



QUARTZLINE® TUNGSTEN HALOGEN 6-7

QUARTZLINE® TUNGSTEN HALOGEN HIGH VOLTAGE 6-8

CINEMA LAMPS

Fluorescent Lamps 6-9

Fluorescent covRguard® Lamps 6-9

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CSR METAL HALIDE LAMPS

Single-Ended Cold Start 6-10

Single-Ended Short Arc 6-10

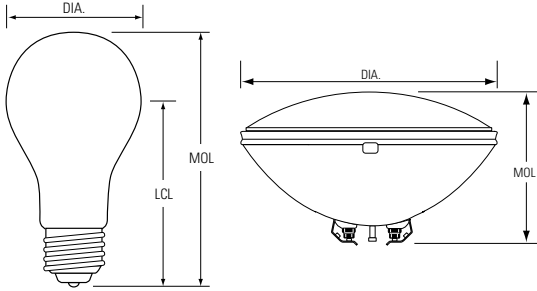
Single-Ended Hot Restrike 6-10

Double-Ended Hot Restrike 6-10

ANSI CODES 6-11



BULB IDENTIFICATION

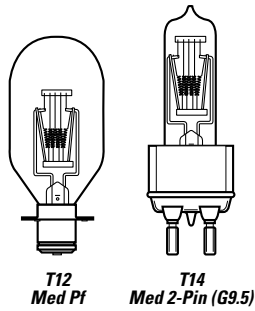


DIA: Diameter of bulb at widest point.
 MOL: Maximum Overall Length including base or pins.
 LCL: Distance between the center of the arc tube and the Light Center Length reference plane.

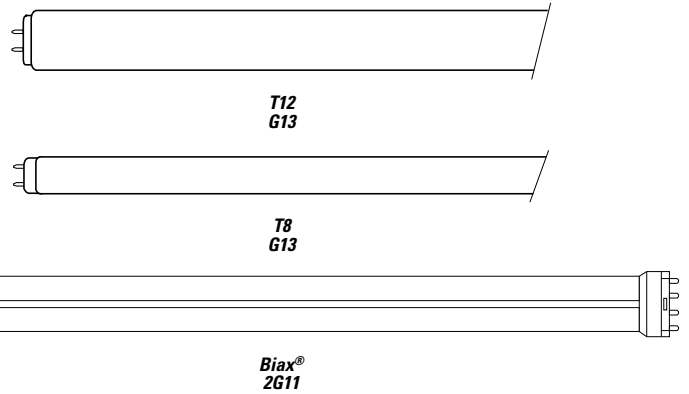
Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. inches x 25.4 = millimeters).

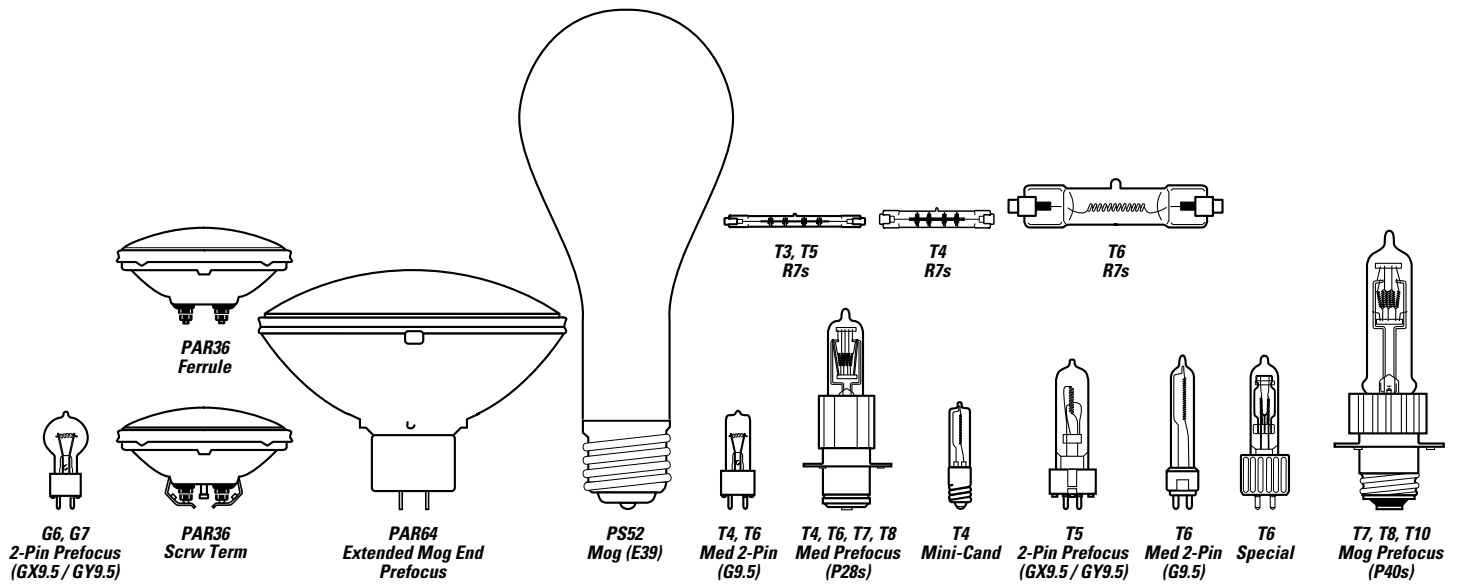
LAMP LOCATOR



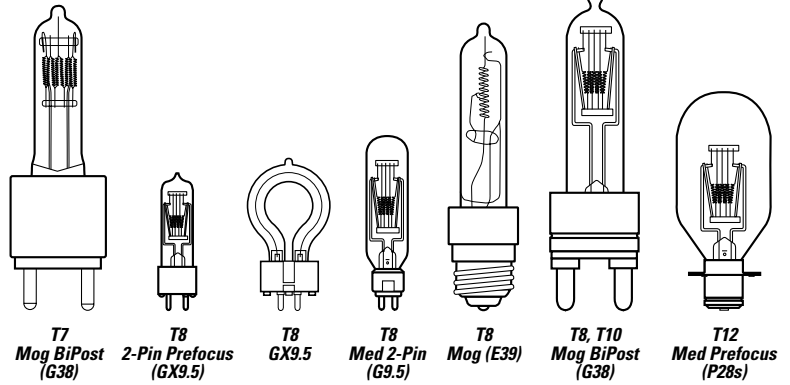
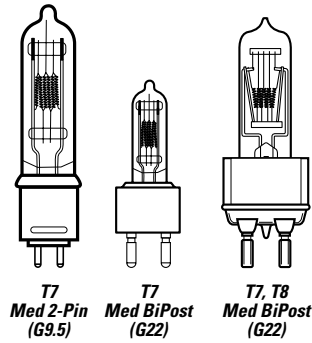
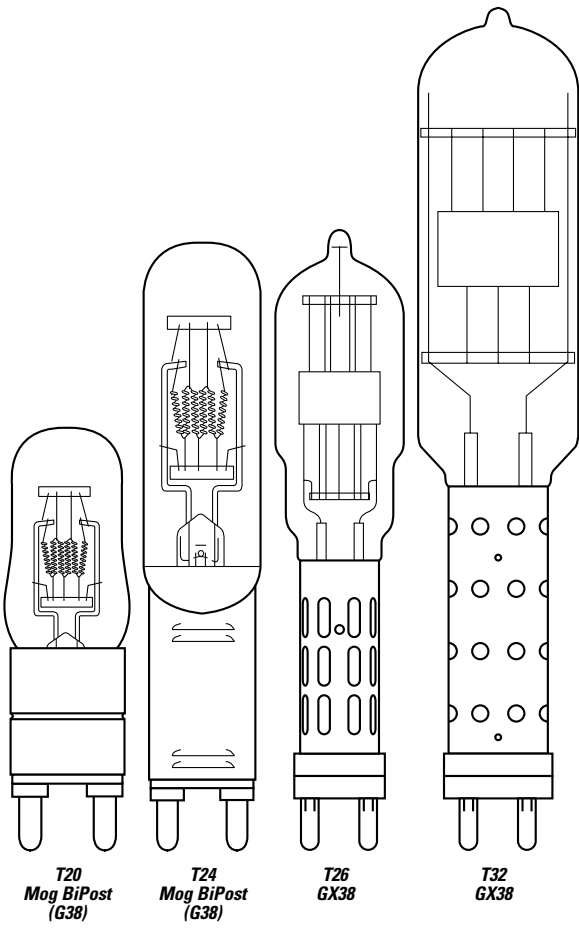
Incandescent Lamps



