2008
Stage/Studio Lamp Catalog
For your best lighting performance.

Cinema Fluorescent

CSR/CSD Metal Halide

ConstantColor® CMH®

Quartzline® Halogen

SHOWBIZ®
for stage, studio, film and event lighting

imagination at work

IMPORTANT

Additional information is constantly being uncovered through research and testing, which may modify the data. This is particularly true of newer lamps. For the latest lamp design data and information, contact your General Electric Lamp Representative.

The data in this catalog, as well as any additional information our representative may be able to furnish, are for general information only and do not represent or warrant the suitability of a lamp for particular applications or use in particular equipment, nor are our representatives authorized to make such representations or give such warranties. Applications and conditions of use are varied, and beyond our control. We cannot possibly have the same knowledge the purchaser has with respect to the design of his equipment and the conditions of its use. It is up to the purchaser to determine the suitability of a lamp for his intended application and to assume the responsibility for that determination.

General Electric desires to supply the best possible products at all times. For this reason, General Electric reserves the right to make changes in its products when it believes such changes will improve its products.

CAUTION NOTICES

Certain precautions should be observed in the handling and use of GE Stage/Studio Lamps to provide optimum performance and safety. Please comply with the warning and caution notices, footnotes and burning position limitations noted by lamp.

TABLE OF CONTENTS

INTRODUCTION

This catalog lists and gives essential technical data for all presently available General Electric lamps that are frequently used in lighting for: theatrical performances; television, motion picture and video productions; and professional photography.

Lamp listings are grouped into tables, each containing a closely related "family" of lamps with similar configuration. In many tables, the lamps are interchangeable (subject to limitations noted). This provides a self-contained guide for selecting alternative lamps. The following paragraphs explain the use of the tables.

Lamp Identification and Ordering Codes

Many GE lamps used in stage/studio applications are "coded."

ANSI Codes are 3-letter codes assigned by the American National Standards Institute. They provide a system for assuring mechanical and electrical interchangeability among similarly coded lamps of various manufacturers. The letters have no rational meaning other than to identify the lamp dimensional, electrical and photometric characteristics that are on file with ANSI. GE uses the assigned ANSI 3-letter Codes as Order Codes for Photo Lamps. Some GE lamps have a multiple code (examples: BFL/BFK, DYS/DYV/BHC). The first code is the official ANSI code, but the lamp also meets or exceeds the described characteristics for the other code(s), and may be used to replace lamps of either code.

LIF Codes 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. Prefix codes are:

A Designed for projectors, some used in raylight reflectors, martin moving mirror effects

CP Designed for use with tungsten balanced film stock at 3200K, single-ended lamp for use in Fresnel/ ellipsoidal luminaires
P1 Use with 3200K film stock, open face luminaires and video sun guns
P2 Use with 3400K film stock
T Designed for theaters. Color temperature generally around 3000K.

Miniature Lamp Codes consist of numbers, also assigned by ANSI, to identify low voltage lamps from all manufacturers for interchangeability. GE uses these numerical codes as GE Description. In some instances, the GE Miniature Lamp Code includes the prefix H or Q, indicating a lamp with a halogen or quartz filament tube.

Discharge and Fluorescent Lamps

GE High Intensity Discharge lamps have brand name codes. The following describes the optimized characteristics:

CSR Metal Halide are daylight (6000K) color with CR greater than 90. Many with hot restrike (HR) and dimmable with stable color temperature. Use with electronic or AC magnetic ballast/ignitor control gear.

ConstantColor® CMH® have CR greater than 80 with color uniformity between lamps and over lamp life.

CSS compact source specials are for disco and fiber optic application.

CSD are compact source lamps with very high color temperature and long life.

CID compact iodide daylight have color temperatures of daylight (5500K) while **CSI** compact source iodide lamps have a warmer color (4000K) that can be blended with tungsten lamps.

MVR is Multi-Vapor® Metal Halide and along with **SPL** lamps are suitable for sportslighting.

Cinema Fluorescent lamps come in warm(3200K) and daylight (5500K) colors with and without **CovRguard® (CVG)** shatter protection. There are compact **Biax® (BX)** lamps available.

INTRODUCTION (continued)

Voltage

Quartzline® halogen and incandescent lamps can be operated on AC or DC circuits. Fluorescent and metal halide lamps are for AC only, with suitable auxiliary ballasts.

Ordering Lamps

Order lamps using the codes in the GE Product Ordering Code column. Add the GE Description, plus lamp voltage (essential for lamps available in more than one voltage) to help assure getting the exact lamp required. However, if a lamp is listed with blue text in the catalog it is not stocked in North America, so procurement must be through an international distributor or your GE sales representitive.

Lamp Indexes

There are indexes starting on page 13 with the 3-letter ANSI or LIF code where available. All incandescent and halogen lamps are indexed by wattage on page 15-19. PAR reflector (by size), fluorescent and metal halide lamps are indexed by table on page 12, along with halogen lamps by base.

Lamp Tables

Each of the 46 lamp tables contains a "family" of lamps with similar configuration. Tables 1-29 each contain Quartzline® lamps having the same base and (in most cases) the same light source location. Therefore, all the lamps within each table are generally interchangeable. Tables 30-46 are various discharge lamp systems which require ballasts that may preclude interchange.

When selecting an alternative lamp from within a particular table, note any limitations to be considered as stated in the table. Filament forms may vary among lamps in some tables. Use of a different filament form may effect the light

output. Reflector lamps have differences in voltage and lamp bases as well as the usual concern for excess heat when a higher wattage lamp is substituted.

Footnotes

Throughout the lamp tables, the footnote column contains important information and safety notes. The footnotes and safety notices appear on pages 8-11.

Lamps Base Designations

Each lamp table includes the name of the base used on the lamps therein, including its letter/number ANSI/IEC designation, where applicable. Lamp bases are pictured on page 20-22.

Recommended Operating Position

Limitations on lamp operating position are shown either in the table heading or in a column within the table, in which case the following abbreviations are used:

H4 operate only horizontally within 4 degrees
H15 operate horizontally ±15 degrees
H45 operate horizontally ±45 degrees
HBU horizontal -15 degrees to base up
ANYCH base any position, but with filament coil axis horizontal
BD base down
BU30 within 30° of vertical base-up
BD45 within 45° of vertical base-down
BDTH base down to horizontal
BDTHCH base down to horizontal with filament coil axis horizontal
Fluorescent lamps are all "**ANY**" position

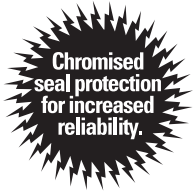
Low-Noise Construction

Many Quartzline® Stage/Studio lamps, have special "low-noise" construction - to minimize generation of audible noise when operated on AC circuits. Such lamps are identified in the tables with a footnote (1). Lamps, sockets, wiring, etc. tend to generate audible noise when used on dimmers that distort the normal AC sine wave. "Low-noise"

INTRODUCTION (continued)

lamps, therefore, often prove especially useful on wave-distorting dimmers such as SCR, Thyratron, or "mag-amp" types. No noise is generated on "flat-wave" DC circuits.

Chromised Seal Protection



Quartzline® Stage/Studio and selected CSR 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.

Other GE Publications

All the lamps in this consolidated Stage/Studio Lamp Catalog come from the GE catalogs listed below. They contain data for other lamps that may be of interest for stage/studio applications.

Specialty Catalog (PC 29119)
Lamp Products Catalog (PC 25265)

FOOTNOTES

(1) Filament with low noise construction
(3) Beam spread to 50% peak candlepower. Two numbers are horizontal by vertical.
(4) Ceramic part of lamp base is slightly larger than other lamps in table 2, thus may not fit in some leaf-spring type lampholders
(5) Beam spread to 10% peak candlepower. Two numbers are horizontal by vertical.

(6) Candlepower is the intensity (candelas) generally at the center or maxiumum intensity of the beam

(7) Pinned base to insure correct application

(8) Light Balancing (LB) index: mired shift value limit is ±5. Color compensating (CC) filter value limit ±5m. CC filter density: (+) magenta, (-) green. The LB and CC limits are specified to eliminate the need to add external color adjusting filters in cinemagraphic lighting.

(9) Cinema32 lamps are 3200K (tungsten), chromaticity x=.415 y=.377, CRI 95, Gold bases

(10) Cinema55 lamps are 5500K (daylight), chromaticity x=.325 y=.321, CRI 96, Blue bases

(11) Biax Cinema32 are 3200K, chromaticity x=.415 y=.380, CRI 86

(12) Filament shield masks direct light

(13) Biax Cinema56 are 5600K, chromaticity x=.330 y=.335, CRI 86

(14) Enclosed fixture only, per UL Standard 1572. In accordance to Federal Regulations (21 CFR 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.

(15) Apparent lighted length slightly longer than similar clear lamp

(16) Life dependent on service conditions. For use only in equipment specially designed to maintain bulb and base temperature within safe limits.

(19) Requires non-ANSI ballast. Narrow 6 degree spot with 1,350,000 CBCP.

(20) Top end of bulb is opaque-coated to absorb upward light

(21) Blue glass bulb. Color temperature may vary amongst lamps.

(22) Because of possible overheating, this lamp is not recommended for use without forced cooling in fixtures having deep-bowl, close-fitting reflectors with lamp axis crosswise to the reflector axis.

(23) 850,000 CBCP with 8 degrees to 50% CBCP

(24) 820,000 CBCP with 9 degrees to 50% CBCP

(27) Has blackening collector grid on only one side of filament. In burning positions other than base down, lamp should be installed so that grid is above filament.

(31) GE lamp is 240 volt; 250 volt is 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

SAFETY NOTES

62 Exposed Unshielded Stage and Studio 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 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

62 Exposed Unshielded Stage and Studio Lamps (continued)

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 PAR Lamps and Glass Covered Stage and Studio Lamp

⚠ 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

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

- Do not exceed 110% of rated voltage
- Avoid direct water/liquid contact

63 PAR Lamps and Glass Covered Stage and Studio Lamp (continued)

- Use in enclosed fixtures rated for this product
- Do not use lamp if outer glass is scratched or broken

⚠ 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
- Do not use excessive force when installing lamp

307 Low Wattage Halogen PAR Lamps

⚠ WARNING

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

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

INDEX BY TABLE, TECHNOLOGY AND LAMP BASE

INDEX: ANSI CODE

INDEX: LIF CODE

INDEX: WATTAGE

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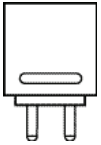
INDEX: WATTAGE

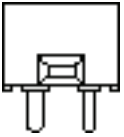
LAMP BASE DRAWINGS

(dimensions in mm)

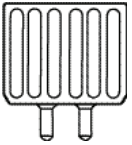
Miniature 2-Pin
G5.3 (round 1.6mm OD)
GX5.3 (round 1.5mm OD)
GY5.3 (flat 2 x .7mm)



Medium 2-Pin
G9.5 (round 3.2mmOD)
GX9.5 (Prefocused)

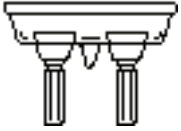


Oriented Med 2-Pin
GY9.5 (2.4/3.2mm OD)
GZ9.5

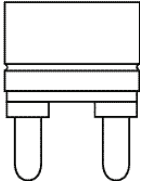


Medium 2-Pin
G9.5/Heat sink
(metal base)

GY16d

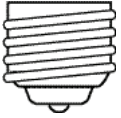


Medium BiPost
G22 (6.35mm OD)

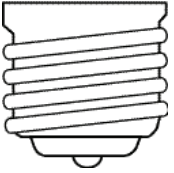


Mogul BiPost
G38 (11.1mm OD)

Miniature Candelabra
E11 (10.7mm screw)

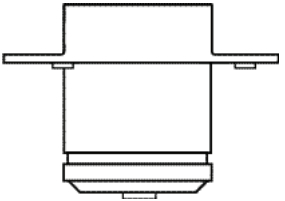


Medium Screw
E26 (26mm screw)

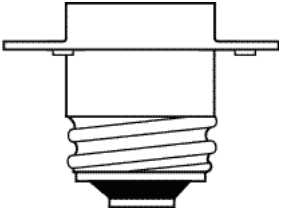


Mogul Screw
E39 (39.3mm screw)

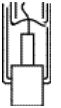
Double Contact Bayonet
BA15d (15mm diameter)



Medium Prefocus
P28s (27.5mm OD)



Mogul Prefocus
P40s (39.4mm OD)

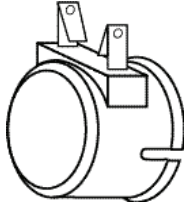


Recessed Contact
R7s (7mm OD)

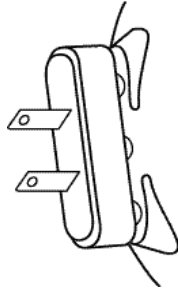
PAR LAMP BASE DRAWINGS

Screw Terminal

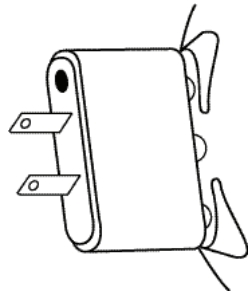
Ferrule



Medium Side Prong
(MSP)



Mogul End Prong
(MEP or GX16d)



Extended MEP
(EMEP or GX16d)

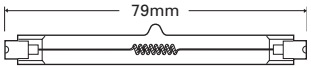


Fig. 1

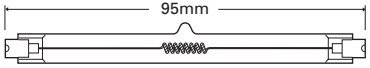


Fig. 2

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Stnd. Pack Qty.	MOL (mm)	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila- ment Type	Lighted Length (mm)	Bulb Finish	Burning Position	Fig. No.
Table 1: Halogen, Double-Ended, Compact Coil (CC-8), R7s Base, 79mm ($3^1/_8$") MOL																	
300	T-4	**Q300T4/CL**	62	EHP		**43705**	6	79	120	2900	2000	5650	CC-8	18		Any	1
375	T-4	**DWZ(30V)**	62	DWZ		**29578**	24	79	30	3000	1000	7500	CC-8	10		Any	1
420	T-4	**FFM**	62	FFM		**30276**	24	79	120	3200	75	11000	CC-8	13		Any	1
650	T-4	**FAD-Q650T4/4CL**	62	FAD	P2/6	**30325**	24	79	120	3200	100	16500	CC-8	17		Any	1
		FBX-Q650T4/4	15, 62	FBX	P2/6	**30343**	24	79	120	3200	100	16500	CC-8		Frosted	Any	1
800	T-4	**DXX**	62	DXX	P2/13	**36952**	24	79	230	3200	75	21400	CC-8	24		Any	1
		DXX	62	DXX	P2/13	**36953**	24	79	240	3200	75	21400	CC-8	24		Any	1
Table 2: Halogen, Double-Ended, Compact Coil (CC-8), R7s Base, 95mm ($3^3/_4$") MOL																	
600	T-4	**FCB**	4, 62	FCB	A1/228	**29598**	24	95	120	3250	75	17000	CC-8	17		Any	2
1000	T-5	**DXW-Q1000T5/4CL**	27, 62	DXW		**30157**	24	95	120	3200	150	28000	CC-8	22		Any	2

Lamp stocking color code: EUROPE ONLY, EUROPE and NORTH AMERICA, NORTH AMERICA ONLY

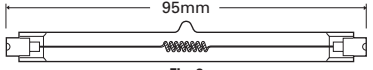


Fig. 2

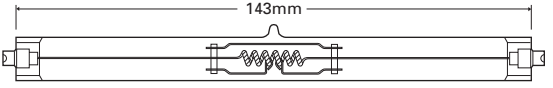


Fig. 3

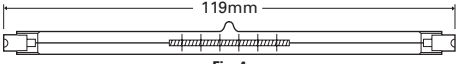


Fig. 4

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Stnd. Pack Qty.	MOL (mm)	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila- ment Type	Lighted Length (mm)	Bulb Finish	Burning Position	Fig. No.
Table 2: Halogen, Double-Ended, Compact Coil (CC-8), R7s Base, 95mm (3 3/4") MOL																	
1000	T-5	**FBY-Q1000T5/4**	15, 62	FBY		**30374**	24	95	120	3200	150	26000	CC-8		Frosted	Any	2
		BRH	62	BRH		**29604**	24	95	120	3350	75	30000	CC-8	19		Any	2
Table 3: Halogen, Double-Ended, Compact Coil (CC-8), R7s Base, 143mm (5 5/8") MOL																	
1000	T-6	**DWT-Q1000T6/CL**	62	DWT		**23800**	6	143	120	3000	2000	23400	CC-8	25		Any	3
		FER-Q1000T6/4CL	62	FER		**33760**	6	143	120	3200	500	27500	CC-8	19		Any	3
2000	T-10	**FEX-Q2MT8/4CL**	62	FEX	P2/27	**35338**	12	143	230	3200	300	50000	CC-8	37		H4	3
		FEX-Q2MT8/4CL	62	FEX	P2/27	**35339**	12	143	240	3200	300	50000	CC-8	37		H4	3
		FEY-Q2000T8/4CL	62	FEY	P2/27	**39790**	12	143	120	3200	400	57000	CC-8	25		H4	3

