

LAMP CATALOG

GENERAL ELECTRIC/INTERNATIONAL LIGHTING



INCANDESCENT, QUARTZ, HIGH INTENSITY DISCHARGE AND FLUORESCENT LAMPS

Includes abbreviated Miniature, Photo and Ballast Listings.

1986 EDITION

ILD-9200

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INTERNATIONAL BASE LAMPS... See Center Section Pages I-VIII

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General Electric International Lighting Department Lamp Sales Offices Worldwide Directory—Back Cover

ARRANGEMENT OF LAMP LISTINGS in this catalog is by four basic product lines: Incandescent, Quartzline Lamps, High Intensity Discharge and Fluorescent. Within each product line, lamps are divided into families. Within families, listings are generally in groups of ascending wattage or bulb size. Within each of these groups, lamps are generally listed according to popularity. The sequence of lamp listings in the various GE Lamp Price Schedules is the same as in this catalog.

LAMP ORDERING ABBREVIATIONS are shown in the "Lamp Ordering Code" columns, along with packaging variations (48PK, CARDED, etc.). When ordering, please indicate the complete Lamp Ordering Code and voltage (where shown). Add the 5-digit product code to help assure obtaining the exact product required.

LAMP PERFORMANCE RATINGS for life and lumen output are listed together with other lamp data in this Catalog. All ratings and data are subject to change without notice.

PRICE AND AVAILABILITY INFORMATION can be obtained from your supplier of GE lamps or from the nearest GE Lamp Sales Office shown on back cover.

DATA ON OTHER GENERAL ELECTRIC LAMP PRODUCTS. Ask for these publications: • Photo Lamps—#204-31308 • Miniature, Subminiature & Sealed Beam Lamps—#208-31312 • Stage/Studio Lamps—#201-501601 • Ballasts—7200.

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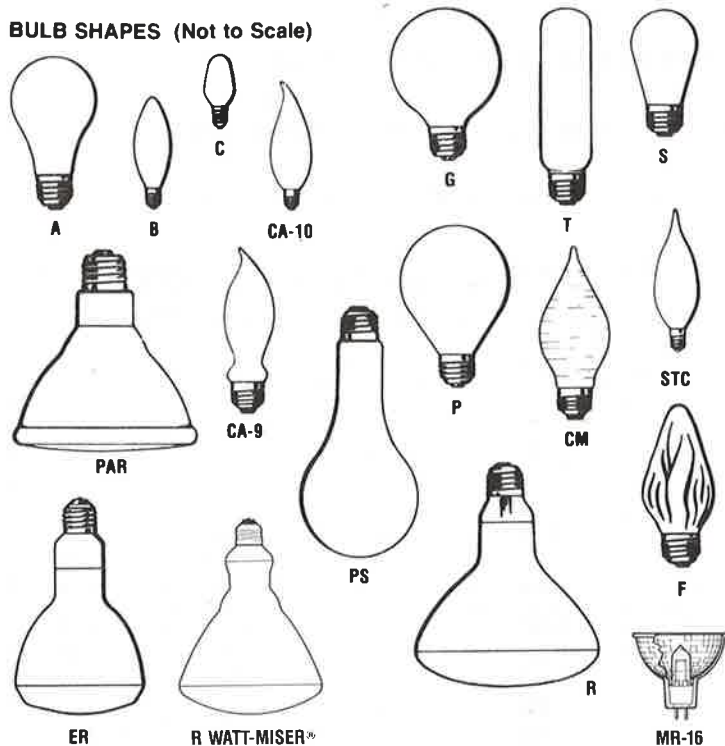
Cover: Burg Königstein, Königstein, Taunus, West Germany. This historic Germany castle is lighted with General Electric Lucalox® high pressure sodium lamps. Photograph by J. David Ulrich.



TECHNICAL DATA FOR INCANDESCENT AND QUARTZLINE® LAMPS

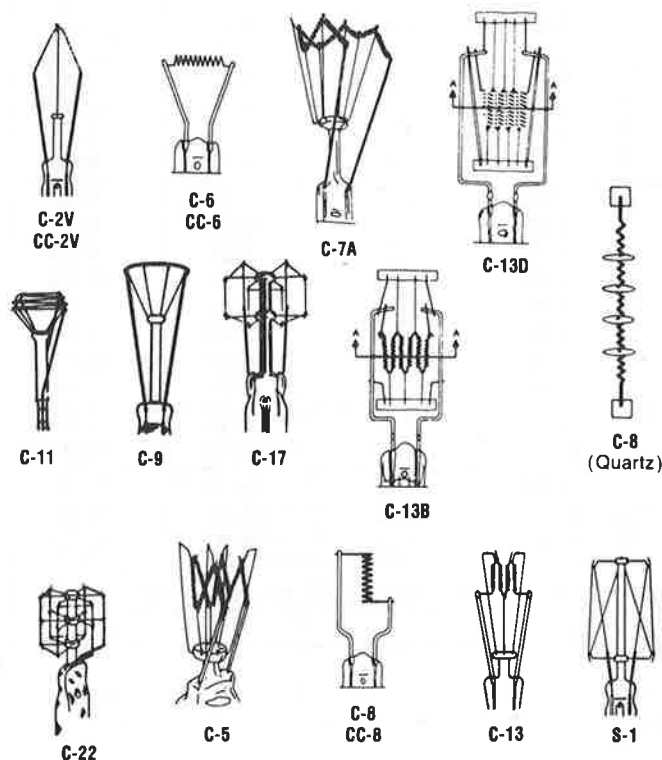
BULB SIZE or diameter (maximum) is expressed in eighths of an inch ($\frac{1}{8}$ "). For example: an A-21 bulb is 21-eighths of an inch or $2\frac{5}{8}$ " in diameter at its maximum dimension.

BULB SHAPES (Not to Scale)



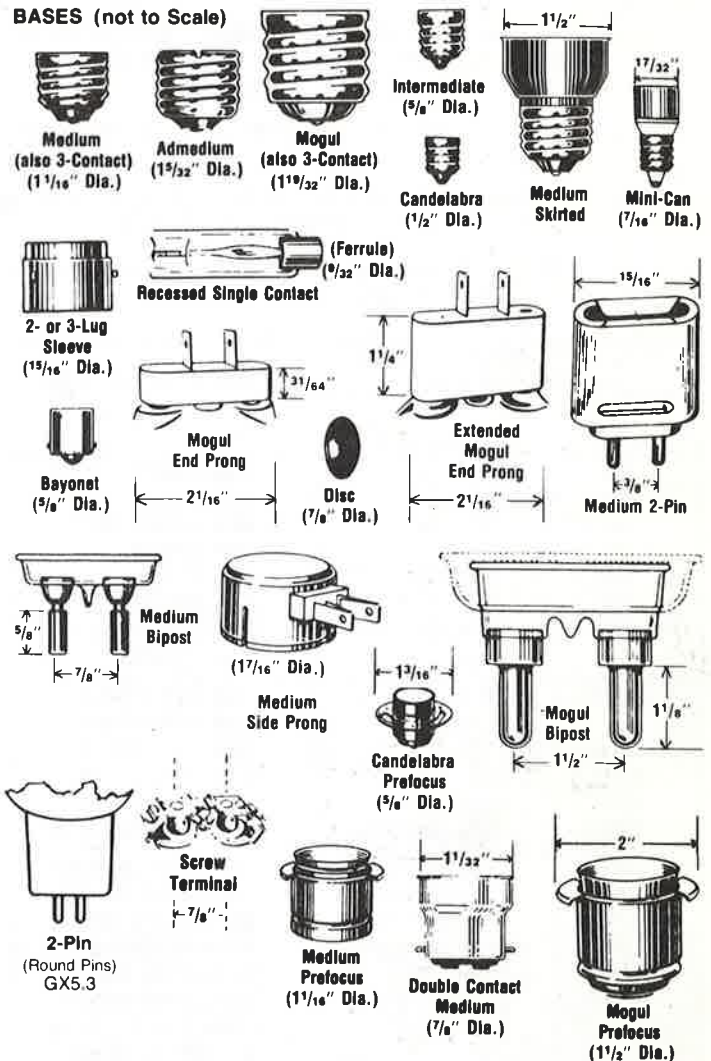
FILAMENTS are designated a letter combination where C is a coiled wire filament, CC is a coiled wire that is itself wound into a larger coil, SR is a straight ribbon filament, the number represents the type of filament support arrangement.

TYPICAL FILAMENTS (not to Scale)



Burning Position—Limitations on lamp operating position are shown in the "Description" column. The following abbreviations are used:
BDTH—Burn lamp in base down to horizontal position.
BU—Burn lamp in base up position only.

BASES (not to Scale)



Light Center Length (L.C.L.) is the distance between the center of the filament and the L.C.L. reference plane shown below.

Base Type	LCL Reference Plane
All Screw Bases	Bottom base contact
Mini-Can	Where diameter of ceramic insulator is .531 inches
3-Contact Medium or Mogul	Bottom base contact
Medium Prefocus	Top of base fins
Mogul Prefocus	Top of base fins
Medium Bipost	Base end of bulb (Glass lamps) Bottom of ceramic base (Quartz lamps)
Mogul Bipost	Shoulder of posts (Glass lamps) Bottom of ceramic base (Quartz lamps)
2-Pin Prefocus	Bottom of ceramic base
S.C. or D.C. Bayonet Candelabra	Top of base pins
Medium Bayonet	Top of base pins
S.C. or D.C. Prefocus	Plane of locating bosses on prefocus collar
Medium 2-Pin	Bottom of metal base shell



THE INCANDESCENT ENERGY \$-SAVERS

WATT-MISER® AND ER LAMPS

To save electricity, replace your standard wattage incandescent or Tungsten-Halogen (Quartzline®) lamps with **WATT-MISER** and ER incandescent lamps. To select your **Watt-Miser** or ER replacement lamp:

- First, use the **Standard Lamp** column to locate the standard wattage incandescent you are now using.
- Next, follow the line to the right to the **Energy Savings Lamp** column to find the recommended **WATT-MISER** or ER replacement.
- Finally, determine the wattage saving from the difference between the Standard and Watt-Miser lamp wattages.

REPLACE STANDARD LAMPS SHOWN BELOW WITH		ENERGY \$ SAVING LAMPS	WATTS SAVED	DOLLARS SAVED IN ELECTRICITY OVER RATED LAMP LIFE AT: (1)			
WATTS	STANDARD	WATT-MISER, ER OR QUARTZ		\$.04/KWH	\$.08/KWH	\$.12/KWH	\$.16/KWH
40	40A	40A/34WM	6	0.36	0.72	1.08	1.44
60	60A	60A/52WM	8	0.32	0.64	0.96	1.28
60	60A/CL	60A/52WM/CL	8	0.32	0.64	0.96	1.28
75	75A	75A/67WM	8	0.24	0.48	0.72	0.96
75	75A/CL	75A/67WM/CL	8	0.24	0.48	0.72	0.96
100	100A	100A/90WM	10	0.30	0.60	0.90	1.20
100	100A/CL	100A/90WM/CL	10	0.30	0.60	0.90	1.20
150	150A	150A/135WM	15	0.45	0.90	1.35	1.80
40	40A/99	40A/34WMP/99	6	0.60	1.20	1.80	2.40
60	60A/99	60A/52WMP/99	8	0.80	1.60	2.40	3.20
75	75A/99	75A/67/WMP/99	8	0.80	1.60	2.40	3.20
100	100A/99	100A/90WMP/99	10	1.00	2.00	3.00	4.00
150	150A23/99	150A/135WMP/99	15	1.50	3.00	4.50	6.00
150	150A23/99CL	150A/135WMP/99CL	15	1.20	2.40	3.60	4.80
75	75PAR/FL	75PAR/FL/65WM	10	0.80	1.60	2.40	3.20
75	75PAR/SP	75PAR/SP/65WM	10	0.80	1.60	2.40	3.20
75	75PAR/3FL	75PAR/3FL/65WM	10	0.80	1.60	2.40	3.20
75	75PAR/3SP	75PAR/3SP/65WM	10	0.80	1.60	2.40	3.20
100	100PAR/FL	100PAR/FL/85WM	15	1.20	2.40	3.60	4.80
100	100PAR/SP	100PAR/SP/85WM	15	1.20	2.40	3.60	4.80
150	150PAR/FL	150PAR/FL/120WM	30	2.40	4.80	7.20	9.60
		90PAR/FL/WMII	60	4.80	9.60	14.40	19.20
150	150PAR/SP	150PAR/FL/120WM	30	2.40	4.80	7.20	9.60
		90PAR/SP/WMII	60	4.80	9.60	14.40	19.20
150	150PAR/3FL	150PAR/3FL/120WM	30	2.40	4.80	7.20	9.60
150	150PAR/3SP	150PAR/3SP/120WM	30	2.40	4.80	7.20	9.60
75	75R30/FL	50ER30	25	2.00	4.00	6.00	8.00
75	75R30/A	50ER30/A	25	2.00	4.00	6.00	8.00
75	75R30/PK	50ER30/PK	25	2.00	4.00	6.00	8.00
100	100A	50ER30	50	4.00	8.00	12.00	16.00
150	150R/FL	150R/FL/120WM	30	2.40	4.80	7.20	9.60
150	150R/SP	150R/SP/120WM	30	2.40	4.80	7.20	9.60
150	150A	75ER30	75	6.00	12.00	18.00	24.00
300	300R/FL	120ER40	180	14.40	28.80	43.20	57.60
300	300R/FL	Q250PAR38FL	50	12.00	24.00	36.00	48.00
300	300R/SP	Q250PAR38SP	50	12.00	24.00	36.00	48.00
425	Q425T3/CL	Q500/350WM	75	6.00	12.00	18.00	24.00
500	Q500T3/CL	Q500/350WM	150	12.00	24.00	36.00	48.00
1500	Q1500T3/CL	Q1500/900WM	600	48.00	96.00	144.00	192.00
(1) DOLLARS SAVED (\$) = $\frac{\text{WATTS SAVED (W)} \times \text{RATED LAMP LIFE (HOURS)} \times \text{ELECTRIC RATE (\$/KWH)}}{1000}$							



INCANDESCENT LAMPS

The incandescent lamps shown in this section are used for general lighting and some special applications.

In an incandescent lamp, light is generated by heating the filament to incandescence. The hotter the filament, the more efficient it is in converting electricity to light. However, when the filament operates hotter, its life is shortened so the design of each lamp is a balance between efficiency and life. This is why lamps of equal wattage may have different lumen ratings and different life ratings. Recent technological advances have made increases in lamp efficiency possible with no loss in lamp life. These improvements have been incorporated into **WATT-MISER®** and **MISER®** incandescent general service lamps.

Incandescent lamps of similar size are commonly available with different wattage ratings. The fixture wattage limit should not be exceeded.

Protection From Moisture. Lamps shown with a "★" symbol in the "Bulb" column have outer bulbs of special thermal-shock-resistant glass. However, external protection of the lamps is sometimes needed to eliminate the chance of bulb breakage resulting from contact with water during operation. Where no "★" is shown, the bulb glass is such that the lamps require protection from exposure to mist or condensation, as well as direct contact with water, during operation.

Life. Rated Average Life is an **average** value based on laboratory tests of representative groups of lamps under controlled conditions. Rated average life is based on survival of 50% of the lamps, and allows for individual lamps or a group of lamps to vary considerably from the average.

Bases. When no symbol appears in the "Base" column, the lamp is supplied only with an aluminum base. The symbol "▲" in the "Base" column indicates the lamp is offered only with a brass base.

Burning Position. Unless otherwise stated, the lamp can be burned in any position.

Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)	Approx. Initial Lumens
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2-WATTS

B-10	▲Cand.	42535	2CAC/FL	120	60	Clear—"Flicker" (85)	...	...	3 1/2	2500	...
		42537	2CAC/FL CARD	120	60	Clear—"Flicker", 6PK. 1-Lp. Cd. (85)	...	...	3 1/2	2500	...

3 WATTS—5 WATTS

S-6	Cand.	11096	3S6/5	120	240	Clear—Indicator	C-7A	1 7/8	1 5/16	3000	12
		11098	3S6/5	130	240	Clear—Indicator	C-7A	1 7/8	1 5/16	3000	12
	D.C.Bay.	35326	3S6/5DC	120	240	Clear—Indicator	C-7A	1 13/16	...	3000	12
C-7	Cand.	43050	4C7 CARD/2	120	240★	MISER® Clear—Night Light. Ret. Pk. (15)	C-7A	2 1/8	...	3000	16
S-11	S.C.Bay.	11138	5S11/94SC	10	120	Clear—Railway Signal Light (70)	C-2R	2 3/8	1 1/4	1000	...
S-14	Medium	11182	5S14	34	120	Clear—Train	C-9	3 1/2	...	1000	...

6 WATTS

	Cand.	11367	6S6 TRAY	120	240	Clear—Indicator. 12-Lamp Tray	C-7A	1 7/8	1 5/16	1500	41
		11369	6S6 TRAY	130	240	Clear—Indicator. 12-Lamp Tray	C-7A	1 7/8	1 5/16	1500	41
		11577	6S6/3	120	240	Clear—Signal Light (6)	C-1	1 7/8	...	5000+	...
		11370	6S6	135	240	Clear—Indicator	C-7A	1 7/8	1 5/16	1500	41
		11372	6S6	145	240	Clear—Indicator	C-7A	1 7/8	1 5/16	1500	41
		11374	6S6	155	240	Clear—Indicator	C-7A	1 7/8	1 5/16	1500	41
		11485	6S6/R TRAY	120	240	Red—Indicator. 12-Lamp Tray	C-7A	1 7/8	...	1500	...
		11481	6S6/R	130	240	Red—Indicator	C-7A	1 7/8	...	1500	...
		11523	6S6/W TRAY	120	240	White—Indicator. 12-Lamp Tray	C-7A	1 7/8	...	1500	34
		11565	6S6/B	120	240	Glossy Blue—Train	C-7A	1 7/8	...	1500	...
		11532	6S6/G	130	240	Sprayed Green—Indicator	C-7A	1 7/8	...	1500	...
	D.C.Bay.	11592	6S6DC TRAY	120	240	Clear—Indicator. 12-Lamp Tray	C-7A	1 13/16	1 1/16	1500	41
		11594	6S6DC TRAY	130	240	Clear—Indicator. 12-Lamp Tray	C-7A	1 13/16	1 1/16	1500	41
		11605	6S6DC/G	130	240	Green—Indicator	C-7A	1 13/16	...	1500	...
		11603	6S6DC/R	130	240	Red—Indicator	C-7A	1 13/16	...	1500	...
		11608	6S6DC	135	240	Clear—Indicator	C-7A	1 13/16	1 1/16	1500	41
	Intermed.	11609	6S6DC	145	240	Clear—Indicator	C-7A	1 13/16	1 1/16	1500	41
		11660	6S6/7 TRAY	120	240	Clear—Indicator	C-7A	1 13/16	...	1500	...
		11762	6T4 1/2/1	120	100	Clear—Indicator	C-7A	1 7/8	...	1500	42
T-4 1/2	Cand.	11764	6T4 1/2/1	130	100	Clear—Indicator	C-7A	1 7/8	...	1500	42
T-4	▲Cand.	11758	6T4/3	125	100	Clear—Coils in series	2C-2F	1 7/16	1	1500	...
	Cand.	11311	6S6	6	240	Clear—Indicator	C-2R	1 7/8	1 5/16	1500	...
		11316	6S6	12	240	Clear—Indicator	C-2V	1 7/8	1 5/16	1500	...
		11329	6S6	24	240	Clear—Indicator	C-2V	1 7/8	1 5/16	1500	...
	D.C.Bay.	11620	6S6DC	24	240	Clear—Indicator	C-2V	1 13/16	1 1/16	1500	...
	Cand.	11331	6S6	30	240	Clear—Train	C-2V	1 7/8	1 5/16	1500	50

★ Indicates total count of 2-lamp carded packs in standard package. Multiply by 2 to determine actual quantity of lamps.

INCANDESCENT LAMPS



Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)	Approx. Initial Lumens
6 WATTS (Continued)											
	▲Cand.	43397	6S6/BB	32	240	Clear—Train	C-2V	1 ⁷ / ₈	1 ⁵ / ₁₆	1500	...
	Cand.	11341	6S6	48	240	Clear—Indicator	C-7A	1 ⁷ / ₈	1 ⁵ / ₁₆	1500	...
		11346	6S6	60	240	Clear—Train	C-7A	1 ⁷ / ₈	1 ⁵ / ₁₆	1500	...
	D.C. Bay.	11586	6S6/5DC	60	240	Clear—Teletype Illuminator	C-1	1 ¹³ / ₁₆	1 ¹ / ₁₆	1500	...
	Cand.	11356	6S6	75	240	Clear—Train Indicator	C-7A	1 ⁷ / ₈	1 ⁵ / ₁₆	1500	...
	D.C. Bay.	11357	6S6DC	75	240	Clear—Indicator	C-7A	1 ¹³ / ₁₆	1 ¹ / ₁₆	1500	...
7 WATTS											
	Cand.	11779	7C7 TRAY	120	240	Clear—Indicator. 12-Lamp Tray	C-7A	2 ¹ / ₈	...	3000	46
		11792	7C7 TRAY	130	240	Clear—Indicator. 12-Lamp Tray	C-7A	2 ¹ / ₈	...	3000	46
		11815	7C7/W TRAY	120	240	White—Night Light. 12-Lamp Tray	C-7A	2 ¹ / ₈	...	3000	36
		43052	7C7/W CARD/2	120	240☆	White—Night Light. Retail Pack	C-7A	2 ¹ / ₈	...	3000	36
		11805	7C7/O TRAY	120	240	Orange—Indicator. 12-Lamp Tray	C-7A	2 ¹ / ₈	...	3000	...
		11809	7C7/R TRAY	120	240	Red—Indicator. 12-Lamp Tray	C-7A	2 ¹ / ₈	...	3000	...
7.4 WATTS—7½ WATTS											
T-6½	D.C. Bay.	43409	7.4T6½DC/F	10.5	60	Frost—Exit Sign (53)	C-8	5 ¹ / ₂	...	10000	55
	Medium	11847	7½S TRAY	120	240	Clear—12-Lamp Tray	C-9	2 ¹ / ₄	...	1400	53
		11848	7½S TRAY	130	240	Clear—12-Lamp Tray	C-9	2 ¹ / ₄	...	1400	53
		11921	7½S/CW TRAY	120	240	White—12-Lamp Tray	C-9	2 ¹ / ₄	...	1400	39
		41267	7½S/CW CARD	120	240	White—12-Pack	C-9	2 ¹ / ₄	...	1400	39
		11922	7½S/CW TRAY	130	240	White—12-Lamp Tray	C-9	2 ¹ / ₄	...	1400	39
		11867	7½S/CB TRAY	120	240	Blue—12-Lamp Tray	C-9	2 ¹ / ₄	...	1400	...
		11880	7½S/CG TRAY	120	240	Green—12-Lamp Tray	C-9	2 ¹ / ₄	...	1400	...
		11894	7½S/CO TRAY	120	240	Orange—12-Lamp Tray	C-9	2 ¹ / ₄	...	1400	...
		11895	7½S/CO TRAY	130	240	Orange—12-Lamp Tray	C-9	2 ¹ / ₄	...	1400	...
		11910	7½S/CR TRAY	120	240	Red—12-Lamp Tray	C-9	2 ¹ / ₄	...	1400	...
		39227	7½S/CR CARD	120	240	Red—12-Pack	C-9	2 ¹ / ₄	...	1400	...
		11911	7½S/CR TRAY	130	240	Red—12-Lamp Tray	C-9	2 ¹ / ₄	...	1400	...
10 WATTS											
C-7	D.C. Bay.	11994	10C7DC TRAY	120	240	Clear—Indicator. 12-Lamp Tray (6)	C-7A	2 ³ / ₁₆	...	5000 +	40
		12004	10C7/1DC	120	120	Clear—Indicator (Noise Free) (6)	C-1	2 ³ / ₁₆	1 ³ / ₁₆	5000 +	...
		12014	10C7/5DC	120	120	Clear—Indicator. Rough Service (6)	C-7A	2 ³ / ₁₆	...	5000 +	...
	Cand.	11975	10C7 TRAY	120	240	Clear—Indicator. 12-Lamp Tray (6)	C-7A	2 ¹ / ₈	...	5000 +	42
	▲Medium	12342	10S14	120	120	Clear—Sign	C-9	3 ¹ / ₂	2 ¹ / ₂	1500	80
		12411	10S14/IF	120	120	Inside Frost—Sign	C-9	3 ¹ / ₂	2 ¹ / ₂	1500	79
		12420	10S14/CB	120	120	Blue—Sign & Decorative	C-9	3 ¹ / ₂	...	1500	...
		12433	10S14/CG	120	120	Green—Sign & Decorative	C-9	3 ¹ / ₂	...	1500	...
		12449	10S14/CO	120	120	Orange—Sign & Decorative	C-9	3 ¹ / ₂	...	1500	...
		12455	10S14/CR	120	120	Red—Sign & Decorative	C-9	3 ¹ / ₂	...	1500	...
		12472	10S14/CW	120	120	White—Sign & Decorative	C-9	3 ¹ / ₂	...	1500	...
		12483	10S14/CY	120	120	Yellow—Sign & Decorative	C-9	3 ¹ / ₂	...	1500	45
	▲Intermed.	12186	10S11N	120	120	Clear—Sign	C-7A	2 ⁵ / ₁₆	1 ⁵ / ₈	1500	80
		12185	10S11N	130	120	Clear—Sign	C-7A	2 ⁵ / ₁₆	1 ⁵ / ₈	1500	80
	Intermed.	12188	10S11N/F	120	120	Frost—Appliance	C-7A	2 ⁵ / ₁₆	1 ⁵ / ₈	1500	79
	▲Intermed.	12206	10S11N/CB	130	120	Blue—Sign & Decorative	C-7A	2 ⁵ / ₁₆	...	1500	...
		12217	10S11N/CG	130	120	Green—Sign & Decorative	C-7A	2 ⁵ / ₁₆	...	1500	...
		12222	10S11N/CO	130	120	Orange—Sign & Decorative	C-7A	2 ⁵ / ₁₆	...	1500	...
		12227	10S11N/CR	130	120	Red—Sign & Decorative	C-7A	2 ⁵ / ₁₆	...	1500	...
		12233	10S11N/CW	130	120	White—Sign & Decorative	C-7A	2 ⁵ / ₁₆	...	1500	...
		12238	10S11N/CY	130	120	Yellow—Sign & Decorative	C-7A	2 ⁵ / ₁₆	...	1500	...
		33226	10S11N/TB	130	120	Transparent Blue—Sign	C-7A	2 ⁵ / ₁₆	1 ⁵ / ₈	1500	...
		33227	10S11N/TG	130	120	Transparent Green—Sign	C-7A	2 ⁵ / ₁₆	1 ⁵ / ₈	1500	...
		33206	10S11N/TO	130	120	Transparent Orange—Sign	C-7A	2 ⁵ / ₁₆	1 ⁵ / ₈	1500	...
		33228	10S11N/TR	130	120	Transparent Red—Sign	C-7A	2 ⁵ / ₁₆	1 ⁵ / ₈	1500	...
		35639	10S11N/TY	130	120	Transparent Yellow—Sign	C-7A	2 ⁵ / ₁₆	1 ⁵ / ₈	1500	...

