR64CP61	EXD	CP61	6 PAR64	ExMogEndPr		6	297000	22	20	14	10	3200	C-7A	300	Narrow Spot	63	49
		10930	EXE-Q1MPAR64CP62	EXE	CP62	6 PAR64	ExMogEndPr		6	138000	38	20	24	11	3200	C-7A	300	Medium Flood	63	49
		35482	EXG/PAR64/WFL230V	EXG	6 PAR64	ExMogEndPr			6	38000	73	36	57	21	3200	C-7A	300	Wide Flood	63	49
240		30278	CP95/240V	CP95	6 PAR64	ExMogEndPr			15000	125	95	70	70	3200		300	Very Wide Flood	63	49	
		10925	EXC-Q1MPAR64CP60	EXC	CP60	6 PAR64	ExMogEndPr		6	352000	20	17	12	9	3200	C-7A	300	Very Narrow Spot	63	49
		10929	EXD-Q1MPAR64CP61	EXD	CP61	6 PAR64	ExMogEndPr		6	297000	22	20	14	10	3200	C-7A	300	Narrow Spot	63	49
		10931	EXE-Q1MPAR64CP62	EXE	CP62	6 PAR64	ExMogEndPr		6	138000	38	20	24	11	3200	C-7A	300	Medium Flood	63	49
		35483	EXG/PAR64/WFL240V	EXG	6 PAR64	ExMogEndPr			6	38000	73	36	57	21	3200	C-7A	300	Wide Flood	63	49
1200	120	34812	GFA-Q1200PAR64/5	GFA	6 PAR64	ExMogEndPr			6	160000	22	36	13	24	3200	C-7A	400	Medium Flood	63	49
		34810	GFB-Q1200PAR64/2	GFB	6 PAR64	ExMogEndPr			6	450000	16	18	8	10	3200	C-7A	400	Narrow Spot	63	49
		34808	GFC-Q1200PAR64/1	GFC	6 PAR64	ExMogEndPr			6	540000	14	16	8	10	3200	C-7A	400	Very Narrow Spot	63	49

Sealed Beam – Discharge, PAR64, 8" (203mm) Reflector

FEATURES

- ConstantColor® CMH® Metal Halide (Warm), Multi-Vapor® (SPL) and Compact Iodide Daylight (CID) color temperatures
- Excellent color rendition with CRI 80-90+
- CMH®/CID Operate on standard metal halide ballasts with 10-20% more output
- Over 1 million candela maximum beams available



Watts	Volts or ANSI Ballast	Order Code	Description	Case Qty.	Bulb Size	Base	MOL (in)	MBCP	10% Spread H	10% Spread V	50% Spread H	50% Spread V	Color Temp.	CRI Index	Life (hrs)	Application	Footnotes	Figure Number
Sealed Beam – Discharge, PAR64, 8" (203mm) Reflector																		
150	M81,102	16959	CMH150/PAR64/830/GX16d/MFL	6	PAR64	GX16d		47000	34	26	22	14	3000	80+	8000	Medium Flood	14, 18, 63	49
		16958	CMH150/PAR64/830/GX16d/SP	6	PAR64	GX16d		154000	18	18	9	9	3000	80+	8000	Narrow Spot	14, 18, 63	49
		16960	CMH150/PAR64/830/GX16d/WFL	6	PAR64	GX16d		16000	62	36	46	23	3000	80+	8000	Wide Flood	14, 18, 63	49
		16962	CMH150/PAR64/842/GX16d/MFL	6	PAR64	GX16d		47000	34	26	22	14	4200	90+	8000	Medium Flood	14, 18, 63	49
		16961	CMH150/PAR64/842/GX16d/SP	6	PAR64	GX16d		154000	18	18	9	9	4200	90+	8000	Narrow Spot	14, 18, 63	49
		16963	CMH150/PAR64/842/GX16d/WFL	6	PAR64	GX16d		16000	62	36	46	23	4200	90+	8000	Wide Flood	14, 18, 63	49
1000	77	29333	SPL1000/PAR64/840	1	PAR64	G38	6.87	1350000			6	6	4000	80	3500	Narrow Spot	14, 19, 63	79
		29336	SPL1000/PAR64/HR	1	PAR64	G38	6.87	1350000			6	6	4000	80	3500	Narrow Spot, Hot restrike	14, 19, 63	79
		30360	99-1225CID/CS	1	PAR64	G38	6.87	850000			20	20	5500	85	1500	Cold Start	14, 23, 63	79
		30371	99-1425CID/HR	1	PAR64	G38	6.87	850000			20	20	5500	85	1000	Hot Restrike	14, 23, 63	79
1200	100	30372	99-1435CID/HR	1	PAR64	G38	6.87	820000			18	18	5500	85	1000	Hot Restrike	14, 24, 63	79