Table 4: Halogen, Double-Ended, C-8, R7s Base, 119mm ($4\frac{11}{16}$") MOL

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Stnd. Pack Qty.	MOL (mm)	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila- ment Type	Lighted Length (mm)	Bulb Finish	Burning Position	Fig. No.
300	T-3	Q300T3/CL	62	EHM		43703	6	119	120	2950	2000	5950	C-8	59		H4	4
		Q300T3	15, 62	EHZ		43704	6	119	120	2950	2000	5900	C-8		Frosted	H4	4
350	T-2	FDF/HIR-Q350T2/4CL	62			20881	6	119	120	3200	400	13250	C-8	60		H4	4
	T-3	Q350T3/CL/HIR	62			13894	6	119	120	3000	2000	10000	C-8	56		H4	4
500	T-3	Q500T3/CL	62	DVS		23733	12	119	130	3000	2000	10550	C-8	62		H4	4
		Q500T3/CL	62	FCL		23731	12	119	120	3000	2000	11100	C-8	57		H4	4
		Q500T3/CL/6	62			23744	12	119	120	2950	1500	10950	C-8	60		H4	4
		FDF-Q500T3/4CL	62	FDF	P2/30	23735	12	119	120	3200	400	13250	C-8	60		H4	4
		FDN-Q500T3/4	15, 62	FDN	P2/31	23734	12	119	120	3200	400	12800	C-8		Frosted	H4	4
650	T-3	FCM/HIR-Q650T3/4	52, 62	FCM	–	13895	6	119	120	3275	400	25200	C-8	60		H4	4
750	T-3	EJG-Q750T3/4CL	62	EJG	–	23756	12	119	120	3200	400	20600	C-8	62		H4	4
		EMD-Q750T3/4	15, 62	EMD	–	23755	12	119	120	3200	400	19500	C-8		Frosted	H4	4
800	T-3	EME-Q800T3/P2/11	62	EME	P2/11	23760	12	119	240	3200	150	22000	C-8	64		H4	4
		EMF-Q800T3/P2/11	62	EMF	P2/11	23761	12	119	240	3200	150	21400	C-8		Frosted	H4	4

Lamp stocking color code: EUROPE ONLY, EUROPE and NORTH AMERICA, NORTH AMERICA ONLY

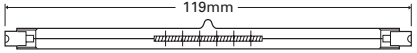


Fig. 4

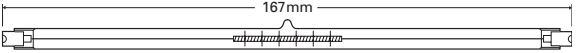


Fig. 5

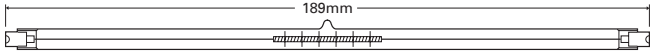


Fig. 6

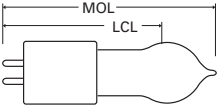


Fig. 7

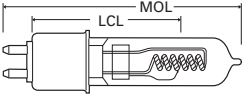


Fig. 8

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Stnd. Pack Qty.	MOL (mm)	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila- ment Type	Lighted Length (mm)	Bulb Finish	Burning Position	Fig. No.
Table 4: Halogen, Double-Ended, C-8, R7s Base, 119mm (4 11/16") MOL (continued)																	
1000	T-3	**FCM-Q1000T3/4CL**	62	FCM	P2/28	**23797**	12	119	120	3200	400	28000	C-8	60		H4	4
		FHM-Q1000/T3/4	15, 31, 62	FHM	P2/29	**23792**	12	119	120	3200	400	27300	C-8		Frosted	H4	4
		EJD-Q1000T3/ 3CL (185V)	52, 62	EJD	–	**23788**	12	119	185	3350	100	33600	C-8	68		H4	4
Table 5: Halogen, Double-Ended, C-8, R7s Base, 167mm (6 9/16") MOL																	
675	T-3	**FFT/HIR-Q675T3/4**	52, 62	–	–	**20884**	6	167	120	3250	400	26400	C-8	67		H4	5
1000	T-3	**FFT-Q1000T3/1CL**	62	FFT	–	**33280**	12	167	120	3200	400	26400	C-8	67		H4	5
1500	T-4	**FDB-Q1500T4/4CL**	62	FDB	–	**23841**	12	167	120	3200	400	41250	C-8	62		H4	5
		FGT-Q1500T4/4	15, 62	FGT	–	**41229**	12	167	120	3200	400	40200	C-8		Frosted	H4	5

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Stnd. Pack Qty.	MOL (mm)	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	Lighted Length (mm)	Bulb Finish	Burning Position	Fig. No.
Table 6: Halogen, Double-Ended, C-8, R7s Base, 189mm (7 7/16") MOL																	
625	T-3	**Q625T3/4CLP2/10**	62		P2/10	**19697**	12	189	230	3200	300	16900	C-8	107		H4	6
		Q625T3/4CLP2/10	62		P2/10	**19698**	12	189	240	3200	300	16900	C-8	107		H4	6
1000	T-3	**EKM-Q1MT3/4CLP2/7**	62	EKM	P2/7	**20249**	12	189	230	3200	300	28000	C-8	115		H4	6
		EKM-Q1MT3/4CLP2/7	62	EKM	P2/7	**20253**	12	189	240	3200	300	28000	C-8	115		H4	6
1250	T-3	**Q1250T3/P2/12**	62		P2/12	**19695**	12	189	230	3200	300	35000	C-8	112		H4	6
		Q1250T3/P2/12	62		P2/12	**19696**	12	189	240	3200	300	35000	C-8	112		H4	6

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Stnd. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 7: Halogen, Single-Ended, G5.3 Miniature 2-Pin (5.3mm apart)																		
30	T-3.5	**DZA**	62	DZA	–	**37346**	24	G5.3	10.8	3100	400	530	C-6	27	51	BDTHCH		
105	T4	**FVM**	62	FVM		**19678**	24	G5.3	120	3200	250	2200	CC-8	32	60	Any		7
200	T4	**FVL**	62	FVL		**19679**	24	G5.3	120	3200	200	5200	CC-8	32	60	Any		7
250	G-6	**EYH/FKT**	62	EYH	–	**13617**	24	G5.3	120	3000	200	6000	CC-6	36	64	BDTHCH		7
500	G-6	**FBG/FBD**	62	FBG	–	**33663**	24	G5.3	120	3200	50	13200	CC-6	44	76	ANYCH		7
600	G-7	**DYH**	62	DYH	–	**30364**	24	G5.3	120	3200	75	17000	CC-6	36	64	ANYCH		7
650	G-6	**DVY**	62	DVY	–	**30304**	24	G5.3	120	3300	25	20000	CC-6	36	64	BDTHCH		7

Lamp stocking color code: EUROPE ONLY, EUROPE and NORTH AMERICA, NORTH AMERICA ONLY

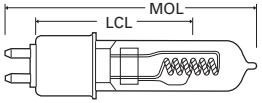


Fig. 8

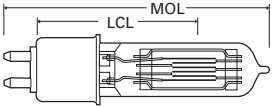


Fig. 9

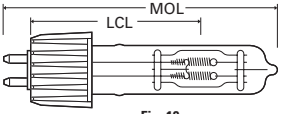


Fig. 10

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Stnd. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 8: Halogen, Single-Ended, G9.5 Medium 2-Pin (9.5mm apart)																		
500	T-6	**EHD-Q500CL/TP**	62	EHD		**39768**	24	G9.5	120	2900	2000	10000	CC-8	60	105	Any		8
		EHC-Q500/5CL	62	EHC		**39789**	24	G9.5	120	3150	500	12700	CC-8	60	105	Any		8
575	T-6	**FLK-Q575T6**	62	FLK		**11450**	24	G9.5	115	3200	300	16500	CC-8	60	105	Any		8
		FLK/LL-Q575T6	62	–	–	**39730**	24	G9.5	115	3100	1500	12800	CC-8	60	105	Any		8
		GLA-Q575T6/4CL	62	GLA	–	**93428**	24	G9.5	115	3050	1500	13000	C-13D	60	105	Any		9
		GLC-Q575T6/5CL	62	GLC	–	**93429**	24	G9.5	115	3200	300	14500	C-13D	60	105	Any		9
600	T-6	**GKV-Q575T6/4CL**	62	GKV		**39739**	24	G9.5	230	3200	250	14000	C-13D	60	105	Any		9
		GKV	62	GKV		**39750**	24	G9.5	240	3200	250	14000	C-13D	60	105	Any		9
		GKV/LL	62	GKV		**39751**	24	G9.5	230	3000	1500	11000	C-13D	60	105	Any		9
		GKV/LL	62	GKV		**39752**	24	G9.5	240	3000	1500	11000	C-13D	60	105	Any		9
650	T-6	**FKR**	62	FKR		**39734**	24	G9.5	230	3100	300	15000	C-13D	60	105	Any		9
		FKR	62	FKR		**39735**	24	G9.5	240	3100	300	15000	C-13D	60	105	Any		9
750	T-6	**EHG-Q750CL/TP**	62	EHG	–	**39770**	24	G9.5	120	3000	2000	15000	CC-8	60	105	Any		8
		EHF-Q750/4CL	62	EHF	–	**39771**	24	G9.5	120	3200	300	20000	CC-8	60	105	Any		8

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Stnd. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 8: Halogen, Single-Ended, G9.5 Medium 2-Pin (9.5mm apart) (continued)																		
750	T-6	**GLD-Q750T6/4CL**	62	GLD	–	**92771**	24	G9.5	115	3200	300	19000	C-13D	60	105	Any		9
		GLE-Q750T6/4CL	62	GLE	–	**92773**	24	G9.5	115	3050	1500	17400	C-13D	60	105	Any		9
	T-7	**BWM-Q750T7/ 4CL/TP**	1, 62	BWM	–	**39680**	6	G9.5	120	3200	200	21000	C-13D	60	114	BDTH		9
800	T-6	**HX800**	62		HX800	**39753**	24	G9.5	230	3200	250	20000	C-13D	60	105	Any		9
		HX800	62		HX800	**39754**	24	G9.5	240	3200	250	20000	C-13D	60	105	Any		9
1000	T-6	**FEL-Q1000/4CL**	62,22	FEL	CP77	**39769**	24	G9.5	120	3200	300	27500	CC-8	60	105	Any		8
		FEP-Q1MT6/4CL	62	FEP	CP77	**39738**	24	G9.5	230	3200	300	25000	CC-8	60	105	Any		8
		FEP-Q1MT6/4CL	62	FEP	CP77	**39736**	24	G9.5	240	3200	300	25000	CC-8	60	105	Any		8
	T-7	**BWN-Q1000T7/ 4CL/TP**	62,1	BWN	–	**39792**	24	G9.5	120	3200	250	28500	C-13D	60	114	BDTH		9
Table 9: Halogen, Single-Ended, G9.5/Heat Sink (Metal 2-Pin)																		
375	T-6	**HPL375/C**	18, 62			**17608**	12	G9.5/HS	115	3250	300	10540	4-C8	60	106	Any		10
		HPL375/LL	18, 62			**18189**	12	G9.5/HS	115	3050	1000	8000	4-C8	60	106	Any		10
550	T-6	**HPL550/C 77V**	18, 62			**17607**	12	G9.5/ HS	77	3250	300	16170	4-C8	60	106	Any		10

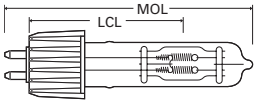


Fig. 10

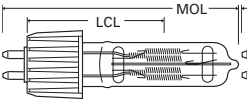


Fig. 11

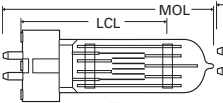


Fig. 12

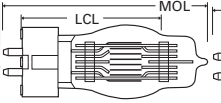


Fig. 13

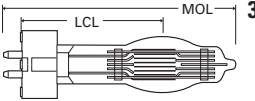


Fig. 14

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Stnd. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 9: Halogen, Single-Ended, G9.5/Heat Sink (Metal 2-Pin) (continued)																		
575	T-6	**HPL575/C 115V**	62	–	–	**92431**	12	G9.5/HS	115	3200	300	16500	4-C8	60	106	Any		10
		HPL575/C 120V	62	–	–	**92433**	12	G9.5/HS	120	3200	300	16520	4-C8	60	106	Any		10
		HPL575/LL/C 115V	62	–	–	**92434**	12	G9.5/HS	115	3050	2000	12360	4-C8	60	106	Any		10
		HPL575/LL/C 120V	62	–	–	**92435**	12	G9.5/HS	120	3050	2000	12360	4-C8	60	106	Any		10
		HPL575	62	–	–	**37128**	12	G9.5/HS	230	3200	300	14900	6-C8	60	106	Any		11
		HPL575	62	–	–	**37131**	12	G9.5/HS	240	3200	300	14900	6-C8	60	106	Any		11
		HPL575-X LL	62	–	–	**37817**	12	G9.5/HS	230	3050	1500	11780	6-C8	60	106	Any		11
		HPL575-X LL	62	–	–	**37818**	12	G9.5/HS	240	3050	1500	11780	6-C8	60	106	Any		11
750	T-6	**HPL750/C 115V**	7, 62	–	–	**92432**	12	G9.5/HS	115	3200	300	22000	4-C8	60	106	Any		10
		HPL750/LL/C	7, 62	–	–	**92770**	12	G9.5/HS	115	3050	2000	16400	4-C8	60	106	Any		10
		HPL750	7, 62	–	–	**37824**	12	G9.5/HS	230	3200	300	19750	6-C8	60	106	Any		11
		HPL750	7, 62	–	–	**37826**	12	G9.5/HS	240	3200	300	19750	6-C8	60	106	Any		11
		HPL750-XLL-C	7, 62	–	–	**92768**	12	G9.5/HS	230	3050	1500	15600	6-C8	60	106	Any		11
		HPL750-XLL-C	7, 62	–	–	**92769**	12	G9.5/HS	240	3050	1500	15600	6-C8	60	106	Any		11

Table 10: Halogen, Single-Ended, GX9.5 Prefocus Med 2-Pin

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Stnd. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
650	G-6	**EKD-Q650/3CL/2PP**	62	EKD	–	**34328**	24	GX9.5	120	3300	25	20000	CC-6	37	64	BDTHCH		
	T-8	**T12**	62		T12	**39661**	12	GX9.5	230	3000	750	13500	C-13	55	110	BDTH		12
		T12	62		T12	**39663**	12	GX9.5	240	3000	750	13500	C-13	55	110	BDTH		12
		CP23	62		CP23	**39654**	12	GX9.5	230	3200	100	16900	C-13	55	110	BDTH		12
		CP23	62		CP23	**39660**	12	GX9.5	240	3200	100	16900	C-13	55	110	BDTH		12
1000	G-11	**CP24**	62		CP24	**39651**	12	GX9.5	230	3200	200	26000	C-13	55	110	BDTH		13
		CP24	62		CP24	**39653**	12	GX9.5	240	3200	200	26000	C-13	55	110	BDTH		13
		Q1000T8/CL	62		T11	**29331**	24	GX9.5	120	3050	750	23500	C-13	55	110	BDTH		13
		T11	62		T11	**39656**	12	GX9.5	230	3050	750	23000	C-13	55	110	BDTH		13
		T11	62		T11	**39659**	12	GX9.5	240	3050	750	23000	C-13	55	110	BDTH		13
	T-11	**FWP**	62	FWP	T19	**39657**	12	GX9.5	230	3050	750	21000	C-13D	55	110	BDTH		12
		FWR	62	FWR	T19	**39658**	12	GX9.5	240	3050	750	21000	C-13D	55	110	BDTH		12
		FVA	62	FVA	CP70	**39241**	12	GX9.5	230	3200	200	25000	C-13D	55	110	BDTH		12
		FVB	62	FVB	CP70	**39242**	12	GX9.5	240	3200	200	25000	C-13D	55	110	BDTH		12
1200	G-11	**T29**	62		T29	**39647**	12	GX9.5	120	3050	400	30500	C-13D	67	125	BDTH		14
		FWS	62	FWS	T29	**39723**	12	GX9.5	230	3050	400	29000	C-13D	67	125	BDTH		14
		FWT	62	FWT	T29	**39667**	12	GX9.5	240	3050	400	29000	C-13D	67	125	BDTH		14

Lamp stocking color code: EUROPE ONLY, EUROPE and NORTH AMERICA, NORTH AMERICA ONLY

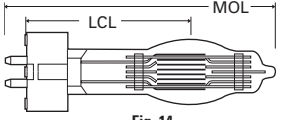


Fig. 14

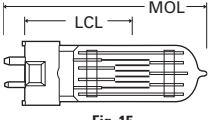


Fig. 15

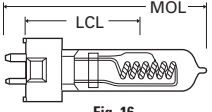


Fig. 16

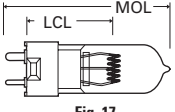


Fig. 17

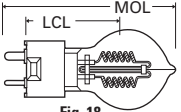


Fig. 18

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Stnd. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 10: Halogen, Single-Ended, GX9.5 Prefocus Med 2-Pin (continued)																		
1200	G-11	**CP90**	62		CP90	**39724**	12	GX9.5	230	3200	200	33000	C-13D	67	125	BDTH		14
		CP90	62		CP90	**39725**	12	GX9.5	240	3200	200	33000	C-13D	67	125	BDTH		14
Table 11: Halogen, Single-Ended, GY9.5 Oriented 2-Pin (2 OD Pins)																		
300	T-8	**FKW-Q300T8**	62	FKW	CP81	**39781**	24	GY9.5	120	3200	50	6900	C-13	46	90	BDTH		15
		FSL	62	FSL	CP81	**39780**	24	GY9.5	230	3200	150	6900	C-13	46	90	BDTH		15
		FSK	62	FSK	CP81	**39779**	24	GY9.5	240	3200	150	6900	C-13	46	90	BDTH		15
420	G-7	**EKB-Q420/4CL/2PP**	62	EKB	–	**33934**	24	GY9.5	120	3200	75	11000	CC-6	37	64	ANYCH		17
500	T-8	**FRG-Q500T8**	62	FRG	CP82	**39623**	24	GY9.5	120	3200	150	13000	C-13	46	90	BDTH		15
		FRH	62	FRH	CP82	**39624**	24	GY9.5	230	3200	150	12500	C-13	46	90	BDTH		15
		FRJ	62	FRJ	CP82	**39628**	24	GY9.5	240	3200	150	12500	C-13	46	90	BDTH		15
		GCV	62	GCV	T18	**39717**	24	GY9.5	230	3050	400	11000	C-13	46	90	BDTH		15

