

Stage and Studio Lamps

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Incandescent

Halogen

High Intensity
Discharge

Fluorescent

Compact
Fluorescent

Ballast

LED Lamps
and Systems

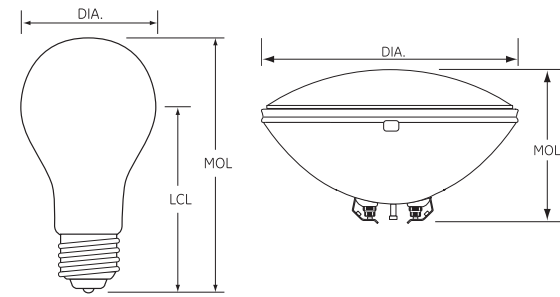
Stage and Studio

Miniature and
Sealed Beam

Projection

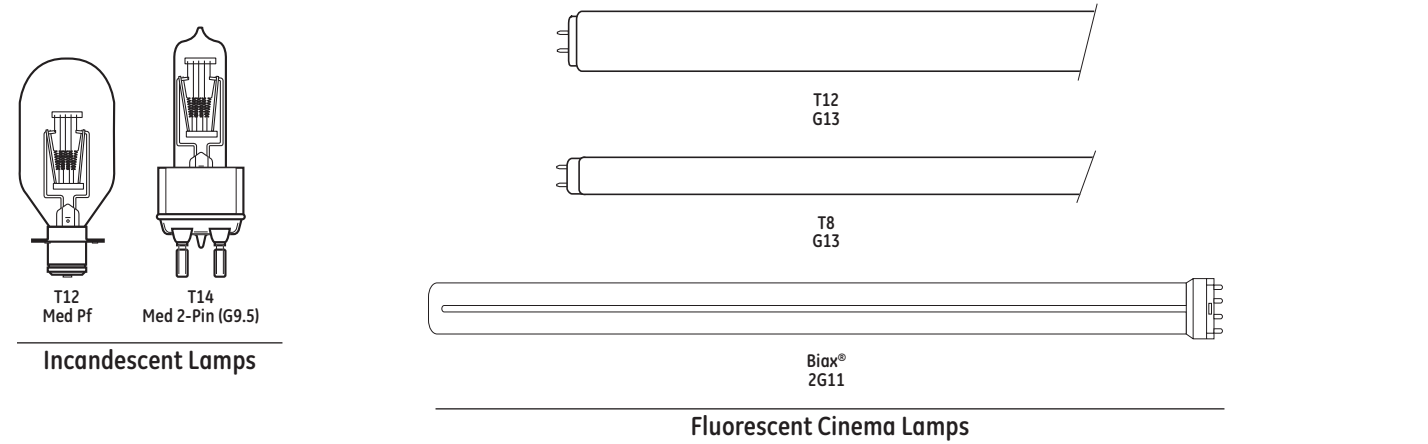
Stage and Studio Lamps

Bulb Identification

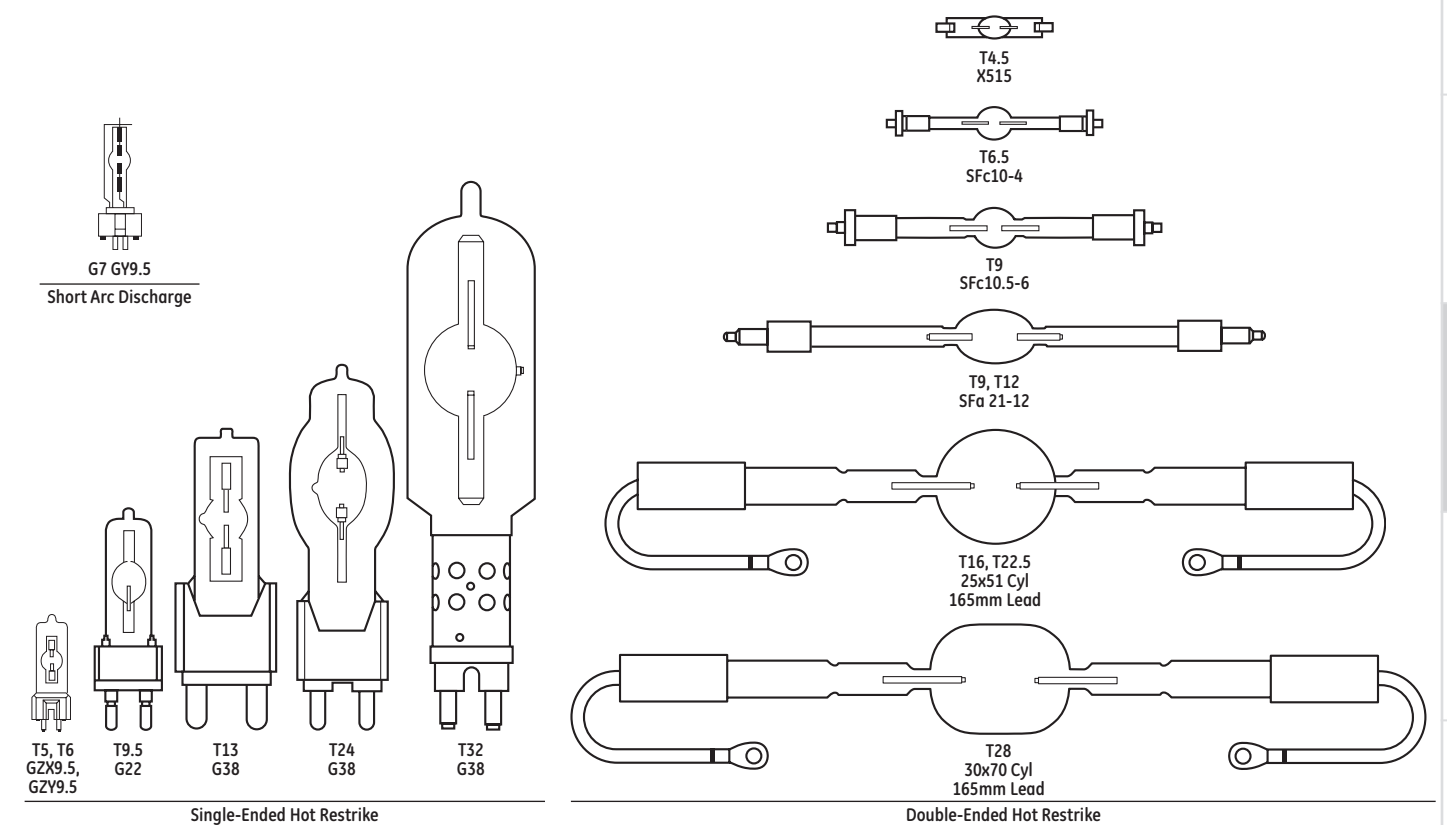