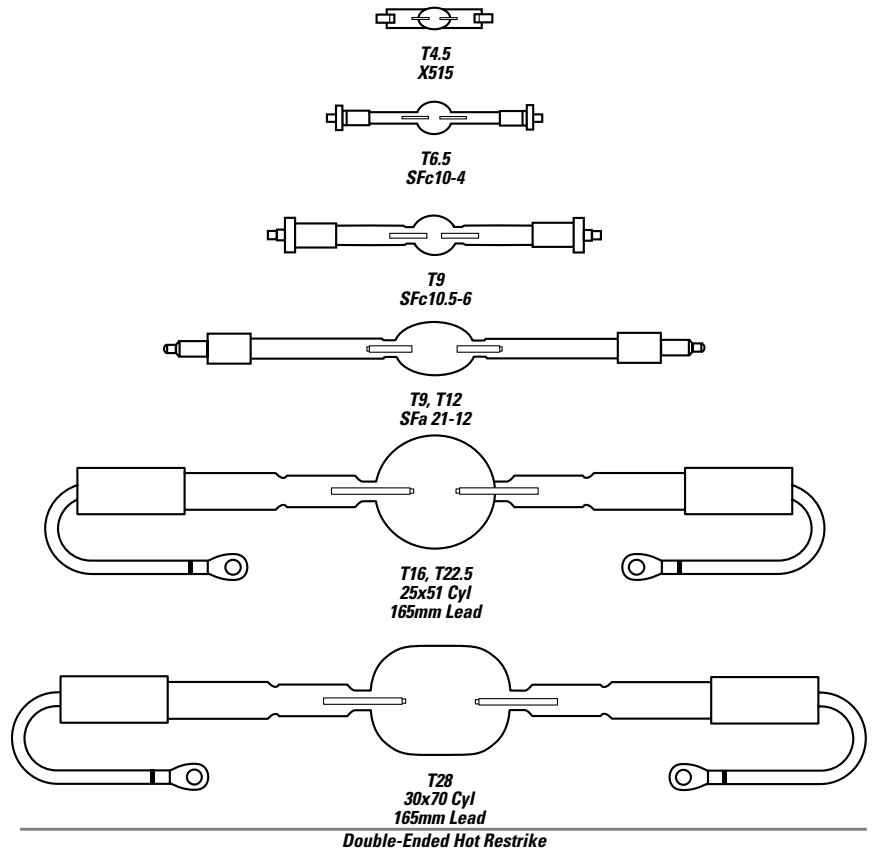
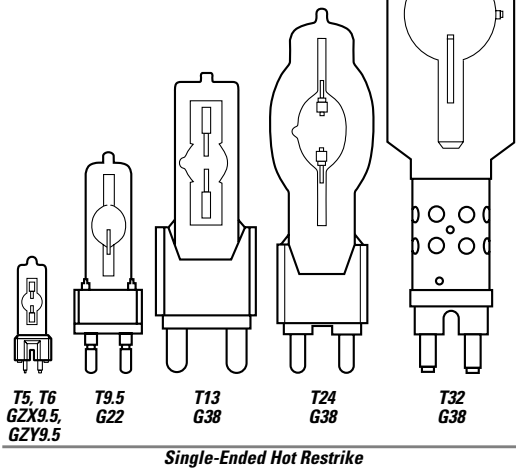
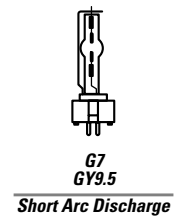
Fluorescent Cinema Lamps



Quartzline® Tungsten Halogen



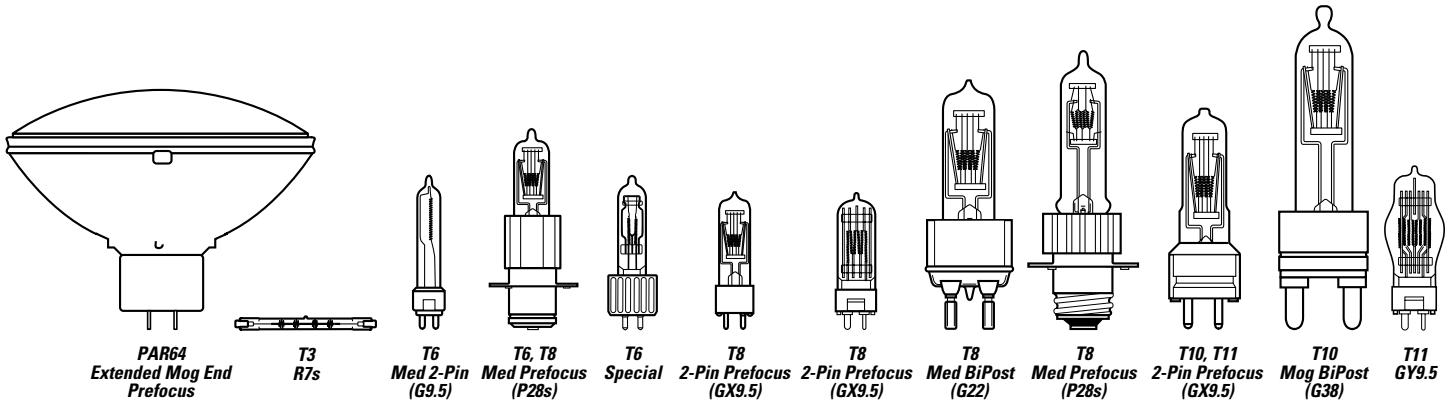
Quartzline® Tungsten Halogen (Continued)



CSR Metal Halide Lamps

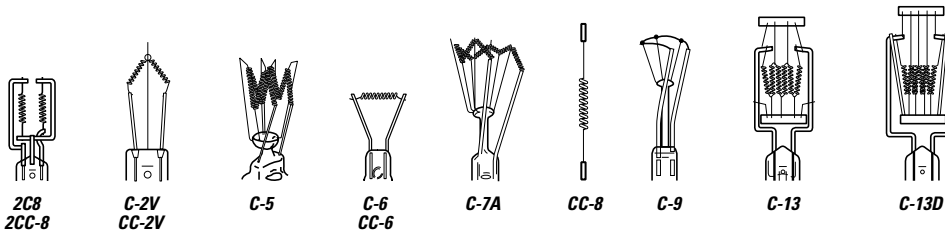


LAMP LOCATOR (CONTINUED)