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Stnd. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 11: Halogen, Single-Ended, GY9.5 Oriented 2-Pin (2 OD Pins) (continued)																		
500	T-8	**GCW**	62	GCW	T18	**39629**	24	GY9.5	240	3050	400	11000	C-13	46	90	BDTH		15
		GCV	62	GCV	T25	**39455**	24	GY9.5	230	3000	360	11000	C-13D	46	90	BDTH		15
		GCW	62	GCW	T25	**39262**	24	GY9.5	240	3000	360	11000	C-13D	46	90	BDTH		15
600	T-5	**FMR-Q600T5**	62	FMR	–	**30475**	24	GY9.5	120	3050	2000	12600	CC-8	51	85	BDTHCH		16
650	T-8	**GCT**	62	GCT	T27	**39456**	24	GY9.5	230	3050	400	14500	C-13D	46	90	BDTH		15
		GCS	62	GCS	T27	**39457**	24	GY9.5	240	3050	400	14500	C-13D	46	90	BDTH		15
		FRE	62	FRE	T26	**39630**	24	GY9.5	120	3100	500	15500	C-13	46	90	BDTH		15
		GCT	62	GCT	T26	**39635**	24	GY9.5	230	3100	400	15500	C-13	46	90	BDTH		15
		GCS	62	GCS	T26	**39636**	24	GY9.5	240	3100	400	15500	C-13	46	90	BDTH		15
		FRK-Q650T8	62	FRK	CP89	**39637**	24	GY9.5	120	3200	200	16900	C-13	46	90	BDTH		15
		FRL	62	FRL	CP89	**39640**	24	GZ9.5	230	3200	150	16250	C-13	46	90	BDTH		15
		FRM	62	FRM	CP89	**39642**	24	GZ9.5	240	3200	150	16250	C-13	46	90	BDTH		15
Table 12: Halogen, Single-Ended, GZ9.5 Oriented 2-Pin (2 OD Pins)																		
235	T-4	**Q235T4/3**	62	–	–	**11548**	12	GZ9.5	33	3125	150	6000	CC-6	39	64	BDTHCH	Frosted	
600	G-7	**DYS/DYV/BHC**	62	DYS	A1/264	**32955**	24	GZ9.5	120	3200	75	17000	CC-6	37	64	BDTHCH		17
650	G-7	**DYR**	62	DYR	A1/233	**26896**	24	GZ9.5	220	3200	50	16500	2CC-8	37	64	Any		18
		DYR	62	DYR	A1/233	**26895**	24	GZ9.5	240	3200	50	16500	2CC-8	37	64	Any		18

Lamp stocking color code: EUROPE ONLY, EUROPE and NORTH AMERICA, NORTH AMERICA ONLY

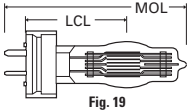


Fig. 19

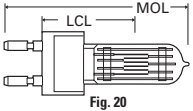


Fig. 20

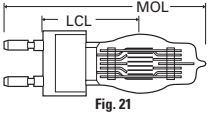


Fig. 21

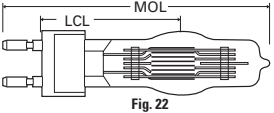


Fig. 22

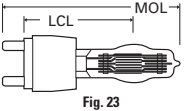


Fig. 23

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Stnd. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 13: Halogen, Single-Ended, GY16 2-Pin Prefocus (16mm Apart)																		
2000	G-13	**FTM**	62	FTM	CP43	**20309**	12	GY16	230	3200	400	54000	C-13	70	145	BDTH		19
		FTL	62	FTL	CP43	**20310**	12	GY16	240	3200	400	54000	C-13	70	145	BDTH		19
		CP79	62		CP79	**90360**	12	GY16	120	3200	350	54000	C-13D	70	145	BDTH		19
		CP79	62		CP79	**30497**	12	GY16	230	3200	350	54000	C-13D	70	145	BDTH		19
		CP79	62		CP79	**30498**	12	GY16	240	3200	350	54000	C-13D	70	145	BDTH		19
Table 14: Halogen, Single-Ended, G22 Medium Bi-post (22mm Apart)																		
500	T-8	**EGN-Q500T8**	62	EGN	–	**30373**	12	G22	120	3200	150	13000	C-13	64	140	BDTH		20
650	T-8	**FKH**	62	FKH	CP39	**20320**	12	G22	230	3200	100	16900	C-13	64	140	BDTH		20
		FKH	62	FKH	CP39	**20321**	12	G22	240	3200	100	16900	C-13	64	140	BDTH		20
750	T-7	**EGR-Q750T7/4CL**	1, 62	EGR	–	**39190**	12	G22	120	3200	200	21000	C-13D	64	127	BDTH		20

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Stnd. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 14: Halogen, Single-Ended, G22 Medium Bi-post (22mm Apart) (continued)																		
1000	T-7	**EGT-Q1000T7/4CL**	1, 62	EGT	–	**39191**	12	G22	120	3200	250	28500	C-13D	64	127	BDTH		20
	T-8	**FKJ**	62	FKJ	CP40	**39655**	12	G22	230	3200	200	26000	C-13	64	140	BDTH		20
		FKJ	62	FKJ	CP40	**20286**	12	G22	240	3200	200	26000	C-13	64	140	BDTH		20
1200	T-8	**OC1200**	62			**91580**	12	G22	80	3300	300	37500	C-13D	64	140	BDTH		20
	G-11	**CP93**	62		CP93	**30384**	12	G22	240	3200	200	33000	C-13D	64	140	BDTH		21
2000	G-13	**CP92**	62		CP92	**30391**	12	G22	120	3200	400	55000	C-13D	90	175	BDTH		22
		CP92	62		CP92	**30394**	12	G22	230	3200	400	52000	C-13D	90	175	BDTH		22
		CP92	62		CP92	**30397**	12	G22	240	3200	400	52000	C-13D	90	175	BDTH		22
2500	G-13	**CP91**	62		CP91	**30415**	12	G22	230	3200	400	67500	C-13D	90	175	BDTH		22
		CP91	62		CP91	**30423**	12	G22	240	3200	400	67500	C-13D	90	175	BDTH		22
Table 15: Halogen, Single-Ended, G38 Mogul Bi-post																		
1000	T-7	**CYV-Q1000T7/ 4CL/BP**	1, 62	CYV	–	**42697**	6	G38	120	3200	200	28500	C-13D	127	203	BDTH		23
1500	T-10	**CXZ-Q1500T10/4CL**	1, 62	CXZ	–	**37564**	6	G38	120	3200	400	44500	C-13	127	216	BDTH		23
2000	T-10	**CYX-Q2000T10/4CL**	1, 62	CYX	–	**36636**	6	G38	120	3200	350	59000	C-13	127	216	BDTH		23
	G-10	**FKK**	62	FKK	CP41	**31844**	12	G38	230	3200	400	54000	C-13	127	216	BDTH		23

Lamp stocking color code: EUROPE ONLY, EUROPE and NORTH AMERICA, NORTH AMERICA ONLY

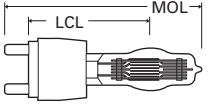


Fig. 23

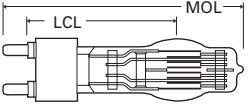


Fig. 24

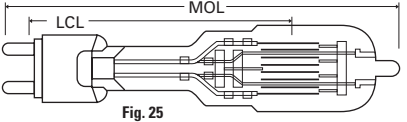


Fig. 25

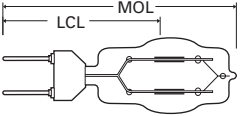


Fig. 28

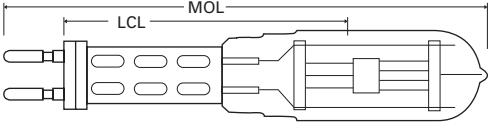


Fig. 26

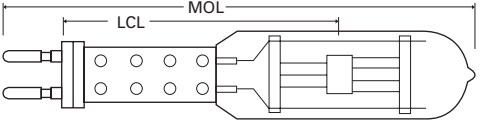


Fig. 27

Table 15: Halogen, Single-Ended, G38 Mogul Bi-post (continued)

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Stnd. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
2000	G-10	**FKK**	62	FKK	CP41	**31849**	12	G38	240	3200	400	54000	C-13	127	216	BDTH		23
	T-8	**BWA-Q2000/4CL/BP**	1, 55, 62	BWA	–	**39587**	6	G38	120	3200	500	54000	CC-8	127	210	BDTH		23
2500	G-13	**CP94**	62		CP94	**30500**	12	G38	240	3200	400	67500	C-13D	127	210	BDTH		23
3000	G-15	**HX48**	62		HX48	**30503**	12	G38	230	3200	400	82000	C-13	127	210	BD45		23
		HX48	62		HX48	**30504**	12	G38	240	3200	400	82000	C-13	127	210	BD45		23
5000	T-20	**DPY-Q5000T20/4CL**	1, 62	DPY	CP29	**41736**	6	G38	120	3200	500	143000	C-13	165	279	BD45		24
	G-20	**CP29**	62		CP29	**30505**	12	G38	230	3200	500	135000	C-13	165	279	BDTH		24

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Stnd. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 15: Halogen, Single-Ended, G38 Mogul Bi-post (continued)																		
5000	G-20	**CP29**	62		CP29	**30506**	12	G38	240	3200	500	135000	C-13	165	279	BDTH		24
	T20	**HX5000**	62			**22959**	6	G38	120	3200	250	147000	Axial	165	280	Any		24
		HX5000/240	62			**71379**	6	G38	240	3200	250	133000	Axial	165	270	Any		24
10000	T-24	**DTY-Q10M/T24/4CL**	1, 62	DTY	–	**24886**	4	G38	120	3200	300	290000	C-13	254	400	BD45		25
	T-27	**CP83**	62		CP83	**12036**	1	G38	230	3200	500	280000	C-13	254	405	BDTH		25
		CP83	62		CP83	**12037**	1	G38	240	3200	500	280000	C-13	254	405	BDTH		25
Table 16: Halogen, Single-Ended, GX38 Mogul Bi-post (38mm Apart)																		
12000	T-26	**Q12MT26/4CL**	62	–	–	**48770**	1	GX38	120	3400	150	420000	C-13	254	410	BD45		26
		Q12MT26/4CL	62	–	–	**48771**	1	GX38	230	3400	130	420000	C-13	254	410	BD45		26
		Q12MT26/4CL	62	–	–	**48779**	1	GX38	240	3400	130	420000	C-13	254	410	BD45		26
20000	T-32	**BCM-Q20MT32/4CL**	62	BCM	–	**48772**	1	GX38	208	3200	400	580000	C-13	354	560	BD45		27
		BCM-Q20MT32/4CL	62	BCM	–	**48773**	1	GX38	230	3200	400	580000	C-13	354	560	BD45		27
		BCM-Q20MT32/4CL	62	BCM	–	**48774**	1	GX38	240	3200	400	580000	C-13	354	560	BD45		27
24000	T-32	**Q24MT32/4CL**	62	–	–	**48776**	1	GX38	230	3400	150	800000	C-13	354	560	BD45		27
		Q24MT32/4CL	62	–	–	**48777**	1	GX38	240	3400	150	800000	C-13	354	560	BD45		27

Lamp stocking color code: EUROPE ONLY, EUROPE and NORTH AMERICA, NORTH AMERICA ONLY

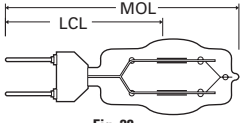


Fig. 28

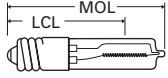


Fig. 29

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Stnd. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 17: Halogen, Single-Ended, GX38Q, High Volt, 2 Filament																		
1250	G-18	**CP105-1250/650**	62		CP105	**34056**	12	GX38q	230	3050	250	27M 13M	2C-13	143	220	BD45		28
		CP105-1250/650	62		CP105	**34024**	12	GX38q	240	3050	250	27M 13M	2C-13	143	220	BD45		28
		CP30-1250/1250	62		CP30	**30513**	12	GX38q	230	3200	300	27M 56M	2C-13	143	220	BD45		28
		CP30-1250/1250	62		CP30	**30514**	12	GX38q	240	3200	300	27M 56M	2C-13	143	220	BD45		28
	G-22	**CP58-1250/2500**	62		CP58	**30517**	12	GX38q	240	3200	300	27M 91M	2C-13	143	220	BD45		28

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Stnd. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 17: Halogen, Single-Ended, GX38Q, High Volt, 2 Filament (continued)																		
2500	G-22	**CP32-2500/2500**	62		CP32	**30518**	12	GX38q	230	3200	300	59M 127M	2C-13	143	220	BD45		28
		CP32-2500/2500	62		CP32	**30519**	12	GX38q	240	3200	300	59M 127M	2C-13	143	220	BD45		28
Table 18: Halogen, Single-Ended, E11 Miniature Candelabra Screw																		
100	T-4	**Q100CL/MC/2V**	62	ESN	–	**44385**	6	E11	120	2950	750	1800	CC-2V	35	71	Any		29
		Q100CL/MC	62	–	–	**15507**	6	E11	120	2950	2000	1600	CC-8	35	71	Any		29
		Q100MC	62	–	–	**16452**	6	E11	120	2950	2000	1550	CC-8	35	71	Any	Frosted	29
150	T-4	**Q150CL/MC**	62	ETG	–	**43694**	6	E11	120	2950	2000	2800	CC-8	35	76	Any		29
		Q150MC	62	ETH	–	**44654**	6	E11	120	2950	2000	2700	CC-8	35	76	Any	Frosted	29
250	T-4	**Q250CL/MC**	62	–	–	**43700**	6	E11	130	2950	2000	5000	CC-8	41	80	Any		29
		Q250CL/MC	62	EHT	–	**43699**	6	E11	120	2950	2000	5000	CC-8	41	80	Any		29
		Q250MC	62	–	–	**43696**	6	E11	130	2950	2000	4850	CC-8	41	80	Any	Frosted	29
		Q250MC	62	ESM	–	**43695**	6	E11	120	2950	2000	4850	CC-8	41	80	Any	Frosted	29
400	T-4	**Q400CL/MC**	62	–	–	**43707**	6	E11	120	2950	2000	8250	CC-8	51	92	Any		29
		Q400MC	62	–	–	**43706**	6	E11	120	2950	2000	7850	CC-8	51	92	Any	Frosted	29

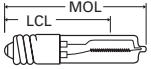


Fig. 29

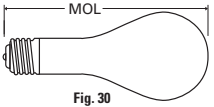


Fig. 30

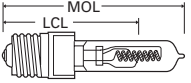


Fig. 31

Fig. 32

Fig. 33

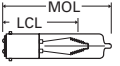


Fig. 34

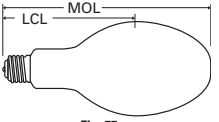


Fig. 77

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Stnd. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 18: Halogen, Single-Ended, E11 Miniature Candelabra Screw (continued)																		
500	T-4	**EVR-Q500CL/MC**	16, 62	EVR	–	**47950**	6	E11	120	2950	2000	10450	CC-8	51	92	Any		29
Table 19: Incandescent, Single-Ended, E26 Medium Screw																		
250	A-21	**BBA (#1)**		BBA	–	**40563**	24	E26	120	3400	3	8000	C-9		125	Any	Frosted	30
		BCA (#B1)	21	BCA	–	**40564**	24	E26	120	4800	3	5000	C-9		125	Any	Frosted	30
	A-23	**ECA**		ECA	–	**40565**	24	E26	120	3200	20	6500	C-9		152	Any	Frosted	30
300	A-21	**BAH**		BAH	–	**40886**	24	E26	115	3200	20	9000	C-9		125	Any	Frosted	30
400	G-30	**400G/FL**		–	–	**21363**	60	E26	120		800	6800	C-5		130	BDTH	Frosted	30
500	PS-25	**EBV (#2)**		EBV	–	**40566**	24	E26	120	3400	6	17000	C-9	133	176	Any	Frosted	30
		EBW (#B2)	21	EBW	–	**40567**	24	E26	120	4800	6	10500	C-9	133	176	Any	Frosted	30
		ECT		ECT	–	**40568**	24	E26	120	3200	60	13650	C-9	133	176	Any	Frosted	30