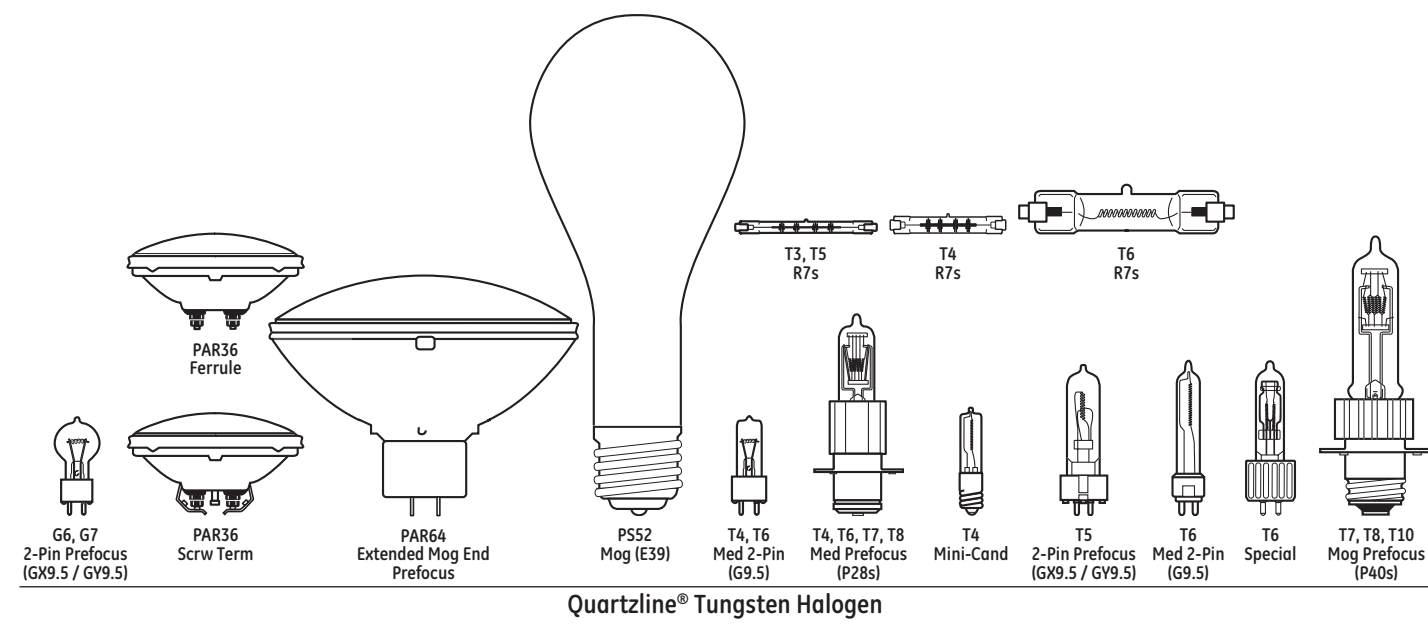
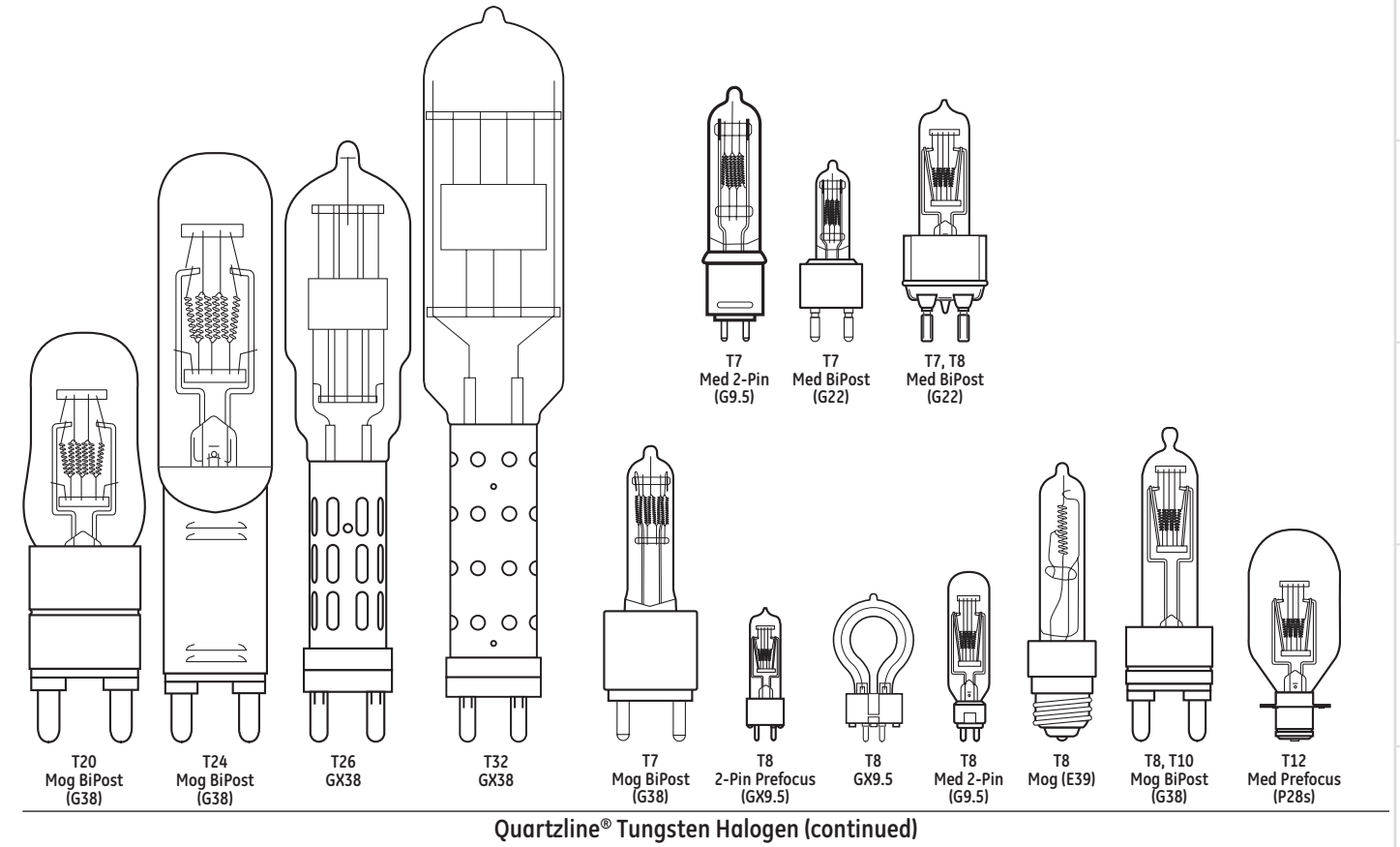


DIA: Diameter of bulb at widest point.
 MOL: Maximum Overall Length including base or pins.
 LCL: Distance between the center of the arc tube and the Light Center Length reference plane.
 Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.
 To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