High Brilliance
Weather tough

☆ Indicates total count of 2-lamp carded packs in standard package. Multiply by 2 to determine actual quantity of lamps.



INCANDESCENT LAMPS

Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)	Approx. Initial Lumens
10 WATTS (Continued)											
S-11	Cand.	12249	10S11/79	120	120	Clear—Indicator	C-7A	2 ¹ / ₄	1 ⁹ / ₁₆	1500	...
	S.C. Bay.	12154	10S11/5SC	120	120	Clear—Railway Signal Light (69)	C-7A	2 ³ / ₈	1 ¹ / ₄	1500	...
S-6	Cand.	12041	10S6/10	230	240	Clear—Indicator	C-7A	1 ⁷ / ₈	1 ⁵ / ₁₆	1500	74
		12050	10S6/10	250	240	Clear—Indicator	C-7A	1 ⁷ / ₈	1 ⁵ / ₁₆	1500	74
	D.C. Bay.	12060	10S6/10DC	230	240	Clear—Indicator	C-7A	1 ¹³ / ₁₆	1 ¹ / ₁₆	1500	74
		12061	10S6/10DC	250	240	Clear—Indicator	C-7A	1 ¹³ / ₁₆	1 ¹ / ₁₆	1500	74
	Intermed.	12107	10S6/13	250	240	Clear—Indicator	C-7A	1 ¹³ / ₁₆	...	1500	...

11 WATTS—13-3¹/₂ WATTS

S-14	▲Medium	12575	11S14	130	120	Clear—Sign	C-9	3 ¹ / ₂	2 ¹ / ₂	3000	80
		12589	11S14/IF	130	120	Inside Frost—Sign	C-9	3 ¹ / ₂	2 ¹ / ₂	3000	79
		12597	11S14/B	130	120	Blue—Sign	C-9	3 ¹ / ₂	...	3000	...
		12602	11S14/G	130	120	Green—Sign	C-9	3 ¹ / ₂	...	3000	...
		12613	11S14/O	130	120	Orange—Sign	C-9	3 ¹ / ₂	...	3000	...
		12621	11S14/R	130	120	Red—Sign	C-9	3 ¹ / ₂	...	3000	...
		12626	11S14/W	130	120	White—Sign	C-9	3 ¹ / ₂	...	3000	59
		12632	11S14/Y	130	120	Yellow—Sign	C-9	3 ¹ / ₂	...	3000	51
		12639	11S14/TB	130	120	Transparent Blue—Sign	C-9	3 ¹ / ₂	2 ¹ / ₂	3000	...
		12641	11S14/TG	130	120	Transparent Green—Sign	C-9	3 ¹ / ₂	2 ¹ / ₂	3000	...
		12643	11S14/TO	130	120	Transparent Orange—Sign	C-9	3 ¹ / ₂	2 ¹ / ₂	3000	...
		12645	11S14/TR	130	120	Transparent Red—Sign	C-9	3 ¹ / ₂	2 ¹ / ₂	3000	...
		12647	11S14/TY	130	120	Transparent Yellow—Sign	C-9	3 ¹ / ₂	2 ¹ / ₂	3000	...
S-11	S.C. Bay.	12567	11S11SC	11	120	Clear—Railway Signal Light (70)	CC-6	2 ³ / ₈	1 ¹ / ₄	2500	...
		12649	13/3 ¹ / ₂ S11/95	10	120	Clear—Railway Signal Light Filament in multiple (70)	CC-6 CC-12	2 ³ / ₈	1 ¹ / ₄	1000	...

15 WATTS

A-15	Medium	12656	15A15	120	120	Inside Frost	C-9	3 ¹ / ₂	2 ³ / ₈	2500	125
		41269	15A15 24PK	120	120	Inside Frost	C-9	3 ¹ / ₂	2 ³ / ₈	2500	125
		12658	15A15	130	120	Inside Frost	C-9	3 ¹ / ₂	2 ³ / ₈	2500	125
		41270	15A/W 24PK	120	120	Soft-White	C-9	3 ¹ / ₂	...	2500	120
B-10	Cand.	13014	15BC 12PK	120	120	Crystal (Clear)—Blunt Tip	C-7A	3 ³ / ₄	1 ⁵ / ₈	1500	136
CA-8	▲Cand.	41528	15CAC 12PK	120	120	Crystal (Clear)—Bent Tip (15)	C-7A	3 ⁹ / ₁₆	1 ⁹ / ₁₆	1500	...
		47929	15CAC CARD/2	120	60☆	Crystal (Clear)—Bent Tip (15)	C-7A	3 ⁹ / ₁₆	1 ⁹ / ₁₆	1500	...
		41527	15CAC/F 12PK	120	120	Satin (Frost)—Bent Tip (15)	C-7A	3 ⁹ / ₁₆	1 ⁹ / ₁₆	1500	...
		47930	15CAC/F CARD/2	120	60☆	Satin (Frost)—Bent Tip (15)	C-7A	3 ⁹ / ₁₆	1 ⁹ / ₁₆	1500	...
		41524	15CAC/L	120	120	Crystal (Clear)—Bent Tip (15)	C-7A	3 ⁹ / ₁₆	1 ⁹ / ₁₆	4000	...
F-10	Cand.	13073	15FC 12PK	120	120	Crystal (Clear)—Flame	C-7A	3 ¹ / ₈	...	1500	136
		47928	15FC CARD/2	120	60☆	Crystal (Clear)—Flame	C-7A	3 ¹ / ₈	...	1500	136
		40980	15FC/L (15FC/4)	120	120	Crystal (Clear)—Flame	C-7A	3 ¹ / ₈	1 ⁵ / ₈	4000	...
		13074	15FC/A 12PK	120	120	Amber—Flame	C-7A	3 ¹ / ₈	...	1500	...
		47926	15FC/A CARD/2	120	60☆	Amber—Flame	C-7A	3 ¹ / ₈	...	1500	...
		40981	15FC/A/L (15FC/A4)	120	120	Amber—Flame	C-7A	3 ¹ / ₈	1 ⁵ / ₈	4000	...
		13076	15FC/AU 12PK	120	120	Auradescent—Flame	C-7A	3 ¹ / ₈	...	1500	...
		47927	15FC/AU CARD/2	120	60☆	Auradescent—Flame	C-7A	3 ¹ / ₈	...	1500	...
		13124	15GC	120	60	Crystal (Clear)—Globe	C-7A	3	...	1500	130
G-16 ¹ / ₂		12985	15GC 12PK	120	120	Crystal (Clear)—Globe	C-7A	3	...	1500	130
		13134	15GC/W	120	60	Pearl (White)—Globe	C-7A	3	...	1500	120
		39931	15GC/W 12PK	120	120	Pearl (White)—Globe	C-7A	3	...	1500	120
		12578	15GC/L (15GC/4)	120	60	Crystal (Clear)—Globe	C-7A	3	...	4000	...
		40985	15GC/W/L (15GC/W4)	120	60	Pearl (White)—Globe	C-7A	3	1 ⁵ / ₈	4000	...
T-7	D.C. Bay.	13453	15T7DC	120	120	Clear—Appliance†	C-7A	2 ¹ / ₄	1 ⁵ / ₁₆	(29)	108
		35154	15T7DC CARD	120	240	Clear—Appliance. 12-Pack†. Ret. Pk.	C-7A	2 ¹ / ₄	1 ⁵ / ₁₆	(29)	108
		13467	15T7DC/F	120	120	Frost—Appliance†	C-7A	2 ¹ / ₄	1 ⁵ / ₁₆	(29)	106
	Intermed.	35153	15T7N CARD	120	240	Clear—Appliance†	C-7A	2 ¹ / ₄	1 ⁹ / ₁₆	(29)	108
	Cand.	13494	15T7C	120	120	Clear—Signal Light. Appliance†	C-7A	2 ¹ / ₄	1 ¹ / ₂	3000 (29)	108

☆ Indicates total count of 2-lamp carded packs in standard package. Multiply by 2 to determine actual quantity of lamps.

† Wattage shown is nominal. Design current is 0.139A at 120 watts.

INCANDESCENT LAMPS



Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)	Approx. Initial Lumens
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15 WATTS (Continued)

T-8	Cand.	13565	15T8C	120	60	Clear—Tubular	C-7A	3 ¹ / ₁₆	...	750	150
T-10	Medium	34407	15T10 24PK	120	120	Clear—Aquarium	C-8	5 ⁵ / ₈	...	2500	...
A-15 	▲Medium	12828	15A/B	120	120	Blue	C-9	3 ¹ / ₂	...	2500	...
		12830	15A/G	120	120	Green	C-9	3 ¹ / ₂	...	2500	...
		12832	15A/O	120	120	Orange	C-9	3 ¹ / ₂	...	2500	...
		12833	15A/R	120	120	Red	C-9	3 ¹ / ₂	...	2500	...
		12836	15A/Y	120	120	Yellow	C-9	3 ¹ / ₂	...	2500	...
		32173	15S14/GR/CL	130	120	Clear—Sign	C-9	3 ¹ / ₂	2 ¹ / ₂	3000	...
S-14	Cand.	32175	15S14/GR/IF	130	120	Inside Frost—Sign	C-9	3 ¹ / ₂	2 ¹ / ₂	3000	...
		13210	15S11/13	120	120	Clear	C-7A	2 ¹ / ₄	1 ⁹ / ₁₆	750	137
S-11	Medium	13236	15S11/14	120	120	Clear—Medical Spotlight	C-7A	2 ¹ / ₄	1 ³ / ₈	200	150
		13291	15S11/102 TRAY	120	240	Clear—Refrigerator, 12-Lamp Tray	C-7A	2 ¹ / ₄	...	400	137
T-6	Cand.	13390	15T6	120	60	Clear—Switchboard	C-7A	3 ¹ / ₁₆	...	2000	107
		13402	15T6	145	60	Clear—Switchboard	C-7A	3 ¹ / ₁₆	...	2000	102
A-17	Medium	12767	15A	12	120	Inside Frost (53)	C-6	3 ⁵ / ₈	2 ³ / ₈	1000	...
R-14 	S.C. Bay.	34555	15R14SC/FL	12	120	Reflector Floodlight—Inside Frost	CC-8	2 ⁵ / ₈	...	2000	...
		33404	15R14SC/SP	12	120	Reflector Spotlight—Light Inside Frost (36)	CC-8	2 ⁵ / ₈	...	2000	140
A-17	Medium	12784	15A	34	120	Inside Frost—Train	C-9	3 ⁵ / ₈	2 ³ / ₈	1000	...
S-14	▲Medium	42590	15S14/F/BB	34	120	Frost—Locomotive Cab	C-9	3 ¹ / ₂	2 ¹ / ₂	1000	144
A-17	Medium	12813	15A	75	120	Inside Frost—Train	C-9	3 ⁵ / ₈	2 ³ / ₈	1000	147
S-11	D.C. Bay.	13188	15S11/3DC	75	120	Clear—Train	C-1	2 ³ / ₈	1 ¹ / ₄	1000	138
A-17	Medium	12871	15A	230	120	Inside Frost	C-7A	3 ⁵ / ₈	2 ³ / ₈	1000	120

15-135-150 WATTS—MISER®

A-21	3-Contact Medium	49997	15/150 12PK	120	60	◆MISER—3-Way (14)	C-2R CC-8	5 ¹ / ₄	3 ⁷ / ₈	1500 1200 1200	80, 2330, 2410
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18 WATTS

A-15 	2-Lug Sleeve	13630	18A15/3	10	120	Clear—Railway Signal Light (10)	CC-6	3 ³ / ₄	2 ⁷ / ₃₂	1500	...
	3-Lug Sleeve	13636	18A15/7	10	120	Clear—Railway Signal Light (10)	CC-6	3 ³ / ₄	2 ³ / ₃₂	1500	...
	2-Lug Sleeve	13644	18/3.5A15/5	10	120	Clear—Railway Signal Light. Filament in multiple (10)	CC-6 CC-6	3 ³ / ₄	2 ⁷ / ₃₂	1500	...
	3-Lug Sleeve	13647	18/3.5A15/7	10	120	Clear—Railway Signal Light. Filament in multiple (10)	CC-6 CC-6	3 ³ / ₄	2 ³ / ₁₆	1500	...
S-11	S.C. Bay.	13655	18S11/1SC	10	120	Clear—Railway Signal Light (70)	CC-6	2 ³ / ₈	1 ¹ / ₄	2000	250
		13659	18/3½S11SC	10	120	Clear—Railway Signal Light. Filament in multiple (70)	CC-6 C-12	2 ³ / ₈	1 ¹ / ₄	1000	...

20 WATTS

A-17	▲Medium	13665	20A17/5	130	120	Clear—Flashing Sign	C-9	3 ⁵ / ₈	2 ³ / ₈	1000	158
T-6½	Intermed.	34272	20T6½/F	120	60	Frost—Exit Light (6)	C-8	5 ¹ / ₂	...	5000 +	...
	D.C. Bay.	34241	20T6½DC/F	120	60	Frost—Exit Light (6)	C-8	5 ⁹ / ₁₆	...	5000 +	...
R-12	S.C. Bay.	13674	20R12SC	30	100	Train Reading Light—Reflector, Light Outside Frost (1A, 34, 36)	CC-8	2 ⁵ / ₈	...	500	...

25 WATTS

A-19 	Medium	13828	25A	120	120	Inside Frost	C-9	3 ⁷ / ₈	2 ³ / ₈	2500	235
		41271	25A 24PK	120	120	Inside Frost	C-9	3 ⁷ / ₈	2 ³ / ₈	2500	235
		35613	25A	130	120	Inside Frost	C-9	3 ⁷ / ₈	2 ³ / ₈	2500	235
		41272	25A/W 24PK	120	120	Soft-White	C-9	4 ¹ / ₄	...	2500	190
		13990	25A/CL	120	120	Clear—Decorative	C-9	3 ⁷ / ₈	2 ³ / ₈	2500	235
		15064	25A/CL 24PK	120	120	Clear—Decorative	C-9	3 ⁷ / ₈	2 ³ / ₈	2500	235
		13992	25A/CL	130	120	Clear—Decorative	C-9	3 ⁷ / ₈	2 ³ / ₈	2500	235
	▲Medium	14737	25A/CVG 24PK	130	24	Inside Frost—Teflon Coated	C-9	3 ⁷ / ₈	...	2500	...

◇ To produce all three levels of light, this lamp should be tightened firmly but not forcibly in the socket to assure that all contacts are connected.



INCANDESCENT LAMPS

Bulb	Base	Product Code	Lamp Ordering Code		Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)	Approx. Initial Lumens
25 WATTS (Continued)												
A-19	Medium	33486	25A/RS	24PK	120	120	Inside Frost—Rough Service	C-17	3 ⁷ / ₈	2 ⁹ / ₁₆	1000	235
		33488	25A/RS	24PK	130	120	Inside Frost—Rough Service	C-17	3 ⁷ / ₈	2 ⁹ / ₁₆	1000	235
B-10	Cand.	14329	25BC	12PK	120	120	Crystal (Clear)—Blunt Tip—BDTH	C-7A	3 ³ / ₄	1 ⁵ / ₈	1500	...
		47939	25BC	CARD/2	120	60☆	Crystal (Clear)—Blunt Tip—BDTH	C-7A	3 ³ / ₄	1 ⁵ / ₈	1500	...
		14340	25BC/W	12PK	120	120	Pearl (White)—Blunt Tip—BDTH	C-7A	3 ³ / ₄	...	1500	...
B-13	Medium	13057	25BM	12PK	120	120	Crystal (Clear)—Blunt Tip (15)	C-9	4 ⁵ / ₈	...	1500	...
		14354	25BM/W	12PK	120	120	Pearl (White)—Blunt Tip	C-9	4 ⁵ / ₈	...	1500	...
CA-9		40043	25CAM/L		120	120	Crystal (Clear)—Bent Tip	CC-2V	4 ⁹ / ₁₆	2 ¹ / ₈	4000	...
		40044	25CAM/F/L		120	120	Satin (Frost)—Bent Tip	CC-2V	4 ⁹ / ₁₆	2 ¹ / ₈	4000	...
CA-10	▲Cand.	34649	25CAC	12PK	120	120	Crystal (Clear)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	2 ¹ / ₈	1500	...
		47933	25CAC	CARD/2	120	60☆	Crystal (Clear)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	2 ¹ / ₈	1500	...
		34650	25CAC/F	12PK	120	120	Satin (Frost)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	2 ¹ / ₈	1500	...
		47934	25CAC/F	CARD/2	120	60☆	Satin (Frost)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	2 ¹ / ₈	1500	...
		40045	25CAC/L		120	120	Crystal (Clear)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	...	4000	...
		40046	25CAC/F/L		120	120	Satin (Frost)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	...	4000	...
ST-9 ¹ / ₂		47931	25STC	CARD/2	120	60☆	Crystal (Clear)—Straight Tip—BDTH (15)	CC-2V	4	1 ³ / ₄	1500	...
F-15	Medium	14403	25FM	12PK	120	120	Crystal (Clear)—Flame	C-9	4 ³ / ₈	...	1500	240
		47935	25FM	CARD/2	120	60☆	Crystal (Clear)—Flame (15)	C-9	4 ³ / ₈	...	1500	240
		40982	25FM/L		120	120	Crystal (Clear)—Flame	C-9	4 ³ / ₈	...	4000	...
		14405	25FM/W	12PK	120	120	Pearl (White)—Flame	C-9	4 ³ / ₈	...	1500	179
		47938	25FM/W	CARD/2	120	60☆	Pearl (White)—Flame (15)	C-9	4 ³ / ₈	...	1500	179
		14404	25FM/A	12PK	120	120	Amber—Flame	C-9	4 ³ / ₈	...	1500	...
		47936	25FM/A	CARD/2	120	60☆	Amber—Flame	C-9	4 ³ / ₈	...	1500	...
		40983	25FM/A/L (25FM/A4)		120	120	Amber—Flame	C-9	4 ³ / ₈	...	4000	...
		14451	25FM/AU	12PK	120	120	Auradescent—Flame	C-9	4 ³ / ₈	...	1500	...
F-10	Cand.	47937	25FM/AU	CARD/2	120	60☆	Auradescent—Flame	C-9	4 ³ / ₈	...	1500	...
		14385	25FC	12PK	120	120	Crystal (Clear)—Flame	C-7A	3 ¹ / ₈	...	1500	...
G-16 ¹ / ₂		12991	25FC	CARD/2	120	60☆	Crystal (Clear)—Flame	C-7A	3 ¹ / ₈	...	1500	...
		14457	25GC		120	60	Crystal (Clear)—Globe	C-7A	3	1 ⁵ / ₈	1500	235
		11303	25GC	12PK	120	120	Crystal (Clear)—Globe	C-7A	3	1 ⁵ / ₈	1500	235
		11351	25GC	CARD	120	60	Crystal (Clear)—Globe (15)	C-7A	3	1 ⁵ / ₈	1500	235
		14472	25GC/W		120	60	Pearl (White)—Globe	C-7A	3	...	1500	210
		39679	25GC/W	12PK	120	120	Pearl (White)—Globe	C-7A	3	...	1500	210
		11142	25GC/W	CARD	120	60	Pearl (White)—Globe (15)	C-7A	3	...	1500	210
		43158	25GC/L (25GC/4)		120	60	Crystal (Clear)—Globe	C-7A	3	1 ⁵ / ₈	4000	...
		40986	25GC/W/L		120	60	Pearl (White)—Globe	C-7A	3	1 ⁵ / ₈	4000	...
G-18 ¹ / ₂	Medium	14507	25G18 ¹ / ₂ /W		120	120	Pearl (White)—Globe	C-9	3 ⁹ / ₁₆	...	1500	220
		14955	25G18 ¹ / ₂ /W	12PK	120	120	Pearl (White)—Globe	C-9	3 ⁹ / ₁₆	...	1500	220
G-25		14529	25G25		120	60	Crystal (Clear)—Globe	C-9	4 ⁵ / ₈	2 ⁹ / ₁₆	1500	240
		12983	25G25	6PK	120	24	Crystal (Clear)—Globe	C-9	4 ⁵ / ₈	2 ⁹ / ₁₆	1500	240
		14546	25G25/W		120	60	Pearl (White)—Globe (15)	C-9	4 ⁵ / ₈	...	1500	220
		12982	25G25/W	6PK	120	24	Pearl (White)—Globe	C-9	4 ⁵ / ₈	...	1500	220
		43144	25G25/L		120	60	Crystal (Clear)—Globe	C-9	4 ⁵ / ₈	2 ⁹ / ₁₆	4000	...
		12968	25G25/W/L		120	24	Pearl (White)—Globe	C-9	4 ⁵ / ₈	...	4000	...
G-40		39625	25G40 (25G40/CL)		120	24	Crystal (Clear)—Globe	C-9	6 ¹⁵ / ₁₆	...	2500	160
		14956	25G40	6PK	120	6	Crystal (Clear)—Globe	C-9	6 ¹⁵ / ₁₆	...	2500	160
		39626	25G40/W		120	24	Pearl (White)—Globe	C-9	6 ¹⁵ / ₁₆	...	2500	150
		14957	25G40/W	6PK	120	6	Pearl (White)—Globe	C-9	6 ¹⁵ / ₁₆	...	2500	150

☆ Indicates total count of 2-lamp carded packs in standard package. Multiply by 2 to determine actual quantity of lamps.