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Stnd. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 20: Halogen, Single-Ended, E39 Mogul Screw																		
1000	PS-52	**DKZ/DSE-Q1000 PS52/4**	1, 51, 62	DKZ	–	**39582**	12	E39	120	3200	750	28000	CC-8	241	330	Any	Frosted	30
	E37	**DSE-Q1000**	1, 62	DSE		**19926**	10	E39	120	3200	750	28000	CC-8	241	330	Any	Frosted	31
1500	PS-52	**DKX/DSF-Q1500 PS52/4**	1, 51, 62	DKX	–	**40357**	12	E39	120	3200	1000	41000	C-8	241	330	Any	Frosted	30
	E37	**DSF-Q1500**	1, 62	DSF		**19927**	10	E39	120	3200	1000	41000	C-8	241	330	Any	Frosted	31
2000	T-8	**BWF-Q2000/4CL**	62	BWF	–	**37086**	6	E39	120	3200	500	54000	CC-8	133	191	Any		31
	T-10	**CP59**	62	CP59		**29426**	12	E39	240	3200	300	50000	CC-8	133	191	Any		31
Table 21: Halogen/Incandescent, Single-Ended, BA15d Double Contact Bayonet																		
30	S-11	**BLC**		BLC	–	**29140**	120	BA15d	120	2775	50	400	CC-2V	35	60	Any		32
50	S-11	**BLX**		BLX	–	**29156**	120	BA15d	120	2850	50	780	CC-2V	44	60	BDTH		32
	T-8	**CAX**		CAX	–	**29171**	24	BA15d	120	2875	50	775	CC-2V	35	79	BD30		33
75	T-8	**CBX/CBS**	20	CBX	–	**29208**	24	BA15d	120	2925	50	1200	CC-13	35	79	BD30		33
100	T-8	**CDJ**		CDJ	–	**29266**	24	BA15d	120	2975	50	2000	CC-2V	35	79	BD30		33
		CEB		CEB	–	**29244**	24	BA15d	120	2975	50	1850	CC-13	35	79	BD30		33
	T-4	**Q100CL/DC/2V**	62	ESR	–	**44386**	6	BA15d	120	2950	750	1800	CC-2V	35	62	Any		34

Lamp stocking color code: EUROPE ONLY, EUROPE and NORTH AMERICA, NORTH AMERICA ONLY

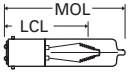


Fig. 34

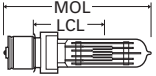


Fig. 35

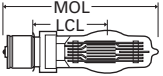


Fig. 36

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Stnd. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 21: Halogen/Incandescent, Single-Ended, BA15d Double Contact Bayonet (continued)																		
100	T-4	**Q100CL/DC**	62	–	–	**15508**	6	BA15d	120	2950	2000	1600	CC-8	35	62	Any		34
		Q100DC	62	–		**16451**	6	BA15d	120	2950	2000	1550	CC-8	35	62	Any	Frosted	34
150	T-4	**Q150CL/DC/2V**	62	ESP	–	**44384**	6	BA15d	120	2950	1000	2800	CC-2V	35	62	Any		34
		Q150CL/DC	62	ETC	–	**43693**	6	BA15d	120	2950	2000	2800	CC-8	35	62	Any		34
		Q150DC	62	ETF	–	**44653**	6	BA15d	120	2950	2000	2700	CC-8	35	62	Any	Frosted	34
200	T-4	**FEV-Q200/4CL/DC**	62	FEV	–	**14119**	6	BA15d	120	3200	50	5500	CC-2V	35	62	Any		34
250	T-4	**Q250CL/DC**	62	ESS	–	**43697**	6	BA15d	120	2950	2000	5000	CC-8	41	76	Any		34
		Q250CL/DC	62	–	–	**43698**	6	BA15d	130	2950	2000	5000	CC-8	41	76	Any		34
		Q250DC	62	ETB	–	**43701**	6	BA15d	120	2950	2000	4850	CC-8	41	76	Any	Frosted	34
		Q250DC	62	–	–	**43702**	6	BA15d	130	2950	2000	4850	CC-8	41	76	Any	Frosted	34
500	T-4	**Q500CL/DC**	62	–	–	**43710**	6	BA15d	120	2950	2000	10450	CC-8	54	87	Any		34
		Q500DC	62	–	–	**43709**	6	BA15d	120	2950	2000	10100	CC-8	54	87	Any	Frosted	34

Table 22: Halogen/Incandescent, Single-Ended, P28s Medium Prefocus

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Stnd. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
500	T-6	**BTL-Q500T6/CL/P**	62	BTL	T17	**11966**	12	P28s	120	3000	500	11000	C-13	55	133	BDTH		35
		BTM-Q500T6/ 4CL/2P	62	BTM	–	**16465**	12	P28s	120	3200	150	13000	C-13	55	130	BDTH		35
		FKF	62	FKF	T17	**30535**	12	P28s	230	2950	750	9500	C-13	55	130	BDTH		35
		T17	62		T17	**30536**	12	P28s	240	2950	750	9500	C-13	55	130	BDTH		35
		T28	62		T28	**39731**	12	P28s	230	3000	300	11000	C-13	55	130	BDTH		35
		T28	62		T28	**39733**	12	P28s	240	3000	300	11000	C-13	55	130	BDTH		35
650	T-8	**FKB**	62	FKB	T13	**30541**	12	P28s	230	3000	750	13500	C-13	55	130	BDTH		35
		T13	62		T13	**30542**	12	P28s	240	3000	750	13500	C-13	55	130	BDTH		35
		CP51	62		CP51	**20324**	12	P28s	240	3200	200	16900	C-13	55	130	BDTH		35
750	T-7	**BTN-Q750T7/CL/2P**	1, 62	BTN	–	**11953**	12	P28s	120	3050	500	17600	C-13D	55	121	BD30		35
		BTP-Q750T7/4CL/2P	1, 62	BTP	–	**11954**	12	P28s	120	3200	200	21000	C-13D	55	121	BD30		35
1000	T-7	**BTR-Q1000T7/ 4CL/2P**	1, 62	BTR	–	**11955**	12	P28s	120	3200	250	28500	C-13D	55	121	BD30		35
	G-11	**FKD**	62	FKD	T14	**20385**	12	P28s	230	3050	750	23000	C-13D	55	130	BDTH		36
		T14	62		T14	**20388**	12	P28s	240	3050	750	23000	C-13D	55	130	BDTH		36

Lamp stocking color code: EUROPE ONLY, EUROPE and NORTH AMERICA, NORTH AMERICA ONLY

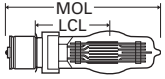


Fig. 36

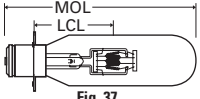


Fig. 37

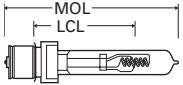


Fig. 38

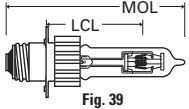


Fig. 39

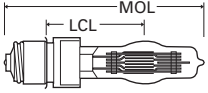


Fig. 40

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Stnd. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 22: Halogen/Incandescent, Single-Ended, P28s Medium Prefocus (continued)																		
1000	G-11	**FKN**	62	FKN	CP52	**30546**	12	P28s	240	3200	200	26000	C-13D	55	121	BDTH		36
	T-20	**DRS**		DRS	A1/58	**29947**	24	P28s	120	3325	25	28500	C-13D	55	146	BD30		37
		DRB		DRB	–	**29968**	24	P28s	120	3350	25	32000	C-13	55	146	BD30		37
Table 23: Halogen, Single-Ended, P28s with CC-8 Coil																		
500	T-4	**EGE-Q500CL/P**	62	EGE	–	**39135**	12	P28s	120	2950	2000	10450	CC-8	89	152	Any		38
		EGC-Q500/5CL/P	62	EGC	–	**39134**	12	P28s	120	3150	500	12700	CC-8	89	152	Any		38
750	T-6	**EGG-Q750CL/P**	62	EGG	–	**39137**	12	P28s	120	3000	2000	15750	CC-8	89	152	Any		38
		EGF-Q750/4CL/P	62	EGF	–	**39136**	12	P28s	120	3200	300	20400	CC-8	89	152	Any		38
1000	T-6	**EGJ-Q1000/4/CL/P**	62	EGJ	–	**38853**	12	P28s	120	3200	300	27500	CC-8	89	152	Any		38
		EGK-Q1000/4/P	62	EGK	–	**38852**	12	P28s	120	3200	300	26500	CC-8	89	152	Any	Frosted	38
		EGM-Q1000CL/P	62	EGM	–	**39138**	12	P28s	120	3000	2000	21500	CC-8	89	152	Any		38

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Stnd. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila- ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 23: Halogen, Single-Ended, P28s with CC-8 Coil (continued)																		
1000	T-6	**EWE**	62	EWE	–	**30534**	12	P28s	240	3200	250	26500	CC-8	89	152	BDTH		38
	G-11	**FKE**	62	FKE	T15	**30532**	12	P28s	240	3050	750	23000	C-13	89	160	BDTH		36
Table 24: Halogen, Single-Ended, P40 Mogul Prefocus																		
1000	T-7	**BVT-Q1000T7/ CL/MP**	1, 62	BVT	–	**12554**	6	P40s	120	3050	500	24500	C-13D	100	184	BDTH		39
		BVV-Q1000T7/ 4CL/MP	1, 62	BVV	–	**12553**	6	P40s	120	3200	200	28500	C-13D	100	184	BDTH		39
	G-11	**T16**	62		T16	**30521**	12	P40s	240	3050	750	23000	C-13	87	180	BDTH		40
1500	T-8	**DTA-Q1500T8/4CL**	62	DTA	–	**30522**	6	P40s	120	3200	300	41000	C-13D	87	200	BDTH		39
2000	T-10	**BVW-Q2000T10/ 4CL/MP**	62	BVW	CP53	**12555**	6	P40s	120	3200	350	59000	C-13	100	215	BDTH		39
	G-13	**CP53**	62		CP53	**20311**	12	P40s	230	3200	400	54000	C-13	87	200	BDTH		40
		CP53	62		CP53	**20312**	12	P40s	240	3200	400	54000	C-13	87	200	BDTH		40

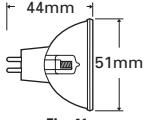


Fig. 41

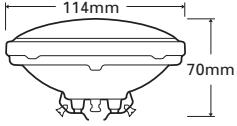


Fig. 42

Watts	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Volts	Product Order Code	Stnd. Pack Qty.	Base	Design Color Temp (K)	Rated Life (hrs)	Beam Descr.	Beam Spread [5] (degrees)	Beam Angle [3] (degrees)	Approx. CP [6]	Burning Position	Fig. No.
Table 25: MR16 (2" Reflector)																
50	**EFM BULK 50PK**	63	EFM		8	**21276**	50	GX5.3	3300	50					Any	41
75	**EFN**	63	EFN		12	**21277**	50	GX5.3	3350	50					Any	41
100	**EFP BULK 50PK**	63	EFP		12	**21278**	50	GX5.3	3350	50					Any	41
	EXV	63	EXV		12	**12003**	20	GX5.3	3350	50				3100	Any	41
150	**EFR**	63	EFR		15	**21279**	50	GX5.3	3350	50					Any	41
	EZK	63	EZK	–	120	**15477**	20	GY5.3	3200	200				3600	Any	41
250	**ENH**	63	ENH	–	120	**38686**	20	GY5.3	3250	175				11700	BDTH	41
	EXX	63	EXX	–	120	**11750**	20	GY5.3	3300	25				6750	Any	41
	ELC	63	ELC		24	**37462**	20	G5.3	3400	50					Any	41
	ELC/500	18, 63	ELC		24	**15377**	20	G5.3	3350	500					Any	41

Table 26: PAR36 (4.5" Reflector)

Watts	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Volts	Product Order Code	Stnd. Pack Qty.	Base	Design Color Temp (K)	Rated Life (hrs)	Beam Descr.	Beam Spread [5] (degrees)	Beam Angle [3] (degrees)	Approx. CP [6]	Burning Position	Fig. No.
25	**25PAR36**	12			5.5	**14553**	12	Scr. Term.	3000	1000	VNSP		5	19700	Any	42
	25PAR36NSP	12	–	–	12	**14554**	12	Scr. Term.		2000	NSP		9	2600	Any	42
	25PAR36WFL	12	–	–	12	**14555**	12	Scr. Term.		2000	WFL	49 X 41	37 X 26	360	Any	42
	25PAR36/VWFL	12	–	–	12	**14556**	12	Scr. Term.		2000	VWFL		55	160	Any	42
30	**H4515**	12, 307	–	–	6.4	**15133**	12	Scr. Term.		100	VNSP	5.5 X 4		67000	Any	42
	4515	12	–	–	6.4	**24673**	12	Scr. Term.		100	VNSP	5 X 5		55000	Any	42
	4405	12	–	–	12.8	**24425**	12	Scr. Term.		100	VNSP	6 X 5		50000	Any	42
	H4405	12, 307	–	–	12.8	**15129**	12	Scr. Term.		100	VNSP	7 X 4		66000	Any	42
35	**35PAR36/H/SP5**	307	–	–	12	**19873**	12	Scr. Term.	3050	4000	VNSP		5	25000	Any	42
	35PAR36/H/FL30	307	–	–	12	**19877**	12	Scr. Term.	3050	4000	WFL		30	900	Any	42
	35PAR36/H/SP8	307	–	–	12	**19876**	12	Scr. Term.	3050	4000	NSP		8	20000	Any	42
37.5	**H7616**	307	–	–	12.8	**42838**	12	Scr. Term.		300	VNSP	7 X 4		70000	Any	42
50	**50PAR36/H/SP8**	307	–	–	12	**19879**	12	Scr. Term.	3050	4000	NSP		8	30000	Any	42
	50PAR36/H/SP5	307	–	–	12	**19878**	12	Scr. Term.	3050	4000	VNSP		5	35000	Any	42
	50PAR36/H/FL30	307	–	–	12	**19880**	12	Scr. Term.	3050	4000	WFL		30	1300	Any	42
	50PAR36VNSP	12	–	–	12	**12892**	12	Scr. Term.		2000	VNSP		6	19000	Any	42
	50PAR36NSP	12	–	–	12	**16540**	12	Scr. Term.		2000	NSP		10	11000	Any	42

Lamp stocking color code: EUROPE ONLY, EUROPE and NORTH AMERICA, NORTH AMERICA ONLY

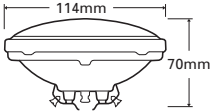


Fig. 42

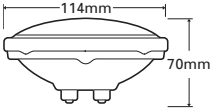


Fig. 43

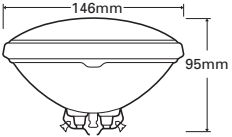


Fig. 44

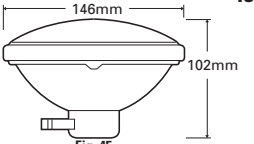


Fig. 45

Table 26: PAR36 (4.5" Reflector) (continued)

Watts	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Volts	Product Order Code	Stnd. Pack Qty.	Base	Design Color Temp (K)	Rated Life (hrs)	Beam Descr.	Beam Spread [5] (degrees)	Beam Angle [3] (degrees)	Approx. CP [6]	Burning Position	Fig. No.
50	**50PAR36WFL**	12	–	–	12	**16541**	12	Scr. Term.		2000	WFL	48 X 41	36 X 28	900	Any	42
	50PAR36WFL/4	12	–	–	12	**11468**	12	Scr. Term.		4000	WFL	48 X 41	36 X 28	720	Any	42
	50PAR36VWFL		–	–	12	**16542**	12	Scr. Term.		2000	VWFL		55	600	Any	42
	H7604	307	–	–	12.8	**43576**	12	Scr. Term.		100	VNSP	7 X 5		100000	Any	42
	4505		–	–	28	**24640**	12	Scr. Term.		400	VNSP	11 X 5		45000	Any	42
100	**4509**		–	–	13	**24650**	12	Scr. Term.		25	VNSP	12 X 6		110000	Any	42
	4509X	12	–	–	13	**41503**	12	Scr. Term.		25	VNSP	12 X 6		110000	Any	42
	4595		–	–	28	**24892**	12	Scr. Term.		300	VNSP	14 X 6		60000	Any	42
	4591		–	–	28	**24882**	12	Scr. Term.		25	VNSP	12 X 6		90000	Any	42
	4594		–	–	28	**24891**	12	Scr. Term.		300	VNSP	13 X 7		70000	Any	42
650	**DWE-Q650PAR36/1**	63	DWE	–	120	**41667**	12	Scr. Term.	3200	100	MFL		40 X 30	24000	H15	42
	FAY-Q650PAR36/3D	63	FAY	–	120	**41668**	12	Ferrule	5000	30	SP		25 X 15	36000	H15	43