Lamp Locator



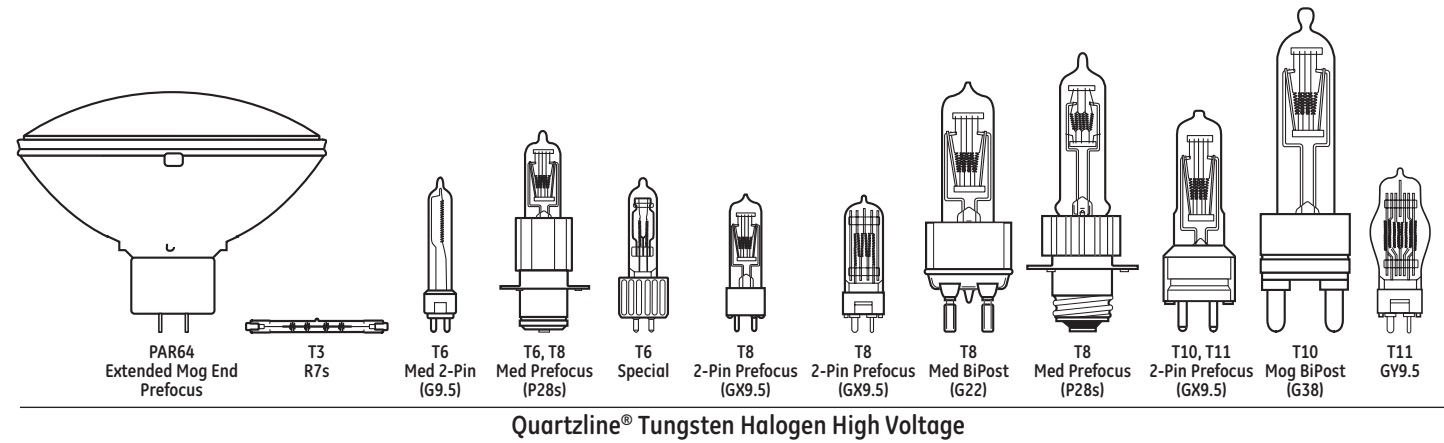
Lamp Locator (continued)



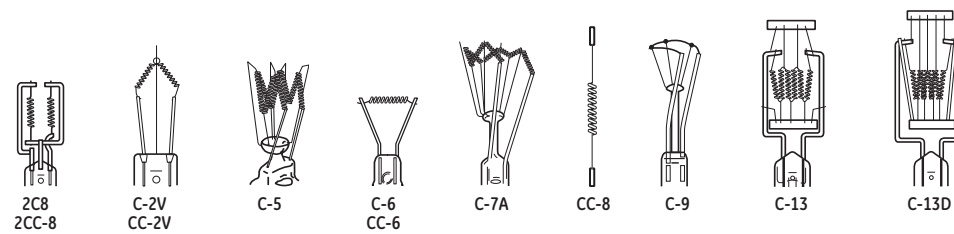
Incandescent
Halogen
High Intensity Discharge
Fluorescent
Compact Fluorescent
Ballast
LED Lamps and Systems
Stage and Studio
Miniature and Sealed Beam
Projection

Stage and Studio Lamps

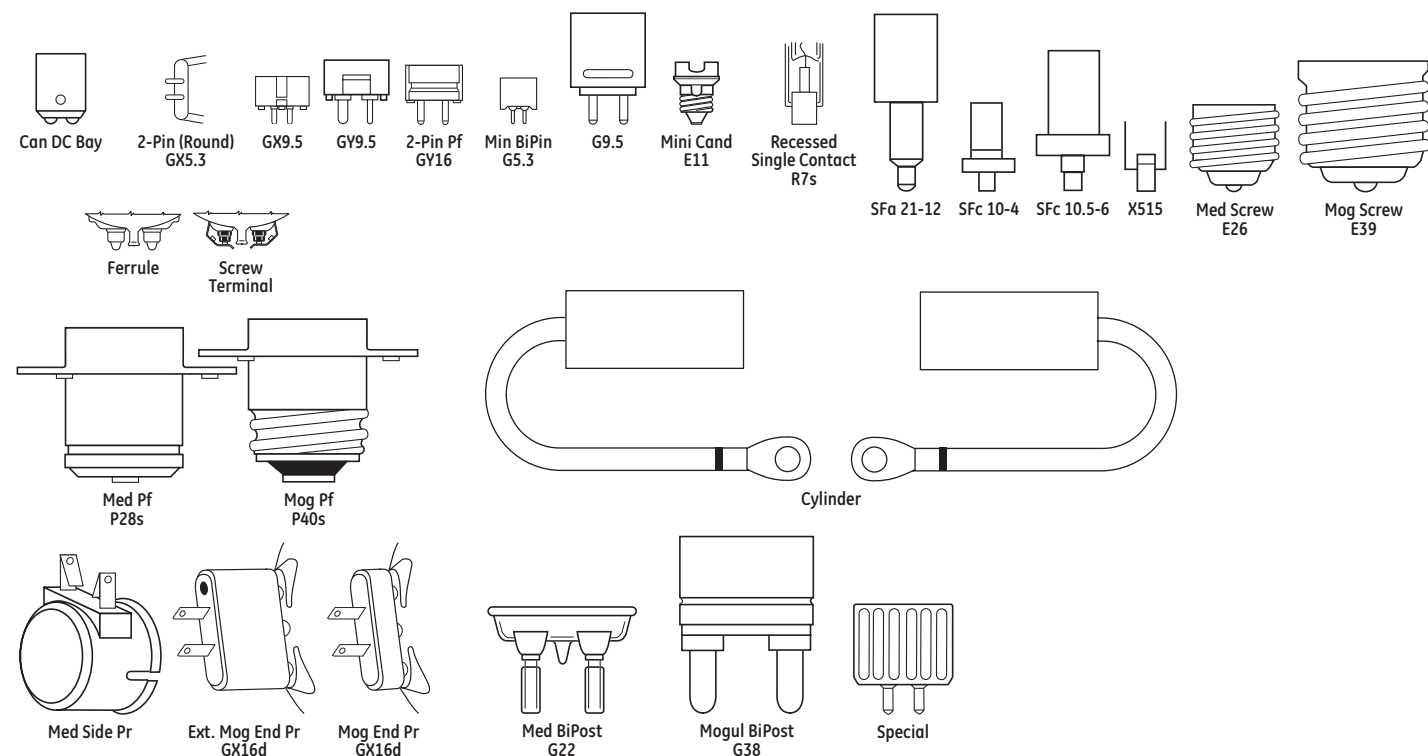
Lamp Locator (continued)



Filament Identification



Base Identification



For the most up-to-date product information, see www.gelighting.com.

Introduction

GE 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'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.

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.

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.

Chromised 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.



If the package does not have this seal, lamp base temperatures for Quartzline® lamps should not exceed 350°C because, above that point, lead wires in the sealing area will deteriorate, and base cement can loosen, both causing premature lamp failure. Note overvoltage of a lamp will increase the seal heat.

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 EJJ, 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 Ra >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 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.

For the most up-to-date product information, see www.gelighting.com.

Stage and Studio Lamps

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®" 2008, PC 72475 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:
Energy used. To find actual energy used (kWh) multiply power (watts shown) x time divided by 1000.

LIF Code:
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.

Approximate MBTCP (Maximum Beam Candlepower):
For reflector type lamps. Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam.

Filament Type:
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.

MOL (in):
Maximum Overall Length in inches.

Light Center Length (LCL):
This dimension defines the location of the filament in relation to the base. It is measured from the geometric center of the filament to a specified point on, or plane through, the base. Light Center Length is subject to manufacturing tolerances. Reference points/planes from which LCL is measured are tabulated on page 8-4 for the various styles of lamp bases.

Beam Spread:
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.