INCANDESCENT LAMPS



Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)	Approx. Initial Lumens
25 WATTS (Continued)											
	▲Medium	37577	25A/B 24PK	120	120	Blue	C-9	3 ⁷ / ₈	...	2500	...
		37578	25A/G 24PK	120	120	Green	C-9	3 ⁷ / ₈	...	2500	...
		14068	25A/O	120	120	Orange	C-9	3 ⁷ / ₈	...	2500	...
		37579	25A/R 24PK	120	120	Red	C-9	3 ⁷ / ₈	...	2500	...
		14118	25A/R2	120	120	Rose	C-9	3 ⁷ / ₈	...	2500	...
		37793	25A/Y 24PK	120	120	Yellow	C-9	3 ⁷ / ₈	...	2500	180
		14293	25A19/GR/CL	130	120	Clear—Sign. Group Replacement	C-9	3 ⁷ / ₈	2 ³ / ₈	3000	...
		14294	25A19/GR/IF	130	120	Inside Frost—Sign	C-9	3 ⁷ / ₈	2 ³ / ₈	3000	...
	Medium	49724	25A/TB 6PK	120	120	Transparent Blue—"Party Bulb"	C-9	3 ⁷ / ₈	2 ³ / ₈	2500	...
		49725	25A/TG 6PK	120	120	Transparent Green—"Party Bulb"	C-9	3 ⁷ / ₈	2 ³ / ₈	2500	...
		49726	25A/TO 6PK	120	120	Transparent Orange—"Party Bulb"	C-9	3 ⁷ / ₈	2 ³ / ₈	2500	...
		49727	25A/TR 6PK	120	120	Transparent Red—"Party Bulb"	C-9	3 ⁷ / ₈	2 ³ / ₈	2500	...
		49728	25A/TY 6PK	120	120	Transparent Yellow—"Party Bulb"	C-9	3 ⁷ / ₈	2 ³ / ₈	2500	...
	▲Medium High Brilliance Weather-tough	14299	25A19/GR/TB	130	120	Transparent Blue—Sign	C-9	3 ⁷ / ₈	2 ³ / ₈	3000	...
		14301	25A19/GR/TG	130	120	Transparent Green—Sign	C-9	3 ⁷ / ₈	2 ³ / ₈	3000	...
		14303	25A19/GR/TO	130	120	Transparent Orange—Sign	C-9	3 ⁷ / ₈	2 ³ / ₈	3000	...
		14305	25A19/GR/TR	130	120	Transparent Red—Sign	C-9	3 ⁷ / ₈	2 ⁷ / ₈	3000	...
		14307	25A19/GR/TY	130	120	Transparent Yellow—Sign	C-9	3 ⁷ / ₈	2 ³ / ₈	3000	...
A-15	▲Medium	44448	25A15/RFL	130	120	Reflector Sign—Light Inside Frost	C-9	3 ¹ / ₂	2 ³ / ₈	3000	...
G-16½	S.C. Bay.	14483	25G16½SC	120	60	Clear—Railway Signal Light (69)	C-5	3	1 ¹ / ₄	1000	...
S-6	Cand.	14567	25S6	115	240	★Clear—High Intensity Indicator	C-7A	1 ⁷ / ₈	1 ⁵ / ₁₆	50	...
S-11		14585	25S11/2C	120	120	★Clear—Medical Spotlight	C-7A	2 ¹ / ₄	1 ⁷ / ₁₆	500	...
	Intermed.	14639	25T6½	120	60	Clear—Showcase	C-8	5 ¹ / ₂	...	1000	244
		14641	25T6½	130	60	Clear—Showcase	C-8	5 ¹ / ₂	...	1000	244
		14666	25T6½/F	120	60	Frost—Showcase	C-8	5 ¹ / ₂	...	1000	240
		14668	25T6½/F	130	60	Frost—Showcase	C-8	5 ¹ / ₂	...	1000	240
		14676	25T6½DC	120	60	Clear—Appliance—Scale Illum.	C-8	5 ⁹ / ₁₆	...	1000	244
	D.C. Bay.	14678	25T6½DC	130	60	Clear—Appliance—Scale Illum.	C-8	5 ⁹ / ₁₆	...	1000	244
		14683	25T6½DC/F	120	60	Frost—Appliance—Scale	C-8	5 ⁹ / ₁₆	...	1000	240
		14685	25T6½DC/F	130	60	Frost—Appliance—Scale	C-8	5 ⁹ / ₁₆	...	1000	240
		14741	25T8DC	120	60	Clear—Appliance	C-7A	2 ⁵ / ₈	1 ⁵ / ₁₆	(63)	195
		35155	25T8DC CARD	120	240	Clear—Appliance. 12-Pack. Ret. Pk.	C-7A	2 ⁵ / ₈	1 ⁵ / ₁₆	(63)	195
	Intermed.	14759	25T8DC/F	120	60	Frost—Appliance	C-7A	2 ⁵ / ₈	1 ⁵ / ₁₆	(63)	193
		14791	25T8N	120	60	Clear—Appliance	C-7A	2 ⁵ / ₈	1 ⁹ / ₁₆	(63)	195
		14809	25T8C	120	60	Clear—Appliance	C-7A	2 ⁵ / ₈	1 ¹ / ₂	(63)	195
	Cand.	14864	25T10	120	120	Clear—Showcase	C-8	5 ⁵ / ₈	...	1000	248
		14880	25T10 24PK	120	192	Clear—Showcase	C-8	5 ⁵ / ₈	...	1000	248
	Medium	41313	25T10 CARD	120	120	Clear—Showcase. 12-Pack. Ret. Pk.	C-8	5 ⁵ / ₈	...	1000	248
		14866	25T10	130	120	Clear—Showcase	C-8	5 ⁵ / ₈	...	1000	248
		14907	25T10/F	120	120	Frost—Showcase	C-8	5 ⁵ / ₈	...	1000	244
		14916	25T10/F 24PK	120	192	Frost—Showcase. Retail Pack	C-8	5 ⁵ / ₈	...	1000	244
		13487	25T10/F CARD	120	120	Frost—Showcase. Retail Pack	C-8	5 ⁵ / ₈	...	1000	244
		14909	25T10/F	130	120	Frost—Showcase	C-8	5 ⁵ / ₈	...	1000	244
		36682	25T10/6 24PK	120	120	Clear—Aquarium	C-8	5 ⁵ / ₈	...	2500	...
R-14	▲Intermed.	39156	25R14N	120	120	Reflector—Light Inside Frost (36)	CC-2V	2 ⁹ / ₁₆	...	1500	190
★PAR-36	Screw Terminal	14553	25PAR36	5.5	12	Pin Spot. Filament shielded	C-6	2 ³ / ₄	...	1000	...
★PAR-46		14562	25PAR46	5.5	12	Pin Spot. Filament shielded	C-6	3 ³ / ₄	...	1000	...
T-8	S.C. Pref. (A)	14804	25T8/SCP	6	24	Clear—Instrument. Source WxH: 0.8x4.5mm. BDTH (61)	C-8	3 ¹ / ₈	1 ⁵ / ₈	50	...
S-11	S.C. Bay.	14575	25S11/4SC	10	120	Clear—Railway Signal Light (70)	CC-6	2 ³ / ₈	1 ¹ / ₄	1000	...
A-19	Medium	13769	25A	12	120	Inside Frost (53)	C-6	3 ⁷ / ₈	2 ⁹ / ₁₆	1000	378
★PAR-36	Screw Terminal	14554	25PAR36NSP	12	12	Narrow Spot. Filament shielded	C-6	2 ³ / ₄	...	2000	...
		14555	25PAR36WFL	12	12	Wide Flood. Filament shielded	C-6	2 ³ / ₄	...	2000	...
		14556	25PAR36/VWFL	12	12	Very Wide Flood. Filament shielded	C-6	2 ³ / ₄	...	2000	...

(A) The plane containing the base axis and the major locking eyelet (the eyelet that is equidistant from the other two eyelets) is at right angles to the plane of the filament or lead wires. Distance from bottom of base contact to bottom of the collar is .406.

“★” indicates this lamp has been designed to meet certain purchaser requirements which precludes a guarantee of performance in other applications.



INCANDESCENT LAMPS

Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)	Approx. Initial Lumens	
25 WATTS (Continued)												
R-14	S.C. Bay.	34405	25R14SC/SP	12	120	Reflector Spot—Light Inside Frost	CC-8	2 ⁵ / ₈	...	2000	230	
		33091	25R14SC	28	120	Reflector Spot—Light Inside Frost	CC-8	2 ⁵ / ₈	...	2000	...	
A-19	Medium	13779	25A	30	120	Inside Frost—Train	C-9	3 ⁷ / ₈	2 ⁹ / ₁₆	1000	345	
		13784	25A	34	120	Inside Frost—Train	C-9	3 ⁷ / ₈	2 ⁹ / ₁₆	1000	390	
		13802	25A	60	120	Inside Frost—Train	C-9	3 ⁷ / ₈	2 ⁹ / ₁₆	1000	285	
A-17		13744	25A17/RS	75	120	Inside Frost—Train. Rough Service	C-9	3 ⁵ / ₈	2 ¹ / ₂	1000	250	
A-19		13872	25A	230	120	Inside Frost	C-17A	3 ⁷ / ₈	2 ⁹ / ₁₆	1000	220	
		13879	25A	250	120	Inside Frost	C-17A	3 ⁷ / ₈	2 ⁹ / ₁₆	1000	220	
		13889	25A	300	120	Inside Frost	C-17	3 ⁷ / ₈	2 ⁹ / ₁₆	1000	...	
		▲Medium	14108	25A/R	250	120	Red	C-17A	3 ⁷ / ₈	...	1000	...
T-6 ¹ / ₂	D.C. Bay.	14687	25T6 ¹ / ₂ DC/F	230	60	Frost—Scale Illuminator	C-8	5 ⁹ / ₁₆	...	1000	...	
T-10	Medium	14886	25T10	24PK	250	192	Clear—Showcase	C-17A	5 ⁵ / ₈	...	1000	...

30 WATTS

A-15	▲Medium	14129	30A15	130	120	Inside Frost—Changing Message Sign	C-9	3 ¹ / ₂	2 ³ / ₈	5000	...	
R-20	Medium	15003	30R20	120	60	Reflector—Light Inside Frost	C-7A	3 ¹⁵ / ₁₆	...	2000	210	
		41930	30R20	6PK	120	60	Reflector—Light Inside Frost. Ret. Pk.	C-7A	3 ¹⁵ / ₁₆	...	2000	210
		15000	30R20		130	60	Reflector—Light Inside Frost	C-7A	3 ¹⁵ / ₁₆	...	2000	210
G-16 ¹ / ₂	D.C. Bay.	14994	30G16 ¹ / ₂ /3DC	115	60	Clear—Medical Spot. Silver Bowl	CC-2V	3 ⁵ / ₁₆	1 ¹³ / ₁₆	500	...	
T-8	Disc	15029	L30	120	24	Clear—Lumiline (78)	C-8	17 ³ / ₄ °	...	1500	...	
		15071	L30/W	120	24	White—Lumiline (78)	C-8	17 ³ / ₄ °	...	1500	210	
S-11	D.C. Bay.	15011	30S11DC	64	120	Clear—Train Marker. BDTH	C-7A	2 ³ / ₈	1 ¹ / ₄	500	350	
		15012	30S11DC	75	120	Clear—Train Marker Control. BDTH	C-7A	2 ³ / ₈	1 ⁵ / ₁₆	500	...	

30-70-100 WATTS

A-21	3-Contact Medium	41273	30/100	12PK	120	60	◇ Soft-White—3-Way (14)	C-2R CC-8	5 ¹ / ₄	...	1500, 1200, 1200	280, 1035, 1315
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33 WATTS

A-19	▲Medium	42626	33A19/5	130	120	Clear—Changing Message Sign. Group Replacement	C-9	3 ⁷ / ₈	...	3000	...
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34 WATTS—WATT-MISER® AND WATT-MISER® PLUS

A-19	Medium	12612	40A/34WM	120	120	WATT-MISER — Inside Frost	CC-6	4 ⁷ / ₁₆	3 ¹ / ₈	1500	410	
		12620	40A/34WM	130	120	WATT-MISER — Inside Frost	CC-6	4 ⁷ / ₁₆	3 ¹ / ₈	1500	410	
	▲Medium	13010	40A/34WMP/99	120	120	WATT-MISER PLUS — Inside Frost	CC-6	4 ⁷ / ₁₆	3 ¹ / ₈	2500	365	
		13279	40A/34WMP/99	24PK	120	120	WATT-MISER PLUS — Inside Frost	CC-6	4 ⁷ / ₁₆	3 ¹ / ₈	2500	365
		13009	40A/34WMP/99		130	120	WATT-MISER PLUS — Inside Frost	CC-6	4 ⁷ / ₁₆	3 ¹ / ₈	2500	365

40 WATTS

	Medium	15288	40A		120	120	Inside Frost	CC-6	4 ⁷ / ₁₆	3 ¹ / ₈	1000	480
		13255	40A	48PK	120	144◆	Inside Frost	CC-6	4 ⁷ / ₁₆	3 ¹ / ₈	1000	480
		34034	40A		130	120	Inside Frost	CC-6	4 ⁷ / ₁₆	3 ¹ / ₈	1000	480
		13257	40A/W	48PK	120	144◆	Soft-White	CC-6	4 ⁷ / ₁₆	3 ¹ / ₈	1000	...
		13259	40A/WP	24PK	120	120	Longlife White (11)	CC-6	4 ⁷ / ₁₆	3 ¹ / ₈	1500	...
		15365	40A/CL		120	120	Clear	CC-6	4 ⁷ / ₁₆	3 ¹ / ₈	1500	480
		12311	40A/CL	24PK	120	120	Crystal (Clear)—Retail Pack	CC-6	4 ⁷ / ₁₆	3 ¹ / ₈	1500	480
		34125	40A/CL		130	120	Clear	CC-6	4 ⁷ / ₁₆	3 ¹ / ₈	1500	480
	▲Medium	14728	40A/CVG	24PK	120	120	Inside Frost—Teflon Coated (83)	C-9	4 ¹ / ₄	...	1500	...
A-15	Medium	15199	40A15		120	120	Appliance—Oven Service	C-9	3 ¹ / ₂	2 ³ / ₈	1500	455
		41275	40A15	CARD	120	240	Appliance—Oven Service. 12-Pack	C-9	3 ¹ / ₂	2 ³ / ₈	1500	455
B-10	Cand.	38123	40BC	12PK	120	120	Crystal (Clear)—Blunt Tip—BDTH	C-9	3 ³ / ₄	1 ⁵ / ₈	1500	...
		47942	40BC	CARD/2	120	60☆	Crystal (Clear)—Blunt Tip—BDTH	C-9	3 ³ / ₄	1 ⁵ / ₈	1500	...
		15653	40BC/W	12PK	120	120	Pearl (White)—Blunt Tip—BDTH	C-9	3 ³ / ₄	...	1500	...
		12992	40BC/W	CARD/2	120	60☆	Pearl (White)—Blunt Tip—BD only	C-9	3 ³ / ₄	...	1500	...
		13054	40BC/L		120	120	Crystal (Clear)—Blunt Tip—BDTH	C-9	3 ³ / ₄	...	4000	...

☆ Indicates total count of 2-lamp carded packs in standard package. Multiply by 2 to determine actual quantity of lamps.

◆ Average over-all length.

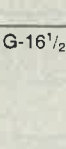
◆ Standard package quantity is considered as 120 lamps in determining standard package count for "size of order" purposes.

◇ To produce all three levels of light, this lamp should be tightened firmly but not forcibly in the socket to assure that all contacts are connected.

◆ For energy savings consider 34-Watt **WATT-MISER®** lamp shown on this page. The resulting cost savings are shown on page 4.

INCANDESCENT LAMPS

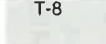


Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)	Approx. Initial Lumens
40 WATTS (Continued)											
	Medium	15631	40BM 12PK	120	120	Crystal (Clear)—Blunt Tip (15)	C-9	4 ⁵ / ₈	2 ³ / ₈	1500	455
		12993	40BM CARD/2	120	60☆	Crystal (Clear)—Blunt Tip (15)	C-9	4 ⁵ / ₈	2 ³ / ₈	1500	455
		13058	40BM/W 12PK	120	120	Pearl (White)—Blunt Tip	C-9	4 ⁵ / ₈	2 ³ / ₈	1500	...
CA-9	Medium	34651	40CAM 12PK	120	120	Crystal (Clear)—Bent Tip	CC-2V	4 ⁹ / ₁₆	2 ¹ / ₈	1500	...
		47945	40CAM CARD/2	120	60☆	Crystal (Clear)—Bent Tip (15)	CC-2V	4 ⁹ / ₁₆	2 ¹ / ₈	1500	...
		34652	40CAM/F 12PK	120	120	Satin (Frost)—Bent Tip	CC-2V	4 ⁹ / ₁₆	2 ¹ / ₈	1500	...
		12994	40CAM/F CARD/2	120	60☆	Satin (Frost)—Bent Tip	CC-2V	4 ⁹ / ₁₆	2 ¹ / ₈	1500	...
		40047	40CAM/L	120	120	Crystal (Clear)—Bent Tip	CC-2V	4 ⁹ / ₁₆	2 ¹ / ₈	4000	...
	Cand.	34653	40CAC 12PK	120	120	Crystal (Clear)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	2 ¹ / ₁₆	1500	...
		47940	40CAC CARD/2	120	60☆	Crystal (Clear)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	2 ¹ / ₁₆	1500	...
		34654	40CAC/F 12PK	120	120	Satin (Frost)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	2 ¹ / ₈	1500	...
		47941	40CAC/F CARD/2	120	60☆	Satin (Frost)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	2 ¹ / ₈	1500	...
		40050	40CAC/L	120	120	Crystal (Clear)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	2 ¹ / ₈	4000	...
		40834	40CAC/F/L	120	120	Satin (Frost)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	2 ¹ / ₈	4000	...
F-15	Medium	15692	40FM 12PK	120	120	Crystal (Clear)—Flame	C-9	4 ³ / ₈	2 ¹ / ₈	1500	455
		47943	40FM CARD/2	120	60☆	Crystal (Clear)—Flame (15)	C-9	4 ³ / ₈	2 ¹ / ₈	1500	455
		40984	40FM/L	120	120	Crystal (Clear)—Flame	C-9	4 ³ / ₈	2 ¹ / ₈	4000	...
		15693	40FM/W 12PK	120	120	Pearl (White)—Flame	C-9	4 ³ / ₈	2 ¹ / ₈	1500	390
		47944	40FM/W CARD/2	120	60☆	Pearl (White)—Flame (15)	C-9	4 ³ / ₈	2 ¹ / ₈	1500	390
		15694	40FM/AU 12PK	120	120	Auradescent—Flame	C-9	4 ³ / ₈	2 ¹ / ₈	1500	...
		11463	40FM/AU CARD/2	120	60☆	Auradescent—Flame	C-9	4 ³ / ₈	2 ¹ / ₈	1500	...
G-16 ¹ / ₂	Cand.	13037	40GC	120	60	Crystal (Clear)—Globe—BDTH (36)	C-9	3	1 ⁵ / ₈	1500	...
		14958	40GC 12PK	120	120	Crystal (Clear)—Globe—BDTH (36)	C-9	3	1 ⁵ / ₈	1500	...
		15696	40GC/W	120	60	Pearl (White)—Globe—BDTH (36)	C-9	3	1 ⁵ / ₈	1500	245
		12999	40GC/W 12PK	120	120	Pearl (White)—Globe—BDTH (36)	C-9	3	1 ⁵ / ₈	1500	245
		43159	40GC/L (40GC/4)	120	60	Crystal (Clear)—Globe—BDTH (36)	C-9	3	1 ⁵ / ₈	4000	...
		13039	40GC/W/L	120	60	Pearl (White)—Globe—BDTH (36)	C-9	3	1 ⁵ / ₈	4000	...
G-25	Medium	41057	40G25 (40G25/CL)	120	60	Crystal (Clear)—Globe	C-9	4 ⁷ / ₁₆	2 ¹ / ₈	1500	...
		12980	40G25 6PK	120	24	Crystal (Clear)—Globe. Retail Pack	C-9	4 ⁷ / ₁₆	2 ¹ / ₈	1500	...
		15730	40G25/W (40G/W)	120	60	Pearl (White)—Globe (15)	C-9	4 ⁷ / ₁₆	2 ¹ / ₈	1500	360
		12979	40G25/W 6PK	120	24	Pearl (White)—Globe. Retail Pack	C-9	4 ⁷ / ₁₆	2 ¹ / ₈	1500	360
		12971	40G25/L	120	24	Crystal (Clear)—Globe	C-9	4 ⁷ / ₁₆	2 ¹ / ₈	4000	...
		12972	40G25/W/L	120	24	Pearl (White)—Globe	C-9	4 ⁷ / ₁₆	2 ¹ / ₈	4000	...
G-40		37914	40G40 (40G40/CL)	120	24	Crystal (Clear)—Globe	C-9	6 ¹⁵ / ₁₆	2 ¹⁵ / ₁₆	2500	385
		14959	40G40 6PK	120	6	Crystal (Clear)—Globe	C-9	6 ¹⁵ / ₁₆	2 ¹⁵ / ₁₆	2500	385
		36191	40G40/W (40GM/W) 6PK	120	6	Pearl (White)—Globe—Moonglow	C-9	6 ¹⁵ / ₁₆	2 ¹⁵ / ₁₆	2500	355
		43423	40G40/L	120	24	Crystal (Clear)—Globe	C-9	6 ¹⁵ / ₁₆	2 ¹⁵ / ₁₆	4000	...
		36192	40G40/W (40G40/W)	130	24	Pearl (White)—Globe	C-9	6 ¹⁵ / ₁₆	2 ¹⁵ / ₁₆	2500	355
A-19	Medium	12386	40A/Y 24PK	120	120	Yellow Bug-Lite. Retail Pack	CC-6	4 ⁷ / ₁₆	2 ¹ / ₈	1000	320
		12799	40A/Y 24PK	130	120	Yellow Bug-Lite	CC-6	4 ⁷ / ₁₆	2 ¹ / ₈	1000	320
G-16 ¹ / ₂	D. C. Bay.	15705	40G16¹/₂/3DC	115	60	Clear—Silver Bowl. Med. Spotlight	CC-2V	3 ⁵ / ₁₆	1 ¹³ / ₁₆	500	...
A-19	Medium	15280	40A/DPK 24PK	120	120	Coloramic—Dawn Pink (11)	CC-6	4 ¹ / ₄	2 ¹ / ₈	1500	...
	▲Medium	15444	40A21/B	120	120	Blue (78)	C-9	4 ³ / ₈	2 ¹ / ₈	1000	...
		15459	40A21/G	120	120	Green (78)	C-9	4 ³ / ₈	2 ¹ / ₈	1000	...
		15470	40A21/O	120	120	Orange (78)	C-9	4 ³ / ₈	2 ¹ / ₈	1000	...
		15478	40A21/R	120	120	Red (78)	C-9	4 ³ / ₈	2 ¹ / ₈	1000	...
		15505	40A21/Y	120	120	Yellow (78)	C-9	4 ³ / ₈	2 ¹ / ₈	1000	290
		15503	40A21/Y	130	120	Yellow (78)	C-9	4 ³ / ₈	2 ¹ / ₈	1000	290
		15614	40A21/GR/CL	130	120	Clear—Sign (78)	C-9	4 ³ / ₈	2 ¹⁵ / ₁₆	3000	...
		15615	40A21/GR/IF	130	120	Inside Frost—Sign (78)	C-9	4 ³ / ₈	2 ¹⁵ / ₁₆	3000	...