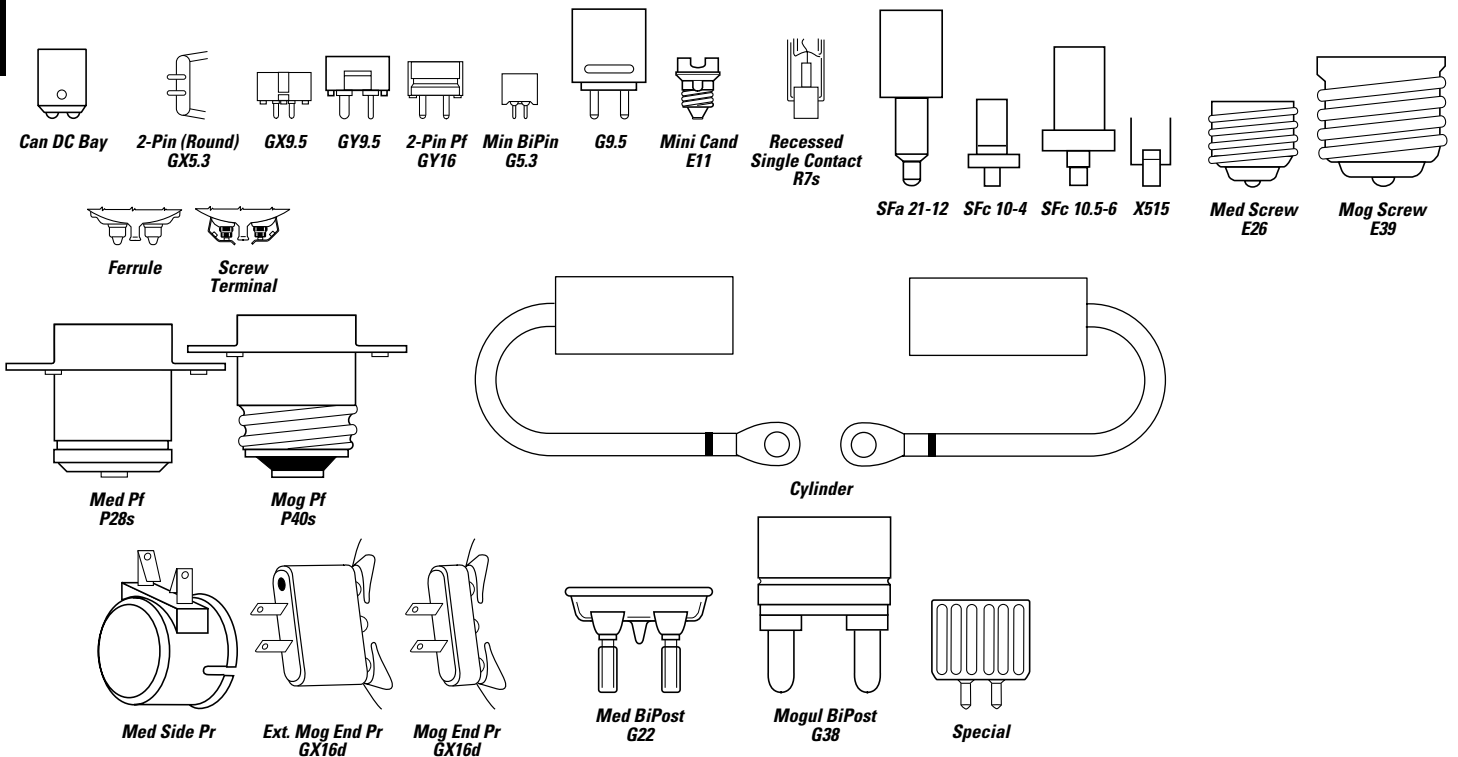


Quartzline® Tungsten Halogen High Voltage

FILAMENT IDENTIFICATION



BASE IDENTIFICATION





INTRODUCTION

GE Lighting has been a leading supplier to stage and studio users for many decades, and continues its pioneering work in the development of new and innovative light sources.

The primary change in recent years has been the migration from glass to quartz as the standard bulb material. The higher melting point of quartz enables bulb envelopes to be reduced in size and the halogen fillings to be run at higher pressures, leading to smaller, lighter, brighter, more energy-efficient and more reliable lamps.

GE Lighting's comprehensive range of single- and double-ended lamps is complemented by a group of PAR lamps, where the light source is enclosed in a sealed reflector unit.

GENERAL INFORMATION

OPERATIONAL CHARACTERISTICS

Quartz halogen lamps are designed to be operated within close voltage tolerances, and excessive voltage can lead to drastically shortened life, albeit with significantly higher light output.

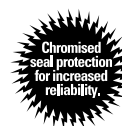
A second important variable is temperature. The tungsten halogen cycle does not operate properly below about 482°F (250°C) and quartz may begin to devitrify above about 1832°F (1000°C). Bulb envelopes should therefore be held in the range 482-1472°F (250-800°C).

The contact pins are plated to ensure good electrical connection with the lampholder. However, at temperatures above 350°C, the plating may lose adhesion, leading to deterioration in contact and possibly local hot spots, arcing and consequent irreparable damage to both lamp and holder. Note that if there is evidence that this has occurred, the lampholder should be replaced before the next lamp is fitted, otherwise it is likely to fail prematurely for the same reason.

Lamps normally fail by fusing of the filament. This is often followed by arcing, leading to very high currents which can cause the envelope and seals to fail and the lamp to shatter. A quick-acting, high-breaking capacity fuse should therefore be connected to the supply line in all applications. Suitable types are given in IEC 127, 241 and 269.

CHROMISE SEAL PROTECTION

Many Quartzline® Stage/Studio lamps have a special chromised seal protection, which allows lamp seal temperatures up to 500° C (vs traditional 350° C), which increases life and reliability. Look for this seal on the package coming soon.



The beam patterns of PAR lamps range from very narrow spot to wide-angle floods. This ensures consistency from lamp to lamp, interchangeability to suit the beam pattern needs of the moment and instant replaceability without the need to refocus and re-aim fixtures.

The sealed beam design prolongs the life of the inner lamp as well as protecting it from dust, vapor and other hazards, thereby ensuring high lumen maintenance over the life of the lamp.

PAR lamps may be used with very simple, lightweight, economical fixtures.

LAMP CODES

GE Stage & Studio lamps are coded as such:

Lamp Description. This may be either an American National Standards Institute (ANSI) three letter code such as EJK, or a descriptive code in the general form Q750T3/4CL. ANSI codes are assigned to lamp specifications – mechanical, electrical and photometric characteristics – filed with the Institute.

They ensure interchangeability among similarly coded lamps from different manufacturers. Most of these lamps are rated for 120-volt operation. In a few cases a pair of ANSI codes are given (e.g. BFL/BFK), where the first is the official code for the lamp and the second code describes lamps the specifications of which are met or exceeded. In such cases, the lamps may be used to replace lamps with either code.

Base designations conform to IEC standards.

PRODUCT INFORMATION

GE CSR/CSD METAL HALIDE LAMPS

New GE range of metal halide lamps for use in a variety of applications including TV and film, stage, concerts, photographic and large screen presentation and color simulation.

- Excellent color rendering $R_a > 90$
- Daylight color temperature, typically 6000K
- Universal burning position
- High efficiency up to 100 Lm/Watt
- Hot restrike and dimmable with stable color temperature
- Superior color stability
- Excellent lumen maintenance
- Use with electronic or AC magnetic ballast/ignitor control gear
- Applications include inside and outside TV and film production, stage, concerts, sporting events, photographic studios, overhead and large screen projection and color simulation.

GE CINEMA FLUORESCENT LAMPS

- High CRI (Color Rendering Index)... traditional fluorescent lamps have not been widely used in photography and film making because of relatively low CRI and the prominent green spike found in typical fluorescent phosphors. GE Lighting Cinema 32 and Cinema 55 lamps have corrected these deficiencies with products that now have a CRI of 95 (out of 100 max.) and colors that respond to the spectral sensitivity curves of film and electronic imaging media.
- Optional Shatter Resistance... GE Cinema 32 and 55 offer the option of GE's exclusive covRguard® shatter resistance that helps contain glass fragments if the lamps are broken. Reduce the possibility of glass related injuries to irreplaceable talent, damage to expensive sets, contamination of delicate equipment or missing critical deadlines because GE offers complete shatter resistance. GE's covRguard® process wraps the Cinema lamps in a full 15 ml thick casing of GE's exclusive Lexan™ polycarbonate that helps contain the glass, phosphor and chemicals if the lamp is broken. Unlike other shatter-resistant lamps, GE's covRguard® lamps require no assembly.