Rated Life - Hours:
Lamp burning hours to rated life expectancy.

Footnotes and Safety Notices:
See pg 8-12 for information.

Bulb Shape:
Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch).

Base:
The type of base (ANSI).

Volts:
Lamp data is based on operation at rated voltage.

Description:
The lamp's identification code.

ANSI Codes:
These are 3-letter codes assigned by the American National Standards Institute. They provide a system of assuring mechanical and electrical interchangeability among similarly coded lamps from various manufacturers. General Electric uses the assigned ANSI Codes as Lamp Ordering Codes for most Projection Lamps.

Color Rendering Index (CRI):
An indication of the ability of the lamp to render object colors in a normal, natural way. The higher the number (0-100), the better the color appearance.

Pack/Case Quantity:
Number of product units packed in a pack or case.

Initial Lumens:
Initial light output.

Watts	Bulb Shape	Base	Volts	Order Code	LIF Code	Description	ANSI Codes	Pack Qty	Initial Lumens	MBTCP	Design Color Temp K	CRI	CIE x	Color y	Arc Length (mm)	Filament Type	MOL (in)	LCL (in)	Beam Spread 50%		Rated Life (hrs)	Burning Position	Footnotes and Safety Notices
																			H	V			

Quartzline® Tungsten Halogen																							
500	T6	Med Pf (P28s)	120	11966	T17	BTL-Q500 T6/CL/P		6	5500		3200						CC-2V	2.43	1.37		50		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 page 8-2.
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 8-4.
4. Find your lamp in the table containing the bulb shape, size and base.

Watts	Bulb Shape	Base	Volts	Order Code	LIF Code	Description	ANSI Code	Pack Qty	Initial Lumens	Design Color Temp K	Rated Life (hrs)	Filament Type	MOL (in)	Burning Position	Footnotes and Safety Notices
Halogen Double-Ended															
300	T-4	R7s	120	43705		Q300T4/CL	EHP	6	5650	2900	2000	CC-8	3.13	Any	62
	T-3			43703		Q300T3/CL	EHM	6	5950	2950	2000	C-8	4.69	H4	62
350	T-2	R7s	120	43704		Q300T3	EHZ	6	5900	2950	2000	C-8	4.69	H4	62,15
	T-3			20881		FDH/HIR-Q350T2/4CL		6	13250	3200	400	C-8	4.69	H4	62
375	T-4			13894		Q350T3/HIR		6	10000	3000	2000	C-8	4.69	H4	62
420	T-4	R7s	120	29578	A1/266	DWZ130V	DWZ	24	7500	3000	1000	CC-8	3.13	Any	62
	T-3			30276		FFM	FFM	24	11000	3200	75	CC-8	3.13	Any	62
500	T-3	R7s	120	23731		Q500T3/CL	FCL	12	11100	3000	2000	C-8	4.69	H4	62
	T-3			23744		Q500T3/CL/6		12	10950	2950	1500	C-8	4.69	H4	62
600	T-4	R7s	120	23735	P2/30	FDH-Q500T3/4CL	FDH	12	13250	3200	400	C-8	4.69	H4	62
	T-4			23734	P2/31	FDN-Q500T3/4	FDN	12	12800	3200	400	C-8	4.69	H4	62,15
650	T-4	R7s	120	23733		Q500T3/CL	DVS	12	10550	3000	2000	C-8	4.69	H4	62
	T-3			29598	A1/228	FCB	FCB	24	17000	3250	75	CC-8	3.75	Any	62,4
675	T-3	R7s	120	30325	P2/6	FAD-Q650T4/4CL	FAD	24	16500	3200	100	CC-8	3.13	Any	62
	T-3			30343	P2/6	FBX-Q650T4/4	FBX	24	16500	3200	100	CC-8	3.13	Any	62,15
750	T-3	R7s	120	13895	-	FCM/HIR-Q650T3/4	FCM	6	25200	3275	400	C-8	4.69	H4	62,52
	T-3			20884	-	FFT/HIR-Q675T3/4	-	6	26400	3250	400	C-8	6.56	H4	62,52
800	T-4	R7s	120	23756	-	EJG-Q750T3/4CL	EJG	12	20600	3200	400	C-8	4.69	H4	62
	T-4			23755	-	EMD-Q750T3/4	EMD	12	19500	3200	400	C-8	4.69	H4	62,15
1000	T-5	R7s	120	230	P2/13	DXX	DXX	24	21400	3200	75	CC-8	3.13	Any	62
	T-6			240	P2/13	DXX	DXX	24	21400	3200	75	CC-8	3.13	Any	62
1500	T-4	R7s	120	30157		DXW-Q1000T5/4CL	DXW	24	28000	3200	150	CC-8	3.75	Any	62,27
	T-3			30374		FBY-Q1000T5/4	FBY	24	26000	3200	150	CC-8	3.75	Any	62,15
2000	T-10	R7s	120	29604		BRH	BRH	24	30000	3350	75	CC-8	3.75	Any	62
	T-10			23800		DWT-Q1000T6/CL	DWT	6	23400	3000	2000	CC-8	5.63	Any	62
2000	T-10	R7s	120	33760		FER-Q1000T6/4CL	FER	6	27500	3200	500	CC-8	5.63	Any	62
	T-10			23797	P2/28	FCM-Q1000T3/4CL	FCM	12	28000	3200	400	C-8	4.69	H4	62
2000	T-10	R7s	120	23792	P2/29	FHM-Q1000T3/4	FHM	12	27300	3200	400	C-8	4.69	H4	62,15,31
	T-10			33280	-	FFT-Q1000T3/1CL	FFT	12	26400	3200	400	C-8	6.56	H4	62
2000	T-10	R7s	120	23788	-	EJD-Q1000T3/3CL (185V)	EJD	12	33600	3350	100	C-8	4.69	H4	62,52
	T-10			23841	-	FDB-Q1500T4/4CL	FDB	12	41250	3200	400	C-8	6.56	H4	62
2000	T-10	R7s	120	41229	-	FGT-Q1500T4/4	FGT	12	40200	3200	400	C-8	6.56	H4	62,15
	T-10			88629	P2/27	FEY-Q2000T8/4CL	FEY	12	57000	3200	400	CC-8	5.63	H4	62
Halogen Single-Ended															
30	T-3.5	G5.3	10.8	37346		DZA	DZA	24	530	3100	400	C-6	2.00	BDTHCH	62
105	T-4	G5.3	120	19678		FVM	FVM	24	2200	3200	250	CC-8	2.36	Any	62
	T-4	BA15d		14119		FEV-Q200/4CL/DC	FEV	6	5500	3200	50	CC-2V	2.44	Any	62
200	T-4	G5.3	33	19679		FVL	FVL	24	5200	3200	200	CC-8	2.36	Any	62
	T-4	G29.5		11548		Q235T4/3		12	6000	3125	150	CC-6	2.50	BDTHCH	62
235	T-4	G5.3	120	13617		EYH/FKT	EYH	24	6000	3000	200	CC-6	2.50	BDTHCH	62
250	G-6	G5.3	120	39781	CP81	FKW-Q300T8	FKW	24	6900	3200	50	C-13	3.54	BOTH	62
375	T-6	G9.5/Heat Sink	115	88540		HPL375/C 115V		12	10540	3250	300	4-C8	4.17	Any	62
	T-6	G9.5/Heat Sink		88539		HPL375/LL/C 115V		12	8000	3050	1000	4-C8	4.17	Any	62
420	G-7	GY9.5	120	33934		EKB-Q420/4CL/2PP	EKB	24	11000	3200	75	CC-6	2.50	ANYCH	62
	G-6	G5.3		33663		FBG/FBD	FBG	24	13200	3200	50	CC-6	3.00	ANYCH	62
500	T-6	G9.5	120	88624		EHD-Q500CL/TP	EHD	24	10,000	2900	2000	CC-8	4.13	Any	62
	T-8	GY9.5		88628		EHC-Q500/SCL	EHC	24	12,700	3150	500	CC-8	4.13	Any	62
500	T-8	G22	120	88467	CP82	FRG-Q500T8	FRG	24	13000	3200	150	C-13	3.54	BOTH	62
	T-6	P28s		88509		EGN-Q500T8	EGN	12	13000	3200	150	C-13	5.51	BOTH	62
500	T-6	P28s	120	88547	T17	BTL-Q500T6/CL/P	BTL	12	11000	3000	500	C-13	5.25	BOTH	62
	T-4	P28s		88546	-	BTM-Q500T6/4CL/2P	BTM	12	13000	3200	150	C-13	5.12	BOTH	62
550	T-6	G9.5/Heat Sink	77	88617	-	EGE-Q500CL/P	EGE	12	10450	2950	2000	CC-8	6.00	Any	62
	T-6	G9.5/Heat Sink		39134	-	EGC-Q500/5CL/P	EGC	12	12700	3150	500	CC-8	6.00	Any	62
575	T-6	G9.5	115	88534		HPL550/C 77V		12	16170	3250	300	4-C8	4.17	Any	62
	T-6	G9.5/Heat Sink		88452		FLK/LL-Q575T6		24	12800	3100	1500	CC-8	4.13	Any	62
575	T-6	G9.5/Heat Sink	120	88424		GLA-Q575T6/4CL	GLA	24	13000	3050	1500	C-13D	4.13	Any	62
	T-6	G9.5/Heat Sink		88423		GLC-Q575T6/5CL	GLC	24	14500	3200	300	C-13D	4.13	Any	62
575	T-6	G9.5/Heat Sink	230	88438		HPL575/C 115V		12	16500	3200	300	4-C8	4.17	Any	62
	T-6	G9.5/Heat Sink		88435		HPL575/LL/C 115V		12	12360	3050	2000	4-C8	4.17	Any	62
575	T-6	G9.5/Heat Sink	230	88436		HPL575/C 120V		12	16520	3200	300	4-C8	4.17	Any	62
	T-6	G9.5/Heat Sink		88434		HPL575/LL/C 120V		12	12360	3050	2000	4-C8	4.17	Any	62
575	T-6	G9.5/Heat Sink	230	88478		HPL575		12	14900	3200	300	6-C8	4.17	Any	62
	T-6	G9.5/Heat Sink		88476		HPL575-X LL		12	11780	3050	1500	6-C8	4.17	Any	62