☆ Indicates total count of 2-lamp carded packs in standard package. Multiply by 2 to determine actual quantity of lamps.



INCANDESCENT LAMPS

Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)	Approx. Initial Lumens
40 WATTS (Continued)											
	▲Medium High Brilliance Weather-tough	15591	40A21/GR/TB	130	120	Transparent Blue—Sign (78)	C-9	4 ³ / ₈	2 ¹⁵ / ₁₆	3000	...
		15593	40A21/GR/TG	130	120	Transparent Green—Sign (78)	C-9	4 ³ / ₈	2 ¹⁵ / ₁₆	3000	...
		15595	40A21/GR/TO	130	120	Transparent Orange—Sign (78)	C-9	4 ³ / ₈	2 ¹⁵ / ₁₆	3000	...
		15597	40A21/GR/TR	130	120	Transparent Red—Sign (78)	C-9	4 ³ / ₈	2 ¹⁵ / ₁₆	3000	...
		15599	40A21/GR/TY	130	120	Transparent Yellow—Sign (78)	C-9	4 ³ / ₈	2 ¹⁵ / ₁₆	3000	...
		15552	40A/TS	120	120	Clear—Traffic Signal. BDTH (78)	C-9	4 ³ / ₈	2 ⁷ / ₁₆	2000	380
	Intermed.	15554	40A/TS	130	120	Clear—Traffic Signal. BDTH (78)	C-9	4 ³ / ₈	2 ⁷ / ₁₆	2000	380
		15740	40T6 1/2/2	120	60	Clear—Refrigerator	C-8	5 ¹ / ₂	...	750	...
		41312	40T6 1/2/2 CARD	120	120	Clear—Refrigerator. Retail Pack	C-8	5 ¹ / ₂	...	750	...
	Medium	15742	40T6 1/2/2F	120	60	Frost—Appliance	C-8	5 ¹ / ₂	...	750	...
		15754	40T8	120	24	Clear—Showcase	C-23	11 ⁷ / ₈	...	1000	430
		15756	40T8	130	24	Clear—Showcase	C-23	11 ⁷ / ₈	...	1000	430
	Medium Prefocus	15784	40T8/F	120	24	Frost—Showcase	C-23	11 ⁷ / ₈	...	1000	425
		15852	40T10	120	120	Clear—Showcase	C-8	5 ⁵ / ₈	...	1000	420
		15856	40T10 24PK	120	192	Clear—Showcase. Retail Pack	C-8	5 ⁵ / ₈	...	1000	420
		13489	40T10 CARD	120	120	Clear—Showcase. Retail Pack	C-8	5 ⁵ / ₈	...	1000	420
		15854	40T10	130	120	Clear—Showcase	C-8	5 ⁵ / ₈	...	1000	420
		15892	40T10/F	120	120	Frost—Showcase	C-8	5 ⁵ / ₈	...	1000	415
		15901	40T10/F 24PK	120	192	Frost—Showcase. Retail Pack	C-8	5 ⁵ / ₈	...	1000	415
		41314	40T10/F CARD	120	120	Frost—Showcase. Retail Pack	C-8	5 ⁵ / ₈	...	1000	415
		15894	40T10/F	130	120	Frost—Showcase	C-8	5 ⁵ / ₈	...	1000	415
		15921	40T10P	120	60	Clear—Airport (1)	CC-2V	3 ¹⁵ / ₁₆	1 ¹ / ₂	1000	...
	Disc	15804	L40	120	24	Clear—Lumiline (78)	C-8	11 ³ / ₄ °	...	1500	...
		15839	L40/W	120	24	White—Lumiline (78)	C-8	11 ³ / ₄ °	...	1500	295

45 WATTS

★PAR-38	Medium Skirted	15937	45PAR38/6.6	6.6A	12	PAR—Airport—Floodlight	C-6	5 ⁵ / ₁₆	...	800	...
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50 WATTS

	Medium	16121	50A/RS	120	120	Inside Frost—Rough Service	C-22	3 ⁷ / ₈	2 ⁹ / ₁₆	1000	480
		33495	50A/RS 24PK	120	120	Inside Frost—Rough Service	C-22	3 ⁷ / ₈	2 ⁹ / ₁₆	1000	480
		16123	50A/RS	130	120	Inside Frost—Rough Service	C-22	3 ⁷ / ₈	2 ⁹ / ₁₆	1000	480
		33497	50A/RS 24PK	130	120	Inside Frost—Rough Service	C-22	3 ⁷ / ₈	2 ⁹ / ₁₆	1000	480
	▲Medium	14727	50A/RS/CVG	120	120	Inside Frost—Teflon Coated, Rough Service (83)	C-22	3 ⁷ / ₈	...	1000	...
	Medium	16242	50A19/5	120	120	Clear—Rough Service	C-22	3 ⁷ / ₈	2 ⁹ / ₁₆	1000	...
		33498	50A/VS 24PK	120	120	Inside Frost—Vibration Service	C-9	3 ⁷ / ₈	2 ³ / ₈	1000	550
		33500	50A/VS 24PK	130	120	Inside Frost—Vibration Service	C-9	3 ⁷ / ₈	2 ³ / ₈	1000	550
		16693	50R20	120	60	Reflector-Light Inside Frost (14)	C-7A	3 ¹⁵ / ₁₆	...	2000	440
		49679	50R20 6PK	120	60	Refl.-Light Inside Frost. Ret. Pk. (14)	C-7A	3 ¹⁵ / ₁₆	...	2000	440
		16692	50R20	130	60	Reflector-Light Inside Frost (14)	C-7A	3 ¹⁵ / ₁₆	...	2000	440
		16697	50R20/BW	120	60	Reflector—Blue White (14)	C-7A	3 ¹⁵ / ₁₆	...	2000	...
		16698	50R20/PK	120	60	Reflector—Pink (14)	C-7A	3 ¹⁵ / ₁₆	...	2000	...
	▲Medium	41625	50R20/PL 6PK	120	24	Reflector Plant Light— "Gro and Sho" (4,14,56)	C-7A	3 ¹⁵ / ₁₆	...	2000	...
	Medium	44429	50ER30	120	24	ER-Elipt. Reflector—Lt. I.F. (4,35,56)	CC-6	6 ¹ / ₄	...	2000	525
		11823	50ER30	130	24	ER-Elipt. Reflector—Lt. I.F. (4,35,56)	CC-6	6 ¹ / ₄	...	2000	525
		11476	50ER30/A	120	24	ER-Elipt. Reflector—Amber (4,35,56)	CC-6	6 ¹ / ₄	...	2000	...
		11477	50ER30/A	130	24	ER-Elipt. Reflector—Amber (4,35,56)	CC-6	6 ¹ / ₄	...	2000	...
		47878	50ER30/PK	120	24	ER-Elipt. Reflector—Pink (4,35,56)	CC-6	6 ¹ / ₄	...	2000	...
		11822	50ER30/PK	130	24	ER-Elipt. Reflector—Pink (4,36,56)	CC-6	6 ¹ / ₄	...	2000	...
	Medium	32118	50R30/FL	120	24	Reflector Flood—Inside Frost	CC-6	5 ³ / ₈	...	2000	...
		43749	50R30/FL 6PK	120	24	Reflector Flood—Inside Frost— Retail Pack	CC-6	5 ³ / ₈	...	2000	...
	▲Medium	13204	50R30/PL 6PK	120	24	Plant Light—Reflector— I.F. Silicone Blue Coated (4,56)	CC-6	5 ³ / ₈	...	2000	...

° Average over-all length.



Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)	Approx. Initial Lumens
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50 WATTS (Continued)

	Screw Terminal	16366	50A21	12	120	Inside Frost (53)	C-6	4 ⁷ / ₁₆	3 ⁷ / ₁₆	1000	875
		12892	50PAR36VNSP	12	12	Very Narrow Spot. Filament shield	C-6	2 ³ / ₄	...	2000	...
		16540	50PAR36NSP	12	12	Narrow Spot. Filament shield	C-6	2 ³ / ₄	...	2000	...
		16541	50PAR36WFL	12	12	Wide Flood. Filament shield	C-6	2 ³ / ₄	...	2000	...
		11468	50PAR36WFL/4	12	12	Wide Flood. Filament shield	C-6	2 ³ / ₄	...	4000	...
	Medium	16542	50PAR36VWFL	12	12	Very Wide Flood. Filament shield	C-6	2 ³ / ₄	...	2000	...
		16385	50A21	30	120	Inside Frost—Train	C-9	4 ⁷ / ₁₆	3 ⁷ / ₁₆	1000	805
		16108	50A/RS	32	120	Inside Frost—Rough Service. Train	C-9	3 ⁷ / ₁₆	2 ⁹ / ₁₆	1000	...
		16390	50A21	34	120	Inside Frost—Train	C-9	4 ⁷ / ₁₆	3 ⁷ / ₁₆	1000	...
		16201	50A19/RS	75	120	Inside Frost—Rough Service. Train	C-9	3 ⁷ / ₁₆	2 ¹ / ₂	1000	545
		15985	50A	230	120	Inside Frost	C-17A	3 ⁷ / ₁₆	2 ⁹ / ₁₆	1000	490
		15995	50A	250	120	Inside Frost	C-17A	3 ⁷ / ₁₆	2 ⁹ / ₁₆	1000	490
		16147	50A/RS	250	120	Inside Frost—Rough Service	C-22	3 ⁷ / ₁₆	2 ⁹ / ₁₆	1000	470
		16081	50A/R	250	120	Red	C-17A	3 ⁷ / ₁₆	...	1000	...
		16317	50A19	300	120	Inside Frost	C-17A	3 ⁷ / ₁₆	2 ⁹ / ₁₆	1000	...
		16331	50A19/35	300	120	Clear	C-17A	3 ⁷ / ₁₆	2 ⁹ / ₁₆	1000	...

50-50 WATTS

P-25	▲3-Cont. Mog.	16535	50/50P25/28	120	60	Clear—Marine Running Light (1)	C-5, C-9	5 ¹ / ₁₆	3 ⁵ / ₁₆	750	...
T-12	▲3-Cont. Med.	16726	50/50T12	115	24	Clear—Marine Running Light (1)	C-5, C-9	5 ¹ / ₁₆	3	750	...

50-100-150 WATTS

A-21	3-Contact Medium	41280	50/150	12PK	120	60	◇ Soft-White—3-Way (14)	C-2R CC-8	5 ¹ / ₄	3 ⁷ / ₈	1500, 1200, 1200	580, 1640, 2220
		41991	50/150/DPK	12PK	120	60	◇ Dawn Pink. 3-Way. Burn base down only	C-2R CC-8	5 ¹ / ₄	3 ⁷ / ₈	1500, 1200, 1200	...

50-135-185 WATTS—MISER®

A-21	3-Contact Medium	13432	50/185	12PK	120	60	◇ MISER. 3-Way—Burning position: base down (14)	C-2R CC-8	4 ⁷ / ₁₆	3 ¹ / ₈	1500, 1200, 1200	580, 2330, 2910
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50-200-250 WATTS

A-23	3-Contact Medium	41282	50/250	12PK	120	60	◇ Soft-White—3-Way (14)	C-2R CC-8	5 ³ / ₄	4 ⁵ / ₁₆	1500, 1200, 1200	580, 3660, 4240
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52 WATTS—WATT-MISER® AND WATT-MISER® PLUS

	Medium	12615	60A/52WM	120	120	WATT-MISER—Inside Frost	CC-8	4 ⁷ / ₁₆	3 ¹ / ₈	1000	800
		12623	60A/52WM	130	120	WATT-MISER—Inside Frost	CC-8	4 ⁷ / ₁₆	3 ¹ / ₈	1000	800
	▲Medium	13011	60A/52WMP/99	120	120	WATT-MISER PLUS—Inside Frost	CC-8	4 ⁷ / ₁₆	...	2500	700
		13280	60A/52WMP/99 24PK	120	120	WATT-MISER PLUS—Inside Frost	CC-8	4 ⁷ / ₁₆	...	2500	700
		13012	60A/52WMP/99	130	120	WATT-MISER PLUS—Inside Frost	CC-8	4 ⁷ / ₁₆	...	2500	700
	Medium	13554	60A/52WM/CL	120	120	WATT-MISER—Clear	CC-8	4 ⁷ / ₁₆	3 ¹ / ₈	1000	800
		13555	60A/52WM/CL	130	120	WATT-MISER—Clear	CC-8	4 ⁷ / ₁₆	3 ¹ / ₈	1000	800

55 WATTS—MISER®

A-19	Medium	12629	55A/W/MI	48PK	120	144 ◆	MISER—Retail Pack	CC-8	4 ⁷ / ₁₆	3 ¹ / ₈	1000	855
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55 WATTS

	▲Medium Skirted	13300	55PAR/SP	120	12	PAR—High Performance Display Spot (56,96)	CC-6	5 ⁵ / ₁₆	...	3000	...
		13947	55PAR/SP	130	12	PAR—High Performance Display Spot (56,96)	CC-6	5 ⁵ / ₁₆	...	2000	...
		13299	55PAR/FL	120	12	PAR—High Performance Display Flood (56,96)	CC-6	5 ⁵ / ₁₆	...	3000	...
		13949	55PAR/FL	130	12	PAR—High Performance Display Flood (56,96)	CC-6	5 ⁵ / ₁₆	...	2000	...
		13151	55PAR38/VWFL	120	12	Projector—Very Wide Flood (14,56,96)	CC-6	5 ⁵ / ₁₆	...	3000	...

◇ To produce all three levels of light, this lamp should be tightened firmly but not forcibly in the socket to assure that all contacts are connected.

◆ Standard package quantity is considered as 120 lamps in determining standard package count for "size of order" purposes.

◆ For energy saving consider 15/150 MISER® lamp shown on page 8. The resulting cost savings are shown on page 4.



INCANDESCENT LAMPS

Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)	Approx. Initial Lumens
56 WATTS											
A-21	Medium	16738	56A21	120	120	I.F.—Street Railway. Amps: .519 (41,78)	C-9	4 ³ / ₈	2 ¹⁵ / ₁₆	2000	...
60 WATTS											
	Medium	16781	60A	120	120	Inside Frost	CC-6	4 ⁷ / ₈	3 ¹ / ₈	1000	870
		41026	60A 48PK	120	144 ♦	Inside Frost	CC-6	4 ⁷ / ₁₆	3 ¹ / ₈	1000	870
		16783	60A	130	120	Inside Frost	CC-6	4 ⁷ / ₈	3 ¹ / ₈	1000	870
		41028	60A/W 48PK	120	144 ♦	Soft-White	CC-6	4 ⁷ / ₁₆	...	1000	855
		41285	60A/WP 24PK	120	120	Longlife White	CC-6	4 ⁷ / ₁₆	3 ¹ / ₈	1500	820
		39322	60A/CL 24PK	120	120	Clear	CC-6	4 ⁷ / ₁₆	3 ¹ / ₈	1000	870
	▲Medium	14414	60A/CVG 24PK	120	120	Frost—Teflon Coated (83)	CC-6	4 ⁷ / ₁₆	...	1000	...
	Medium	16882	60A/D	120	120	Inside Frost—Daylight	CC-6	4 ⁷ / ₁₆	3 ¹ / ₈	1000	500
		16913	60A/SB	120	120	Inside Frost—Silvered Bowl	CC-6	4 ⁷ / ₁₆	3 ¹ / ₈	1000	740
		41284	60A/Y 24PK	120	120	Yellow Bug-Lite	CC-6	4 ⁷ / ₁₆	...	1000	550
		16967	60A/Y 24PK	130	120	Yellow Bug-Lite	CC-6	4 ⁷ / ₁₆	...	1000	550
		41993	60A/DPK 24PK	120	120	Dawn Pink	CC-6	4 ⁷ / ₁₆	...	1000	...
B-10	▲Cand.	37891	60BC 12PK	120	120	Crystal (Clear)—Blunt Tip—BDTH (15)	CC-2V	3 ³ / ₄	...	1500	...
		47949	60BC CARD/2	120	60 ☆	Crystal (Clear) Blunt Tip—BDTH (15)	CC-2V	3 ³ / ₄	...	1500	...
		13953	60BC/L	120	120	Crystal (Clear) Blunt Tip—BDTH (15)	CC-2V	3 ⁹ / ₁₆	1 ¹⁵ / ₁₆	4000	...
CA-9	Medium	34655	60CAM 12PK	120	120	Crystal (Clear)—Bent Tip	CC-2V	4 ⁹ / ₁₆	2 ¹ / ₈	1500	...
		47948	60CAM CARD/2	120	60 ☆	Crystal (Clear)—Bent Tip	CC-2V	4 ⁹ / ₁₆	2 ¹ / ₈	1500	...
		40048	60CAM/L	120	120	Crystal (Clear)—Bent Tip	CC-2V	4 ⁹ / ₁₆	2 ¹ / ₈	4000	...
	Cand.	34657	60CAC 12PK	120	120	Crystal (Clear)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	2 ¹ / ₁₆	1500	...
		47946	60CAC CARD/2	120	60 ☆	Crystal (Clear)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	2 ¹ / ₁₆	1500	...
		34658	60CAC/F 12PK	120	120	Satin (Frost)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	2 ¹ / ₈	1500	...
		47947	60CAC/F CARD/2	120	60 ☆	Satin (Frost)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	2 ¹ / ₈	1500	...
		40049	60CAC/L	120	120	Crystal (Clear)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	...	4000	...
G-25	▲Medium	13960	60G25	120	60	Crystal (Clear)—Globe (15)	CC-9	4 ⁹ / ₁₆	2 ¹³ / ₁₆	1500	...
		14846	60G25 6PK	120	6	Crystal (Clear)—Globe (15)	CC-9	4 ⁹ / ₁₆	2 ¹³ / ₁₆	1500	...
		13956	60G25/W	120	60	Pearl (White)—Globe (15)	CC-9	4 ⁹ / ₁₆	2 ¹³ / ₁₆	1500	...
		14848	60G25/W 6PK	120	6	Pearl (White)—Globe (15)	CC-9	4 ⁹ / ₁₆	2 ¹³ / ₁₆	1500	...
		13958	60G25/L	120	60	Crystal (Clear)—Globe (15)	CC-9	4 ⁹ / ₁₆	2 ¹³ / ₁₆	4000	...
		13961	60G25/W/L	120	60	Pearl (White)—Globe (15)	CC-9	4 ⁹ / ₁₆	2 ¹³ / ₁₆	4000	...
		13955	60G30/W	120	24	Pearl (White)—Globe (15)	CC-9	5	3 ¹ / ₈	2500	...
G-30		14850	60G30/W 6PK	120	24	Pearl (White)—Globe (15)	CC-9	5	3 ¹ / ₈	2500	...
G-40	Medium	40250	60G40 (60G40/CL)	120	24	Crystal (Clear)—Globe	C-9	6 ¹⁵ / ₁₆	...	2500	...
		14187	60G40 6PK	120	6	Crystal (Clear)—Globe. Ret. Pk.	C-9	6 ¹⁵ / ₁₆	...	2500	...
		40251	60G40/W	120	24	Pearl (White)—Globe	C-9	6 ¹⁵ / ₁₆	...	2500	...
		49780	60G40/W (60GM/W) 6PK	120	6	Pearl (White)—Globe—Moonglow	C-9	6 ¹⁵ / ₁₆	...	2500	...
		13044	60G40/W/L	120	24	Pearl (White)—Globe	C-9	6 ¹⁵ / ₁₆	...	4000	...
	▲Medium	41624	60A/PL 6PK	120	24	Plant Light—"Gro and Sho" (4)	CC-6	4 ⁷ / ₁₆	3 ¹ / ₈	1000	...
	Medium	16997	60A21/B	120	120	♦ Blue	C-9	4 ⁷ / ₈	...	1000	...
		17009	60A21/G	120	120	♦ Green	C-9	4 ⁷ / ₈	...	1000	...
		16989	60A21/O	120	120	♦ Orange	C-9	4 ⁷ / ₈	...	1000	...
		17027	60A21/R	120	120	♦ Red	C-9	4 ⁷ / ₈	...	1000	...
		17028	60A21/R2	120	120	♦ Rose	C-9	4 ⁷ / ₈	...	1000	...
		17034	60A21/Y	120	120	♦ Yellow	C-9	4 ⁷ / ₈	...	1000	...
T-8	Disc	17226	L60	120	24	Clear—Lumiline (78)	C-8	1 ⁷ / ₄ °	...	1500	...
		17266	L60/W	120	24	White—Lumiline (78)	C-8	1 ⁷ / ₄ °	...	1500	450

☆ Indicates total count of 2-lamp carded packs in standard package. Multiply by 2 to determine actual quantity of lamps.

♦ Standard package quantity is considered as 120 lamps in determining standard package count for "size of order" purposes.

° Average over-all length.

♦ Do not burn in paper-lined sockets.

♦ For energy saving consider 52-Watt **WATT-MISER**® or 55-Watt **MISER**® lamps shown on page 14. The resulting cost savings are shown on page 4.

INCANDESCENT LAMPS



Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)	Approx. Initial Lumens
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60 WATTS (Continued)

T-10	Medium	17292	60T10/64 24PK	120	192	Clear—Showcase. BDTH	C-8	5 ⁵ / ₈	...	1000	745
		17287	60T10/F 24PK	120	192	Frost—Showcase. BDTH	C-8	5 ⁵ / ₈	...	1000	...
★PAR-46	Screw Terminal	17207	60PAR	38	12	Mine Locomotive Headlight (71)	CC-2V	3 ³ / ₄	...	800	...
		17212	60PAR/2/R	38	12	Red Lens—Train Warning (71)	CC-2V	3 ³ / ₄	...	800	...
A-21	Medium	17122	60A21	230	120	Inside Frost	C-17A	4 ³ / ₈	2 ³ / ₄	1000	...