PRODUCT INFORMATION (CONTINUED)

- Superior Light Output... the GE covRguard® process offers maximum protection with minimal light loss... the lowest loss of initial light of other shielded products.
- Dependable UV Blocking... the GE covRguard® process also offers excellent UV blocking. CovRguard® blocks 98% of the UV that is normally transmitted from an unprotected fluorescent lamp — all UVC, all UVB and most of UVA. This is critical for protecting expensive sets and wardrobe from the fading effects of UV exposure.

- Chromaticity... the Cinema 32 has a chromaticity of X=.415 and Y=.377 with a CRI of 95. The Cinema 32 mixes well with both incandescent and quartz halogen light sources without color corrections. The Cinema 55 is a broad band spectrum daylight lamp with a chromaticity of X=.325 and Y=.321 and a CRI of 96. The Cinema 55 mixes well with ambient daylight and short arc discharge HID light sources without color corrections.

For more detailed information on all GE Stage and Studio lighting order "Showbiz®" 2004, PC 23766 from your GE sales representative.

HEADINGS IN THIS CATALOG SECTION

The following terms and descriptions can help you when checking Stage/Studio lamp specifications and when ordering products. Within each product line, lamps are divided into families, within these families, lamps are then listed by wattage.

Watts:			Volts:		Case Quantity:		Approximate CBCP (Center Beam Candlepower):				Color Temperature - Kelvins (K):		Filament Design:		MOL in.:		LCL in.:		Beam Spread:		Rated Life - Hours:		Footnotes:	
Energy used. To find actual energy used (kWh) multiply power (watts shown) x time divided by 1000.			Lamp data is based on operation at rated voltage.		Number of product units packed in a case.		For reflector type lamps. Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam.				A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value, the whiter or "cooler" the light appears.		Filaments are designated by a letter combination in which C is a coiled wire filament, CC is a coiled wire that is itself wound into a larger coil, and SR is a straight ribbon filament. Numbers represent the type of filament-support arrangement.		Maximum Overall Length in inches.		Distance between the center of the filament and the Light Center Length reference plane, in inches.		For reflector type lamps. The total angle of the directed beam (in degrees) to where the intensity of the beam falls to 50% or 10% of the maximum value as indicated.		Lamp burning hours to median life expectancy.		See pg 6-12.	
Shape:			Order Code:		LIF Code:		Lumens Initial:				Description:		MOL in.:		LCL in.:		Beam Spread:		Rated Life - Hours:		Footnotes:			
Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch).			It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.		These are assigned by the Lighting Federation of London, U.K. They ensure electrical and mechanical interchangeability of similarly coded lamps. LIF codes are divided into groups according to the primary application of the lamps.		Initial light output.				The lamp's identification code.		Maximum Overall Length in inches.		Distance between the center of the filament and the Light Center Length reference plane, in inches.		For reflector type lamps. The total angle of the directed beam (in degrees) to where the intensity of the beam falls to 50% or 10% of the maximum value as indicated.		Lamp burning hours to median life expectancy.		See pg 6-12.			
Base:			Order Code:		LIF Code:		Lumens Initial:				Description:		MOL in.:		LCL in.:		Beam Spread:		Rated Life - Hours:		Footnotes:			
The type of base (ANSI).			It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.		These are assigned by the Lighting Federation of London, U.K. They ensure electrical and mechanical interchangeability of similarly coded lamps. LIF codes are divided into groups according to the primary application of the lamps.		Initial light output.				The lamp's identification code.		Maximum Overall Length in inches.		Distance between the center of the filament and the Light Center Length reference plane, in inches.		For reflector type lamps. The total angle of the directed beam (in degrees) to where the intensity of the beam falls to 50% or 10% of the maximum value as indicated.		Lamp burning hours to median life expectancy.		See pg 6-12.			
Watts	Shape	Base	Order Code	LIF Code	Description	Case Qty.	Lumens Initial	CBCP	Color Temp. K	Filament Design	MOL	LCL	Beam Spread 10%	Beam Spread 50%	Rated Life Hours	Footnotes								
500	T6	Med Pf (P28s)	120 11966	T17	BTL-Q500T6/CL/P	12	11000		3000	C-13	5.25	2.18			500	3, 12								

BTL- Q500 T6/CL/P

Identifies the lamp ANSI code.

Identifies the lamp's wattage. Q=Quartz Halogen

Identifies the lamp shape and the bulb diameter in eighths of inches.

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape by using tables on pages 6-2 – 6-4.
2. Measure bulb diameter using ruler in Appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 6-4.
4. Find your lamp in the table containing the bulb shape, size and base.