Watts	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Volts	Product Order Code	Stnd. Pack Qty.	Base	Design Color Temp (K)	Rated Life (hrs)	Beam Descr.	Beam Spread [5] (degrees)	Beam Angle [3] (degrees)	Approx. CP [6]	Burning Position	Fig. No.
Table 26: PAR36 (4.5" Reflector) (continued)																
650	**FBE-Q650PAR36/5D**	63	FBE	–	120	**41669**	12	Scr. Term.	5000	30	SP		25 X 15	36000	H15	42
	FBO-Q650PAR36/5	63	FBO	–	120	**41671**	12	Scr. Term.	3400	30	SP		25 X 15	67000	H15	42
	FCW-Q650PAR36/6	63	FCW	–	120	**41672**	12	Ferrule	3200	100	FL		60 X 55	9000	H15	43
	FCX-Q650PAR36/7	63	FCX	–	120	**41673**	12	Ferrule	3200	100	MFL		40 X 30	24000	H15	43
Table 27: PAR46 (5.75" Reflector)																
25	**25PAR46**	12	–	–	5.5	**14562**	12	Scr. Term.		1000	VNSP	5.5 X 4.5		55000	Any	44
30	**4535**	12	–	–	6.4	**24735**	12	Scr. Term.		100	VNSP	5.5 X 4		95000	Any	44
	4435	12	–	–	12.8	**24577**	12	Scr. Term.		100	VNSP	5 X 5		75000	Any	44
35	**4436**		–	–	12.8	**24582**	12	Scr. Term.		300	VNSP	10 X 4		60000	Any	44
50	**H7635**	307	–	–	12.8	**43591**	12	Scr. Term.		100	VNSP	6.5 X 4		160000	Any	44
150	**150PAR46/1**	64	–	–	32	**19512**	12	Scr. Term.		800	VNSP	9 X 9		100000	Any	44
	150PAR46/3MFL	64	–	–	125	**41968**	12	MSP	2750	2000	MFL	39 X 25	26 X 13	8000	Any	45
200	**200PAR46/3NSP**	64	–	–	120	**20115**	12	MSP	2750	2000	NSP	23 X 19	12 X 8	31000	Any	45
	200PAR46/3NSP	64	–	–	130	**20117**	12	MSP	2750	2000	NSP	23 X 19	12 X 8	31000	Any	45
	200PAR46/3MFL	64	–	–	120	**20138**	12	MSP	2750	2000	MFL	40 X 24	27 X 13	11500	Any	45
	200PAR46/3MFL	64	–	–	130	**20140**	12	MSP	2750	2000	MFL	40 X 24	12 X 13	11500	Any	45
250	**4553**		–	–	28	**24799**	12	Scr. Term.		25	VNSP	11 X 12		300000	Any	44

Lamp stocking color code: EUROPE ONLY, EUROPE and NORTH AMERICA, NORTH AMERICA ONLY

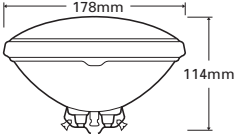


Fig. 46

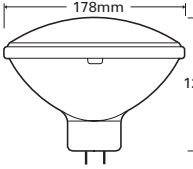


Fig. 47

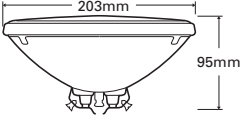


Fig. 48

Watts	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Volts	Product Order Code	Stnd. Pack Qty.	Base	Design Color Temp (K)	Rated Life (hrs)	Beam Descr.	Beam Spread [5] (degrees)	Beam Angle [3] (degrees)	Approx. CP [6]	Burning Position	Fig. No.
Table 28: PAR56 (7" Reflector)																
100	**4545**		–	–	12	**24768**	12	Scr. Term.		100	VNSP	9 X 5		225000	Any	46
	4543		–	–	12.5	**24764**	12	Scr. Term.		50	VNSP	9 X 5		225000	Any	46
120	**120PAR56/VNSP**	64	–	–	12	**19023**	12	Scr. Term.		2000	VNSP	15 X 10	8 X 6	60000	Any	46
	120PAR56/MFL	64	–	–	12	**19024**	12	Scr. Term.		2000	MFL	29 X 15	18 X 9	19000	Any	46
	120PAR56/WFL	64	–	–	12	**19025**	12	Scr. Term.		2000	WFL	50 X 25	35 X 18	5625	Any	46
200	**200PAR**		–	–	30	**20122**	12	Scr. Term.		350	VNSP	9 X 9		230000	Any	46
	200PAR56/MFL	64	–	–	120	**49889**	12	MEP	2750	2000	MFL	34 X 22	22 X 13	15000	Any	47
240	**240PAR56/VNSP**		–	–	12	**20575**	12	Scr. Term.		2000	VNSP	17 X 10	9 X 6	140000	Any	46
	240PAR56/MFL		–	–	12	**20576**	12	Scr. Term.		2000	MFL	28 X 15	19 X 8	46000	Any	46
	240PAR56/WFL		–	–	12	**20577**	12	Scr. Term.		2000	WFL	50 x 27	35 x 18	13000	Any	46

Watts	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Volts	Product Order Code	Stnd. Pack Qty.	Base	Design Color Temp (K)	Rated Life (hrs)	Beam Descr.	Beam Spread [5] (degrees)	Beam Angle [3] (degrees)	Approx. CP [6]	Burning Position	Fig. No.
Table 28: PAR56 (7" Reflector) (continued)																
300	**300PAR56/NSP**	64	–	–	120	**20803**	12	MEP	2750	2000	NSP	20 X 14	10 X 8	68000	Any	47
	300PAR56/MFL	64	–	–	120	**20836**	12	MEP	2750	2000	MFL	34 X 19	23 X 11	24000	Any	47
	300PAR56/WFL	64	–	–	120	**20849**	12	MEP	2750	2000	WFL	57 X 27	37 X 18	11000	Any	47
	300PAR/WFL	64	–	–	130	**20851**	12	MEP	2750	2000	WFL	57 X 27	37 X 18	11000	Any	47
	300PAR/NSP	64	–	–	230	**20853**	12	MEP		2000	NSP			40000	Any	47
	300PAR/MFL	64			230	**20852**	12	MEP		2000	MFL			30000	Any	47
	300PAR/WFL	64			230	**20854**	12	MEP		2000	WFL			10000	Any	47
	300PAR/MFL	64			240	**18677**	12	MEP		2000	MFL			30000	Any	47
	300PAR/NSP	64			240	**18676**	12	MEP		2000	NSP			40000	Any	47
	300PAR/WFL	64			240	**18678**	12	MEP		2000	WFL			10000	Any	47
450	**4541**		–	–	28	**24756**	12	Scr. Term.		25	NSP	15 X 11		470000	Any	46
500	**Q500PAR56NSP**	63	–	–	120	**43494**	6	MEP	2950	4000	NSP	32 X 15	13 X 8	96000	Any	47
	Q500PAR56MFL	63	–	–	120	**43495**	6	MEP	2950	4000	MFL	42 X 20	26 X 10	43000	Any	47
	Q500PAR50WFL	63	–	–	120	**43496**	6	MEP	2950	4000	WFL	66 X 34	44 X 20	19000	Any	47
Table 29: PAR64 (8" Reflector)																
120	**120PAR**	12	–	–	6	**39395**	12	Scr. Term.		3000	VNSP	9 X 5		180000	Any	48
250	**4552**		–	–	28	**40576**	12	Scr. Term.		25	VNSP	8 X 7		50000	Any	48

Lamp stocking color code: EUROPE ONLY, EUROPE and NORTH AMERICA, NORTH AMERICA ONLY

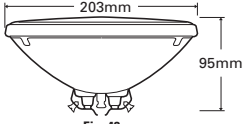


Fig. 48

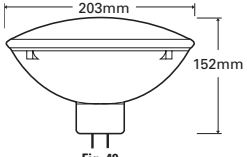


Fig. 49

Watts	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Volts	Product Order Code	Stnd. Pack Qty.	Base	Design Color Temp (K)	Rated Life (hrs)	Beam Descr.	Beam Spread [5] (degrees)	Beam Angle [3] (degrees)	Approx. CP [6]	Burning Position	Fig. No.
Table 29: PAR64 (8" Reflector) (continued)																
600	**4559**		–	–	28	**40578**	12	Scr. Term.		25	VNSP	11 X 12		600000	Any	48
	Q4559	63	–	–	28	**40579**	12	Scr. Term.		100	VNSP	12 X 8		600000	Any	48
	Q4559X	63	–	–	28	**42552**	12	Scr. Term.		100	VNSP	11 X 7.5		765000	Any	48
500	**500PAR64/NSP**	64	–	–	120	**39406**	12	EMEP	2800	2000	NSP	19 X 14	12 X 7	110000	Any	49
	500PAR64/MFL	64	–	–	120	**39409**	12	EMEP	2800	2000	MFL	35 X 19	23 X 11	37000	Any	49
	500PAR64/WFL	64	–	–	120	**39412**	12	EMEP	2800	2000	WFL	55 X 32	42 X 20	13000	Any	49
	500/PAR64/MFL	64	–	–	230	**39411**	12	EMEP	2700	2000	WFL	32 X 19	21 X 10		Any	49
	500/PAR64/WFL	64	–	–	230	**39414**	12	EMEP	2700	2000	WFL	55 X 32	42 X 20		Any	49
	Q500PAR64/VNSP	63		CP86	230	**25492**	6	EMEP	3200	300	VNSP	16 X 13	10 X 7	240000	Any	49
	Q500PAR64/VNSP	63		CP86	240	**25493**	6	EMEP	3200	300	VNSP	16 X 13	10 X 7	240000	Any	49
	Q500PAR64/NSP	63		CP87	230	**25504**	6	EMEP	3200	300	NSP	19 X 16	11 X 9	140000	Any	49

Table 29: PAR64 (8" Reflector) (continued)

Watts	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Volts	Product Order Code	Stnd. Pack Qty.	Base	Design Color Temp (K)	Rated Life (hrs)	Beam Descr.	Beam Spread [5] (degrees)	Beam Angle [3] (degrees)	Approx. CP [6]	Burning Position	Fig. No.
500	**Q500PAR64/NSP**	63		CP87	240	**25507**	6	EMEP	3200	300	NSP	19 X 16	11 X 9	140000	Any	49
	Q500PAR64/MFL	63		CP88	230	**25513**	6	EMEP	3200	300	MFL	32 X 19	21 X 10	65000	Any	49
	Q500PAR64/MFL	63		CP88	240	**25520**	6	EMEP	3200	300	MFL	32 X 19	21 X 10	65000	Any	49
1000	**Q1000PAR64NSP**	63	–	–	120	**43497**	6	EMEP	3000	4000	NSP	31 X 14	15 X 8	200000	Any	49
	Q1000PAR64MFL	63	–	–	120	**43498**	6	EMEP	3000	4000	MFL	45 X 22	28 X 12	80000	Any	49
	Q1000PAR64WFL	63	–	–	120	**43499**	6	EMEP	3000	4000	WFL	72 X 45	48 X 24	33000	Any	49
	FFN-Q1000PAR64/1	63	FFN		120	**13233**	6	EMEP	3200	800	VNSP	24 X 10	12 X 6	400000	Any	49
	FFP-Q1000PAR64/2	63	FFP		120	**13229**	6	EMEP	3200	800	NSP	26 X 14	14 X 7	330000	Any	49
	FFR-Q1000PAR64/5	63	FFR		120	**13228**	6	EMEP	3200	800	MFL	44 X 21	28 X 12	125000	Any	49
	FFS-Q1000PAR64/6	63	FFS		120	**13227**	6	EMEP	3200	800	WFL	71 X 45	48 X 24	40000	Any	49
	FGM-Q1000PAR64/3D	63	FGM		120	**13226**	6	EMEP	5200	200	NSP	24 X 12	13 X 6	200000	Any	49
	FGN-Q1000PAR64/7D	63	FGN		120	**13225**	6	EMEP	5200	200	MFL	43 X 20	27 X 11	70000	Any	49
	EXC-Q1MPAR64CP60	63	EXC	CP60	230	**93409**	6	EMEP	3200	300	VNSP	20 X 17	12 X 9	352000	Any	49
	EXC-Q1MPAR64CP60	63	EXC	CP60	240	**10925**	6	EMEP	3200	300	VNSP	20 X 17	12 X 9	352000	Any	49
	EXD-Q1MPAR64CP61	63	EXD	CP61	230	**10928**	6	EMEP	3200	300	NSP	22 X 20	14 X 10	297000	Any	49
	EXD-Q1MPAR64CP61	63	EXD	CP61	240	**10929**	6	EMEP	3200	300	NSP	22 X 20	14 X 10	297000	Any	49
	EXE-Q1MPAR64CP62	63	EXE	CP62	230	**10930**	6	EMEP	3200	300	MFL	38 X 20	24 X 11	138000	Any	49

Lamp stocking color code: EUROPE ONLY, EUROPE and NORTH AMERICA, NORTH AMERICA ONLY

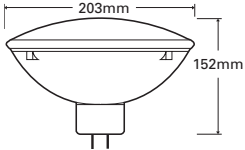
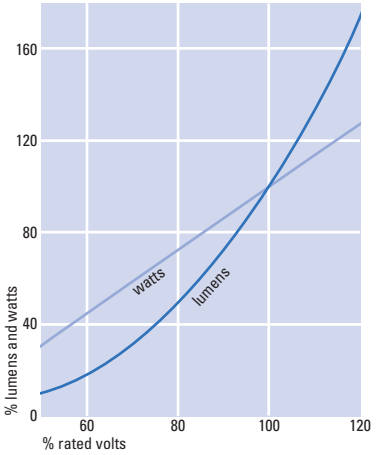


Fig. 49

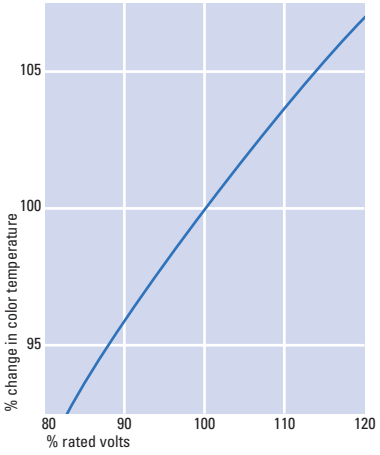
Watts	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Volts	Product Order Code	Stnd. Pack Qty.	Base	Design Color Temp (K)	Rated Life (hrs)	Beam Descr.	Beam Spread [5] (degrees)	Beam Angle [3] (degrees)	Approx. CP [6]	Burning Position	Fig. No.
Table 29: PAR64 (8" Reflector) (continued)																
1000	**EXE-Q1MPAR64CP62**	63	EXE	CP62	240	**10931**	6	EMEP	3200	300	MFL	38 X 20	24 X 11	138000	Any	49
	EXG/PAR64/WFL	63	EXG		230	**35482**	6	EMEP	3200	300	WFL	73 X 36	57 X 21	38000	Any	49
	EXG/PAR64/WFL	63	EXG		240	**35483**	6	EMEP	3200	300	WFL	73 X 36	57 X 21	38000	Any	49
	CP95	63		CP95	230	**30277**	6	EMEP	3200	300		125 X 95	70 X 70	15000	Any	49
	CP95	63		CP95	240	**30278**	6	EMEP	3200	300		125 X 95	70 X 70	15000	Any	49
1200	**GFC-Q1200PAR64/1**	63	GFC	–	120	**34808**	6	EMEP	3200	400	VNSP	14 x 16	8 x 10	540000	Any	49
	GFB-Q1200PAR64/2	63	GFB	–	120	**34810**	6	EMEP	3200	400	NSP	16 X 18	8 X 10	450000	Any	49
	GFA-Q1200PAR64/5	63	GFA	–	120	**34812**	6	EMEP	3200	400	MFL	22 X 36	13 X 24	160000	Any	49

Lamp stocking color code: EUROPE ONLY, EUROPE and NORTH AMERICA, NORTH AMERICA ONLY

Variation of Light Output and Wattage with Applied Voltage for a Typical Studio Lamp

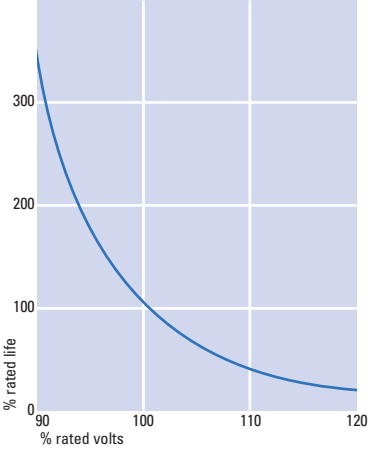


Color Temperature Variation with Voltage for a Typical Studio Lamp



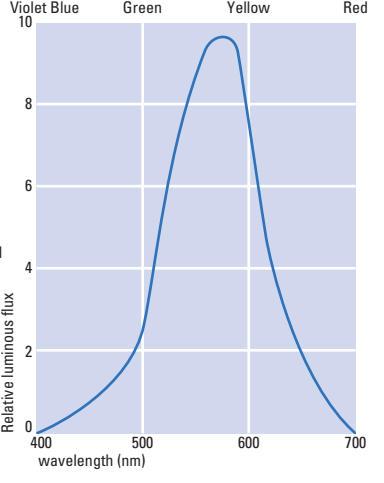
QUARTZLINE® HALOGEN LAMP PERFORMANCE (CONTINUED)

Typical Life Variation Against Operation Voltage



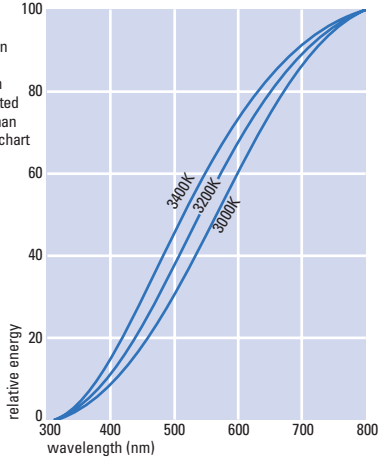
Spectral Distribution of Luminous Flux (Lumens) for Typical Theater and Studio Lamp

Calculations of lamp life achievement taken from this graph should be considered strictly theoretical as the life factor is considerably influenced by frequency of switching, environment, vibration, handling, cleaning, etc. This graph is based on the average achievement of numerous lamp tests, and thus should be used as an approximate guide to performance.



Total Spectral Energy Distribution of Typical Studio Lamp

Spectral energy distribution can be shown in absolute terms whereas radiation in terms of visible light is related to the response of the human eye. (Spectral distribution chart on previous page).