65 WATTS—WATT-MISER® PAR

	▲Medium Skirted Medium Side Prong	12802	75PAR/FL/65WM	120	12	WATT-MISER—Flood (56,96)	CC-6	5 ⁵ / ₁₆	...	2000	625
		12807	75PAR/FL/65WM 6PK	120	12	MISER—Flood. Retail Pack (56,96)	CC-6	5 ⁵ / ₁₆	...	2000	625
		12805	75PAR/FL/65WM	130	12	WATT-MISER—Flood (56,96)	CC-6	5 ⁵ / ₁₆	...	2000	625
		12800	75PAR/SP/65WM	120	12	WATT-MISER—Spot (56,96)	CC-6	5 ⁵ / ₁₆	...	2000	625
		12806	75PAR/SP/65WM 6PK	120	12	MISER—Spot. Retail Pack (56,96)	CC-6	5 ⁵ / ₁₆	...	2000	625
		12801	75PAR/SP/65WM	130	12	WATT-MISER—Spot (56,96)	CC-6	5 ⁵ / ₁₆	...	2000	625
		12846	75PAR/3FL/65WM	120	12	WATT-MISER—PAR. Compact Fl. (56,58,96)	CC-6	4 ⁵ / ₁₆	...	2000	625
		12847	75PAR/3SP/65WM	120	12	WATT-MISER—PAR. Compact Sp. (56,58,96)	CC-6	4 ⁵ / ₁₆	...	2000	625

67 WATTS—WATT-MISER® AND WATT-MISER® PLUS

	A-19	Medium	12617	75A/67WM	120	120	WATT-MISER—Inside Frost	CC-8	4 ⁷ / ₁₆	3 ¹ / ₈	750	1130
			12624	75A/67WM	130	120	WATT-MISER—Inside Frost	CC-8	4 ⁷ / ₁₆	3 ¹ / ₈	750	1130
	▲Medium	13013	75A/67WMP/99	120	120	WATT-MISER PLUS—Inside Frost	CC-8	4 ⁷ / ₁₆	...	2500	930	
		13281	75A/67WMP/99 24PK	120	120	WATT-MISER PLUS—Inside Frost	CC-8	4 ⁷ / ₁₆	...	2500	930	
		13018	75A/67WMP/99	130	120	WATT-MISER PLUS—Inside Frost	CC-8	4 ⁷ / ₁₆	...	2500	930	
	Medium	13556	75A/67WM/CL	120	120	WATT-MISER—Clear	CC-8	4 ⁷ / ₁₆	3 ¹ / ₈	750	1130	
		13557	75A/67WM/CL	130	120	WATT-MISER—Clear	CC-8	4 ⁷ / ₁₆	3 ¹ / ₈	750	1130	

67 WATTS

A-21	▲Medium	38551	67A21/TS	120	120	Clear—Traffic Signal. BDTH (78)	C-9	4 ³ / ₈	2 ⁷ / ₁₆	8000	635
		38552	67A21/TS	125	120	Clear—Traffic Signal. BDTH (78)	C-9	4 ³ / ₈	2 ⁷ / ₁₆	8000	635
		38553	67A21/TS	130	120	Clear—Traffic Signal. BDTH (78)	C-9	4 ³ / ₈	2 ⁷ / ₁₆	8000	635

69 WATTS

A-21	▲Medium	17323	69A21/TS	120	120	Clear—Traffic Signal. BDTH (78)	C-9	4 ³ / ₈	2 ⁷ / ₁₆	8000	675
		17324	69A21/TS	125	120	Clear—Traffic Signal. BDTH (78)	C-9	4 ³ / ₈	2 ⁷ / ₁₆	8000	675
		17325	69A21/TS	130	120	Clear—Traffic Signal. BDTH (78)	C-9	4 ³ / ₈	2 ⁷ / ₁₆	8000	675

70 WATTS—MISER®

A-19	Medium	12630	70A/W/MI 48PK	120	144 ♦	MISER—Retail Pack	CC-8	4 ⁷ / ₁₆	3 ¹ / ₈	750	1170
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75 WATTS

	A-19	Medium	17345	75A	120	120	Inside Frost	CC-6	4 ⁷ / ₁₆	3 ¹ / ₈	750	1190
			41030	75A 48PK	120	144 ♦	Inside Frost	CC-6	4 ⁷ / ₁₆	3 ¹ / ₈	750	1190
			17347	75A	130	120	Inside Frost	CC-6	4 ⁷ / ₁₆	3 ¹ / ₈	750	1190
			41032	75A/W 48PK	120	144 ♦	Soft-White	CC-6	4 ⁷ / ₁₆	...	750	1170
			41287	75A/WP 24PK	120	120	Longlife White	CC-6	4 ⁷ / ₁₆	3 ¹ / ₈	1500	1075
			10428	75A/CL 24PK	120	120	Clear	CC-6	4 ⁷ / ₁₆	3 ¹ / ₈	750	1190
			41995	75A/DPK 24PK	120	120	Dawn Pink (14)	CC-6	4 ⁷ / ₁₆	...	1000	...
			17468	75A/RX	120	120	Red—Exit Light (6)	CC-6	4 ⁷ / ₁₆	3 ¹ / ₈	5000 +	...
	A-21	Medium	41478	75A/RS	120	120	Inside Frost—Rough Service	C-17	5 ¹ / ₄	3 ¹³ / ₁₆	1000	750
			41479	75A/RS 24PK	120	120	Inside Frost—Rough Service	C-17	5 ¹ / ₄	3 ¹³ / ₁₆	1000	750
			10791	75A/RS 12PK	120	120	I.F. "Ruff-Service." Retail Pack	C-17	5 ¹ / ₄	3 ¹³ / ₁₆	1000	750
			41480	75A/RS	130	120	Inside Frost—Rough Service	C-17	5 ¹ / ₄	3 ¹³ / ₁₆	1000	750
			41481	75A/RS 24PK	130	120	Inside Frost—Rough Service	C-17	5 ¹ / ₄	3 ¹³ / ₁₆	1000	750
			14724	75A/RS/CVG 24PK	120	120	Inside Frost—Teflon Coated. Rough Service (83)	C-17	5 ¹ / ₄	...	1000	...
			44217	75A/RT 12PK	120	120	Rough Service. "Ruff-n' Tuff."	C-17	5 ¹ / ₄	...	1000	...

- ♦ Standard package quantity is considered as 120 lamps in determining standard package count for "size of order" purposes.
- ♦ For energy saving consider 67-Watt **WATT-MISER®** or 70-Watt **MISER®** lamps shown on this page. The resulting cost savings are shown on page 4.



INCANDESCENT LAMPS

Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes — Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)	Approx. Initial Lumens
75 WATTS (Continued)											
★PAR-38	Medium Skirted	17685	75PAR38/2FL	120	12	PAR—Cool-Beam—Flood. Use only in fixtures specifically approved for Cool-Beam lamps. (14)	CC-6	5 ⁵ / ₁₆		2000	900
		34531	75PAR38/2FL	130	12	PAR—Cool-Beam—Flood. Use only in fixtures specifically approved for Cool-Beam lamps. (14)	CC-6	5 ⁵ / ₁₆		2000	900
★PAR-38	Medium Side Prong	17682	75PAR/3FL/MINE	120	12	PAR—Compact Flood (56,58,96)	CC-6	4 ⁵ / ₁₆		2000	765
		17664	75PAR/3SP/MINE	120	12	PAR—Compact Spot (56,58,96)	CC-6	4 ⁵ / ₁₆		2000	765
★PAR-46	3-Prong	36473	75PAR46/TS	120	12	PAR—Pedestrian Signal	CC-6	3 ⁵ / ₈		6000	
R-30	Medium	38207	75R30/FL	120	24	Reflector Flood	CC-6	5 ³ / ₈		2000	900
		49680	75R30/FL 6PK	120	24	Reflector Flood. Retail Pack	CC-6	5 ³ / ₈		2000	900
	Medium	38208	75R30/FL	130	24	Reflector Flood	CC-6	5 ³ / ₈		2000	900
		14722	75R30/FL/CVG	120	24	Refl. Fl.—Teflon Coated (83)	CC-6	5 ³ / ₈		2000	
	Medium	38209	75R30/SP	120	24	Reflector Spot	CC-6	5 ³ / ₈		2000	
		41933	75R30/SP 6PK	120	24	Reflector Spot. Retail Pack	CC-6	5 ³ / ₈		2000	900
	Medium	38210	75R30/SP	130	24	Reflector Spot	CC-6	5 ³ / ₈		2000	900
		38211	75R30/A	120	24	Reflector—Amber	CC-6	5 ³ / ₈		2000	
	Medium	38212	75R30/B	120	24	Reflector—Blue	CC-6	5 ³ / ₈		2000	
		42821	75R30/B 6PK	120	24	Reflector—Blue	CC-6	5 ³ / ₈		2000	
	Medium	38213	75R30/BW	120	24	Reflector—Blue-White	CC-6	5 ³ / ₈		2000	
		38214	75R30/G	120	24	Reflector—Green	CC-6	5 ³ / ₈		2000	
	Medium	42822	75R30/G 6PK	120	24	Reflector—Green	CC-6	5 ³ / ₈		2000	
		38215	75R30/PK	120	24	Reflector—Pink	CC-6	5 ³ / ₈		2000	
	Medium	13662	75R30/PK 24PK	130	24	Reflector—Pink	CC-6	5 ³ / ₈		2000	
		38216	75R30/R	120	24	Reflector—Red	CC-6	5 ³ / ₈		2000	
	Medium	42823	75R30/R 6PK	120	24	Reflector—Red	CC-6	5 ³ / ₈		2000	
		38217	75R30/Y	120	24	Reflector—Yellow	CC-6	5 ³ / ₈		2000	
	Medium	42824	75R30/Y 6PK	120	24	Reflector—Yellow	CC-6	5 ³ / ₈		2000	
		41626	75R30/PL 6PK	120	24	Reflector—"Gro and Sho" (4,56)	CC-6	5 ³ / ₈	3 ³ / ₈	2000	
ER-30	Medium	37044	75ER30	120	24	ER-Elliptical Reflector Lt. I.F. (4,35,56)	CC-6	6 ¹ / ₄		2000	850
		42850	75ER30	130	24	ER-Elliptical Reflector Lt. I.F. (4,35,56)	CC-6	6 ¹ / ₄		2000	850
R-40	Medium	17736	75R/FL	120	24	Reflector Flood—I.F. (4,35,56)	CC-6	6 ⁹ / ₁₆		2000	
		12977	75R/FL 6PK	120	24	Reflector Flood—I.F. Ret. Pk. (4,35,56)	CC-6	6 ⁹ / ₁₆		2000	
	Medium	17738	75R/FL	130	24	Reflector Flood—I.F. (4,35,56)	CC-6	6 ⁹ / ₁₆		2000	
		13045	75G40	120	24	Crystal (Clear)—Globe	C-9	6 ¹⁵ / ₁₆		2500	
	Medium	14961	75G40 6PK	120	6	Crystal (Clear)—Globe	C-9	6 ¹⁵ / ₁₆		2500	
		36193	75G40/W 6PK	120	6	Pearl (White)—Globe—Moonglow	C-9	6 ¹⁵ / ₁₆		2500	790
	Medium	36194	75G40/W	130	24	Pearl (White)—Globe	C-9	6 ¹⁵ / ₁₆		2500	790
E-17	Medium	35782	75E17/TF 12PK	120	120	Post Light—Inside Frost—Teflon*	CC-6	5	3 ¹ / ₈	4000	
T-10	Medium	17754	75T10/45	120	24	Clear—Showcase	C-23	11 ⁷ / ₈		1000	
		17749	75T10/1	120	24	Frost—Showcase	C-23	11 ⁷ / ₈		1000	
A-21	Medium	17472	75A21	6	120	Inside Frost (53)	C-6	5 ¹ / ₄	3 ¹³ / ₁₆	1000	
		17482	75A21	12	120	Inside Frost (53)	C-6	5 ¹ / ₄	3 ¹³ / ₁₆	1000	
★PAR-38	Medium Skirted	17667	75PAR/FL	30	12	PAR—Train—Flood	C-6	5 ⁵ / ₁₆		1000	975
		17670	75PAR/FL	36	12	PAR—Flood—Fishing Boat	C-6	5 ⁵ / ₁₆		1000	
★PAR-46	Screw Terminal	17654	75PAR46	48	12	PAR—Mine Loco. Headlight (71)	CC-2V	3 ³ / ₄		800	
★PAR-36		33869	75PAR36/RS	75	12	PAR—Train Warning—Rough Serv.	CC-6	2 ³ / ₄		500	
A-21	Medium	17531	75A21	230	120	Inside Frost	C-7A	5 ¹ / ₄	3 ¹³ / ₁₆	1000	

85 WATTS—WATT-MISER® AND MISER®

★PAR-38	Medium Skirted	13202	100PAR/FL/85WM	120	12	WATT-MISER—Proj. Fl. (14,56,96)	CC-6	5 ⁵ / ₁₆		2000	880
		13312	100PAR/FL/85WM 6PK	120	6	MISER—Proj. Fl. Retail Pack (14,56,96)	CC-6	5 ⁵ / ₁₆		2000	880
		13201	100PAR/SP/85WM	120	12	WATT-MISER—Proj. Spot (14,56,96)	CC-6	5 ⁵ / ₁₆		2000	880
		13313	100PAR/SP/85WM 6PK	120	6	MISER—Proj. Spot Retail Pack (14,56,96)	CC-6	5 ⁵ / ₁₆		2000	880
		13943	100PAR/SP/85WM	130	12	WATT-MISER Spot (14,56,96)	CC-6	5 ⁵ / ₁₆		2000	880
		13463	100PAR/A/85WM 6PK	120	6	MISER PAR Fl.—Silicone Amber Retail Pack (14,56,96)	CC-6	5 ⁵ / ₁₆		2000	
		13465	100PAR/B/85WM 6PK	120	6	MISER PAR Fl.—Silicone Blue Retail Pack (14,56,96)	CC-6	5 ⁵ / ₁₆		2000	

* Silicone Coated. Available with Teflon Coating 8/85.

♦ For energy saving in deep down lights, consider the 50ER30 lamp shown on page 13. The resulting cost savings are shown on page 4.



Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)	Approx. Initial Lumens
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85 WATTS—WATT MISER® AND MISER® (Continued)

	▲Medium Skirted	13466	100PAR/BW/85WM 6PK	120	6	MISER PAR Fl.—Silicone Blue White—Retail Pack (14,56,96)	CC-6	5 ⁵ / ₁₆	...	2000	...
		13474	100PAR/G/85WM 6PK	120	6	MISER PAR Fl.—Silicone Green Retail Pack (14,56,96)	CC-6	5 ⁵ / ₁₆	...	2000	...
		13471	100PAR/PK/85WM 6PK	120	6	MISER PAR Fl.—Silicone Pink Retail Pack (14,56,96)	CC-6	5 ⁵ / ₁₆	...	2000	...
		13472	100PAR/R/85WM 6PK	120	6	MISER PAR Fl.—Silicone Red Retail Pack (14,56,96)	CC-6	5 ⁵ / ₁₆	...	2000	...
		13473	100PAR/Y/85WM 6PK	120	6	MISER PAR Fl.—Silicone Yellow Retail Pack (14,56,96)	CC-6	5 ⁵ / ₁₆	...	2000	...

90 WATTS—HALOGEN WATT-MISER® II PAR

★PAR-38	▲Medium	13307	90PAR/FL/WMII	120	12	WATT-MISER II—Fl. (56,88,96)	CC-8	5 ⁵ / ₁₆	...	2000	1450
		13308	90PAR/FL/WMII	130	12	WATT-MISER II—Fl. (56,88,96)	CC-8	5 ⁵ / ₁₆	...	2000	1450
		13309	90PAR/SP/WMII	120	12	WATT-MISER II—Sp. (56,88,96)	CC-8	5 ⁵ / ₁₆	...	2000	1450
		13311	90PAR/SP/WMII	130	12	WATT-MISER II—Sp. (56,88,96)	CC-8	5 ⁵ / ₁₆	...	2000	1450

90 WATTS—WATT-MISER® AND WATT-MISER® PLUS

	Medium	12618	100A/90WM	120	120	WATT-MISER—Inside Frost	CC-8	4 ⁷ / ₁₆	3 ¹ / ₈	750	1620
		12625	100A/90WM	130	120	WATT-MISER—Inside Frost	CC-8	4 ⁷ / ₁₆	3 ¹ / ₈	750	1620
	▲Medium	13019	100A/90WMP/99	120	120	WATT-MISER PLUS—Inside Frost	CC-8	4 ⁷ / ₁₆	...	2500	1360
		13283	100A/90WMP/99 24PK	120	120	WATT-MISER PLUS—Inside Frost	CC-8	4 ⁷ / ₁₆	...	2500	1360
		13023	100A/90WMP/99	130	120	WATT-MISER PLUS—Inside Frost	CC-8	4 ⁷ / ₁₆	...	2500	1360
		13558	100A/90WM/CL	120	120	WATT-MISER—Clear	CC-8	4 ⁷ / ₁₆	3 ¹ / ₈	750	...
		13559	100A/90WM/CL	130	120	WATT-MISER—Clear	CC-8	4 ⁷ / ₁₆	3 ¹ / ₈	750	...

95 WATTS—MISER®

A-19	Medium	12631	95A/W/MI	48PK	120	144 ♦ MISER—Retail Pack	CC-8	4 ⁷ / ₁₆	3 ¹ / ₈	750	1710
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100 WATTS

	Medium	17931	◆100A	120	120	Inside Frost	CC-8	4 ⁷ / ₁₆	3 ¹ / ₈	750	1750	
		41034	◆100A 48PK	120	144 ◆	Inside Frost	CC-8	4 ⁷ / ₁₆	3 ¹ / ₈	750	1750	
		17933	◆100A	130	120	Inside Frost	CC-8	4 ⁷ / ₁₆	3 ¹ / ₈	750	1750	
		41036	100A/W 48PK	120	144 ◆	Soft-White	CC-8	4 ⁷ / ₁₆	...	750	1710	
		41289	100A/WP 24PK	120	120	Longlife White	CC-8	4 ⁷ / ₁₆	...	1500	1585	
		39321	100A/CL 24PK	120	120	Crystal Clear	CC-8	4 ⁷ / ₁₆	3 ¹ / ₈	750	1750	
	▲Medium Left-Hand	17995	100A/LHT	120	120	Inside Frost	CC-6	4 ⁷ / ₁₆	3 ¹ / ₈	750	1690	
	Medium	18212	100A21	120	60	Inside Frost	CC-6	5 ¹ / ₄	3 ⁷ / ₈	750	1690	
		18216	100A21	125	120	Inside Frost	CC-6	5 ¹ / ₄	3 ⁷ / ₈	750	1690	
		18221	100A21	130	60	Inside Frost	CC-6	5 ¹ / ₄	3 ⁷ / ₈	750	1690	
	▲Medium	14717	100A21/CVG	120	120	Inside Frost—Teflon Coated (83)	CC-6	5 ¹ / ₄	...	750	...	
		18257	100A21/99	120	120	Inside Frost—Extended Service	CC-6	5 ¹ / ₄	3 ⁷ / ₈	2500	1440	
		18259	100A21/99	130	120	Inside Frost—Extended Service	CC-6	5 ¹ / ₄	3 ⁷ / ₈	2500	1440	
	Medium	18301	100A/RS	120	120	Inside Frost—Rough Service	C-17	5 ¹ / ₄	3 ¹³ / ₁₆	1000	1260	
		33448	100A/RS 24PK	120	120	Inside Frost—Rough Service	C-17	5 ¹ / ₄	3 ¹³ / ₁₆	1000	1260	
		10790	100A/RS 12PK	120	48 ◆	I.F. "Ruff-Service." Retail Pack	C-17	5 ¹ / ₄	3 ¹³ / ₁₆	1000	1260	
		18303	100A/RS	130	120	Inside Frost—Rough Service	C-17	5 ¹ / ₄	3 ¹³ / ₁₆	1000	1260	
		33450	100A/RS 24PK	130	120	Inside Frost—Rough Service	C-17	5 ¹ / ₄	3 ¹³ / ₁₆	1000	1260	
		14719	100A/RS/CVG	120	120	Inside Frost—Teflon Coated	C-17	5 ¹ / ₄	...	1000	...	
	Medium	33445	100A/CL/RS 24PK	120	120	Rough Service	C-17	5 ¹ / ₄	3 ¹³ / ₁₆	1000	...	
		33447	100A/CL/RS 24PK	130	120	Rough Service	C-17	5 ¹ / ₄	3 ¹³ / ₁₆	1000	...	
	A-23	Medium	33454	100A23/VS 24PK	120	120	Inside Frost—Vibration Service (12)	C-9	5 ¹⁵ / ₁₆	4 ⁷ / ₁₆	1000	1340
			33456	100A23/VS 24PK	130	120	Inside Frost—Vibration Service (12)	C-9	5 ¹⁵ / ₁₆	4 ⁷ / ₁₆	1000	1340
18487			100A/D	120	120	Inside Frost—Daylight	CC-6	5 ¹⁵ / ₁₆	4 ⁷ / ₁₆	750	910	
18428			100A/1SBIF	120	120	Inside Frost—Silvered Bowl (28)	CC-6	5 ¹ / ₄	3 ⁷ / ₈	1000	...	
A-21	Medium	41518	100A21/SB	120	120	Clear—Silvered Bowl (28)	CC-6	5 ¹ / ₄	3 ⁷ / ₈	1000	...	
A-23		18502	100A/SB	120	120	Inside Frost—Silvered Bowl (28)	CC-6	5 ¹⁵ / ₁₆	4 ⁷ / ₁₆	750	1470	

♦ Standard package quantity is considered as 120 lamps in determining standard package count for "size of order" purposes.

♦ For energy saving consider 90-Watt WATT-MISER® or 95-Watt MISER® lamps shown on this page. The resulting cost savings are shown on page 4.