Watts	Shape	Base	Order Volts	LIF Code	Description	Case Qty.	Lumens Initial	Color Temp. K	Filament Design	MOL	LCL	Beam Spread		Rated Life Hours	Footnotes			
												10% Horiz.	50% Vert.					
QUARTZLINE® TUNGSTEN HALOGEN																		
200	T4	Cand DC Bay BA15d	120	14119	FEV-Q200/4CL/DC	6	5500	3200	CC-2V	2.43	1.37			50	12			
300	T8	2-Pin Pf (GY9.5)	120	39781	CP81 FKW-Q300T8	24	6900	3200	C-13	3.54	1.81			50	12			
350	T2	R7S	120	20881	FDH/HIR-Q350T2/4	6	13250	3200	C-8	4.68				400	↔ 2, 12			
375	T6	Special	115	17608	HPL375/C 115V	12	10540	3250	4-C8	4.17	2.37			300	12			
				18189	HPL375/LL/C 115V	12	8000	3050	4-C8	4.17	2.37			1000	12			
420	G7	2-Pin Pf (GY9.5)	120	33934	EKB-Q420/4CL/2PP	24	11000	3200	CC-6	2.5	1.43			75	12			
500	T3	R7S	120	23735	FDH-Q500T3/4CL	12	13250	3200	C-8	4.68				400	2, 12			
				23734	P2/31 FDN-Q500T3/4	12	12800	3200	C-8	4.68			400	2, 7, 12				
	T4	Med Pf (P28s)	120	39135	EGE-Q500CL/P	12	10450	2950	CC-8	6	3.5			2000	12			
		Mini-Cand (E11)	120	47950	EVR-Q500CL/MC	6	10450	2950	CC-8	3.62	2			2000	8, 12			
	T6	Med Pf (P28s)	120	11966	T17 BTL-Q500T6/CL/P	12	11000	3000	C-13	5.25	2.18			500	3, 12			
				16465	BTM-Q500T64CL/2P	12	13000	3200	C-13	5.25	2.18			150	3, 12			
	T7	Med BiPost (G22)	120	30373	EGN-Q500T8	12	13000	3200	C-13	5.51	2.5			150	12			
	T6	Med 2-Pin (G9.5)	120	39768	EHD-Q500CL/TP	24	10000	2900	CC-8	4.1	2.37			2000	12			
				39789	EHC-Q500/5CL	24	12700	3150	CC-8	4.1	2.37			500	12			
	T8	2-Pin Pf (GY9.5)	120	39623	CP82 FRG-Q500T8	24	13000	3200	C-13	3.54	1.81			150	3, 12			
	T4	Med Pf (P28s)	120	39134	EGC-Q500/5CL/P	12	12700	3150	CC-8	6	3.5			500	12			
525	T3	R7S	120	20883	EJG/HIR-Q525T2 -1	6	20600	3250	C-8	4.68				400	↔ 2, 12			
550	T6	Special	115	17607	HPL550/C 77 V	12	16170	3250	4-C8	4.17	2.37			300	12			
575	T6	Med 2-Pin (G9.5)	115	39730	FLK/LL-Q575T6	24	12800	2950	CC-8	4.1	2.37			1500	12			
				11450	FLK-Q575T6/4CL	24	16500	3200	CC-8	4.1	2.37			300	12			
				93428	GLA-Q575T6/4CL	24	13000	3050	C-13D	4.1	2.37			1500	12			
				93429	GLC-Q575T6/5CL	24	14500	3200	C-13D	4.1	2.37			300	12			
				Special	92431	HPL575/C115V	12	16500	3200	4C-8	4.2	2.37			300	12		
					92434	HPL575/LL/C 115V	12	12360	3050	4C-8	4.2	2.37			1500	12		
					120	92433	HPL575/C 120V	12	16520	3200	4C-8	4.2	2.37			300	12	
			120	92435	HPL575/LL/C 120V	12	12360	3050	4C-8	4.2	2.37			2000	12			
600	T5	2-Pin Pf (GY9.5)	120	30475	FMR-Q600T5	24	12600	3050	CC-8	3.4	2			2000	3, 12			
650	G6	2-Pin Pf (GX9.5)	120	34328	EKD-Q650/3CL/2PP	24	20000	3300	CC-6	2.5	1.43			25	3, 12			
				PAR36	Ferrule	41668	FAY-Q650PAR36/3D	12	36000	5000	C-7A	2.75			25	15	30	13
						41672	FCW-Q650PAR36/6	12	9000	3200	C-7A	2.75			60	55	100	13
						41673	FCX-Q650PAR36/7	12	24000	3200	C-7A	2.75			40	30	100	13
				Screw Term		41667	DWE-Q650PAR36/1	12	24000	3200		2.75			40	30	100	13
						41669	FBE-Q650PAR36/5D	12	36000	5000	C-7A	2.75			25	15	30	13
						41671	FBO-Q650PAR36/5	12	67000	3400	C-7A	2.75			25	15	30	13
	T3	R7S	120	13895	FCM/HIR-Q650T3/4	6	25200	3275	C-8	4.68				400	↔ 2, 12			
	T4	R7S	120	30325	P2/6 FAD-Q650T4/4CL	24	16500	3200	CC-8	3.13				100	12			
				30343	P2/6 FBX-Q650T4/4	24	16500	3200	CC-8	3.13			100	7, 12				
	T8	2-Pin Pf (GY9.5)	120	39637	CP89 FRK-Q650T8	24	16900	3200	C-13	3.54	1.81			200	3, 12			
675	T3	R7S	120	20884	FFT/HIR-Q675T3/4	6	26400	3250	C-8	6.56				400	↔ 2, 12			
750	T3	R7S	120	23756	EJG-Q750T3/4CL	12	20600	3200	C-8	4.68				400	2, 12			
				23755	EMD-Q750T3/4	12	19500	3200	C-8	4.68			400	2, 12				
	T6	Med 2-Pin (G9.5)	120	39771	EHF-Q750/4CL	24	20000	3200	CC-8	4.1	2.37			300	12			
				39770	EHG-Q750CL/TP	24	15000	3000	CC-8	4.1	2.37			2000	12			
				92771	GLD-Q750T6/4CL	24	19000	3200	C-13D	4.1	2.37			300	12			
				92773	GLE-Q750T6/4CL	24	17400	3050	C-13D	4.1	2.37			1500	12			
				Med Pf (P28s)	39136	EGF-Q750/4CL/P	12	20400	3200	CC-8	6	3.5			300	12		
					39137	EGG-Q750CL/P	12	15750	3000	CC-8	6	3.5			2000	12		
				Special	115	92432	HPL750/C 115V	12	22000	3200	4-C-8	4.17	2.37			300	12	
92770	HPL750/LL/C	12	16400			3050	4-C-8	4.17	2.37			1500	12					

Stage and Studio Lamps



Watts	Shape	Base	Order Volts	LIF Code	Description	Case Qty.	Lumens Initial	Color Temp. K	Filament Design	MOL	LCL	Beam Spread				Rated Life Hours	Footnotes
												10%	50%	Horiz.	Vert.		
QUARTZLINE® TUNGSTEN HALOGEN (CONTINUED)																	
750	T7	Med BiPost (G22)	120	39190	EGR-Q750T7/4CL	12	21000	3200	C-13D	5	2.5					200	1, 3, 12
		Med Pf (P28s)	120	11953	BTN-Q750T7/CL/2P	12	17600	3050	C-13D	4.75	2.18					500	1, 11, 12
				11954	BTP-Q750T7/4CL2P	12	21000	3200	C-13D	4.75	2.18					200	1, 11, 12
		Med 2-Pin (G9.5)	120	39680	BWM-Q750T7/4CLTP	6	21000	3200	C-13D	4.5	2.37					200	1, 3, 12
1000	PAR64	ExMogEndPr	120	13233	FFN-Q1000PAR64/1	6	400000	3200	C-7A	6		24	10	12	6	800	13
				13229	FFP-Q1000PAR64/2	6	330000	3200	C-7A	6		26	14	14	7	800	13
				13228	FFR-Q1000PAR64/5	6	125000	3200	C-7A	6		44	21	28	12	800	13
				13227	FFS-Q1000PAR64/6	6	40000	3200	C-7A	6		71	45	48	24	800	13
				13226	FGM-Q1000PAR64/3	6	200000	5200	C-7A	6		24	12	13	6	200	13
				13225	FGN-Q1000PAR64/7D	6	70000	5200	C-7A	6		43	20	27	11	200	13
PS52	Mog (E39)		120	39582	DKZ/DSE-Q1000PS5	12	28000	3200	CC-8	13	9.5					750	1, 13
ED37	Mog (E39)		120	34377	DSE/Q1000	10	28000	3200	CC-8	13	9.5					750	1, 13
T3	R7S		120	23797	P2/28 FCM-Q1000T3/4CL	12	28000	3200	C-8		4.68					400	2, 12
				33280	FFT-Q1000T3/1CL	12	26400	3200	C-8		6.56					400	2, 12
				23792	P2/29 FHM-Q1000T3/4	12	27300	3200	C-8		4.68					400	2, 7, 12
			185	23788	EJD-Q1000T3/3CL	12	33600	3350	C-8		4.68					100	2, 12
T5	R7S		120	30157	DXW-Q1000T5/4CL	24	28000	3200	CC-8		3.75					150	12
				30374	FBY-Q1000T5/4	24	26000	3200	CC-8		3.75					150	7, 12
T6	Med 2-Pin (G9.5)		120	39769	CP77 FEL-Q1000/4CL	24	27500	3200	CC-8	4.1	2.37					300	10, 12
	Med Pf (P28s)		120	38853	EGJ-Q1000/4CL/P	12	27500	3200	CC-8	6	3.5					300	12
				38852	EGK-Q1000/4/P	12	26500	3200	CC-8	6	3.5					300	12
				39138	EGM-Q1000CL/P	12	21500	3000	CC-8	6	3.5					2000	12
	R7S		120	33760	FER-Q1000T6/4CL	6	27500	3200	CC-8		5.62					500	12
	Med 2-Pin (G9.5)		120	35853	FCV-Q1000/4	6	26500	3200	CC-8	4.1	2.37					375	10, 12
T7	Med 2-Pin (G9.5)		120	39792	BWN-Q1000T7/4CL	24	28500	3200	C-13D	4.5	2.37					250	1, 3, 12
	Med Pf (P28s)		120	11955	BTR-Q1000T7/4CL2P	12	28500	3200	C-13D	4.75	2.18					250	1, 12
	Med BiPost (G22)		120	39191	EGT-Q1000T7/4CL	12	28500	3200	C-13D	5	2.5					250	1, 3, 12
	Mog BiPost (G38)		120	42697	CYVQ1000T7/4CLBP	6	28500	3200	C-13D	8	5					200	1, 3, 12
	Mog Pf (P40s)		120	12554	BVT-Q1MT7/CL/MP	6	24500	3050	C-13D	7.25	3.93					500	1, 3, 12
				12553	BVV-Q1MT7/4CL/MP	6	28500	3200	C-13D	7.25	3.93					200	1, 3, 12
1200	PAR64	ExMogEndPr	120	34812	GFA-Q1200PAR64/5	6	160000	3200	C-7A	6		22	36	13	24	400	13
				34810	GFB-Q1200PAR64/2	6	450000	3200	C-7A	6		16	18	8	10	400	13
				34808	GFC-Q1200PAR64/1	6	540000	3200	C-7A	6		14	16	8	10	400	13
1500	PS52	Mog (E39)	120	40357	DKX/DSFQ1500PS52	12	41000	3200	C-8	13						1000	1, 13
	ED37	Mog (E39)	120	34378	DSF/Q1500	10	41000	3200	C-8	13						1000	1, 13
	T4	R7S	120	23841	FDB-Q1500T4/4CL	12	41250	3200	C-8		6.56					400	2, 12
				41229	FGT-Q1500T4/4	12	40200	3200	C-8		6.56					400	2, 7, 12
	T8	Mog Pf (P40s)	120	30522	DTA-Q1500T8/4CL	6	41000	3200	C-13D	7.87	3.43					300	3, 12
	T10	Mog BiPost (G38)	120	37564	CXZ-Q1500T10/4CL	6	44500	3200	C-13	8.5	5					400	1, 3, 12
2000	T10	R7S	120	39790	P2/27 FEY-Q2000T8/4CL	12	57000	3200	CC-8		5.62					400	2, 12
	T8	Mog (E39)	120	37086	BWF-Q2000/4CL	6	54000	3200	CC-8	7.5	5.25					500	12
		Mog BiPost (G38)	120	39587	BWA-Q2000/4CL/BP	6	54000	3200	CC-8	8.25	5					500	3, 12
	T10	Mog BiPost (G38)	120	36636	CYX-Q2000T10/4CL	6	59000	3200	C-13	8.5	5					350	1, 3, 12
		Mog Pf (P40s)	120	12555	CP53 BVWQ2MT10/4CL/MP	6	59000	3200	C-13	8.46	3.93					350	3, 12
5000	T20	Mog BiPost (G38)	120	41736	CP29 DPY-Q5000T20/4CL	6	143000	3200	C-13	11	6.5					500	1, 4, 12
10000	T24	Mog BiPost (G38)	120	18305	DTY-Q10M/T24/4CL	4	290000	3200	C-13	15.75	10					300	1, 4, 12
12000	T26	GX38	120	48770	Q12MT26/4CL 120V	1	420000	3400	C-13	16.14	10					150	4, 12
QUARTZLINE® TUNGSTEN HALOGEN HIGH VOLTAGE																	
575	T6	Special	230	37128	HPL575	12	14900	3200	6C-8	4.2	2.37					300	12
				37817	HPL575/LL 230V	12	11780	3050	6C-8	4.2	2.37					1500	12