Stage and Studio Lamps

Watts	Bulb Shape	Base	Volts	Order Code	LIF Code	Description	ANSI Code	Pack Qty	Initial Lumens	Design Color Temp K	Rated Life (hrs)	Filament Type	MOL (in)	Burning Position	Footnotes and Safety Notices	
Halogen Single-Ended (continued)																
600	G-7	G5.3	120	30364		DYH	DYH	24	17000	3200	75	CC-6	2.50	ANVCH	62	
	T-5	GY9.5		88504		FMR-Q600T5	FMR	24	12600	3050	2000	CC-8	3.35	BDTHCH	62	
	G-7	G29.5		32955	A1/264	DYS/DYV/BHC	DYS	24	17000	3200	75	CC-6	2.50	BDTHCH	62	
650	G-6	G5.3	240	30304		DVY	DVY	24	20000	3300	25	CC-6	2.50	BDTHCH	62	
		GX9.5		34328		EKD-Q650/3CL/2PP	EKD	24	20000	3300	25	CC-6	2.50	BDTHCH	62	
	T-8	GY9.5		88462	CP89	FRK-Q650T8	FRK	24	16900	3200	200	C-13	3.54	BDTH	62	
	G-7	G29.5		26895	A1/233	DYR	DYR	24	16500	3200	50	2CC-8	2.50	Any	62	
750	T-6	G9.5	115	88427		GLD-Q750T6/4CL	GLD	24	19000	3200	300	C-13D	4.13	Any	62	
				88426		GLE-Q750T6/4CL	GLE	24	17400	3050	1500	C-13D	4.13	Any	62	
				88437		HPL750/C 115V		12	22000	3200	300	4-C8	4.17	Any	62.7	
		G9.5/Heat Sink	G9.5	120	88428		HPL750/LL/C		12	16400	3050	2000	4-C8	4.17	Any	62.7
	88626					EHG-Q750CL/TP	EHG	24	15000	3000	2000	CC-8	4.13	Any	62	
	88627					EHF-Q750/4CL	EHF	24	20000	3200	300	CC-8	4.13	Any	62	
		T-7	G9.5	120	39680		BWM-Q750T7/4CL/TP	BWM	6	21000	3200	200	C-13D	4.50	BDTH	62.1
	88621					EGR-Q750T7/4CL	EGR	12	21000	3200	200	C-13D	5.00	BDTH	62.1	
	88605				-	BTN-Q750T7/CL/2P	BTN	12	17600	3050	500	C-13D	4.75	BD30	62.1	
		T-6	P28s	230	88606		BTP-Q750T7/4CL/2P	BTP	12	21000	3200	200	C-13D	4.75	BD30	62.1
	88619				-	EGG-Q750CL/P	EGG	12	15750	3000	2000	CC-8	6.00	Any	62	
	88618				-	EGF-Q750/4CL/P	EGF	12	20400	3200	300	CC-8	6.00	Any	62	
			G9.5/Heat Sink		88474		HPL750		12	19750	3200	300	6-C8	4.17	Any	62.7
	1000	T-6	G9.5	120	88625	CP77	FEL-Q1000/4CL	FEL	24	27500	3200	300	CC-8	4.13	Any	62
					39792		BWN-Q1000T7/4CL/TP	BWN	24	28500	3200	250	C-13D	4.50	BDTH	62.1
88622						EGT-Q1000T7/4CL	EGT	12	28500	3200	250	C-13D	5.00	BDTH	62.1	
		PS-52	E39	120	88630		CYV-Q1000T7/4CL/BP	CYV	6	28500	3200	200	C-13D	8.00	BDTH	62.1
39582					-	DKZ/DSE-Q1000PS52/4	DKZ	12	28000	3200	750	CC-8	13.00	Any	1,62,51	
19926						DSE/Q1000	DSE	10	28000	3200	750	CC-8	13.00	Any	1,62	
		T-7	P28s	120	88607	-	BTR-Q1000T7/4CL/2P	BTR	12	28500	3200	250	C-13D	4.75	BD30	62.1
29947					A1/58	DRS	DRS	24	28500	3325	25	C-13D	5.75	BD30		
29968					-	DRB	DRB	24	32000	3350	25	C-13	5.75	BD30		
		T-6	P28s	120	88615	-	EGJ-Q1000/4CL/P	EGJ	12	27500	3200	300	CC-8	6.00	Any	62
88614					-	EGK-Q1000/4/P	EGK	12	26500	3200	300	CC-8	6.00	Any	62	
88620					-	EGM-Q1000CL/P	EGM	12	21500	3000	2000	CC-8	6.00	Any	62	
		T-7	P40s	120	88608	-	BVT-Q1000T7/CL/MP	BVT	6	24500	3050	500	C-13D	7.25	BDTH	62.1
88631					-	BVV-Q1000T7/4CL/MP	BVV	6	28500	3200	200	C-13D	7.25	BDTH	62.1	
39738					CP77	FEP-Q1MT6/4CL	FEP	24	25000	3200	300	CC-8	4.13	Any	62	
1200	T-8	G22	80	88439		OC1200		12	37500	3300	300	C-13D	5.51	BDTH	62	
1500	T-10	G38	120	88612		CXZ-Q1500T10/4CL	CXZ	6	44500	3200	400	C-13	8.50	BDTH	62.1	
				40357	-	DKX/DSF-Q1500PS52/4	DKX	12	41000	3200	1000	C-8	13.00	Any	1,62,51	
				19927		DSF/Q1500	DSF	10	41000	3200	1000	C-8	13.00	Any	1,62	
	T-8	P40s	120	88500	-	DTA-Q1500T8/4CL	DTA	6	41000	3200	300	C-13D	7.87	BDTH	62	
88610					CYX-Q2000T10/4CL	CYX	6	59000	3200	350	C-13	8.50	BDTH	62.1		
88623					BWA-Q2000/4CL/BP	BWA	6	54000	3200	500	CC-8	8.25	BDTH	62,1,55		
	T-10	P40s	120	88611	-	BWF-Q2000/4CL	BWF	6	54000	3200	500	CC-8	7.50	Any	62	
88609				CP53	BVW-Q2000T10/4CL/MP	BVW	6	59000	3200	350	C-13	8.46	BDTH	62		
31844				CP41	FKK	FKK	12	54000	3200	400	C-13	8.50	BDTH	62		
5000	T-20	G38	120	41736	CP29	DPY-Q5000T20/4CL	DPY	6	143000	3200	500	C-13	11.00	BD45	62.1	
				22959		HX5000		6	147000	3200	250	C-8	11.02	Any	62	
				71379		HX5000/240		6	133000	3200	250	C-8	10.62	Any	62	
10000	T-24	G38	120	24886	-	DTY-Q10M/T24/4CL	DTY	4	290000	3200	300	C-13	15.75	BD45	62.1	
12000	T-26	GX38	120	48770		Q12MT26/4CL		1	420000	3400	150	C-13	16.13	BD45	62	
				48771		Q12MT26/4CL		1	420000	3400	130	C-13	16.13	BD45	62	
				48779		Q12MT26/4CL		1	420000	3400	130	C-13	16.13	BD45	62	
20000	T-32	GX38	120	208	48772	BCM-Q20MT32/4CL	BCM	1	580000	3200	400	C-13	22.05	BD45	62	
				230	48773	BCM-Q20MT32/4CL	BCM	1	580000	3200	400	C-13	22.05	BD45	62	
				240	48774	BCM-Q20MT32/4CL	BCM	1	580000	3200	400	C-13	22.05	BD45	62	
24000	T-32	GX38	120	230	48776	Q24MT32/4CL		1	800000	3400	150	C-13	22.05	BD45	62	
				240	48777	Q24MT32/4CL		1	800000	3400	150	C-13	22.05	BD45	62	