Operating Temperature of Tungsten Halogen

Studio Lamps

The following maximum and minimum temperatures are suggested for optimum life. Operation outside these figures will not necessarily cause immediate failure but will affect life adversely to an increasing extent.

Seal: 500°C Maximum
Above this figure the sealing foil oxidises at a rate increasing with temperature and is frequently the cause of short life due to seal failure.

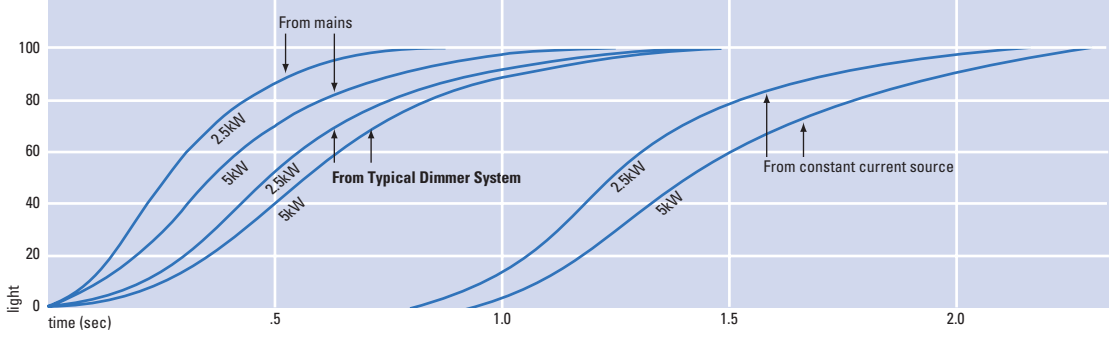
Bulb: 250° – 800°C
Outside this range the halogen cycle becomes less efficient and blackening may occur. Temperatures above 1200°C will cause the bulb to soften.

Pins: 350°C Maximum
Above this figure the plating on the pins may lose adhesion and the contact will deteriorate. Such

QUARTZLINE® HALOGEN LAMP PERFORMANCE (CONTINUED)

deterioration may form local hot spots which rapidly worsen and may result in arcing and irrepairable damage to both lamp and holder. Should signs of this be evident on removal of a failed lamp, it is important that a good contact is restored by replacing the lampholder before the next lamp is fitted. Otherwise the new lamp will rapidly fail in a similar manner.

Turn On Time of Studio Lamps



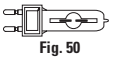


Fig. 50

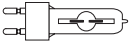


Fig. 51


Fig. 75


Fig. 76

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	Product Code	Stnd. Pack Qty.	Base	Volts	Initial Design Lumens	Design Color Temp (K)	Color CRI Index	CIE Color x y	Arc Length (mm)	Rated Life (hrs)	LCL (mm)	MOL (mm)	Burn Position	Fig. No.
Table 30: Discharge-CSR/CSD (Daylight) Metal Halide, Single-Ended Cold Start																	
250	T7	**CSD250/2/SE**	14, 63	**27817**	10	GY9.5	94	18000	9000	60+	.287 .296	5.5	3000	55	108	Any	50
575	T9	**CSR575/2/T/SE**	14, 63	**49492**	10	GX9.5	97	42000	7200	65+	.301 .302	7	1000	65	125	Any	50
		CSR575/2/SE	14, 63	**15378**	10	GX9.5	97	46000	7200	65+	.302 .320	7	1000	65	125	Any	50
700	T9	**CSR700/2/SE**	14, 63	**49491**	10	G22	70	55000	7200	70+	.312 .325	7.5	1000	75	155	Any	51
1200	T12	**CSR1200/2/SE**	14, 63	**49490**	6	G22	100	110000	7200	75+	.305 .315	10	800	85	175	Any	51
Table 31: Discharge-CSR (Daylight) Metal Halide, Single-Ended Short Arc																	
700	G7	**CSR700/SA**	14, 63	**15380**	10	GY9.5	70	58000	5600	70+	.330 .342	4.3	500	39	85	Any	75
		CSR700/SA/72	14, 63	**45234**	10	GY9.5	70	58000	7200	70+	.330 .342	4.3	500	39	85	Any	75
1200	G9	**CSR1200/SA**	14, 18, 63	**21849**	6	GY22	100	96000	5800	75+	.326 .330	7.5	750	59	135	Any	76
1800	G9	**CSR2000/SA**	14, 18, 63	**21801**	6	GY22	100	155000	6000	75+	.323 .329	7.5	750	59	135	Any	76
Table 32: Discharge-CSR (Daylight) Metal Halide, Single-Ended Hot Restrike																	
125	T5	**CSR125/SE/HR**	14, 63	**48461**	10	GZX9.5	80	9400	5600	90+	.323 .328	4	200	39	75	Any	50
200	T6	**CSR200/SE/HR**	14, 63	**48462**	10	GZY9.5	70	15000	5600	90+	.323 .328	5	200	39	80	Any	50
400	T7	**CSR400/SE/HR/75**	14, 63	**45238**	10	GZZ9.5	70	28000	7500	70+	.323 .320	5	1500	60	110	Any	50
		CSR400/SE/HR	14, 18, 63	**21853**	10	GZZ9.5	70	32000	6000	85+	.323 .320	6.5	750	60	110	Any	50

Lamp stocking color code: EUROPE ONLY, EUROPE and NORTH AMERICA, NORTH AMERICA ONLY

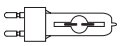


Fig. 51

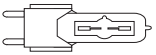


Fig. 52

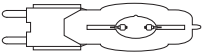


Fig. 53

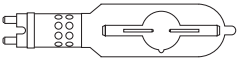


Fig. 54


Fig. 55


Fig. 56


Fig. 57

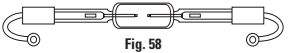


Fig. 58


Fig. 59

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	Product Code	Stnd. Pack Qty.	Base	Volts	Initial Design Lumens	Design Color Temp (K)	Color CRI Index	CIE Color x	CIE Color y	Arc Length (mm)	Rated Life (hrs)	LCL (mm)	MOL (mm)	Burn Position	Fig. No.
Table 32: Discharge-CSR (Daylight) Metal Halide, Single-Ended Hot Restrike (continued)																		
575	T9.5	**CSR575/SE/HR**	14, 63	**48463**	10	G22	95	48000	6000	90+	.323	.328	7	750	70	145	Any	51
1200	T13	**CSR1200/SE/HR**	14, 63	**48464**	6	G38	100	110000	6000	90+	.323	.328	10	750	107	200	Any	52
2500	T19.5	**CSR2500/SE/HR**	14, 63	**48465**	6	G38	115	220000	6000	90+	.323	.328	14	500	127	240	Any	53
4000	T24	**CSR4000/SE/HR**	14, 63	**48466**	6	G38	200	380000	6000	90+	.323	.328	24	500	142	260	Any	53
6000	T26.5	**CSR6000/SE/HR**	14, 63	**48467**	6	G38	130	540000	6000	90+	.323	.328	26	300	210	360	Any	54
12000	T32	**CSR12000/SE/HR**	14, 63	**48468**	4	G38	160	1100000	6000	90+	.323	.328	28	250	255	450	Any	54
18000	T32	**CSR18000/SE/HR**	14, 63	**22496**	1	G51	225	1650000	6000	90+	.325	.327	35	250	260	460	Any	
Table 33: Discharge-CSR (Daylight) Metal Halide, Double-Ended Hot Restrike																		
200	T4.5	**CSR200/DE**	14, 63	**48450**	10	X515	80	16000	6000	90+	.323	.325	8	300		75	H15	55
400	T6.5	**CSR400/S/DE/70**	14, 63	**22478**	10	SFc 10-4 SI/M4	49	26000	7000	65+	.305	.323	3	750		138	Any	56
		CSR400/S/DE/90	14, 63	**45232**	10	SFc 10-4 SI/M4	49	26000	9000	65+	.305	.323	3	750		138	Any	56
575	T6.5	**CSR575/DE**	14, 63	**48451**	10	SFc 10-4 AI/M4	95	49000	6000	90+	.323	.325	7	750		138	Any	56
		CSR575/S/DE/70	14, 63	**70979**	10	SFc 10-4 SI/M4	95	40000	7000	75+	.307	.309	7	750		138	Any	56
		CSR575/SS/DE/75	14, 63	**45231**	10	SFc 10-4 SI/M4	100	44000	7500	70+	.297	.312	5	500		92	Any	56

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	Product Code	Stnd. Pack Qty.	Base	Volts	Initial Design Lumens	Design Color Temp (K)	Color CRI Index	CIE Color x	CIE Color y	Arc Length (mm)	Rated Life (hrs)	LCL (mm)	MOL (mm)	Burn Position	Fig. No.
Table 33: Discharge-CSR (Daylight) Metal Halide, Double-Ended Hot Restrike (continued)																		
700	T6.5	**CSR700/S/DE/60**	14, 63	**22493**	10	SFc 10-4 SI/M4	70	59000	6000	75+	.322	.332	4	750		138	Any	56
		CSR700/S/DE/75	14, 63	**41357**	10	SFc 10-4 SI/M4	70	59000	7500	75+	.322	.332	4	750		138	Any	56
1200	T6.5	**CSR1200/S/DE/60**	14, 63	**22494**	10	SFc 10-4 SI/M4	100	110000	6000	90+	.323	.325	7	500		138	Any	56
		CSR1200/S/DE/72	14, 63	**41361**	10	SFc 10-4 SI/M4	100	110000	7200	75+	.323	.328	7	750		138	Any	56
	T8.5	**CSR1200/DE**	14, 63	**48453**	6	SFc 15.5-6 SI/M6	100	110000	6000	85+	.323	.325	10	750		220	H15	56
2500	T9.5	**CSR2500/DE**	14, 63	**48454**	6	Sfa21-12	115	240000	6000	90+	.323	.325	14	500		355	Any	59
4000	T12	**CSR4000/DE**	14, 63	**48455**	6	Sfa21-12	200	410000	6000	90+	.323	.325	34	500		405	H15	59
6000	T16	**CSR6000/DE**	14, 63	**48456**	6	25x51 Cyl 165mm	125	570000	6000	90+	.323	.325	22	300		450	H15	57
12000	T22.5	**CSR12000/DE**	14, 63	**48457**	4	30x70 Cyl 165mm	160	1100000	6000	90+	.323	.325	32	300		470	H15	57
18000	T28	**CSR18000/DE**	14, 63	**48459**	4	30x70 Cyl 165mm	225	1650000	6000	90+	.323	.325	45	300		500	H15	58
		CSR18000/S/DE	14, 63	**48460**	4	30x70 Cyl 165mm	225	1650000	6000	90+	.323	.325	45	300		470	H15	58
Table 34*: CSR (Daylight) Metal Halide, Single-Ended Hot Restrike UV-Control																		
575	T9.5	**CSR575/SE/HR/UV-C**	14, 63	**40460**	10	G22	95	49000	5600	80+	.330	.325	7	750	70	145	Any	51
800	T9.5	**CSR800/SE/HR/UV-C**	14, 63	**22495**	10	G22	95	64000	5600	90+	.325	.327	7	1000	70	145	Any	51
1200	T13	**CSR1200/SE/HR/UV-C**	14, 63	**27764**	6	G38	100	110000	5600	90+	.333	.333	10	750	107	200	Any	52
2500	T19.5	**CSR2500/SE/HR/UV-C**	14, 63	**40482**	6	G38	115	220000	5600	90+	.330	.325	14	500	127	240	Any	53
4000	T24	**CSR4000/SE/HR/UV-C**	14, 63	**27765**	6	G38	200	380000	5600	90+	.330	.325	24	500	142	260	Any	53
6000	T26.5	**CSR6000/SE/HR/UV-C**	14, 63	**40492**	6	G38	130	540000	5600	90+	.333	.333	26	300	210	360	Any	54

Lamp stocking color code: EUROPE ONLY, EUROPE and NORTH AMERICA, NORTH AMERICA ONLY

* See Spectral Distribution Chart - Page 66

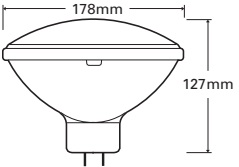


Fig. 47

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	Product Code	Stnd. Pack Qty.	Base	Ballast Type ANSI	Approx. CP [6]	Design Color Temp (K)	Color CRI Index	Beam Descr.	Design Life (hrs)	Beam Spread [5] (degrees)	Beam Angle [3] (degrees)	Burn Position	Fig. No.
Table 38: Discharge-ConstantColor® CMH® Ceramic Metal Halide, PAR56 Reflector																
150	PAR56	**CMH150/PAR56/830/Gx16d/SP**	14, 18, 63	**22693**	6	Gx16d	M81,102,142	80000	3000	80+	SP	5000	68 X 63	14 X 19	Any	47
		CMH150/PAR56/830/Gx16d/MFL	14, 18, 63	**22694**	6	Gx16d	M81,102,142	60000	3000	80+	MFL	5000	74 X 65	19 X 22	Any	47
		CMH150/PAR56/830/Gx16d/WFL	14, 18, 63	**22696**	6	Gx16d	M81,102,142	50000	3000	80+	WFL	5000	81 X 67	29 X 23	Any	47
		CMH150/PAR56/942/Gx16d/SP	14, 18, 63	**22697**	6	Gx16d	M81,102,142	80000	4200	90+	SP	5000	68 X 63	14 X 19	Any	47
		CMH150/PAR56/942/Gx16d/MFL	14, 18, 63	**22700**	6	Gx16d	M81,102,142	60000	4200	90+	MFL	5000	74 X 65	19 X 22	Any	47
		CMH150/PAR56/942/Gx16d/WFL	14, 18, 63	**22702**	6	Gx16d	M81,102,142	50000	4200	90+	WFL	5000	81 X 67	29 X 23	Any	47

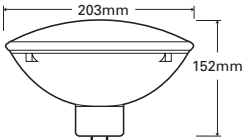


Fig. 49

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	Product Code	Stnd. Pack Qty.	Base	Ballast Type ANSI	Approx. CP [6]	Design Color Temp (K)	Color CRI Index	Beam Descr.	Rated Life (hrs)	Beam Spread [5] (degrees)	Beam Angle [3] (degrees)	Burn Position	Fig. No.
Table 39: Discharge-ConstantColor® CMH® Ceramic Metal Halide, PAR64 Reflector																
150	PAR64	CMH150/PAR64/830/Gx16d/SP	14, 18, 63	16958	6	Gx16d	M81,102,142	154000	3000	80+	SP	8000	18 X 18	9 X 9	Any	49
		CMH150/PAR64/830/Gx16d/MFL	14, 18, 63	16959	6	Gx16d	M81,102,142	47000	3000	80+	MFL	8000	34 X 26	22 X 14	Any	49
		CMH150/PAR64/830/Gx16d/WFL	14, 18, 63	16960	6	Gx16d	M81,102,142	16000	3000	80+	WFL	8000	62 X 36	46 X 23	Any	49
		CMH150/PAR64/942/Gx16d/SP	14, 18, 63	16961	6	Gx16d	M81,102,142	154000	4200	90+	SP	8000	18 X 18	9 X 9	Any	49
		CMH150/PAR64/942/Gx16d/MFL	14, 18, 63	16962	6	Gx16d	M81,102,142	47000	4200	90+	MFL	8000	34 X 26	22 X 14	Any	49
		CMH150/PAR64/942/Gx16d/WFL	14, 18, 63	16963	6	Gx16d	M81,102,142	16000	4200	90+	WFL	8000	62 X 36	46 X 23	Any	49

Lamp stocking color code: EUROPE ONLY, EUROPE and NORTH AMERICA, NORTH AMERICA ONLY

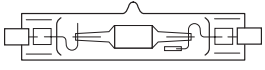


Fig. 64


Fig. 65

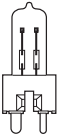


Fig. 66

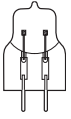


Fig. 67

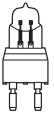


Fig. 68


Fig. 69

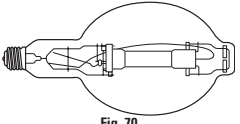


Fig. 70

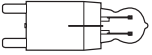


Fig. 71

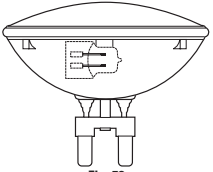


Fig. 72

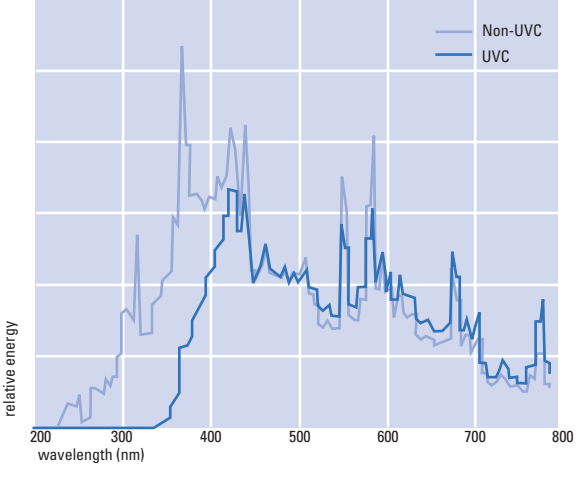
Watts	Bulb OD	GE Description	Footnotes/ Saftey Notices	Product Code	Stnd. Pack Qty.	Base	Volts or ANSI ballast	Initial Design Lumens	Design Color Temp (K)	Color CRI Index	Arc Length (mm)	Rated Life (hrs)	LCL (mm)	MOL (mm)	Burn Position	Fig. No.
Table 40: Discharge-CSI, CID, MVR/SPL, Double-Ended																
1500	T-7	**SPL1500/H/652**	14, 63	**16920**	1	Rx7s	Special	120000	5200	80		6000	127	257	H4	64
Table 41: Discharge-CSI, CID, MVR/SPL, Single-Ended																
140	T-7	**CSS150/CAP/50**	14, 63	**34813**	10	GY9.5	85	10000	5000	80	6	1000	30	48	BDTH	65
200	T-5	**99-0211CID**	14, 63	**30560**	1	Special	70	14000	5500	85	5.5	150	36	57	BDTH	66
400	T-6	**99-0201CSI**	14, 63	**30555**	1	Special	100	32000	4000	80	9	500	25	55	BDTH	67
575	T-7	**99-0415CID**	14, 63	**30563**	1	G22	95	40250	5500	85	9	500	52	94	BDTH	68
		CSS575/855/GY9.5	14, 63	**34822**	10	GY9.5	95	40250	5500	85	9	500	52	94	BDTH	69
1000	T-10	**99-0221CSI**	14, 63	**30558**	1	G22	77	90000	4000	80	14	500	64	115	BDTH	68
		99-0222CID	14, 63	**30561**	1	G22	77	70000	5500	85	15	500	64	115	BDTH	68