Watts	Shape	Base	Order Volts	LIF Code	Description	Case Qty.	Lumens Initial	Color Temp. K	Filament Design	MOL	LCL	Beam Spread				Rated Life Hours	Footnotes												
												10% Horiz.	10% Vert.	50% Horiz.	50% Vert.														
QUARTZLINE® TUNGSTEN HALOGEN HIGH VOLTAGE (CONTINUED)																													
600	T6	Med 2-Pin (G9.5)	230	39739	GKV-Q575T6/4CL	24	14000	3200	C-13	4.1	2.37					250	12												
750	T6	Special	230	37824	HPL750	12	19750	3200	6C-8	4.2	2.37					300	12												
1000	T6	Med 2-Pin (G9.5)	230	39738	CP77 FEP-Q1000T6/4CL	24	25000	3200	CC-8	4.1	2.37					300	12												
												PAR64	ExMogEndPr	240	10925			EXC-Q1MPAR64CP60	6	352000	3200	C-7A	6	20	17	12	9	300	13
															10929			EXD-Q1MPAR64CP61	6	297000	3200	C-7A	6	22	20	14	10	300	13
						6	138000	3200	C-7A	6	38	20	24	11	300	13													
2000	T10	R7S	230	35338	P2/27 FEX-Q2MT8/4CL	12	50000	3200	CC-8	5.62						300	2, 12												
12000	T26	GX38	230	48771	Q12MT26/4CL 230V	1	420000	3400	C-13	16.14	10					130	4, 12												
												240	48779	Q12MT264/CL 240V	1			420000	3400	C-13	16.14	10	130	4, 12					
20000	T32	GX38	208	48772	BCM Q20MT32/4CL	1	580000	3200	C-13	22.05	13.94					400	4, 12												
												220	48773	BCM Q20MT32/4CL	1			580000	3200	C-13	22.05	13.94	400	4, 12					
												240	48774	BCM Q20MT32/4CL	1			580000	3200	C-13	22.05	13.94	400	4, 12					
												24000	T32	GX38	220			48776	Q24MT32/4CL 220V	1	800000	3400	C-13	22.05	13.94			150	4, 12
240	48777	Q24MT32/4CL 240V	1	800000	3400	C-13	22.05	13.94	150	4, 12																			
CINEMA LAMPS																													
FLUORESCENT LAMPS																													
15	T8	Medium BiPin (G13)	15722	F15T8/CINEMA32	24	720	3200	18								8000													
					24	700	5500	18							8000														
17	T8	Medium BiPin (G13)	15724	F17T8/CINEMA32	24	800	3200	24								20000													
					24	770	5500	24						20000															
20	T12	Medium BiPin (G13)	15558	F20T12/CINEMA32	24	780	3200	24								10000													
					24	760	5500	24						10000															
30	T12	Medium BiPin (G13)	15714	F30T12/CINEMA32	24	1450	3200	36								18000													
					24	1400	5500	36						18000															
32	T8	Medium BiPin (G13)	47868	F32T8/CINEMA32	36	1800	3200	48								20000													
					36	1750	5500	48						20000															
35	T12	Medium BiPin (G13)	15712	F20T12/CINEMA32/HO	24	1130	3200	24								7500													
					24	1100	5500	24						7500															
40	T12	Medium BiPin (G13)	47857	F40T12/CINEMA32	30	2000	3200	48								20000													
					30	1950	5500	48						20000															
60	T12	Medium BiPin (G13)	15716	F40T12/CINEMA32/HO	30	2900	3200	48								15000													
					30	2820	5500	48						15000															
85	T12	Medium BiPin (G13)	15718	F72T12/CINEMA32/HO	15	4150	3200	72								15000													
					15	4050	5500	72						15000															
110	T12	Medium BiPin (G13)	15720	F96T12/CINEMA32/HO	15	5800	3200	96								15000													
					15	5650	5500	96						15000															
FLUORESCENT COVRGUARD® LAMPS																													
15	T8	Medium BiPin (G13)	15800	F15T8/CINEMA32/CVG	24	720	3200	18								8000													
					24	700	5500	18						8000															
17	T8	Medium BiPin (G13)	15806	F17T8/CINEMA32/CVG	24	800	3200	24								20000													
					24	770	5500	24						20000															
20	T12	Medium BiPin (G13)	15766	F20T12/CINEMA32/CVG	24	780	3200	24								10000													
					24	760	5500	24						10000															
30	T12	Medium BiPin (G13)	15779	F30T12/CINEMA32/CVG	24	1450	3200	36								18000													
					24	1400	5500	36						18000															
32	T8	Medium BiPin (G13)	47881	F32T8/CINEMA32/CVG	36	1800	3200	48								20000													
					36	1750	5500	48						20000															
35	T12	Medium BiPin (G13)	15775	F20T12/CINEMA32/HO/CVG	24	1130	3200	24								7500													
					24	1100	5500	24						7500															