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Watts	Bulb Shape	Base	Volts	Description	ANSI Code	LIF Code	Order Code	Pack Qty	MBCP	Design Color Temp K	Beam Spread 50%		MOL (in)	Rated Life (hrs)	Footnotes and Safety Notices
											H	V			
Halogen Sealed Beam															
500	PAR56	Mog End Pr	120	Q500PAR56NSP			43494	6	96000	2950	13	8	5	4000	63
				Q500PAR56MFL			43495	6	43000	2950	26	10	5	4000	63
				Q500PAR56WFL			43496	6	19000	2950	44	20	5	4000	63
				500PAR64/NSP			39406	12	110000	2800	12	7	6	2000	64
				500PAR64/MFL			39409	12	37000	2800	23	11	6	2000	64
				500PAR64/WFL			39412	12	13000	2800	42	20	6	2000	64
	PAR64	ExMogEndPr	120	Q500PAR64/NSP			25492	6	240000	3200	10	7	6	300	63
				Q500PAR64/MFL		CP86	25504	6	140000	3200	11	9	6	300	63
				Q500PAR64/WFL		CP87	25513	6	65000	3200	21	10	6	300	63
				500PAR64/MFL			39411	12	2700	2700	21	10	6	2000	64
				500PAR64/WFL			39414	12	2700	2700	42	20	6	2000	64
				Q500PAR64/VNSP		CP86	25493	6	240000	3200	10	7	6	300	63
650	PAR36	Ferrule	120	FAY-Q650PAR36/3D	FAY		41668	12	36000	5000	25	15	2.75	30	63
				FCW-Q650PAR36/6	FCW		41672	12	9000	3200	60	55	2.75	100	63
				FCX-Q650PAR36/7	FCX		41673	12	24000	3200	40	30	2.75	100	63
				DWE-Q650PAR36/1	DWE		41667	12	24000	3200	40	30	2.75	100	63
				FBE-Q650PAR36/5D	FBE		41669	12	36000	5000	25	15	2.75	30	63
				FBO-Q650PAR36/5	FBO		41671	12	67000	3400	25	15	2.75	30	63
1000	PAR64	ExMogEndPr	120	FFN-Q1000PAR64/1	FFN		13233	6	400000	3200	12	6	6	800	63
				FFP-Q1000PAR64/2	FFP		13229	6	330000	3200	14	7	6	800	63
				FFR-Q1000PAR64/5	FFR		13228	6	125000	3200	28	12	6	800	63
				FFS-Q1000PAR64/6	FFS		13227	6	40000	3200	48	24	6	800	63
				FGM-Q1000PAR64/3	FGM		13226	6	200000	5200	13	6	6	200	63
				FGN-Q1000PAR64/7D	FGN		13225	6	70000	5200	27	11	6	200	63
				Q1000PAR64/NSP			43497	6	200000	3000	15	8	6	4000	63
				Q1000PAR64/MFL			43498	6	80000	3000	28	12	6	4000	63
				Q1000PAR64/WFL			43499	6	33000	3000	48	24	6	4000	63
				EXC-Q1MPAR64CP60	EXC	CP60	88551	6	352000	3200	12	9	6	300	63
				EXD-Q1MPAR64CP61	EXD	CP61	88550	6	297000	3200	14	10	6	300	63
				EXE-Q1MPAR64CP62	EXE	CP62	88536	6	138000	3200	24	11	6	300	63
1200	PAR64	ExMogEndPr	120	GFB-Q1200PAR64/2	GFB		884								