INCANDESCENT LAMPS

Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)	Approx. Initial Lumens
100 WATTS (Continued)											
A-19	Medium	41291	100A/Y 24PK	120	120	#Yellow Bug-Lite	CC-8	4 ⁷ / ₁₆	...	1000	1010
		18265	100A/Y 24PK	130	120	#Yellow Bug-Lite	CC-8	4 ⁷ / ₁₆	...	1000	1010
		13433	100A/DPK 24PK	120	120	#Coloramic—Dawn Pink	CC-6/8	4 ⁷ / ₁₆	3 ¹ / ₈	1000	...
G-40		39851	100G40	120	24	Crystal (Clear)—Globe	C-9	6 ¹⁵ / ₁₆	...	2500	1230
		14963	100G40 6PK	120	6	Crystal (Clear)—Globe	C-9	6 ¹⁵ / ₁₆	...	2500	1230
		39627	100G40/W	120	24	Pearl (White)—Globe	C-9	6 ¹⁵ / ₁₆	...	2500	1110
		49781	100G40/W 6PK	120	6	Pearl (White)—Globe—Moonglow	C-9	6 ¹⁵ / ₁₆	...	2500	1110
		13046	100G40/W/L	120	24	Pearl (White)—Globe	C-9	6 ¹⁵ / ₁₆	...	4000	...
A-23		18599	100A/B	120	120	#Blue	CC-6	5 ¹⁵ / ₁₆	...	750	...
		18610	100A/G	120	120	#Green	CC-6	5 ¹⁵ / ₁₆	...	750	...
		18594	100A/O	120	120	#Orange	CC-6	5 ¹⁵ / ₁₆	...	750	...
		18632	100A/R	120	120	#Red	CC-6	5 ¹⁵ / ₁₆	...	750	...
A-21	▲Medium	18363	100A21/TS	120	120	Clear—Traffic Signal. BDTH (78)	C-9	4 ³ / ₈	2 ⁷ / ₁₆	3000	1280
		18365	100A21/TS	130	120	Clear—Traffic Signal. BDTH (78)	C-9	4 ³ / ₈	2 ⁷ / ₁₆	3000	1280
		18386	100A21/SP	120	120	Clear—Spotlight	C-5	4 ³ / ₈	3	200	1340
		17860	100A21/4SP	120	120	Light Inside Frost—Spotlight	C-5	4 ³ / ₈	3	200	...
A-23	Medium	18449	100A23	120	120	Inside Frost	CC-6	5 ¹⁵ / ₁₆	4 ⁷ / ₁₆	750	...
	▲Medium	18542	100A23/20	120	120	Clear—Commercial Oven	CC-6	5 ¹⁵ / ₁₆	4 ⁷ / ₁₆	1000	...
G-16½	S.C. Bay.	18717	100G16½/29SC	120	60	Clear—Spotlight. BDTH (7,86,99)	CC-13	3	1 ³ / ₈	200	1660
	D.C. Bay.	18721	100G16½/29DC	120	60	Clear—Spotlight. BDTH (7,86,99)	CC-13	3	1 ³ / ₈	200	1660
		18723	100G16½/29DC	130	60	Clear—Spotlight. BDTH (7,86,99)	CC-13	3	1 ³ / ₈	200	1660
R-40	Medium	18871	♦100R/FL	120	24	Reflector Flood—I.F. (4,35,56)	CC-6	6 ⁹ / ₁₆	...	2000	...
		18873	♦100R/FL	130	24	Reflector Flood—I.F. (4,35,56)	CC-6	6 ⁹ / ₁₆	...	2000	...
		18876	100R/SP	120	24	Reflector Spot—Lt. I.F. (4,35,56)	CC-6	6 ⁹ / ₁₆	...	2000	...
T-8½	▲Medium	18898	100T8½/9	120	24	Microscope. Base down, ± 30°. ANSI: EDR (86,99)	CC-13	5 ³ / ₈	3	50	1920
★T-10	D.C. Med. Ring	18905	100T10/7	6	24	Contour Projection (86,99)●	C-6	5 ¹ / ₂	2 ³ / ₁₆	50	...
	Med. Pref.	18907	100T10P	6	24	Contour Projection (1,86,99)●	C-6	5 ³ / ₄	2 ³ / ₁₆	50	...
A-23	Medium	18512	100A23	12	120	Inside Frost (53)	C-6	5 ¹⁵ / ₁₆	4 ⁷ / ₁₆	1000	...
★PAR-38	Medium Side Prong	18822	100PAR38/FL	12	12	PAR—Mine Flood (58)	C-6	4 ⁵ / ₁₆	...	1000	1400
	Med. Skirt	18824	100PAR38/2FL	12	12	PAR—Flood (14,56,96)	C-6	5 ⁵ / ₁₆	...	1000	1400
T-8	S.C. Bay.	18881	100T8/1SC	20	24	Clear-Contour Map. (8,31,61,86,94)@	CC-6	3	2 ³ / ₁₆	50	...
A-21	Medium	18290	100A/RS	30	120	Inside Frost—Rough Service	C-9	5 ¹ / ₄	3 ¹³ / ₁₆	1000	...
	▲Medium	17845	100A21/3	32	120	Clear—Locomotive Headlight (13)	C-5	4 ³ / ₈	3	500	1610
A-23	Medium	17904	100A	34	120	Inside Frost—Train	C-9	5 ¹⁵ / ₁₆	4 ⁷ / ₁₆	1000	2160
★PAR-46	Screw Term.	34465	100PAR46	60	12	PAR—Mine Locomotive Headlight (71)	CC-2V	3 ³ / ₄	...	800	...
A-21	Medium	17976	100A	230	120	Inside Frost	C-7A	5 ¹ / ₄	3 ¹³ / ₁₆	1000	1280
		17983	100A	250	120	Inside Frost	C-7A	5 ¹ / ₄	3 ¹³ / ₁₆	1000	1280
	▲Medium	18346	100A/99	230-250	120	Inside Frost—Extended Service	C-7A	5 ¹ / ₄	3 ¹³ / ₁₆	2500	...
	Medium	18334	100A/RS	250	120	Inside Frost—Rough Service	C-17	5 ¹ / ₄	3 ¹³ / ₁₆	1000	960
	▲Medium	14718	100A/RS/CVG	250	120	Inside Frost—Teflon Coated. Rough Service	C-17	5 ¹ / ₄	3 ¹³ / ₁₆	1000	...
		17990	100A	277	120	Inside Frost (32)	C-7A	5 ¹ / ₄	3 ¹³ / ₁₆	1000	...

100-100 WATTS

P-25	▲3-Cont. Mog.	18818	100/100P25/29	120	60	Clear—Marine Running Light (1)	C-5, C-9	5 ¹ / ₁₆	3 ⁵ / ₁₆	750	1080, 1160
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100-200-300 WATTS

PS-25	3-Contact Mogul	41459	100/300 6PK	120	30	◇ Soft-White—3-Way. Burn base down only	C-2R CC-8	6 ¹¹ / ₁₆	...	1500, 1200, 1200	1320, 3620, 4940
		18780	100/300/2	120	60	◇ Soft-White—3-Way. Neck of bulb coated red from base to maximum bulb diameter (1)	C-2R CC-8	6 ¹¹ / ₁₆	...	1200	...

- ♦ For energy savings in deep down lights consider the 75ER30 lamp shown on page 17. The resulting cost savings are shown on page 4.
- ◇ To produce all three levels of light, this lamp should be tightened firmly but not forcibly in the socket to assure that all contacts are connected.
- Filament offset. 100" ± .030" from base axis.
- # In "base up" use, heat eventually may deteriorate paper-lined or plastic sockets.
- @ Source WxH: 4.5x3.0mm. Burn base up.

INCANDESCENT LAMPS



Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)	Approx. Initial Lumens
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110 WATTS

R-30	▲Medium	18980	110R30/FL/RS	120	24	Reflector Flood—I.F. Rough Service	C-17	5 ³ / ₈	...	2000	...
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116 WATTS

A-21	▲Medium	19008	116A21/TS	120	120	Clear—Traffic Signal. BDTH (78)	C-9	4 ³ / ₈	2 ⁷ / ₁₆	8000	1280
		19009	116A21/TS	125	120	Clear—Traffic Signal. BDTH (78)	C-9	4 ³ / ₈	2 ⁷ / ₁₆	8000	1280
		19010	116A21/TS	130	120	Clear—Traffic Signal. BDTH (78)	C-9	4 ³ / ₈	2 ⁷ / ₁₆	8000	1280

120 WATTS—WATT-MISER® AND MISER®

	▲Medium Skirted	12175	150PAR/FL/120WM	120	12	WATT-MISER—Flood (14,56,96)	CC-6	5 ⁵ / ₁₆	...	2000	1500
		12360	150PAR/FL/120WM 6PK	120	12	MISER—Flood. Retail Pk. (14,56,96)	CC-6	5 ⁵ / ₁₆	...	2000	1500
		12475	150PAR/FL/120WM	130	12	WATT-MISER—Flood (14,56,96)	CC-6	5 ⁵ / ₁₆	...	2000	1500
		12176	150PAR/SP/120WM	120	12	WATT-MISER—Spot (14,56,96)	CC-6	5 ⁵ / ₁₆	...	2000	1500
		12362	150PAR/SP/120WM 6PK	120	12	MISER—Spot. Retail Pk. (14,56,96)	CC-6	5 ⁵ / ₁₆	...	2000	1500
		12476	150PAR/SP/120WM	130	12	WATT-MISER—Spot (14,56,96)	CC-6	5 ⁵ / ₁₆	...	2000	1500
	▲Medium Side Prong	12810	150 PAR/3SP/120WM	120	12	WATT-MISER—PAR—Compact Projector Spot (56,58,96)	CC-6	4 ⁵ / ₁₆	...	2000	1500
		12812	150 PAR/3SP/120WM	130	12	WATT-MISER—PAR—Compact Projector Spot (56,58,96)	CC-6	4 ⁵ / ₁₆	...	2000	1500
		12808	150PAR/3FL/120WM	120	12	WATT-MISER—PAR—Compact Projector Flood (56,58,96)	CC-6	4 ⁵ / ₁₆	...	2000	1500
		12809	150PAR/3FL/120WM	130	12	WATT-MISER—PAR—Compact Projector Flood (56,58,96)	CC-6	4 ⁵ / ₁₆	...	2000	1500
R-40	Med. Screw	15048	150R/FL/120WM	120	24	WATT-MISER—Reflector Floodlight (4,14,35,56)	CC-6	6 ⁹ / ₁₆	...	2000	1600
		15047	150R/SP/120WM	120	24	WATT-MISER—Reflector Spotlight (4,14,35,56)	CC-6	6 ⁹ / ₁₆	...	2000	1600

120 WATTS

ER-40	Medium	41607	120ER40	120	24	ER-Elliptical Reflector—Lt. I.F. (4,35,56)	CC-6	7 ³ / ₈	3 ¹ / ₄	2000	1475
		43231	120ER40	130	24	ER-Elliptical Reflector—Lt. I.F. (4,35,56)	CC-6	7 ³ / ₈	3 ¹ / ₄	2000	1475
★PAR-56	Screw Terminal	19023	120PAR56VNSP	12	12	PAR—Very Narrow Spot (11,56,59)	C-8	4 ¹ / ₂	...	2000	...
		19024	120PAR56MFL	12	12	PAR—Medium Flood (11,56,59)	C-6	4 ¹ / ₂	...	2000	...
		19025	120PAR56WFL	12	12	PAR—Wide Flood (11,56,59)	C-6	4 ¹ / ₂	...	2000	1250

125 WATTS

G-16 ¹ / ₂	D.C.Bay.	19031	125G16 ¹ / ₂ DC	120	60	Clear—Spotlight. BDTH (7,86,99)	CC-13B	3	1 ¹ / ₂	600	...
R-40	Medium Skirted	19048	125R40	115	24	Reflector Infrared—Industrial—Light Inside Frost (4,56)	C-9	7 ³ / ₈	...	5000 +	...
	Medium	13049	125R40/1	120	24	Reflector Infrared—Heat—Clear (2A,4,46,56,94)	C-9	6 ⁹ / ₁₆	...	5000	...
T-10	Medium Prefocus	19053	125T10P	120	24	Clear—Spotlight. Burn base down, within 30° of vertical	C-13B	5 ³ / ₄	2 ³ / ₁₆	500	1820

135 WATTS—WATT-MISER® AND WATT-MISER® PLUS

	Medium	12619	150A/135/W	120	60	WATT-MISER—Inside Frost	CC-8	5 ³ / ₈	...	750	2580
		12627	150A/135/W	130	60	WATT-MISER—Inside Frost	CC-8	5 ³ / ₈	...	750	2580
		13322	150A/135WM/CL	120	60	WATT-MISER—Clear	CC-8	5 ³ / ₈	4 ¹ / ₁₆	750	2780
		13447	150A/135WM/CL	130	60	WATT-MISER—Clear	CC-8	5 ³ / ₈	4 ¹ / ₁₆	750	...
	▲Medium	13024	150A/135WMP/99	120	60	WATT-MISER PLUS—Inside Frost	CC-8	5 ³ / ₈	...	2500	2145
		13025	150A/135WMP/99	130	60	WATT-MISER PLUS—Inside Frost	CC-8	5 ³ / ₈	...	2500	2145
		13319	150A/135WMP/99CL	120	60	WATT-MISER PLUS—Clear	CC-8	5 ³ / ₈	4 ¹ / ₁₆	2500	2145
		13320	150A/135WMP/99CL	130	60	WATT-MISER PLUS—Clear	CC-8	5 ³ / ₈	4 ¹ / ₁₆	2500	2145

150 WATTS

A-21	Medium	19168	150A	120	60	Inside Frost	CC-8	5 ³ / ₈	4 ¹ / ₁₆	750	2850
		41294	150A 24PK	120	120★	Inside Frost	CC-8	5 ³ / ₈	4 ¹ / ₁₆	750	2850
		33009	150A	130	60	Inside Frost	CC-8	5 ³ / ₈	4 ¹ / ₁₆	750	2850
		10429	150A/W 12PK	120	60	Soft-White	CC-8	5 ³ / ₈	...	750	2780
		13140	150A21/RS 24PK	120	120	Inside Frost—Rough Service	C-17	5 ¹ / ₄	3 ³ / ₁₆	1000	...
		13141	150A21/RS 24PK	130	120	Inside Frost—Rough Service	C-17	5 ¹ / ₄	3 ³ / ₁₆	1000	...

★ Standard package quantity is considered as 60 lamps in determining standard package count for "size of order" purposes.

◆ For energy saving consider 135-Watt WATT-MISER® or WATT-MISER® PLUS lamps shown on this page. The resulting cost savings are shown on page 4.



INCANDESCENT LAMPS

Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes — Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)	Approx. Initial Lumens
150 WATTS (Continued)											
A-23	Medium	19080	150A23	120	60	Inside Frost	CC-8	6 ³ / ₁₆	4 ⁵ / ₈	750	2780
		19082	150A23	130	60	Inside Frost	CC-8	6 ³ / ₁₆	4 ⁵ / ₈	750	2780
	▲Medium	19204	150A23/99	120	60	Inside Frost—Extended Service	CC-8	6 ³ / ₁₆	4 ⁵ / ₈	2500	2310
		19206	150A23/99	130	60	Inside Frost—Extended Service	CC-8	6 ³ / ₁₆	4 ⁵ / ₈	2500	2310
PS-25	Medium	19528	150	120	60	Inside Frost	C-9	6 ¹⁵ / ₁₆	5 ³ / ₁₆	750	2680
		19529	150	125	60	Inside Frost	C-9	6 ¹⁵ / ₁₆	5 ³ / ₁₆	750	2680
		19530	150	130	60	Inside Frost	C-9	6 ¹⁵ / ₁₆	5 ³ / ₁₆	750	2680
	▲Medium	14635	150PS25/CVG	120	60	Inside Frost—Teflon Coated (83)	C-9	6 ¹⁵ / ₁₆	...	1000	...
	Medium	19561	150/CL	120	60	Clear	C-9	6 ¹⁵ / ₁₆	5 ³ / ₁₆	750	2680
		19563	150/CL	130	60	Clear	C-9	6 ¹⁵ / ₁₆	5 ³ / ₁₆	750	2680
	▲Medium	19656	150/99	120	60	Inside Frost—Extended Service	C-9	6 ¹⁵ / ₁₆	5 ³ / ₁₆	2500	2300
		19658	150/99	130	60	Inside Frost—Extended Service	C-9	6 ¹⁵ / ₁₆	5 ³ / ₁₆	2500	2300
		19668	150/99CL	130	60	Clear—Extended Service	C-9	6 ¹⁵ / ₁₆	5 ³ / ₁₆	2500	2300
	Medium	19616	150/RS	120	60	Inside Frost—Rough Service	C-17	6 ¹⁵ / ₁₆	5 ³ / ₁₆	1000	2160
		19618	150/RS	130	60	Inside Frost—Rough Service	C-17	6 ¹⁵ / ₁₆	5 ³ / ₁₆	1000	2160
	▲Medium	14716	150/RS/CVG	120	60	Inside Frost—Teflon Coated. Rough Service (83)	C-17	6 ¹⁵ / ₁₆	...	1000	...
	Medium	19629	150/CL/RS	120	60	Clear—Rough Service	C-17	6 ¹⁵ / ₁₆	5 ³ / ₁₆	1000	...
		19631	150/CL/RS	130	60	Clear—Rough Service	C-17	6 ¹⁵ / ₁₆	5 ³ / ₁₆	1000	...
		33463	150/VS 24PK	120	72	Inside Frost—Vibration Service	C-9	6 ¹⁵ / ₁₆	5 ³ / ₁₆	1000	2400
		33465	150/VS 24PK	130	72	Inside Frost—Vibration Service	C-9	6 ¹⁵ / ₁₆	5 ³ / ₁₆	1000	2400
		19651	150/CL/VS	130	60	Clear—Vibration Service	C-9	6 ¹⁵ / ₁₆	5 ³ / ₁₆	1000	...
		19606	150PS25/Y	120	60	Yellow—Bug-Lite	C-9	6 ¹⁵ / ₁₆	5 ³ / ₁₆	1000	1560
		19584	150/D	120	60	Inside Frost—Daylight	C-9	6 ¹⁵ / ₁₆	5 ³ / ₁₆	1000	...
		19597	150/SB	120	60	Inside Frost—Silver Bowl (28)	C-9	6 ¹⁵ / ₁₆	5 ³ / ₁₆	1000	2370
		19599	150/SB	130	60	Inside Frost—Silver Bowl (28)	C-9	6 ¹⁵ / ₁₆	5 ³ / ₁₆	1000	2370
★PAR-38	Medium Skirted	39182	150PAR/FL	120	12	PAR—Flood (14,56,96)	CC-6	5 ⁵ / ₁₆	...	2000	...
		39183	150PAR/FL	130	12	PAR—Flood (14,56,96)	CC-6	5 ⁵ / ₁₆	...	2000	1740
		39184	150PAR/SP	120	12	PAR—Spot (14,56,96)	CC-6	5 ⁵ / ₁₆	...	2000	...
		39185	150PAR/SP	130	12	PAR—Spot (14,56,96)	CC-6	5 ⁵ / ₁₆	...	2000	1740
		34214	150PAR/WFL	120	12	PAR—Wide Flood (14,56,96)	CC-6	5 ⁵ / ₁₆	...	2000	1740
		34215	150PAR/WFL	130	12	PAR—Wide Flood (14,56,96)	CC-6	5 ⁵ / ₁₆	...	2000	1740
		19413	150PAR38/2FL	120	12	PAR—Cool-Beam—Flood. Use only in fixtures specifically approved for Cool-Beam lamps. (14)	CC-6	5 ⁵ / ₁₆	...	2000	2000
		34532	150PAR38/2FL	130	12	PAR—Cool-Beam—Flood. Use only in fixtures specifically approved for Cool-Beam lamps. (14)	CC-6	5 ⁵ / ₁₆	...	2000	2000
		19481	150PAR38/2SP	120	12	PAR—Cool-Beam—Spot. Use only in fixtures specifically approved for Cool-Beam lamps. (14)	CC-6	5 ⁵ / ₁₆	...	2000	1740
		34533	150PAR38/2SP	130	12	PAR—Cool-Beam—Spot. Use only in fixtures specifically approved for Cool-Beam lamps. (14)	CC-6	5 ⁵ / ₁₆	...	2000	1740
	Medium Side Prong	19503	150PAR/3FL/MINE	120	12	PAR—Compact Fl. (56,58,96)	CC-6	4 ¹⁵ / ₁₆	...	2000	1740
		19505	150PAR/3FL/MINE	130	12	PAR—Compact Fl. (56,58,96)	CC-6	4 ¹⁵ / ₁₆	...	2000	1740
		19487	150PAR/3SP/MINE	120	12	PAR—Compact Sp. (56,58,96)	CC-6	4 ¹⁵ / ₁₆	...	2000	1740
		19489	150PAR/3SP/MINE	130	12	PAR—Compact Sp. (56,58,96)	CC-6	4 ¹⁵ / ₁₆	...	2000	1740
	Medium Skirted	19464	150PAR/FL/A	120	12	PAR—Flood. Dichro Amber (14,56,79)	CC-6	5 ⁵ / ₁₆	...	2000	...
		19465	150PAR/FL/B	120	12	PAR—Flood. Dichro Blue (14,56,79)	CC-6	5 ⁵ / ₁₆	...	2000	...
		19467	150PAR/FL/G	120	12	PAR—Flood. Dichro Green (14,56,79)	CC-6	5 ⁵ / ₁₆	...	2000	...
		19468	150PAR/FL/R	120	12	PAR—Flood. Dichro Red (14,56,79)	CC-6	5 ⁵ / ₁₆	...	2000	...
		19469	150PAR/FL/Y	120	12	PAR—Flood. Dichro Yellow (14,56,79)	CC-6	5 ¹ / ₈	...	2000	...
★PAR-46		49782	150PAR46/M/MFL	120	12	PAR—Medium Flood. (11,14,56,96)	CC-13	5 ¹ / ₈	...	2000	...
		41966	150PAR46/3NSP	125	12	PAR—Narrow Spot (11,56,58,96)	CC-13	4	...	2000	1500
	Medium Side Prong	41968	150PAR46/3MFL	125	12	PAR—Medium Flood (11,56,58,96)	CC-13	4	...	2000	1500
	Screw Term.	19517	150PAR46	125	12	PAR—Mine Locomotive Headlight	C-13	3 ³ / ₄	...	1000	...
★PAR-38	Medium Side Prong	44933	150PAR/3VWFL	125	12	PAR—Mine. Wide Flood (56,58,96)‡	C-13	4 ⁵ / ₁₆	...	2000	...
		19497	150PAR/4	125	12	PAR—Mine. Spot (56,58,96)‡	C-13	4 ⁵ / ₁₆	...	2000	...

♦ For energy saving consider 135-Watt **WATT-MISER®** or **WATT-MISER® PLUS** lamps shown on page 20. The resulting cost savings are shown on page 4.

‡ Burning position: prongs up or down.



Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)	Approx. Initial Lumens
150 WATTS (Continued)											
★PAR-38	Med. Skirt.	19509	150PAR/5	125	12	PAR—Mine. Spot (14,56,96)‡	C-13	5 ⁵ / ₁₆	...	2000	...
★PAR-46	Screw Term.	19518	150PAR46/3	175	12	PAR—Mine Locomotive Headlgt. (71)	C-13	3 ³ / ₄	...	800	...
	R-40 Medium	19797	‡150R/FL	120	24	Reflector Flood—I.F. ANSI: DWC Retail Pack (4,14,35,56)	CC-6	6 ⁹ / ₁₆	...	2000	1900
		49681	150R/FL 6PK	120	24	Reflector Flood—I.F. (4,14,35,56)	CC-6	6 ⁹ / ₁₆	...	2000	1900
		19799	‡150R/FL	130	24	Reflector Flood—I.F. (4,14,35,56)	CC-6	6 ⁹ / ₁₆	...	2000	1900
	▲Medium	14715	150R/FL/CVG	130	24	Refl. Fl.—Teflon Coated (4,35,56,83)	CC-6	6 ⁹ / ₁₆	...	2000	...
	Medium	19783	150R/SP	120	24	Reflector Spot—Lt. I.F. (4,14,35,56)	CC-6	6 ⁹ / ₁₆	...	2000	1900
		41935	150R/SP 6PK	120	24	Reflector Spot—Lt. I.F. (4,14,35,56)	CC-6	6 ⁹ / ₁₆	...	2000	1900
		19785	150R/SP	130	24	Reflector Spot—Lt. I.F. (4,14,35,56)	CC-6	6 ⁹ / ₁₆	...	2000	1900
		19844	150R/A	120	24	Reflector—Amber (14,35,36)	CC-6	6 ⁹ / ₁₆	...	2000	...
		19823	150R/B	120	24	Reflector—Blue (14,35,36)	CC-6	6 ⁹ / ₁₆	...	2000	...
		19827	150R/BW	120	24	Reflector—Blue-White (14,35,36)	CC-6	6 ⁹ / ₁₆	...	2000	...
		19831	150R/G	120	24	Reflector—Green (14,35,36)	CC-6	6 ⁹ / ₁₆	...	2000	...
		19835	150R/PK	120	24	Reflector—Pink (14,35,36)	CC-6	6 ⁹ / ₁₆	...	2000	...
		19841	150R/R	120	24	Reflector—Red (14,35,36)	CC-6	6 ⁹ / ₁₆	...	2000	...
		19851	150R/Y	120	24	Reflector—Yellow (14,35,36)	CC-6	6 ⁹ / ₁₆	...	2000	...
	▲Medium	41627	150R40/PL 6PK	120	24	Reflector Plant Light—"Gro and Sho" (4,14,56)	CC-6	6 ⁹ / ₁₆	3 ³ / ₈	2000	...
	Medium	44674	150R40/TB	120	24	Jewelry Spot—Reflector. Transparent Daylight Blue (4,14,35,56,76)	CC-6	6 ⁹ / ₁₆	...	2000	...
		44675	150R40/TB	130	24	Jewelry Spot—Reflector. Transparent Daylight Blue (4,14,35,56,76)	CC-6	6 ⁹ / ₁₆	...	2000	...
P-25	▲Medium	19372	150P25/10	120	60	Lt. I.F.—Spot. Hard glass button	C-5	4 ³ / ₄	3	200	2100
		19334	150P25/2SB	120	60	Clear—Spot. Silvered Bowl. Hard glass button (28)	C-5	4 ³ / ₄	...	200	...
★PAR-38	Medium Side Prong	43684	150PAR38/FL	12	12	PAR—Mine Flood (56,58,96)	C-6	4 ⁵ / ₁₆	...	1000	...
19410		150PAR38	32	12	PAR—Mine Spot (56,58,96)	CC-8	4 ⁵ / ₁₆	...	1000	...	
★PAR-46	Screw Term.	19512	150PAR46/1	32	12	PAR—Mine Locomotive Headlight	CC-8	3 ³ / ₄	...	800	...
PS-25	Medium	19744	150PS25/IF	250	60	Inside Frost	C-7A	6 ¹⁵ / ₁₆	5 ³ / ₁₆	1000	...
PS-30	▲Medium	19756	150PS30	230-250	60	Clear—Reflector—Silvered Neck	C-9	8 ¹ / ₁₆	6	1000	...
150-250-400 WATTS											
PS-35	3-Contact Mogul	19775	150/400CL	120	24	Clear—Medical Spot. 3-Way	2C-7A	9 ³ / ₈	7	200	...
		19768	150/400	120	24	Medical Spot. 3-Way	2C-7A	9 ³ / ₈	7	200	...
200 WATTS											
A-23	Medium	20049	200A/CL	120	60	Clear	CC-8	6 ³ / ₁₆	4 ⁵ / ₈	750	4010
		20051	200A/CL	130	60	Clear	CC-8	6 ³ / ₁₆	4 ⁵ / ₈	750	4010
		20028	200A	120	60	Inside Frost	CC-8	6 ³ / ₁₆	4 ⁵ / ₈	750	4010
		20019	200A 12PK	120	60	Inside Frost	CC-8	6 ³ / ₁₆	4 ⁵ / ₈	750	4010
		20030	200A	130	60	Inside Frost	CC-8	6 ³ / ₁₆	4 ⁵ / ₈	750	4010
A-21	▲Medium	11585	200A/W-1 12PK	120	60	Soft-White	CC-8	5 ³ / ₈	4 ¹ / ₁₆	750	3910
20076		200A/99	120	60	Inside Frost—Extended Service	CC-8	6 ³ / ₁₆	4 ⁵ / ₈	2500	3410	
20078		200A/99	130	60	Inside Frost—Extended Service	CC-8	6 ³ / ₁₆	4 ⁵ / ₈	2500	3410	
A-23	20081	200A/99CL	130	60	Clear—Extended Service	CC-8	6 ³ / ₁₆	4 ⁵ / ₈	2500	...	
PS-30	Medium	20170	200	120	60	Clear	C-9	8 ¹ / ₁₆	6	750	3710
		20171	200	125	60	Clear	C-9	8 ¹ / ₁₆	6	750	3710
		20172	200	130	60	Clear	C-9	8 ¹ / ₁₆	6	750	3710
	▲Medium	14636	200PS30/CVG	120	60	Inside Frost—Teflon Coated (83)	C-9	8 ¹ / ₁₆	...	1000	...
	Medium	20250	200/IF	120	60	Inside Frost	C-9	8 ¹ / ₁₆	6	750	3710
		20251	200/IF	125	60	Inside Frost	C-9	8 ¹ / ₁₆	6	750	3710
		20252	200/IF	130	60	Inside Frost	C-9	8 ¹ / ₁₆	6	750	3710
Mogul	20424	200PS30/12	120	60	Clear	C-9	8 ⁷ / ₁₆	6 ³ / ₈	750	...	
	20426	200PS30/12	130	60	Clear	C-9	8 ⁷ / ₁₆	6 ³ / ₈	750	...	