Stage and Studio Lamps



Watts	Shape	Base	Order Volts	LIF Code	Description	Case Qty.	Lumens Initial	Color Temp. K	Filament Design	MOL	LCL	Beam Spread		Rated Life Hours	Footnotes
												10%	50%		
CINEMA LAMPS (CONTINUED)															
FLUORESCENT COVRGUARD® LAMPS (CONTINUED)															
40	T12	Medium BiPin (G13)	47876		F40T12/CINEMA32/CVG	30	2000	3200		48				20000	
			47877		F40T12/CINEMA55/CVG	30	1950	5500		48				20000	
60	T12	Medium BiPin (G13)	15782		F40T12/CINEMA32/HO/CVG	30	2900	3200		48				15000	
			15783		F40T12/CINEMA55/HO/CVG	30	2820	5500		48				15000	
85	T12	Medium BiPin (G13)	15785		F72T12/CINEMA32/HO/CVG	15	4150	3200		72				15000	
			15786		F72T12/CINEMA55/HO/CVG	15	4050	5500		72				15000	
110	T12	Medium BiPin (G13)	15794		F96T12/CINEMA32/HO/CVG	15	5800	3200		96				15000	
			15798		F96T12/CINEMA55/HO/CVG	15	5650	5500		96				15000	
FLUORESCENT BIAx®															
36	T5	2G11-4 Pin	15816		F36BX/CINEMA32	10	2900	3200		21.1				8000	
			15819		F36BX/CINEMA56	10	2900	5600		21.1				8000	
55	T5	2G11-4 Pin	15811		F55BX/CINEMA32	10	4100	3200		21.1				8000	
			15814		F55BX/CINEMA56	10	4100	5600		21.1				8000	
			22084		F55BX/CINPLUS/32	10	2400	3200		21.1				8000	
			22085		F55BX/CINPLUS/56	10	2400	5600		21.1				8000	
CSR METAL HALIDE LAMPS															
SINGLE-ENDED COLD START															
250	T7	GY9.5	90 10744		CSD250/2/SE	10	18000	8500						2000	6, 13
575	T9	GX9.5	97 49492		CSR575/2/T/SE	10	49000	7200	4.92	2.56				1000	6, 13
			15378		CSR575/2/SE	10	49000	7200	4.92	2.56				1000	6, 13
700	T9	G22	70 49491		CSR700/2/SE	10	55000	7200	6.1	2.95				1000	6, 13
1200	T12	G22/30X53	100 49490		CSR1200/2/SE	6	110000	7200	6.9	3.35				800	6, 13
SINGLE-ENDED SHORT ARC															
700	G7	GY9.5	70 15380		CSR700SA	6	55000	5600	3.3	1.5				750	6, 13
1200	G8	GY22	100 21849		CSR1200SA	6	96000	5600	5.3	2.3				1000	6, 9, 13
1800	G8	GY22	207 21801		CSR2000SA	6	155000	6000	5.3	2.3				750	6, 9, 13
SINGLE-ENDED HOT RESTRIKE															
125	T5	GZX9.5	80 48461		CSR125/SE/HR	10	9400	5600	2.95	1.53				200	6, 13
200	T5	GZY9.5	70 48462		CSR200/SE/HR	10	15000	5600	3.15	1.53				200	6, 13
400	T6	GZZ9.5	70 21853		CSR400/SE/HR	10	32000	6000	4.32	2.38				650	6, 9, 13
575	T10	G22	95 48463		CSR575/SE/HR	10	48000	6000	5.71	2.76				750	6, 13
1200	T13	G38	100 48464		CSR1200/SE/HR	6	110000	6000	7.87	4.21				750	6, 13
2500	T20	G38	100 48465		CSR2500/SE/HR	6	220000	6000	9.45	5				500	6, 13
4000	T24	G38	200 48466		CSR4000SE/HR	6	380000	6000	9.84	5.59				500	6, 13
6000	T27	G38	130 48467		CSR6000/SE/HR	6	540000	6000	14.17	8.27				300	6, 13
12000	T32	G38	160 48468		CSR12000/SE/HR		4110000	6000	17.72	10.04				250	6, 13
DOUBLE-ENDED HOT RESTRIKE															
200	T5	x515	80 48450		CSR200/DE	10	16000	6000	2.95					300	5, 6, 13
575	T7	SFc 10-4	95 48451		CSR575/DE	10	49000	6000	5.71					750	5, 6, 13
1200	T7	SFc 10-4	100 48452		CSR1200/S/DE	10	110000	6000	5.71					500	5, 6, 13
	T9	SFC10.5-6	100 48453		CSR1200/DE	6	110000	6000	8.66					750	5, 6, 13
2500	T10	SFa 21-12	115 48454		CSR2500/DE	6	240000	6000	14					500	5, 6, 13
4000	T12	SFa 21-12	200 48455		CSR4000/DE	6	410000	6000	15.94					500	5, 6, 13
6000	T16	25x51 Cyl 165mm	125 48456		CSR6000/DE	6	570000	6000	17.71					300	5, 6, 13
12000	T23	30x70 Cyl 165mm	160 48457		CSR12000/DE		4110000	6000	18.5					300	5, 6, 13
18000	T28	30x70 Cyl 165mm	225 48459		CSR18000/DE		41650000	6000	19.69					300	5, 6, 13
			48460		CSR18000/S/DE		41650000	6000	18.5					300	5, 6, 13



STAGE AND STUDIO ANSI CODES REFERENCE

ANSI Code	Order Code	Lamp Description	Volts
STAGE & STUDIO ANSI CODES			
BCM	48772	BCM-Q20MT32/4CL	208
BCM	48773	BCM-Q20MT32/4CL	220
BCM	48774	BCM-Q20MT32/4CL	240
BTL	11966	BTL-Q500T6/CL/P	120
BTM	16465	BTM-Q500T64CL/2P	120
BTN	11953	BTN-Q750T7/CL/2P	120
BTP	11954	BTP-Q750T7/4CL2P	120
BTR	11955	BTR-Q1000T74CL2P	120
BVT	12554	BVT-Q1MT7/CL/MP	120
BVV	12553	BVV-Q1MT7/4CL/MP	120
BVW	12555	BVW-Q2MT10/4CL/MP	120
BWA	39587	BWA-Q2000/4CL/BP	120
BWF	37086	BWF-Q2000/4CL	120
BWM	39680	BWM-Q750T7/4CLTP	120
BWN	39792	BWN-Q1000T7/4CL	120
CXZ	37564	CXZ-Q1500T10/4CL	120
CYV	42697	CYV-Q1000T7/4CLBP	120
CYX	36636	CYX-Q2000T10/4CL	120
DKX	40357	DKX/DSFQ1500PS52	120
DKZ	39582	DKZ/DSE-Q1000PS5	120
DPY	41736	DPY-Q5000T20/4CL	120
DSE	34377	DSE/Q1000	120
DTA	30522	DTA-Q1500T8/4CL	120
DTY	18305	DTY-Q10M/T24/4CL	120
DWE	41667	DWE-Q650PAR36/1	120