Stage and Studio Lamps

Watts	Bulb Shape	Base	Volts	Description	Order Code	Pack Qty	Volts	Initial Lumens	Design Color Temp K	CRI	CIE x	Color y	Arc Length (mm)	Rated Life (hrs)	LCL (in)	MOL (in)	Burning Position	Footnotes and Safety Notices
CSR Metal Halide Lamps (continued)																		
Discharge-CSR (Daylight) Metal Halide, Double-Ended Hot Restrike																		
200	T4.5	X515	80	CSR200/DE	48450	10	80	16000	6000	90+	0.323	0.325	8	300		2.95	H15	14.63
400	T6.5	Sfc 10-4 SI/M4	49	CSR400/S/DE/70	22478	10	49	26000	7000	65+	0.305	0.323	3	750		5.43	Any	14.63
			49	CSR400/S/DE/90	45232	10	49	26000	9000	65+	0.305	0.323	3	750		5.43	Any	14.63
575	T6.5		95	CSR575/S/DE/70	70979	10	95	40000	7000	75+	0.307	0.309	7	750		5.43	Any	14.63
			100	CSR575/SS/DE/75	45231	10	100	44000	7500	70+	0.297	0.312	5	500		3.62	Any	14.63
700	T6.5		70	CSR700/S/DE/60	22493	10	70	59000	6000	75+	0.322	0.332	4	750		5.43	Any	14.63
			70	CSR700/S/DE/75	41357	10	70	59000	7500	75+	0.322	0.332	4	750		5.43	Any	14.63
1200	T6.5		100	CSR1200/S/DE/60	22494	10	100	110000	6000	90+	0.323	0.325	7	500		5.43	Any	14.63
			100	CSR1200/S/DE/72	41361	10	100	110000	7200	75+	0.323	0.328	7	750		5.43	Any	14.63
1500	T6.5	Sfc 15.5-6 SI/M6	100	CSR1200/DE	48453	6	100	110000	6000	85+	0.323	0.325	10	750		8.66	H15	14.63
			100	CSR1500/S/DE/60	96800	10	115	135000	6000	85+	0.326	0.334	7	750		5.43	Any	14.63
2500	T9.5	Sfa21-12	115	CSR2500/DE	48454	6	115	240000	6000	90+	0.323	0.325	14	500		13.98	Any	14.63
4000	T12		200	CSR4000/DE	48455	6	200	410000	6000	90+	0.323	0.325	34	500		15.94	H15	14.63
6000	T16	25X51 Cyl 165mm	125	CSR6000/DE	48456	6	125	570000	6000	90+	0.323	0.325	22	300		17.71	H15	14.63
12000	T22.5	30x70 Cyl 165mm	160	CSR12000/DE	48457	4	160	1100000	6000	90+	0.323	0.325	32	300		18.50	H15	14.63
			225	CSR18000/DE	48459	4	225	1650000	6000	90+	0.323	0.325	45	300		19.68	H15	14.63
18000	T28	30x70 Cyl 165mm	225	CSR18000/S/DE	48460	4	225	1650000	6000	90+	0.323	0.325	45	300		19.68	H15	14.63
			225	CSR18000/S/DE	48460	4	225	1650000	6000	90+	0.323	0.325	45	300		19.68	H15	14.63
Discharge-CSR (Daylight) Metal Halide, Single-Ended Hot Restrike UV Control																		
575	T9.5	G22	95	CSR575/SE/HR/UV	40460	10	95	49000	5600	80+	0.330	0.325	7	750		5.71	Any	14.63
800	T9.5	G22	95	CSR800/SE/HR/UV	22495	10	95	64000	5600	90+	0.325	0.327	7	1000		5.71	Any	14.63
1200	T13	G38	100	CSR1200/SE/HR/UV	27764	6	100	110000	5600	90+	0.333	0.333	10	750		7.87	Any	14.63
2500	T19.5	G38	115	CSR2500/SE/HR/UV	40482	6	115	220000	5600	90+	0.330	0.325	14	500		9.45	Any	14.63
4000	T24	G38	200	CSR4000/SE/HR/UV	27765	6	200	380000	5600	90+	0.330	0.325	24	500		10.24	Any	14.63
6000	T26.5	G38	130	CSR6000/SE/HR/UV	40492	6	130	540000	5600	90+	0.333	0.333	26	300		14.17	Any	14.63

Watts	Bulb Shape	Base	Footnotes and Safety Notices	Order Code	Description	Case Qty	Lumens Initial	Design Color Temp K	MOL (in)	Rated Life (hrs)	CRI	Burning Position
Fluorescent Cinema Lighting												
T8 High Output, Clear and covRguard®												
55	T8	G-13 Med BiPin	171	81205	F48T8/CINEMA32	24	2750	3200	48.00	2000	95	Any
			171	81206	F48T8/CINEMA55	24	2750	5500	48.00	2000	97	Any
			171	81207	F48T8/CINEMA32/CVG	24	2750	3200	48.00	2000	95	Any
			171	81208	F48T8/CINEMA55/CVG	24	2750	5500	48.00	2000	97	Any
Standard Cinema												
35	T12	G-13 Med BiPin	171	15712	F20T12/CINEMA32/HO	24	1130	3200	24.00	2000	95	Any
			171	15713	F20T12/CINEMA55/HO	24	1100	5500	24.00	2000	96	Any
60	T12	G-13 Med BiPin	171	15716	F40T12/CINEMA32/HO	30	2900	3200	48.00	2000	95	Any
			171	15717	F40T12/CINEMA55/HO	30	2820	5500	48.00	2000	96	Any
85	T12	G-13 Med BiPin	171	15718	F72T12/CINEMA32/HO	15	4150	3200	72.00	2000	95	Any
			171	15719	F72T12/CINEMA55/HO	15	4050	5500	72.00	2000	96	Any
110	T12	G-13 Med BiPin	171	15720	F96T12/CINEMA32/HO	15	5800	3200	96.00	2000	95	Any
			171	15721	F96T12/CINEMA55/HO	15	5650	5500	96.00	2000	96	Any
Standard Cinema with covRguard®												
35	T12	G-13 Med BiPin	171	15775	F20T12/CINEMA32/HO/CVG	24	1130	3200	24.00	2000	95	Any
			171	15776	F20T12/CINEMA55/HO/CVG	24	1100	5500	24.00	2000	96	Any
60	T12	G-13 Med BiPin	171	15782	F40T12/CINEMA32/HO/CVG	30	2900	3200	48.00	2000	95	Any
			171	15783	F40T12/CINEMA55/HO/CVG	30	2820	5500	48.00	2000	96	Any
85	T12	G-13 Med BiPin	171	15785	F72T12/CINEMA32/HO/CVG	15	4150	3200	72.00	2000	95	Any
			171	15786	F72T12/CINEMA55/HO/CVG	15	4050	5500	72.00	2000	96	Any
110	T12	G-13 Med BiPin	171	15794	F96T12/CINEMA32/HO/CVG	15	5800	3200	96.00	2000	95	Any
			171	15798	F96T12/CINEMA55/HO/CVG	15	5650	5500	96.00	2000	96	Any
Cinema Biax®												
55	T5	2G11-4 PIN	171	41869	F55BX/STUDIOBIA32	10	4100	3200	21.10	8000	86	Any
			171	41873	F55BX/STUDIOBIA56	10	4100	5600	21.10	8000	86	Any
			171	41903	F55BX/CINPLUS/32	10	2400	3200	21.10	2000	86	Any
			171	41911	F55BX/CINPLUS/56	10	2400	5600	21.10	2000	86	Any