Watts	Bulb OD	GE Description	Footnotes/ Saftey Notices	Product Code	Stnd. Pack Qty.	Base	Volts or ANSI ballast	Initial Design Lumens	Design Color Temp (K)	Color CRI Index	Arc Length (mm)	Rated Life (hrs)	LCL (mm)	MOL (mm)	Burn Position	Fig. No.
Table 41: Discharge-CSI, CID, MVR/SPL, Single-Ended (continued)																
1500	BT56	**MVR1500/U/SPORTS**	14, 63	**47326**	6	E39	M48	178000	4000	65		3000	241	390	Any	70
		MVR1500/HBU	14, 63	**37405**	6	E39	M48	165000	3900	65		3000	241	390	HBU	70
1650	BT56	**MVR1650/HOR**	14, 63	**25532**	6	E39p	M112	177000	3200	65		3000	241	390	H15	70
2000	T-9	**MQI/2000/T9/40**	14, 63	**12275**	10	Special	M134	200000	4000	65		4000	109	254	H15	
2500	G-13	**99-0431CID/HR**	14, 63	**30567**	1	G38	100	200000	5500	85	18	350	127	175	BDTH	71

Watts	Bulb OD	GE Description	Footnotes/ Saftey Notices	Product Code	Stnd. Pack Qty.	Base	Volts or ANSI ballast	Approx CP[6]	Design Color Temp (K)	Color CRI Index	Arc Length (mm)	Rated Life (hrs)	Beam Spread[5] (degree)	MOL (mm)	Burn Position	Fig. No.
Table 42: Discharge-CSI, CID, MVR/SPL, PAR64 Reflector																
1000	PAR64	**SPL1000/PAR64/840**	14, 19, 63	**29333**	1	G38	77	1350000	4000	80		3500		175	Any	72
		SPL1000/PAR64/HR	14, 19, 63	**29336**	1	G38	77	1350000	4000	80		3500		175	Any	72
		99-1225CID	14, 23, 63	**30360**	1	G38	77	850000	5500	85	15	1500	20	175	Any	72
		99-1425CID/HR	14, 23, 63	**30371**	1	G38	77	850000	5500	85	15	1000	20	175	Any	72
1200	PAR64	**99-1435CID/HR**	14, 24, 63	**30372**	1	G38	100	820000	5500	85	18	1000	18	175	Any	72

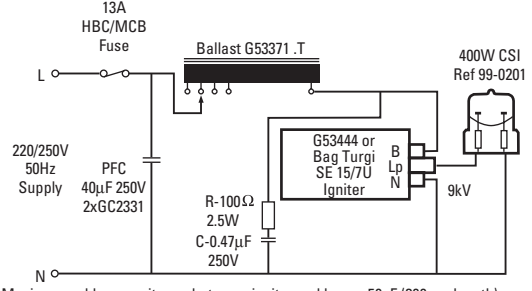
Lamp stocking color code: EUROPE ONLY, EUROPE and NORTH AMERICA, NORTH AMERICA ONLY

UV-Control Discharge Spectral Distribution



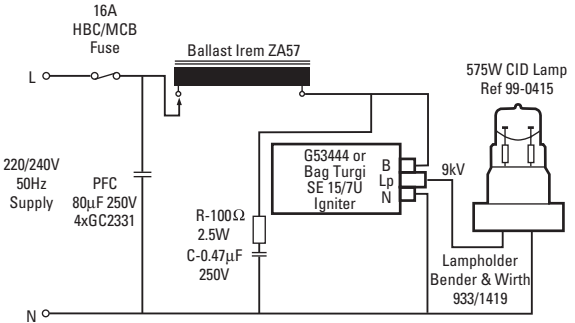
DISCHARGE LAMP WIRING DIAGRAMS

400 Watt CSI Lamp Circuit Diagram



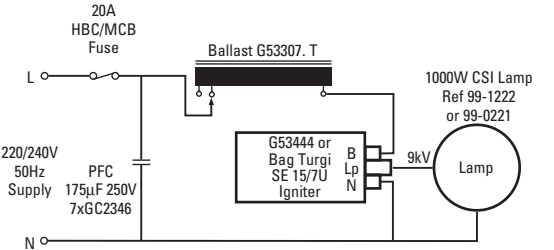
Maximum cable capacitance between igniter and lamp - 50pF (300mm length)

575 Watt CID Lamp Circuit Diagram



Maximum cable capacitance between igniter and lamp - 50pF (300mm length)

1000 Watt CSI Lamp Circuit Diagram



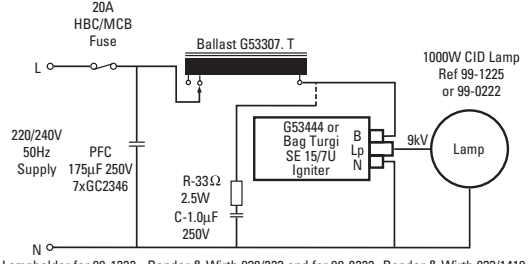
Lampholder for 99-1222 - Bender & Wirth 938/223 and for 99-0221 - Bender & Wirth 933/1419

Maximum cable capacitance between igniter and lamp - 50pF (300mm length)

Replace G53445 (or Bag Turgi SE600/D) igniter sparkgap element when replacing a failed lamp

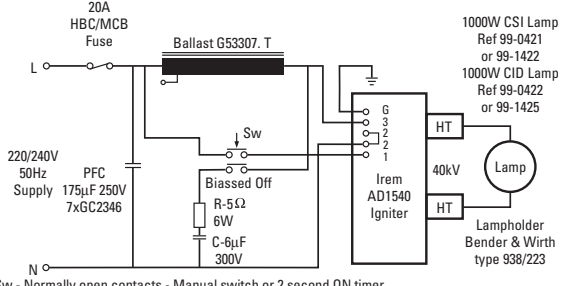
DISCHARGE LAMP WIRING DIAGRAMS (CONTINUED)

1000 Watt CID Lamp Circuit Diagram



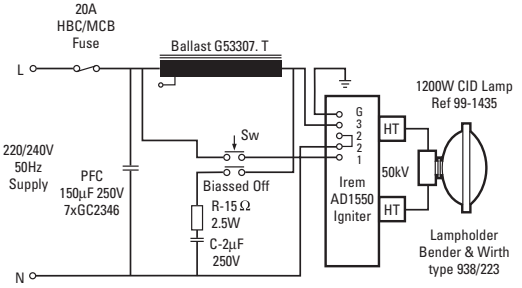
Lampholder for 99-1222 - Bender & Wirth 938/223 and for 99-0222- Bender & Wirth 933/1419
R/C components necessary ONLY when used on a 220V rate supply
Maximum cable capacitance between igniter and lamp - 50pF (300mm length)
Replace G53445 (or Bag Turgi SE600/D) igniter sparkgap element when replacing a failed lamp

1000 Watt CSI/CID Hot-Restart Lamp Circuit Diagram



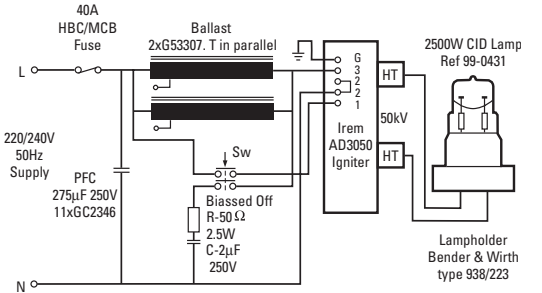
Sw - Normally open contacts - Manual switch or 2 second ON timer
Maximum cable capacitance between igniter and lamp - 30pF (200mm length)

1200 Watt CID Hot-Restart Lamp Circuit Diagram



Sw - Normally open contacts - Manual switch or 2 second ON timer
Maximum cable capacitance between igniter and lamp - 30pF (200mm length)

2500 Watt CID Hot-Restart Lamp Circuit Diagram



Sw - Normally open contacts - Manual switch or 2 second ON timer
Maximum cable capacitance between igniter and lamp - 30pF (200mm length)

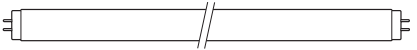


Fig. 73

Watts	Bulb OD	GE Description	Footnote/ Safety Notices	Product Code	Stnd. Pack Qty.	Base	Initial Lumens	Mean Lumens	Rated Life (hrs)	MOL (mm)	Fig. No.
Table 43: Fluorescent Cinema Lighting, T8 High Output											
55	T8	**F48T8/CINEMA32**	8, 171	**81205**	24	G-13 Med BiPin	2750	2200	2000	1219	73
		F48T8/CINEMA55	8, 171	**81206**	24	G-13 Med BiPin	2750	2200	2000	1219	73
		F48T8/CINEMA32/CVG	8, 171	**81207**	24	G-13 Med BiPin	2750	2200	2000	1219	73
		F48T8/CINEMA55/CVG	8, 171	**81208**	24	G-13 Med BiPin	2750	2200	2000	1219	73
Table 44: Fluorescent Cinema Lighting, Standard Cinema											
35	T12	**F20T12/CINEMA32/HO**	8, 9, 171	**15712**	24	G-13 Med BiPin	1130	800	2000	610	73
		F20T12/CINEMA55/HO	8, 10,171	**15713**	24	G-13 Med BiPin	1100	770	2000	610	73
60	T12	**F40T12/CINEMA32/HO**	8, 9, 171	**15716**	30	G-13 Med BiPin	2900	2030	2000	1219	73
		F40T12/CINEMA55/HO	8, 10,171	**15717**	30	G-13 Med BiPin	2820	1974	2000	1219	73
85	T12	**F72T12/CINEMA32/HO**	8, 9, 171	**15718**	15	G-13 Med BiPin	4150	2905	2000	1829	73
		F72T12/CINEMA55/HO	8, 10,171	**15719**	15	G-13 Med BiPin	4050	2835	2000	1829	73
110	T12	**F96T12/CINEMA32/HO**	8, 9, 171	**15720**	15	G-13 Med BiPin	5800	4060	2000	2438	73
		F96T12/CINEMA55/HO	8, 10,171	**15721**	15	G-13 Med BiPin	5650	3955	2000	2438	73

Fig. 73

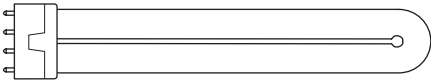


Fig. 74

Watts	Bulb OD	GE Description	Footnote/ Safety Notices	Product Code	Stnd. Pack Qty.	Base	Initial Lumens	Mean Lumens	Rated Life (hrs)	MOL (mm)	Fig. No.
Table 45: Fluorescent Cinema Lighting, CovRguard® Cinema											
35	T12	**F20T12/CINEMA32/HO/CVG**	8, 9, 171	**15775**	24	G-13 Med BiPin	1130	800	2000	610	73
		F20T12/CINEMA55/HO/CVG	8, 10, 171	**15776**	24	G-13 Med BiPin	1100	770	2000	610	73
60	T12	**F40T12/CINEMA32/HO/CVG**	8, 9, 171	**15782**	30	G-13 Med BiPin	2900	2030	2000	1219	73
		F40T12/CINEMA55/HO/CVG	8, 10, 171	**15783**	30	G-13 Med BiPin	2820	1974	2000	1219	73
85	T12	**F72T12/CINEMA32/HO/CVG**	8, 9, 171	**15785**	15	G-13 Med BiPin	4150	2905	2000	1829	73
		F72T12/CINEMA55/HO/CVG	8, 10, 171	**15786**	15	G-13 Med BiPin	4050	2835	2000	1829	73
110	T12	**F96T12/CINEMA32/HO/CVG**	8, 9, 171	**15794**	15	G-13 Med BiPin	5800	4060	2000	2438	73
		F96T12/CINEMA55/HO/CVG	8, 10, 171	**15798**	15	G-13 Med BiPin	5650	3955	2000	2438	73
Table 46: Fluorescent Cinema Lighting, Biax®											
55	T5	**F55BX/STUDIOBIAX32**	11	**41869**	10	2G11-4 PIN	4100	3485	8000	536	74
		F55BX/STUDIOBIAX56	13	**41873**	10	2G11-4 PIN	4100	3485	8000	536	74
		F55BX/CINPLUS/32	11	**41903**	10	2G11-4 PIN	2400	2040	2000	536	74
		F55BX/CINPLUS/55	13	**41911**	10	2G11-4 PIN	2400	2040	2000	536	74

Lamp stocking color code: EUROPE ONLY, EUROPE and NORTH AMERICA, NORTH AMERICA ONLY

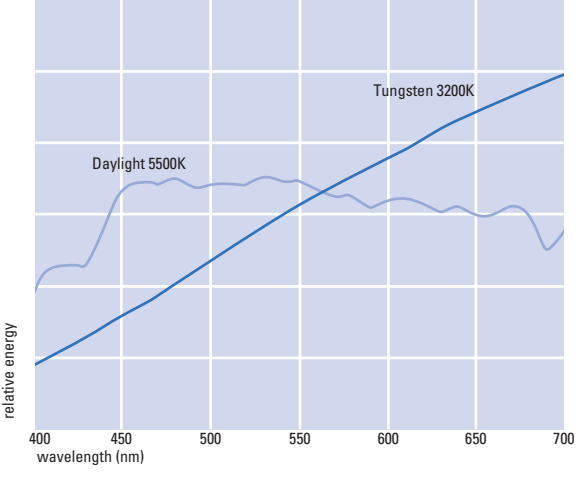
GE CINEMA FLUORESCENT LAMPS

GE Cinema Lamps Provide Predictable Color for Standard Film Processing

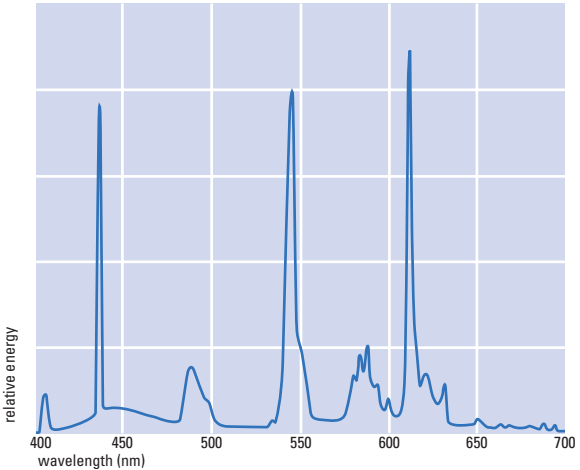
In the entertainment industry the use of color film has always been based on incandescent or Tungsten lighting. These standards were established before fluorescent lighting was invented in 1939. With the introduction of fluorescent lighting it was soon discovered that cool white fluorescent and triphosphor lamps did not work well with film. Extensive filtering was required resulting in loss of light and added cost and labor.

Now Cinema lamps require phosphore blends which better match Daylighting and Tungsten Spectral Power Distribution (SPD) in order to provide predictable color for standard film processing — without the need for expensive filtering on the set.

SPD for Tungsten 3200K and Daylight 5500K



SP41 Spectral Power Distribution



Standard SP41 Spectral Power Distribution

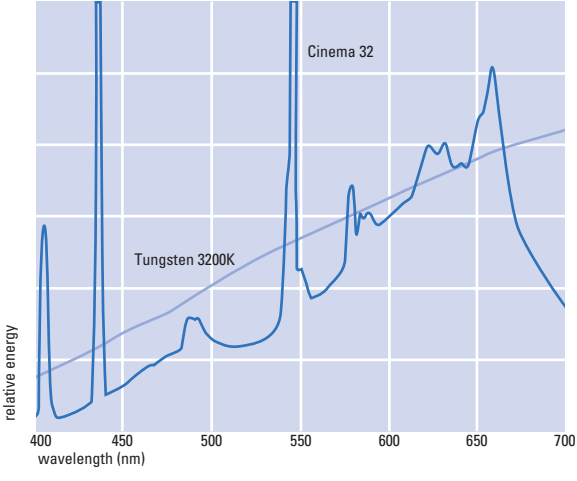
Typical modern triphosphor fluorescent lamp spectra optimized for eye response, especially green for lumens.