ANSI Code	Order Code	Lamp Description	Volts
STAGE & STUDIO ANSI CODES			
DXW	30157	DXW-Q1000T5/4CL	120
EGC	39134	EGC-Q500/5CL/P	120
EGE	39135	EGE-Q500CL/P	120
EGF	39136	EGF-Q750/4CL/P	120
EGG	39137	EGG-Q750CL/P	120
EGJ	38853	EGJ-Q1000/4CL/P	120
EGK	38852	EGK-Q1000/4/P	120
EGM	39138	EGM-Q1000CL/P	120
EGN	30373	EGN-Q500T8	120
EGR	39190	EGR-Q750T7/4CL	120
EGT	39191	EGT-Q1000T7/4CL	120
EHC	39789	EHC-Q500/5CL	120
EHD	39768	EHD-Q500CL/TP	120
EHF	39771	EHF-Q750/4CL	120
EHG	39770	EHG-Q750CL/TP	120
EJD	23788	EJD-Q1000T3/3CL	185
EJG	20883	EJG/HIR-Q525T2 -1	120
EJG	23756	EJG-Q750T3/4CL	120
EKB	33934	EKB-Q420/4CL/2PP	120
EKD	34328	EKD-Q650/3CL/2PP	120
EMD	23755	EMD-Q750T3/4	120
EVR	47950	EVR-Q500CL/MC	120
EXC	93409	EXC-Q1MPAR64CP60	230
EXC	10925	EXC-Q1MPAR64CP60	240
EXD	10928	EXD-Q1MPAR64CP61	230

ANSI Code	Order Code	Lamp Description	Volts
STAGE & STUDIO ANSI CODES			
EXD	10929	EXD-Q1MPAR64CP61	240
EXE	10930	EXE-Q1MPAR64CP62	230
EXE	10931	EXE-Q1MPAR64CP62	240
FAD	30325	FAD-Q650T4/4CL	120
FAY	41668	FAY-Q650PAR36/3D	120
FBE	41669	FBE-Q650PAR36/5D	120
FBO	41671	FBO-Q650PAR36/5	120
FBX	30343	FBX-Q650T4/4	120
FBY	30374	FBY-Q1000T5/4	120
FCM	13895	FCM/HIR-Q650T3/4	120
FCM	23797	FCM-Q1000T3/4CL	120
FCV	35853	FCV-Q1000/4	120
FCW	41672	FCW-Q650PAR36/6	120
FCX	41673	FCX-Q650PAR36/7	120
FDB	23841	FDB-Q1500T4/4CL	120
fdf	20881	fdf/HIR-Q350T2/4	120
fdf	23735	fdf-Q500T3/4CL	120
FDN	23734	FDN-Q500T3/4	120
FEL	39769	FEL-Q1000/4CL	120
FEP	39738	FEP-Q1000T6/4CL	230
FER	33760	FER-Q1000T6/4CL	120
FEV	14119	FEV-Q200/4CL/DC	120
FEX	35338	FEX-Q2MT8/4CL	230
FEY	39790	FEY-Q2000T8/4CL	120
FFN	13233	FFN-Q1000PAR64/1	120

ANSI Code	Order Code	Lamp Description	Volts
STAGE & STUDIO ANSI CODES			
FFP	13229	FFP-Q1000PAR64/2	120
FFR	13228	FFR-Q1000PAR64/5	120
FFS	13227	FFS-Q1000PAR64/6	120
FFT	20884	FFT/HIR-Q675T3/4	120
FFT	33280	FFT-Q1000T3/1CL	120
FGM	13226	FGM-Q1000PAR64/3	120
FGN	13225	FGN-Q1000PAR64/7D	120
FGT	41229	FGT-Q1500T4/4	120
FHM	23792	FHM-Q1000T3/4	120
FKW	39781	FKW-Q300T8	120
FLK	39730	FLK/LL-Q575T6	115
FLK	11450	FLK-Q575T6/4CL	115
FMR	30475	FMR-Q600T5	120
FRG	39623	FRG-Q500T8	120
FRK	39637	FRK-Q650T8	120
GFA	34812	GFA-Q1200PAR64/5	120
GFB	34810	GFB-Q1200PAR64/2	120
GFC	34808	GFC-Q1200PAR64/1	120
GKV	39739	GKV-Q575T6/4CL	230
GLA	93428	GLA-Q575T6/4CL	115
GLC	93429	GLC-Q575T6/5CL	115
GLD	92771	GLD-Q750T6/4CL	120
GLE	92773	GLE-Q750T6/4CL	120

ANSI Code	Order Code	Lamp Description	Volts
GENERAL LIGHTING ANSI CODES (SEE SECTION - HALOGEN)			
DVS	23733	Q500T3/CL-DVS	130
EHM	43703	Q300T3/CL-EHM	120
EHP	43705	Q300T4/CL-EHP	120
EHR	43708	Q400T4/CL-EHR	120
EHT	43699	Q250CL/MC-EHT	120
EHZ	43704	Q300T3-EHZ	120
ESL	44383	Q150CL/MC/2V-ESL	120
ESM	43695	Q250MC-ESM	120
ESN	44385	Q100CL/MC/2V-ESN	120
ESP	44384	Q150CL/DC/2V-ESP	120
ESR	44386	Q100CL/DC/2V-ESR	120
ESS	43697	Q250CL/DC-ESS	120
ETB	43701	Q250DC-ETB	120
ETC	43693	Q150CL/DC-ETC	120
ETD	44657	Q100DC/2V-ETD	120
ETE	44656	Q100MC/2V-ETE	120
ETF	44653	Q150DC-ETF	120
ETG	43694	Q150CL/MC-ETG	120
ETH	44654	Q150MC-ETH	120
FCL	23731	Q500T3/CL-FCL	120



FOOTNOTES

Footnote

- 1 Filament with low noise construction.
- 2 Burn position horizontal ± 4 degrees.
- 3 Burn position base down to horizontal.
- 4 Burning position vertical base down ± 45 degrees.
- 5 Burning position horizontal ± 15 degrees.
- 6 Enclosed fixture only per UL standard 1572. In accordance to Federal Regulations (21CFR 1040.30) the following notice applies.
WARNING: This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if the outer envelope of the lamp is broken or punctured, and the arc tube continues to operate. Do not use where people will remain more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamp that will automatically extinguish when the outer envelope is broken or punctured are commercially available.
- 7 Frosted. Apparent lighted length slightly longer than similar clear lamp.
- 8 Life dependent on service conditions; for use only in equipment specially designed to maintain bulb and base temperatures within safe limits.
- 9 Available late 2003.
- 10 To avoid possible overheating, this lamp is not recommended for use without force-cooling in deep-bowled fixtures.
- 11 Burn vertical base down ± 30 degrees.

12

Safety Notice for exposed unshielded lamps (if shielded fixture use footnote 13)

▲ WARNING

Risk of electrical shock

- Turn power off before inspection, installation or removal

Risk of fire

- Keep combustible materials away from lamp
- Use in enclosed fixture rated for this product

Pressurized lamp-unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not touch glass with bare hands
- Use in enclosed fixtures rated for this product
- Do not use lamp if outer glass is scratched or broken
- Operate lamp only in specified position
- Do not exceed 110% of rated voltage

▲ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling
- Turn power off before installing lamp

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Wear safety glasses and gloves when handling lamp

Lamp emits UV radiation which may cause eye/skin irritation. RG-2.

- Limit unshielded exposure to less than 15 minutes per day

13

Safety Notice for PAR lamps and enclosed, shielded lamps

▲ WARNING

Risk of electrical shock

- Turn power off before inspection, installation or removal

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass is broken. Remove and dispose of lamp

Pressurized lamp-unexpected rupture may cause injury, fire, or property damage

- Use in enclosed fixtures rated for this product
- Do not use lamp if outer glass is scratched or broken
- Do not exceed 110% of rated voltage
- Avoid direct water/liquid contact

▲ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling
- Turn power off before installing lamp

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container