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ANSI Codes

ANSI Code	Order Code	Volts	Lamp Description
BCM	48772	208	BCM-Q20MT32/4CL
BCM	48773	230	BCM-Q20MT32/4CL
BCM	48774	240	BCM-Q20MT32/4CL
BRH	29604	120	BRH
BTL	11966	120	BTL-Q500T6/CL/P
BTM	16465	120	BTM-Q500T6/4CL/2P
BTN	11953	120	BTN-Q750T7/CL/2P
BTP	11954	120	BTP-Q750T7/4CL/2P
BTR	11955	120	BTR-Q1000T7/4CL/2P
BVT	12554	120	BVT-Q1000T7/CL/MP
BVV	12553	120	BVV-Q1000T7/4CL/MP
BVW	12555	120	BVW-Q2000T10/4CL/MP
BWA	39587	120	BWA-Q2000/4CL/BP
BWF	37086	120	BWF-Q2000/4CL
BWM	39680	120	BWM-Q750T7/4CL/TP
BWN	39792	120	BWN-Q1000T7/4CL/TP
CXZ	37564	120	CXZ-Q1500T10/4CL
CVV	42697	120	CVV-Q1000T7/4CL/BP
CYX	36636	120	CYX-Q2000T10/4CL
DKX	40357	120	DKX/DSF-Q1500P552/4
DKZ	39582	120	DKZ/DSE-Q1000P552/4
DPY	41736	120	DPY-Q5000T20/4CL
DRB	29968	120	DRB
DRS	29947	120	DRS
DSE	19926	120	DSE/Q1000
DSF	19927	120	DSF/Q1500
DTA	30522	120	DTA-Q1500T8/4CL
DTY	24886	120	DTY-Q10M/T24/4CL
DVS	23733	130	Q500T3/CL
DVY	30304	120	DVY
DWE	41667	120	DWE-Q650PAR36/1
DWT	23800	120	DWT-Q1000T6/CL
DWZ	29578	30	DWZ(30V)
DXW	30157	120	DXW-Q1000T5/4CL
DXX	36952	230	DXX
DXX	36953	240	DXX
DYH	30364	120	DYH

ANSI Code	Order Code	Volts	Lamp Description
DYR	26895	240	DYR
DYS	32955	120	DYS/DVV/BHC
DZA	37346	10.8	DZA
EGC	39134	120	EGC-Q500/SCL/P
EGE	39135	120	EGE-Q500CL/P
EGF	39136	120	EGF-Q750/4CL/P
EGG	39137	120	EGG-Q750CL/P
EGJ	38853	120	EGJ-Q1000/4CL/P
EGK	38852	120	EGK-Q1000/4CL/P
EGM	39138	120	EGM-Q1000CL/P
EGN	30373	120	EGN-Q500T8
EGR	39190	120	EGR-Q750T7/4CL
EGT	39191	120	EGT-Q1000T7/4CL
EHC	39789	120	EHC-Q500/SCL
EHD	39768	120	EHD-Q500CL/TP
EHF	39771	120	EHF-Q750/4CL
EHG	39770	120	EHG-Q750CL/TP
EHM	43703	120	Q300T3/CL
EHP	43705	120	Q300T4/CL
EHZ	43704	120	Q300T3
EJD	23788	185	EJD-Q1000T3/3CL (185V)
EJG	23756	120	EJG-Q750T3/4CL
EKB	33934	120	EKB-Q420/4CL/2PP
EKD	34328	120	EKD-Q650/3CL/2PP
EMD	23755	120	EMD-Q750T3/4
EXC	10925	240	EXC-Q1MPAR64CP60
EXD	10929	240	EXD-Q1MPAR64CP61
EKE	10931	240	EKE-Q1MPAR64CP62
EYH	13617	120	EYH/FKT
FAD	30325	120	FAD-Q650T4/4CL
FAY	41668	120	FAY-Q650PAR36/3D
FBE	41669	120	FBE-Q650PAR36/5D
FBG	33663	120	FBG/FBD
FBO	41671	120	FBO-Q650PAR36/5
FBX	30343	120	FBX-Q650T4/4
FBY	30374	120	FBY-Q1000T5/4
FCB	29598	120	FCB

ANSI Code	Order Code	Volts	Lamp Description
FCL	23731	120	Q500T3/CL
FCM	13895	120	FCM/HR-Q650T3/4
FCM	23797	120	FCM-Q1000T3/4CL
FCW	41672	120	FCW-Q650PAR36/6
FCX	41673	120	FCX-Q650PAR36/7
FDB	23841	120	FDB-Q1500T4/4CL
FDG	23735	120	FDG-Q500T3/4CL
FDN	23734	120	FDN-Q500T3/4
FEL	39769	120	FEL-Q1000/4CL
FEP	39738	230	FEP-Q1MT6/4CL
FER	33760	120	FER-Q1000T6/4CL
FEV	14119	120	FEV-Q200/4CL/DC

Stage and Studio Lamps

Footnotes and Safety Notices

- 1 Filament with low noise construction.
- 2 New Product Code. See cross reference for previous code.
- 4 Ceramic part of lamp base is slightly larger than similar lamps, thus may not fit in some spring type lamp holders.
- 7 Pinned base to secure correct application.
- 14 Enclosed fixture only, per UL Standard 1572. In accordance to Federal Regulations (21CFR1040.30) the following notice applies:
WARNING: This lamp can cause serious skin burn and eye inflammation if the outer envelope 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 lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available.
- 15 Apparent lighted length slightly longer than similar clear lamp.
- 27 Has blackening collector grid on only one side of filament. Unless burned base down, install lamp so grid is above filament.
- 31 GE lamp is 240 volt; 250 volt lamp specified for Colortran.
- 51 Silica coated.
- 52 Rough service. 6 filament supports.
- 55 Burn BDTH, but avoid horizontal burning with support spine beneath filament to prevent premature arcing.
- 62 **Safety Notice for exposed unshielded lamps (if shielded fixture use footnote 63)**

⚠ 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

63 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

64 High Wattage Incandescent Par Lamps

⚠ Warning

Risk of electrical shock

- Turn power off before inspection, installation, or removal

Risk of fire

- Keep combustible materials away from lamp

Unexpected lamp rupture may cause injury, fire, or property damage

- Avoid direct water/liquid contact
- Use in enclosed fixtures rated for this product

171 Linear Fluorescent

⚠ Warning

Risk of electrical shock

- Turn power off before inspection, installation, or removal

⚠ Caution

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Dispose of lamp in closed container

Burning Position Key

H4	operate horizontally +-4 degrees
H15	operate horizontally +-15 degrees
BDTH	operate base down to horizontal
BDTHCH	operate base down to horizontal with filament coil axis horizontal
ANYCH	base in any position, but with filament coil axis horizontal
BD30	base down +-30 degrees
BD45	base down +-45 degrees