‡ For energy saving in deep down lights consider the 75ER30 lamp shown on page 17. The resulting cost savings are shown on page 4.

‡ Burning position: prongs up or down.



INCANDESCENT LAMPS

Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes — Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)	Approx. Initial Lumens
200 WATTS (Continued)											
	▲Medium	20341	200/99	120	60	Clear—Extended Service	C-9	8 ¹ / ₁₆	6	2500	3260
		20343	200/99	130	60	Clear—Extended Service	C-9	8 ¹ / ₁₆	6	2500	3260
		20352	200/99IF	120	60	Inside Frost—Extended Service	C-9	8 ¹ / ₁₆	6	2500	...
		20354	200/99IF	130	60	Inside Frost—Extended Service	C-9	8 ¹ / ₁₆	6	2500	...
	Medium	33466	200PS30/23 24PK	120	72	Inside Frost—Rough Service	C-9	8 ¹ / ₁₆	6	1000	3400
		33468	200PS30/23 24PK	130	72	Inside Frost—Rough Service	C-9	8 ¹ / ₁₆	6	1000	3400
	▲Medium	14637	200PS30/RS/CVG	120	60	Inside Frost—Teflon Coated. Rough Service (83)	C-9	8 ¹ / ₁₆	...	1000	...
	Medium	20401	200PS30/24	120	60	Clear—Rough Service	C-9	8 ¹ / ₁₆	6	1000	3400
		20403	200PS30/24	130	60	Clear—Rough Service	C-9	8 ¹ / ₁₆	6	1000	3400
		20316	200/SBIF	120	60	Inside Frost—Silvered Bowl (28)	C-9	8 ¹ / ₁₆	6	1000	3320
		20318	200/SBIF	130	60	Inside Frost—Silvered Bowl (28)	C-9	8 ¹ / ₁₆	6	1000	3320
★PAR-46	Medium Side Prong	20115	200PAR46/3NSP	120	12	PAR—Narrow Spot (11,36,56,58)	CC-13	4	...	2000	2300
		20117	200PAR46/3NSP	130	12	PAR—Narrow Spot (11,36,56,58)	CC-13	4	...	2000	2300
		20138	200PAR46/3MFL	120	12	PAR—Medium Flood (11,36,56,58)	CC-13	4	...	2000	2300
		20140	200PAR46/3MFL	130	12	PAR—Medium Flood (11,36,56,58)	CC-13	4	...	2000	2300
★PAR-56	Mogul End Prong	49889	200PAR56/MFL	120	12	PAR—Medium Flood (11,36,56,59)	CC-13	5	...	2000	...
	Screw Term.	20122	200PAR	30	12	PAR—Locomotive Headlight (2)	CC-8	4 ¹ / ₂	...	500	...
PS-30	Medium	20192	200	250	60	Clear	C-9	8 ¹ / ₁₆	6	1000	2980
		20283	200/IF	250	60	Inside Frost	C-9	8 ¹ / ₁₆	6	1000	2980
		20195	200	277	60	Clear	C-9	8 ¹ / ₁₆	6	1000	...
		20201	200	300	60	Clear	C-9	8 ¹ / ₁₆	6	1000	...
	▲Medium	20348	200/99	230-250	60	Clear—Extended Service	C-7A	8 ¹ / ₁₆	6	2500	...
		20349	200/99IF	230-250	60	Inside Frost—Extended Service	C-7A	8 ¹ / ₁₆	6	2500	...
	Medium	20468	200PS30/RS	250	60	Clear—Rough Service	C-9	8 ¹ / ₁₆	6	1000	...

240 WATTS

★PAR-56	Screw Terminal	20575	240PAR56VNSP	12	12	PAR—Very Narrow Spot (11,36,56,59)	C-6	4 ¹ / ₂	...	2000	...
		20576	240PAR56MFL	12	12	PAR—Med. Flood (11,36,56,59)	C-6	4 ¹ / ₂	...	2000	...
		20577	240PAR56WFL	12	12	PAR—Wide Flood (11,36,56,59)	C-6	4 ¹ / ₂	...	2000	2750

250 WATTS

G-30	Med. Skirt.	20629	250G30	120	60	Clear—Infrared—Indust. (2A,4,6,56)	C-7A	7 ³ / ₁₆	5	5000+	...
	▲Medium	20589	250G/SP	120	60	Clear—Spotlight. BDTH (86,99)	C-5	5 ¹ / ₈	3	200	4500
		20604	250G/FL	120	60	Clear—Floodlight. BDTH (86,99)	C-5	5 ¹ / ₈	3	800	3650
P-25		20693	250P25	120	60	Clear—Locomotive Headlight (13)	C-5	4 ³ / ₄	3	500	3700
R-40		20725	250R40/1	120	24	Reflector—Infrared Heat—Clear Face (2A,4,6,14,34,56,94)	C-9	6 ⁹ / ₁₆	...	5000+	...
		37770	250R40/1 6PK	120	30	Refl.—Infrared Heat—Clear Face Retail Pack (2A,4,6,14,34,56,94)	C-9	6 ⁹ / ₁₆	...	5000+	...
★R-40		37771	250R40/10 6PK	120	30	Reflector—Infrared Heat—Red bowl (2A,4,6,14,34,56,94)	C-9	6 ³ / ₄	...	5000+	...
R-40	Medium Skirted	20724	250R40/4	120	24	Reflector Infrared—Industrial—Light Inside Frost (6,14,34,56)	C-9	7 ³ / ₈	...	5000+	...
★R-40		20723	250R40/5	120	24	Reflector Infrared—Industrial—Clear Face (6,14,36,56)	C-9	7 ¹ / ₂	...	5000+	...
T-14	▲Medium	20754	250T14/1	120	24	Clear—Lighthouse (1)	C-5	5 ¹ / ₂	3	800	...
P-25	▲Medium	20681	250P25	32	60	Clear—Locomotive Headlight (13)	C-5A	4 ³ / ₄	3	500	4650

300 WATTS

PS-25	Medium	20861	300M	120	60	Clear	CC-8	6 ⁵ / ₁₆	5 ³ / ₁₆	750	6360
		20863	300M	130	60	Clear	CC-8	6 ⁵ / ₁₆	5 ³ / ₁₆	750	6360
		20915	300M/IF	120	60	Inside Frost	CC-8	6 ⁵ / ₁₆	5 ³ / ₁₆	750	6360
		41058	300M/IF 12PK	120	60	Inside Frost	CC-8	6 ⁵ / ₁₆	5 ³ / ₁₆	750	6360
		20917	300M/IF	130	60	Inside Frost	CC-8	6 ⁵ / ₁₆	5 ³ / ₁₆	750	6360
PS-30	▲Medium	20885	300M/99	120	60	Clear—Extended Service	C-9	8 ¹ / ₁₆	6	2500	5190
		20887	300M/99	130	60	Clear—Extended Service	C-9	8 ¹ / ₁₆	6	2500	5190
		20892	300M/99IF	120	60	Inside Frost—Extended Service	C-9	8 ¹ / ₁₆	6	2500	...
		20894	300M/99IF	130	60	Inside Frost—Extended Service	C-9	8 ¹ / ₁₆	6	2500	...



Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)	Approx. Initial Lumens
300 WATTS (Continued)											
PS-30	Medium	20942	300M/PS30/IF	120	60	Inside Frost	C-9	8 ¹ / ₁₆	6	750	6110
		20944	300M/PS30/IF	130	60	Inside Frost	C-9	8 ¹ / ₁₆	6	750	6110
PS-35	Medium Skirted	20991	300MS/SBIF	120	24	Inside Frost—Silver Bowl. Burn base up (14)	C-9	9 ⁷ / ₈	7 ¹ / ₂	1000	...
		21023	300	120	24	Clear	C-9	9 ³ / ₈	7	1000	5820
	Mogul	21024	300	125	24	Clear	C-9	9 ³ / ₈	7	1000	5820
		21025	300	130	24	Clear	C-9	9 ³ / ₈	7	1000	5820
PS-35	Mogul	21077	300/IF	120	24	Inside Frost	C-9	9 ³ / ₈	7	1000	5820
		21079	300/IF	130	24	Inside Frost	C-9	9 ³ / ₈	7	1000	5820
	▲Mogul	21165	300/99	120	24	Clear—Extended Service	C-9	9 ³ / ₈	7	2500	5190
		21167	300/99	130	24	Clear—Extended Service	C-9	9 ³ / ₈	7	2500	5190
		21175	300/99IF	120	24	Inside Frost—Extended Service	C-9	9 ³ / ₈	7	2500	...
		21177	300/99IF	130	24	Inside Frost—Extended Service	C-9	9 ³ / ₈	7	2500	...
		21115	300/RS	120	24	Clear—Rough Service	C-9	9 ³ / ₈	7	1000	5340
		21117	300/RS	130	24	Clear—Rough Service	C-9	9 ³ / ₈	7	1000	5340
	Mogul	21137	300/SBIF	120	24	Inside Frost—Silver Bowl. BU (14)	C-9	9 ³ / ₈	7	1000	5410
		21139	300/SBIF	130	24	Inside Frost—Silver Bowl. BU (14)	C-9	9 ³ / ₈	7	1000	5410
★PAR-56	Mogul End Prong	20803	300PAR56/NSP	120	12	PAR—Narrow Spot (11,36,56,59)	CC-13	5	...	2000	3840
		20836	300PAR56/MFL	120	12	PAR—Medium Flood (11,36,56,59)	CC-13	5	...	2000	3840
		20838	300PAR56/MFL	130	12	PAR—Medium Flood (11,36,56,59)	CC-13	5	...	2000	3840
		20849	300PAR56/WFL	120	12	PAR—Wide Flood (11,36,56,59)	CC-13	5	...	2000	3840
		20851	300PAR56/WFL	130	12	PAR—Wide Flood (11,36,56,59)	CC-13	5	...	2000	3840
★PAR-56	Extended Mogul End Prong	39398	300PAR56/2NSP	130	12	PAR—Cool-Beam—Narrow Spot. Only fixtures specifically approved for Cool-Beam lamps (11,18,56,59)	CC-13	5 ³ / ₄	...	2000	3840
		39400	300PAR56/2MFL	120	12	PAR—Cool-Beam—Medium Flood. Only fixtures specifically approved for Cool-Beam lamps. (11,18,56,59)	CC-13	5 ³ / ₄	...	2000	3840
		39403	300PAR56/2WFL	120	12	PAR—Cool-Beam—Wide Flood. Only fixtures specifically approved for Cool-Beam lamps. (11,18,56,59)	CC-13	5 ³ / ₄	...	2000	3840
R-40	Medium	21213	300R/FL	120	24	Reflector Flood—I.F. (4,35,46,56,73)	CC-2V	6 ⁹ / ₁₆	...	2000	3650
		21215	300R/FL	130	24	Reflector Flood—I.F. (4,35,46,56,73)	CC-2V	6 ⁹ / ₁₆	...	2000	3650
★R-40	▲Medium	21229	300R/FL/1	120	24	Reflector Flood—I.F. (35,36,46,56,73)	CC-2V	6 ³ / ₄	...	2000	3650
		21231	300R/FL/1	130	24	Reflector Flood—I.F. (35,36,46,56,73)	CC-2V	6 ³ / ₄	...	2000	3650
	▲Mogul	21254	300R/3FL	120	24	Reflector Flood—I.F. (18,33,73)	CC-2V	7 ¹ / ₄	...	2000	3650
		21256	300R/3FL	130	24	Reflector Flood—I.F. (18,33,73)	CC-2V	7 ¹ / ₄	...	2000	3650
		21268	300R/3FL/MS	120	24	Ref. Flood—I.F. Mill Service (18,33)	C-7A	7 ¹ / ₄	...	1000	...
R-40	Medium	21197	300R/SP	120	24	Ref. Spot—Lt. I.F. (4,35,46,56,73)	CC-2V	6 ⁹ / ₁₆	...	2000	3650
		21199	300R/SP	130	24	Ref. Spot—Lt. I.F. (4,35,46,56,73)	CC-2V	6 ⁹ / ₁₆	...	2000	3650
★T-20	Med. Bipost	21280	300T20/1	120	12	Inside Frost (52,73,86,89,99)	C-13	6 ¹ / ₂	4	1000	...
★PAR-56	Screw Terminal	23427	300PAR56/WFL	12	12	PAR—Wide Flood. Swimming Pool (18,56,93,98)	C-6	4 ¹ / ₂	...	1000	6000
★R-40	■Mogul	23429	300R40/FL	12	24	Reflector Flood—I.F. Swimming Pool. BDTH (21,35,53)	C-2V	7 ¹ / ₄	...	1000	5000
PS-35	▲Mogul	21056	300	250	24	Clear	C-7A	9 ³ / ₈	7	1000	4890
		21058	300	277	24	Clear	C-7A	9 ³ / ₈	7	1000	...
★R-40	Mogul	21263	300R/3FL	250	24	Reflector Flood—I.F. (18,33,73)	C-7A	7 ¹ / ₄	...	2000	...
		21265	300R/3FL	277	24	Reflector Flood—I.F. (18,33,73)	C-7A	7 ¹ / ₄	...	2000	...

375 WATTS

R-40	Medium Skirted	21331	375R40	115	24	Reflector Infrared—Industrial Light I.F. (4,46,56)	C-9	7 ³ / ₈	...	5000+	...
★R-40		21334	375R40/1	115	24	Reflector Infrared—Industrial—Clear Face (36,46,56)	C-9	7 ¹ / ₂	...	5000+	...
		21336	375R40/10	115	24	Reflector Infrared—Industrial—Red Bowl (36,46,56)	C-9	7 ¹ / ₂	...	5000+	...
G-30		21329	375G30	115	24	Clear—Infrared—Industrial (2A,14,56)	C-7A	7 ³ / ₁₆	5	5000+	...

400 WATTS

G-30	▲Medium	21349	400G/SP	120	60	Clear—Spotlight. BDTH (86,99)	C-5	5 ¹ / ₈	3	200	8400
		21363	400G/FL	120	60	Clear—Floodlight. BDTH (86,99)	C-5	5 ¹ / ₈	3	800	6800

♦ For 300R/FL or 300R/SP consider the energy-saving substitution of the Q250PAR38FL and Q250PAR38SP lamps shown on page 40 and for deep down lights consider the energy-saving substitution of 120ER40 lamp shown on page 20. The resulting cost savings are shown on page 4.



INCANDESCENT LAMPS

Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)	Approx. Initial Lumens
500 WATTS											
PS-35	▲Mogul	21530	500	120	24	Clear	CC-8	9 ³ / ₈	7	1000	10850
		21532	500	130	24	Clear	CC-8	9 ³ / ₈	7	1000	10850
		21579	500/IF	120	24	Inside Frost	CC-8	9 ³ / ₈	7	1000	10850
		21581	500/IF	130	24	Inside Frost	CC-8	9 ³ / ₈	7	1000	10850
PS-40		21687	500PS40	120	24	Clear	C-9	9 ³ / ₄	7	1000	9900
		21641	500/99	120	24	Clear—Extended Service	C-9	9 ³ / ₄	7	2500	9070
		21643	500/99	130	24	Clear—Extended Service	C-9	9 ³ / ₄	7	2500	9070
		21649	500/99IF	120	24	Inside Frost—Extended Service	C-9	9 ³ / ₄	7	2500	9070
		21651	500/99IF	130	24	Inside Frost—Extended Service	C-9	9 ³ / ₄	7	2500	9070
		21659	500/RS	120	24	Clear—Rough Service	C-9	9 ³ / ₄	7	1000	...
		21661	500/RS	130	24	Clear—Rough Service	C-9	9 ³ / ₄	7	1000	...
		21622	500/SBIF	120	24	Inside Frost—Silver Bowl. BU (14)	C-9	9 ³ / ₄	7	1000	9530
		21624	500/SBIF	130	24	Inside Frost—Silver Bowl. BU (14)	C-9	9 ³ / ₄	7	1000	9530
G-30	Medium Skirted	21426	500G30/1	115	60	Infrared. Industrial (2A,6,14,56)	C-7A	7 ³ / ₁₆	5	5000+	...
G-40	▲Mogul	21451	500G/FL	120	24	Clear—Spotlight—BDTH (86,99)	C-5	7 ¹ / ₁₆	4 ¹ / ₄	800	9300
★PAR-64		39406	500PAR64/NSP	120	12	PAR—Narrow Spot (11,18,56,59)	CC-13	6	...	2000	6500
		39407	500PAR64/NSP	130	12	PAR—Narrow Spot (11,18,56,59)	CC-13	6	...	2000	6500
		39409	500PAR64/MFL	120	12	PAR—Medium Flood (11,18,56,59)	CC-13	6	...	2000	6500
		39410	500PAR64/MFL	130	12	PAR—Medium Flood (11,18,56,59)	CC-13	6	...	2000	6500
		39412	500PAR64/WFL	120	12	PAR—Wide Flood (11,18,56,59)	CC-13	6	...	2000	6500
		39413	500PAR64/WFL	130	12	PAR—Wide Flood (11,18,56,59)	CC-13	6	...	2000	6500
★R-40	▲Mogul	21734	500R/3FL	120	24	Reflector Flood—I.F. (18,33,73)	CC-2V	7 ¹ / ₄	...	2000	6500
		21736	500R/3FL	130	24	Reflector Flood—I.F. (18,33,73)	CC-2V	7 ¹ / ₄	...	2000	6500
		21751	500R/3FL/MS	120	24	Refl. Flood—I.F. Mill Service (18)	C-7A	7 ¹ / ₄	...	1000	...
		21728	500R/3SP	120	24	Reflector Spot—Light I.F. (18,33,73)	CC-2V	7 ¹ / ₄	...	2000	6500
R-52		21759	500R52	120	12	Refl. Hi. Bay—Lt. I.F. (4,19,73,92)	C-7A	11 ³ / ₄	...	2000	7600
		21761	500R52	130	12	Refl. Hi. Bay—Lt. I.F. (4,19,73,92)	C-7A	11 ³ / ₄	...	2000	7600
★T-20	Medium Bipost	21835	500T20/13	120	12	Clear—Airway Beacon (40,86,89,99)	C-13B	7 ¹ / ₂	3	500	10300
		21870	500T20/50	120	12	Inside Frost (52,73,86,89,99)	C-13	6 ¹ / ₂	4	1000	9800
		21872	500T20/50	130	12	Inside Frost (52,73,86,89,99)	C-13	6 ¹ / ₂	4	1000	9800
★T-24	▲Mogul	21910	500T24	120	12	Clear—Saw Mill. Light source approx. 6" long (2,86,99)	C-8	11 ¹³ / ₁₆	7	1500	...
PS-40		21557	500	250	24	Clear	C-7A	9 ³ / ₄	7	1000	9270
		21560	500	277	24	Clear	C-7A	9 ³ / ₄	7	1000	...
		21647	500/99	230-250	24	Clear—Extended Service	C-7A	9 ³ / ₄	7	2500	...
★R-40	▲Mogul	21744	500R/3FL	250	24	Reflector Flood—Lt. I.F. (18,33,73)	C-7A	7 ¹ / ₄	...	2000	...
R-52		21773	500R52	250	12	Reflector High Bay—Light I.F. (4,19,34,36,73,92)	C-7A	11 ³ / ₄	...	2000	6100

620 WATTS

PS-40	Mogul Prefocus	21950	620PS40P	120	24	Clear—Airport	C-9	10 ¹ / ₁₆	5 ¹¹ / ₁₆	3000	11200
		21952	620PS40P	130	24	Clear—Airport	C-9	10 ¹ / ₁₆	5 ¹¹ / ₁₆	3000	11200
★PS-40		21955	620PS40/1P	120	24	Clear—Airport	C-9	10 ¹ / ₁₆	5 ¹¹ / ₁₆	3000	...