Matching Phosphor Blends to Film Light Reference Sources

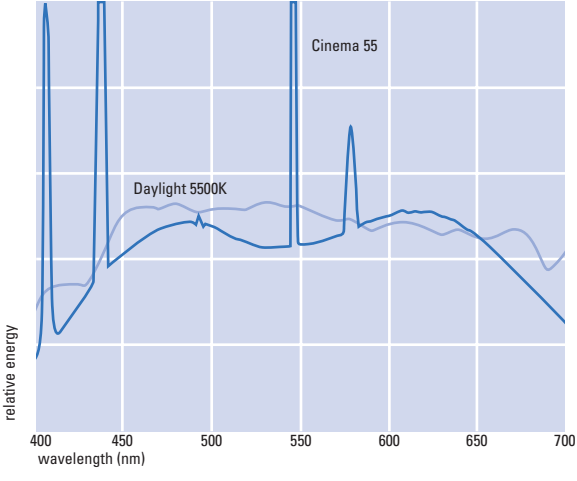
GE Cinema design uses full spectrum phosphor blends for Cinematography lamps. Color is matched for Tungsten 3200K and Daylight 5500K spectra.
Final matching is done using Minolta IIIf meter as a gage for determining filtering needs which become the effective color specification limits.

GE CINEMA FLUORESCENT LAMPS (CONTINUED)

Cinema 32 vs Tungsten 3200K



Cinema 55 vs. 5500K Daylight



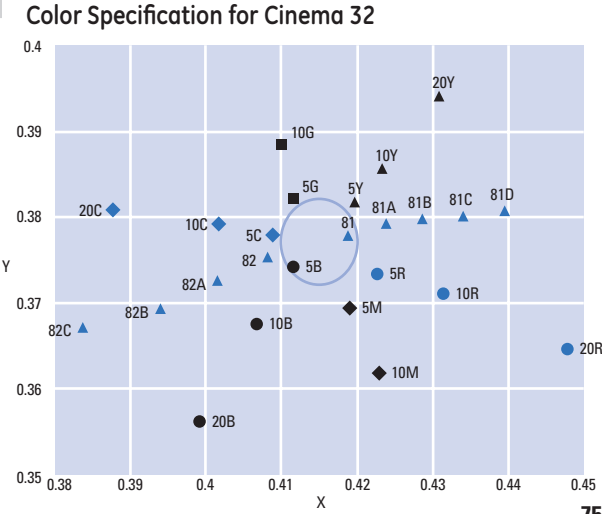
A Full Range of Operating Currents and Dimming Conditions Can Be Used Without Requiring Added Filtration

GE Cinema lamps are designed to minimize the need to add filters for color correction.

X, Y Chromaticity Plots for Daylight 5500K (Chart 2) and Tungsten 3200K (Chart 1) Light Sources

Kodak Wratten filter values, and corresponding color shift are also indicated. Color specification limits are best represented by circles rather than MacAdam Ellipses for the Cinema lamp products due to the differences between eye and film color sensitivity.

Chart 1: Tungsten 3200K Color Shift with Wratten Filters



GE CINEMA FLUORESCENT LAMPS (CONTINUED)

Chart 2: Daylight Color Shift with Wratten Filters

Color Specification for Cinema 55

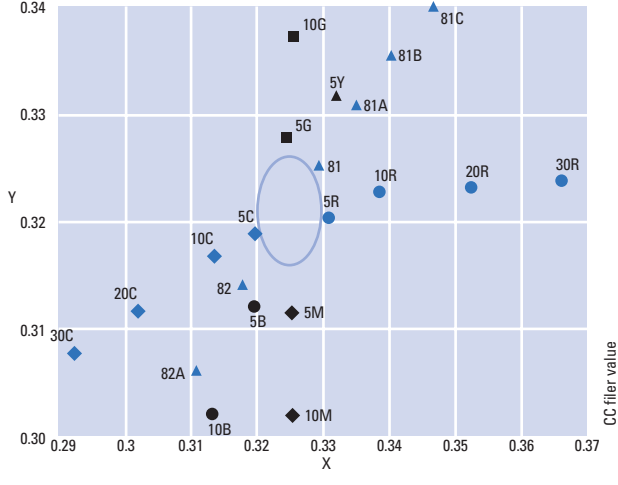
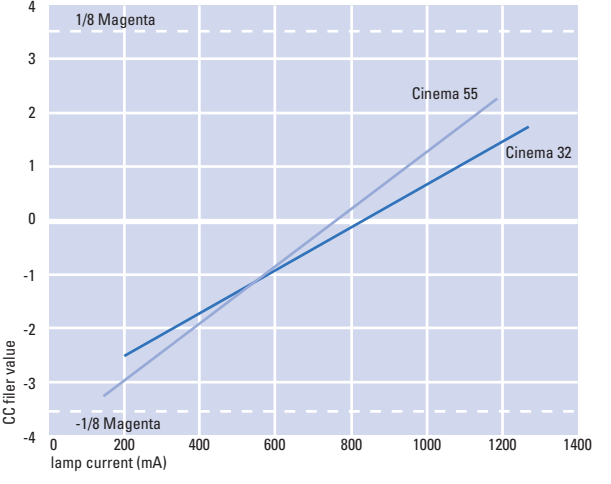


Chart 3: Color vs. Lamp Current for F40T12 Cinema Lamps



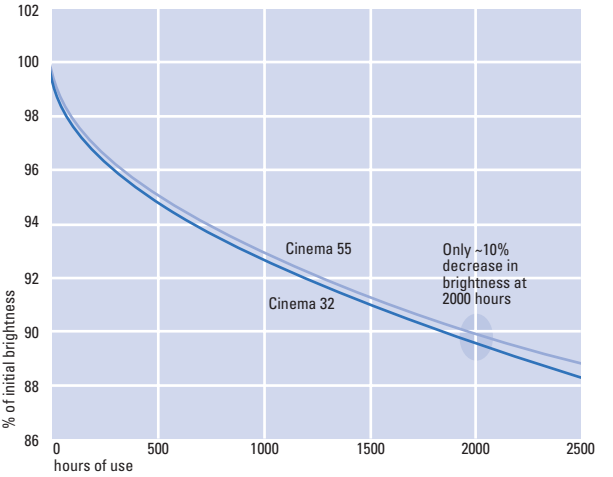
Color vs. Lamp Current for F40T12 Cinema Lamps (Chart 3)

- Cinema lamp color shift with lamp operating current.
- All readings made using Minolta IIIf color meter.
- Lamp stabilized for 20 minutes at each current level before measuring color.

Lamp Brightness Decreases with Lamp Age (Chart 4)

- Cinema lamps maintain 90% of initial brightness up to 2000 hours of use.
- Color drift during this time period is minimal for both colors.
- Cinema lamps exhibit good brightness stability and minimal color change with use.

Chart 4: Lamp Brightness Decreases with Lamp Age



GE CINEMA FLUORESCENT LAMPS (CONTINUED)

Usage Guidelines

Warm Up Time

Allow at least ½ hour stabilization time before checking color of GE Cinema lamps. This applies to new and used lamps. Color will drift (mostly the mired shift, or LB value) during the warm up period.

Breakage During Set-up and Transport

Specify covRguard® safety coated lamps when lamps will be moved and transported during use. The covRguard® design minimizes breakage and contains the lamp components if breakage occurs – minimizing set clean-up issues.

Ballast Compatibility

Assure that the correct type of ballast is used with Cinema lamps. High current ballast such as provided with Kino Flo fixtures require HO lamp types. If brightness control through dimming is desired, be sure to specify ballasts designed for dimmability.

Fixture Compatibility

GE recommends the F40/HO and F20/HO versions to be used in high current cinematography fixtures such as those manufactured by Kino Flo. The standard F40 and F20 Cinema lamps are recommended for ANSI approved general lighting fixtures.

Selected Manufacturers of Filters for Color Correction of Light Sources

Selected filter products (see websites for additional information:
www.rosco.com, www.leefilters.com, www.gamonline.com

Kelvin Temperature Compensation

AMBER TO REDUCE KELVIN

Rosco					Lee					Gam
Balance 5500K		Product No.	Mired Shift	Tran (%)	Balance 6500K		Product No.	Mired Shift	Tran (%)	Product No.
To	3200K	3401	+131	58	To	3200K	204 (CTO)	+159	55.4	1543
	2900K	3407(CTO)	+167	47		3600K	285 (3/4CTO)	+124	61.3	1546
	3200K	3411 (3/4CTO)	+131	58		3800K	205 (1/2CTO)	+109	70.8	1549
	3800K	3408 (1/2CTO)	+81	73		4600K	206 (1/4CTO)	+64	79.1	1552
	4500K	3409 (1/4CTO)	+42	81		5550K	223 (1/8CTO)	+26	85.2	1555
	4900K	3410 (1/8CTO)	+20	92						
	2000K	3420 (2X CTO)	+320	23						1540

FILTERS (CONTINUED)

Kelvin Temperature Compensation (continued)

STRAW TO REDUCE KELVIN

	Rosco				Lee				Gam
Balance 5500K		Product No.	Mired Shift	Tran (%)	Balance 6500K		Product No.	Mired Shift	Tran (%)	Product No.
To	2900K	3441 (full CTS)	+131	47	To	3200K	441 (full CTS)	+160	57.3	
	3800K	3408 (1/2 CTS)	+81	73		4300K	442 (1/2 CTS)	+81	71.2	
	4500K	3409 (1/4 CTS)	+42	81		5100K	443 (1/4 CTS)	+42	79.8	
	4900K	3410 (1/8 CTS)	+20	92		5700K	444 (1/8 CTS)	+20	83.1	

Filters will reduce the color temperature of any source. Both 5500K and 6500K are used for reference.

BLUE TO INCREASE KELVIN

Rosco					Lee					Gam
Balance 3200K		Product No.	Mired Shift	Tran (%)	Balance 3200K		Product No.	Mired Shift	Tran (%)	Product No.
To	5500K	3202 (full CTB)	-131	36	To	5700K	201 (full CTB)	-137	34	1523
	4700K	3203 (3/4 CTB)	-100	41		5000K	281 (3/4 CTB)	-112	45.5	1526
	4100K	3204 (1/2 CTB)	-68	52		4300K	202 (1/2 CTB)	-78	54.9	1529
	3800K	3206 (1/3 CTB)	-49	64						
	3500K	3208 (1/4 CTB)	-30	74		3600K	203 (1/4 CTB)	-35	69.2	1532
	3300K	3216 (1/8 CTB)	-12	81		3400K	218 (1/8 CTB)	-18	81.3	1535
	10000K	3220 (2X CTB)	-260	10	app	26000K	200 (2X CTB)	-274	16.2	1520

Color Compensation (CC)

INCREASE GREEN/REDUCE MAGENTA

Rosco				Lee			Gam
	Product No.	CC Value	Tran %	Product No.	CC Value	Tran %	Product No.
Plus Green	3304	30G	76	244	30G	74.2	1585
1/2 Plus Green	3315	15G	90	245	15G	81.7	1587
1/4 Plus Green	3316	7.5G	92	246	7.5G	84.6	1588
1/8 Plus Green	3317	3.5G	93	278		87.7	1589

FILTERS (CONTINUED)

Color Compensation (CC) (continued)

REDUCE GREEN/INCREASE MAGENTA

	Rosco			Lee			Gam
	Product No.	CC Value	Tran %	Product No.	CC Value	Tran %	Product No.
Minus Green	3308	30M	55	247	30M	57.8	1580
1/2 Minus Green	3313	15M	71	248	15M	72	1582
1/4 Minus Green	3314	7.5M	81	249	7.5M	82.4	1583
1/8 Minus Green	3318	3.5M	88	279		86.5	1584

FILTER TUNGSTEN TO MATCH FLUORESCENT (BY INDUSTRY NAME)*

Industry Name	Approx. K	Rosco	Lee
Cool White/Daylight	5700	60C (#4360)	241 (with FL-B or FL-D)
White	4300		242 (with FL-B or FL-D)
Warm White	3600	30C+15C (#4330+4315)	243 (with FL-B or FL-D)

FILTER FLUORESCENT/DISCHARGE TO TUNGSTEN OR DAYLIGHT FILM*

	Rosco		Lee
Source	**To Tungsten**	**To Daylight**	**To Tungsten**
Cool White	60R (4660)	30M (4730)	
Warm White	30R+15R (4360+4615)	30B (4230)	
Multi-Vapor	60R+15Y (4660+4515)	15R+15M (4615+4715)	
HMI		3107	236
CID			237
CSI			238
White Flame Arc	3106		232

* Discharge lamps are diverse in performance, so the above is a very limited list of examples. Contact the filter manufacturer for additional information and recommendations.

TEMPERATURE RATING OF CONDUCTOR

Allowable Ampacities of Insulated Conductors Rated 0 – 2000 Volts, 60°C – 90°C (140°F – 194°F), Not More Than Three Current-Carrying Conductors in Raceway, Cable, or Earth (Directly Buried), Based on Ambient Temperature of 30° C (86°F).

Copper

60°C (140°F) Types: TW, UF

75°C (167°F) Types: RHW, THHW, THW, THWN, USE, XHHW, ZW

90°C (194°F) Types: FEP, FEPB, MI, RHH, RHW-2, SA, SIS, TBS, THHN, THHW, THW-2. THWN-2, USE-2, XHH, XHHW, XHHW-2, ZW-2

Size AWG or kcmil	60°C (140°F)	75°C (167°F)	90°C (194°F)
18	–	–	14
16	–	–	18
14	20	20	25
12	25	25	30
10	30	35	40
8	40	50	55
6	55	65	75
4	70	85	95
3	85	100	110
2	95	115	130
1	110	130	150
1/0	125	150	170
2/0	145	175	195
3/0	165	200	225
4/0	195	230	260
250	215	255	290
300	240	285	320
350	260	310	350
400	280	335	380
500	320	380	430
600	355	420	475
700	385	460	520
750	400	475	535
800	410	490	555
900	435	520	585
1000	455	545	615
1250	495	590	665
1500	520	625	705
1750	545	650	735
2000	560	665	750

Aluminum or Copper-Clad Aluminum

60°C (140°F) Types: TW, UF

75°C (167°F) Types: RHW, THHW, THW, THWN, USE, XHHW

90°C (194°F) Types: RHH, RHW-2, SA, SIS, TBS, THHN, THHW, THW-2, THWN-2, USE-2, XHH, XHHW, XHHW-2, ZW-2

Size AWG or kcmil	60°C (140°F)	75°C (167°F)	90°C (194°F)
12	20	20	25
10	25	30	35
8	30	40	45
6	40	50	60
4	55	65	75
3	65	75	85
2	75	90	100
1	85	100	115
1/0	100	120	135
2/0	115	135	150
3/0	130	155	175
4/0	150	180	205
250	170	205	230
300	190	230	255
350	210	250	280
400	225	270	305
500	260	310	350
600	285	340	385
700	310	375	420
750	320	385	435
800	330	395	450
900	355	425	480
1000	375	445	500
1250	405	485	545
1500	435	520	585
1750	455	545	615
2000	470	560	630

Allowable Ampacities of Single-Insulated Conductors Rated 0 – 2000 Volts in Free Air, Based on Ambient Air Temperature of 30°C (86°F)

Copper

60°C (140°F) Types: TW, UF

75°C (167°F) Types: RHW, THHW, THW, THWN, USE, XHHW, ZW

90°C (194°F) Types: FEP, FEPB, MI, RHH, RHW-2, SA, SIS, TBS, THHN, THHW, THW-2. THWN-2, USE-2, XHH, XHHW, XHHW-2, ZW-2

Size AWG or kcmil	60°C (140°F)	75°C (167°F)	90°C (194°F)
18	–	–	18
16	–	–	24
14	25	30	35
12	30	35	40
10	40	50	55
8	60	70	80
6	80	95	105
4	105	125	140
3	120	145	165
2	140	170	190
1	165	195	220
1/0	195	230	260
2/0	225	265	300
3/0	260	310	350
4/0	300	360	405
250	340	405	455
300	375	445	505
350	420	505	570
400	455	545	615
500	515	620	700
600	575	690	780
700	630	755	855
750	655	785	885
800	680	815	920
900	730	870	985
1000	780	935	1055
1250	890	1065	1200
1500	980	1175	1325
1750	1070	1280	1445
2000	1155	1385	1560

Aluminum or Copper-Clad Aluminum

60°C (140°F) Types: TW, UF

75°C (167°F) Types: RHW, THHW, THW, THWN, USE, XHHW

90°C (194°F) Types: RHH, RHW-2, SA, SIS, TBS, THHN, THHW, THW-2, THWN-2, USE-2, XHH, XHHW, XHHW-2, ZW-2

Size AWG or kcmil	60°C (140°F)	75°C (167°F)	90°C (194°F)
12	25	30	35
10	35	40	40
8	45	55	60
6	60	75	80
4	80	100	110
3	95	115	130
2	110	135	150
1	130	155	175
1/0	150	180	205
2/0	175	210	235
3/0	200	240	275
4/0	235	280	315
250	265	315	355
300	290	350	395
350	330	395	445
400	355	425	480
500	405	485	545
600	455	540	615
700	500	595	675
750	515	620	700
800	535	645	725
900	580	700	785
1000	625	750	845
1250	710	855	960
1500	795	950	1075
1750	875	1050	1185
2000	960	1150	1335

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