750 WATTS

PS-52	▲Mogul	21998	750	120	12	Clear (4,92)	CC-8	13	9 ¹ / ₂	1000	17040
		22000	750	130	12	Clear (4,92)	CC-8	13	9 ¹ / ₂	1000	17040
		22016	750/IF	120	12	Inside Frost (4,92)	CC-8	13	9 ¹ / ₂	1000	17040
		22018	750/IF	130	12	Inside Frost (4,92)	CC-8	13	9 ¹ / ₂	1000	17040
		22059	750/99	120	12	Clear—Extended Service (4,92)	C-7A	13	9 ¹ / ₂	2500	14200
		22061	750/99	130	12	Clear—Extended Service (4,92)	C-7A	13	9 ¹ / ₂	2500	14200
		22038	750/SBIF	120	12	I.F.—Silvered Bowl. BU (4,19,92)	C-7A	13	9 ¹ / ₂	1000	...
		22080	750R52	120	12	Refl. High Bay—Lt. I.F. (4,19,73,92)	C-7A	11 ³ / ₄	...	2000	13000
		22082	750R52	130	12	Refl. High Bay—Lt. I.F. (4,19,73,92)	C-7A	11 ³ / ₄	...	2000	13000

INCANDESCENT LAMPS



Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)	Approx. Initial Lumens
750 WATTS (Continued)											
★T-24	Medium Bipost	22115	750T24	120	24	Inside Frost—(52,73,86,89,99)	C-13	9 ³ / ₁₆	5 ¹ / ₂	1000	14800
		22117	750T24	130	24	Inside Frost—(52,73,86,89,99)	C-13	9 ³ / ₁₆	5 ¹ / ₂	1000	14800
★PS-52	▲Mogul	22008	750	250	12	Clear (4,19,92)	C-7A	13	9 ¹ / ₂	2000	...
R-52		22093	750R52	250	12	Refl. High Bay—Lt. I.F. (4,19,73,92)	C-7A	11 ³ / ₄	...	2000	10400

1000 WATTS

PS-52	▲Mogul	22258	1000	120	12	Clear (4,92)	CC-8	13	9 ¹ / ₂	1000	23740
		22260	1000	130	12	Clear (4,92)	CC-8	13	9 ¹ / ₂	1000	23740
		22310	1000/IF	120	12	Inside Frost (4,92)	CC-8	13	9 ¹ / ₂	1000	23740
		22312	1000/IF	130	12	Inside Frost (4,92)	CC-8	13	9 ¹ / ₂	1000	23740
		22299	1000/99	120	12	Clear—Extended Service (4,92)	C-7A	13	9 ¹ / ₂	2500	19800
		22301	1000/99	130	12	Clear—Extended Service (4,92)	C-7A	13	9 ¹ / ₂	2500	19800
		22348	1000/SBIF	120	12	I.F.—Silvered Bowl. BU (4,19,92)	C-7A	13	9 ¹ / ₂	1000	20400
★G-25	▲Medium	22170	1M/G25/1	115	12	Clear—Underwater burning only. Tungsten powder cleaner (3A)	C-5	5 ³ / ₈	3 ⁵ / ₈	50	...
★G-40	▲Mogul	22193	1M/G40FL	120	24	Clear—Floodlight—BDTH (86,99)	C-5	7 ⁷ / ₈	5 ¹ / ₄	800	20000
★R-52		22401	1M/R52	120	12	Reflector High Bay—(4,19,73,92)	C-7A	11 ³ / ₄	...	2000	...
		22447	1M/T20AB	120	12	Clear—Airway Beacon (1)	C-13	9 ¹ / ₁₆	4 ³ / ₄	500	21000
	Mog. Bipost	22429	1M/T20BP	120	12	Clear—Airway Beacon (1)	C-13	9 ¹ / ₂	4	500	22000
★T-24	Med. Bipost	22479	1M/T24	120	24	Inside Frost (52,73,86,89,99)	C-13	9 ³ / ₁₆	5 ¹ / ₂	1000	21200
	▲Mogul	22512	1M/T24/7	120	12	Clear—Saw Mill. Light source approx. 6" long (2,86,89)	C-8	11 ¹³ / ₁₆	7	1500	...
PS-52		22280	1000	250	12	Clear (4,92)	C-7A	13	9 ¹ / ₂	2000	17700
		22284	1000	277	12	Clear (4,92)	C-7A	13	9 ¹ / ₂	2000	...

1200 WATTS

★T-20	Mogul Bipost	22524	1200T20	115	12	Clear—Airway Beacon (1,73)	CC-8	9 ¹ / ₂	4	750	29600
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1500 WATTS

PS-52	▲Mogul	22590	1500	120	12	Clear (4,20,92)	C-7A	13	9 ¹ / ₂	1000	34400
		22592	1500	130	12	Clear (4,20,92)	C-7A	13	9 ¹ / ₂	1000	34400
		22601	1500/99	130	12	Clear—Extended Service (4,20,92)	C-7A	13	9 ¹ / ₂	2500	...
★PS-52		22643	1500PS52/46	120	12	Clear (4,20,92)	C-7A	13	9 ¹ / ₂	2500	...
		22645	1500PS52/46	130	12	Clear (4,20,92)	C-7A	13	9 ¹ / ₂	2500	...
★G-48		22566	1500G48/6	120	9	Clear—Flood. BDTH (86,99)	C-5	8 ⁹ / ₁₆	5 ¹ / ₄	800	32200
PS-52	▲Mogul	22613	1500	250	12	Clear (4,20,92)	C-7A	13	9 ¹ / ₂	2000	...

REFLECTOR SUNLAMPS

Rated average life under specified test conditions with 10-or-more burning hours per start is 2000 hours. In household use where comparatively short burning periods are involved, life cannot be adequately expressed in hours. Service life in ordinary household use has been estimated as approximately 1200 applications.

Please observe operating and exposure limitations stated on packaging material and/or instruction booklet enclosed.

Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	M. O. L. (Inches)	Rated Avg. Life (Hours)
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275 WATTS

★R-40	▲Mogul	14235	RSM 4PK	110-125	4	Reflector Sunlamp—I.F. For operation on 60-cycle A.C. only. Internal filament ballast. Approximate watts in arc tube: 105. No auxiliary equipment required	7 ⁵ / ₁₆	2000
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LUMEN RATED TRAFFIC SIGNAL LAMPS

Burning Position—BASE DOWN TO HORIZONTAL.

Initial Lumens	Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)
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165 WATTS

1950	P-25	▲Medium	20094	1950L/P25/TS	120	60	Clear—Traffic Signal	C-9	4 ³ / ₄	3	8000
			20096	1950L/P25/TS	125	60	Clear—Traffic Signal	C-9	4 ³ / ₄	3	8000
			20097	1950L/P25/TS	130	60	Clear—Traffic Signal	C-9	4 ³ / ₄	3	8000



SUPPLEMENTARY LIGHTING ("HIGH INTENSITY") INCANDESCENT LAMPS

General Electric has a complete line of replacement lamps designed for use in "high intensity" portable lighting equipment. Used for supplementary lighting in both residential and industrial applications, lamps are available both in low-voltage and standard-voltage types.

Supplementary Lighting (High Intensity) lamps listed below should be replaced only with an equivalent lamp having correct volts and watts for the fixture used. Substituting higher wattage lamps may cause damage to the fixture.

Watts	C.P.	Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)
12	15	S-8	S.C. Bay	43062	12S8/93T CARD/2	12	240☆	Clear—12-Card Pack (66)	C-2R	2	1 ¹ / ₄	1000
21	21	S-8	S.C. Bay.	43064	21S8/1073 CARD/2	12	240☆	Clear—12-Card Pack	C-6	2	1 ¹ / ₄	1000
24	32	RP-11	S.C. Bay.	43065	24RP/1133 CARD/2	6	240☆	Clear—12-Card Pack (97)	C-2R	2 ¹ / ₄	1 ¹ / ₄	200
40	...	S-11	Intermed.	35156	40S11N/1 CARD	120	240	Clear—12-Card Pack	CC-2V	2 ⁵ / ₁₆	1 ⁵ / ₈	500
40	...	S-11	Intermed.	15734	40S11N/1/F	120	120	Frost	CC-2V	2 ⁵ / ₁₆	1 ⁵ / ₈	500

☆ Indicates total count of 2-lamp carded packs in standard package. Multiply by 2 to determine actual quantity of lamps.

LAMPS LISTED BY AMPERES AND VOLTS

Lamps listed by amperes and volts generally are identifiable by their low voltage ratings (less than 120 Volts), as well as their ratings in amperes rather than watts. They are designed to perform a broad variety of precise lighting tasks, principally in the following applications:

Railway Light Signal
Marine

Airport
Microscope Illuminator

Street Railway
Sound Reproducer

Phototube Exciter
Swimming Pool

Contour Map
Switchboard

Amps	Bulb	Base	Product Code	Lamp Ordering Code (Except Volts)	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Pages 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)
.11A	T-4	Cand.	23351	11A/T4C	18	100	Clear—Switchboard—13 lumens	C-2F	1 ¹ / ₂	1 ⁵ / ₁₆	2000
.25A	S-8	S.C. Pref. (A)	23432	25A/S8SCP	6.2	100	Clear—Marine Signal. Spiral lead	C-8	2	1 ¹ / ₈	500
.25A	S-8	S.C. Pref. (A)	36465	25A/S8SCP	12	100	Clear—Marine Signal. Spiral lead	C-8	2	1 ¹ / ₈	500
.25A	S-8	S.C. Bay.	23437	25A/S8/1SC	13.5	100	Clear—Railway Signal (68)	C-2R	2	1 ¹ / ₄	1000
.46A	S-8	S.C. Pref. (A)	23474	46A/S8SCP/1	6.2	100	Clear—Marine Signal. Spiral lead. Krypton filled	C-8	2	1 ¹ / ₈	500
.55A	S-8	S.C. Pref. (A)	23478	55A/S8	12	100	Clear—Marine. Spiral lead	C-8	2	1 ¹ / ₈	500
.70A	S-8	S.C. Pref. (A)	23493	70A/S8/1	6.2	100	Clear—Marine Signal. Spiral lead. Krypton filled	C-8	2	1 ¹ / ₈	500
.77A	S-8	S.C. Pref. (A)	23501	77A/S8	12	100	Clear—Marine. Spiral lead	C-8	2	1 ¹ / ₈	500
1.15A	S-8	S.C. Pref. (A)	23219	1.15A/S8	12	100	Clear—Marine. Spiral lead	C-8	2	1 ¹ / ₈	500
2.03A	S-8	S.C. Pref. (A)	32916	2.03A/S8SCP	12	100	Clear—Marine. Spiral lead	C-8	2	1 ¹ / ₈	500
3.05A	S-11	S.C. Pref. (A)	23247	3.05A/S11SCP	12	120	Clear—Marine. Spiral lead	C-8	2 ³ / ₈	1 ¹ / ₈	500
4A	T-8	S.C. Bay. ⊖	23255	4A/T8/25	8.5	24	Clear—Sound Reproducer. (Western Electric System) Source WxH: 8.3x0.6mm. (1,61)	C-6	3 ¹ / ₈	1 ³ / ₄	100
4A	T-8	S.C. Pref. (A)	23258	4A/T8SCP	9	24	Clear—Sound Reproducer. Source WxH: 4.8x1.3mm. ANSI: BXM (1,61)	C-6	3 ¹ / ₈	1 ¹⁵ / ₃₂	500
4A	T-8	S.C. Pref. (A)	23263	4A/T8/87	9	24	Clear—Sound Reproducer. Source WxH: 1.3x4.4mm. ANSI: BYS (1,61)	C-8	3 ¹ / ₈	1 ¹⁵ / ₃₂	500
5A	T-8	S.C. Bay. ⊖	23270	5A/T8SC	10	24	Clear—Sound Reproducer (RCA Photophone). Source WxH: 5.1x1.4mm. A.A. tolerance: 1 ¹ / ₃₂ ". ANSI: BXR (1,61)	C-6	3 ¹ / ₈	1 ¹⁹ / ₃₂ ± 3 ¹ / ₆₄	100
5A	T-8	S.C. Pref. (A)	23272	5A/T8SCP	10	24	Clear—Sound Reproducer. Source WxH: 5.1x1.4mm. ANSI: BXN (1,61)	C-6	3 ¹ / ₈	1 ¹⁵ / ₃₂	100
5A	G-16 ¹ / ₂	S.C. Pref. (A)	23275	5A/G16 ¹ / ₂ /3	20	60	Clear—Contour Map. Bulb selected for clarity. BDTH	CC-6	3	1 ³ / ₈	50
6.6A	★PAR-56	Screw Term.	23310	6.6A/PAR56/5	45W	12	PAR—Airport. Stippled	C-8	4 ¹ / ₂	...	1000
6.6A	T-10	Medium Prefocus	23295	6.6A/T10P	45W	60	Clear—Airport. 675 lumens (1)	C-2V	3 ¹⁵ / ₁₆	1 ¹ / ₂	1000
6.6A			23294	6.6A/T10/1P	30W	60	Clear—Airport. 400 lumens (1)	C-2V	3 ¹⁵ / ₁₆	1 ¹ / ₂	1000
6.6A			23297	6.6A/T10/4P	30W	60	Silvered Bulb—Airport Taxiway	C-2V	3 ¹⁵ / ₁₆	1 ¹ / ₂	1000
6.6A	T-14		23298	6.6A/T14P	200W	24	Clear—Airport. 4900 lumens (1)	C-13	5 ³ / ₄	2 ³ / ₁₆	75
6.6A			23300	6.6A/T14/2P	204W	24	Clear—Airport (1)	C-13	5 ³ / ₄	2 ³ / ₁₆	500
6.6A	★T-14		34677	6.6A/T14/3P	210W	24	Clear—Airport (1)	C-13	5 ³ / ₄	2 ³ / ₁₆	300

(A) The plane containing the base axis and the major locking eyelet (the eyelet that is equidistant from the other two eyelets) is at right angles to the plane of the filament or lead wires. Distance from bottom of base contact to bottom of the collar is .406.

⊖ Special base. Lead wire to shell soldered at bottom.



LAMPS LISTED BY AMPERES AND VOLTS (Continued)

Amps	Bulb	Base	Product Code	Lamp Ordering Code (Except Volts)	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)
7.5A	T-8	S.C. Bay. ⊖	23319	7.5A/T8SC	10	24	Clear—Sound Reproducer. Source WxH: 5.6x1.8mm. A.A. tolerance: 1/32". ANSI: BXG (1,61)	C-6	3 1/8	1 19/32 ± 3/64	100
7.5A			23326	7.5A/T8/92SC	10	24	Clear—Sound Reproducer—Comparator. Source WxH: 1.8x5.2mm. ANSI: BXE (1,61)	C-8	3 1/8	1 3/4	100
7.5A		S.C. Pref. (A)	23320	7.5A/T8SCP	10	24	Clear—Sound Reproducer. Source WxH: 5.6x1.8mm. ANSI: BXA (1,61)	C-6	3 1/8	1 15/32	100
7.5A			23327	7.5A/T8/94	10	24	Clear—Sound Reproducer. Source WxH: 1.8x5.2mm. ANSI: BYA (1,61)	C-8	3 1/8	1 5/8	100
18A	★T-10	▲Medium	23388	18A/T10/1	6	24	Clear—Microscope Illuminator. Usable light source approx. 14mm long x 2mm wide. (64)	SR-8	5 1/2	3 3/8	150
18A		Medium Prefocus	23389	18A/T10/1P	6	24	Clear—Microscope Illuminator. Usable light source approx. 14mm long x 2mm wide. (64)	SR-8	5 3/4	2 3/16	150
18A			23395	18A/T10/2P	6	24	Clear—Microscope Illuminator. Usable light source approx. 8mm long x 2mm wide. 1800 lumens (64)	SR-6A	5 3/4	2 3/16	150
21A	★R-40	▲Medium	23423	21A/R40/FL	12	24	Reflector Flood—I.F. Swimming Pool. BDTH (21.35,53)	C-2V	6 11/16	...	1000

SERIES STREET LIGHTING LAMPS

Unless otherwise indicated, General Electric Series Street Lighting Lamps will operate in any burning position, but lumen maintenance is best when burned vertically base up.

Rated Initial Lumens	Initial Volts	Bulb	Base	Product Code	Lamp Ordering Code	Amps	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)
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Regular Service

2500	21.6	PS-35	▲Mogul	23080	2500/66	6.6A	24	Clear	C-2V	9 3/8	7	2000
6000	47.8	PS-40		23127	6M/66	6.6A	24	Clear	C-2V	9 3/4	7	2000

Group Replacement Service

2500	23.0	PS-35	▲Mogul	23084	2500/66R	6.6A	24	Clear	C-2V	9 3/8	7	3000
4000	34.2			23112	4M/66R	6.6A	24	Clear	C-2V	9 3/8	7	3000
6000	15.8	PS-40		23139	6M/20R/BU	20A	24	Clear—Burn base up	C-2V	9 3/4	7	3000
10000	27.3			23152	10M/20R/BU	20A	24	Clear—Burn base up	C-7	9 3/4	7	3000

Extended Group Replacement Service

Extended Group Replacement Series Street Lighting Lamps are designed for unusual conditions of especially high-maintenance or low-energy costs.

1000	11.3	PS-25	▲Mogul	23058	1M/66G	6.6A	60	Clear	CC-8	7 1/8	5 3/8	6000
2500	24.4			23094	2500/66G/PS25	6.6A	60	Clear	C-2V	7 1/8	5 3/8	6000
2500	24.9	PS-35		23086	2500/66G	6.6A	24	Clear	C-2V	9 3/8	7	6000
4000	37.6			23111	4M/66G	6.6A	24	Clear	C-2V	9 3/8	7	6000
6000	52.6	PS-40		23129	6M/66G	6.6A	24	Clear	C-2V	9 3/4	7	6000

⊖ Special base. Lead wire to shell soldered at bottom.

(A) The plane containing the base axis and the major locking eyelet (the eyelet that is equidistant from the other two eyelets) is at right angles to the plane of the filament or lead wires. Distance from bottom of base contact to bottom of the collar is .406.



MULTIPLE STREET LIGHTING LAMPS

Unless otherwise indicated, General Electric Multiple Street Lighting Lamps will operate in any burning position, but lumen maintenance is best when burned vertically base up.

Watts	Nominal Lumens	Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes — Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)	Approx. Initial Lumens
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Group Replacement Service

92	1000	A-23	▲Medium	17784	92A23/49	120	120	Clear	C-9	5 ¹⁵ / ₁₆	4 ⁷ / ₁₆	3000	1185
189	2500	PS-25	▲Mogul	19938	189PS25/64	120	60	Clear	C-9	6 ¹⁵ / ₁₆	5 ¹ / ₄	3000	2910
189	2500			19939	189PS25/64	130	60	Clear	C-9	6 ¹⁵ / ₁₆	5 ¹ / ₄	3000	...
295	4000	PS-35		20771	295PS35/58	120	24	Clear	C-9	9 ³ / ₈	7	3000	4950
295	4000		▲Mogul	20772	295PS35/58	125	24	Clear	C-9	9 ³ / ₈	7	3000	...
405	6000	PS-40		21408	405PS40/54	120	24	Clear	C-9	9 ³ / ₄	7	3000	6850

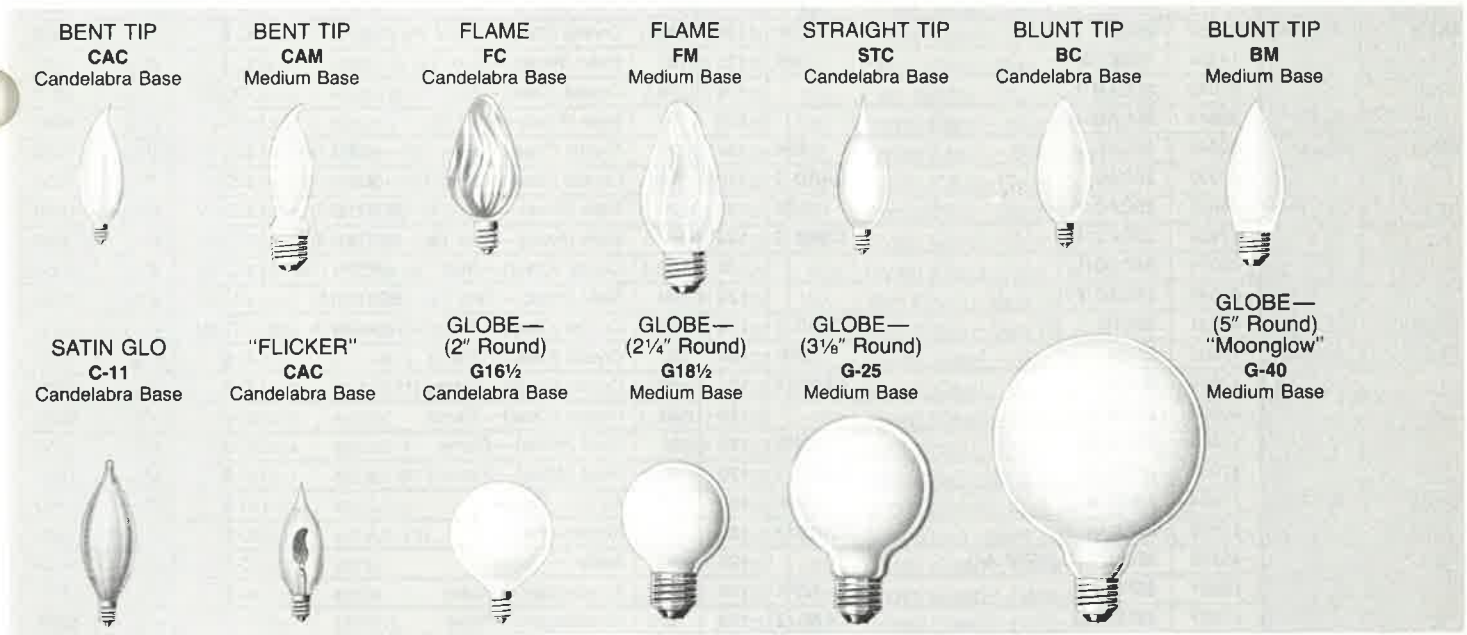
Extended Group Replacement Service

Extended Group Replacement Multiple Street Lighting Lamps are designed for unusual conditions especially high-maintenance or low-energy costs.

103	1000	A-23	▲Medium	18946	103A23	125	120	Clear	C-9	5 ¹⁵ / ₁₆	4 ⁷ / ₁₆	6000	...
105	1000		▲Mogul	42392	105A23/12	125	120	Clear	C-9	5 ¹⁵ / ₁₆	4 ⁷ / ₁₆	12000	...
202	2500	PS-25		20540	202PS25	125	60	Clear	C-9	6 ¹⁵ / ₁₆	5 ¹ / ₄	6000	...
327	4000	PS-35		21306	327PS35	120	24	Clear	C-9	9 ³ / ₈	7	6000	...
327	4000		▲Mogul	21307	327PS35	125	24	Clear	C-9	9 ³ / ₈	7	6000	...
448	6000	PS-40		21418	448PS40	125	24	Clear	C-9	9 ³ / ₄	7	6000	...
690	10000			21971	690PS40	120	24	Clear	C-7A	9 ³ / ₄	7	6000	...

DECORATIVE LAMPS

BULB ILLUSTRATIONS (NOT TO SCALE)



Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes — Page 33)	Filament Design	M. O. L. (Inches)	Rated Avg. Life (Hours)
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2 WATTS

B-10	▲Cand.	42535	2CAC/FL	120	60	Clear—"Flicker" (85)	...	3 ¹ / ₂	2500
		42537	2CAC/FL CARD	120	60	Clear—"Flicker". 6-Pack (85)	...	3 ¹ / ₂	2500

15 WATTS

B-10	Cand.	13014	15BC	12PK	120	Crystal (Clear)—Blunt Tip	C-7A	3 ³ / ₄	1500
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Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	Filament Design	M. O. L. (Inches)	Rated Avg. Life (Hours)
15 WATTS (Continued)									
CA-8	▲Cand.	41528	15CAC	12PK	120	Crystal (Clear)—Bent Tip (15)	C-7A	3 ⁹ / ₁₆	1500
		47929	15CAC	CARD/2	120	Crystal (Clear)—Bent Tip (15)	C-7A	3 ⁹ / ₁₆	1500
		41527	15CAC/F	12PK	120	Satin (Frost)—Bent Tip (15)	C-7A	3 ⁹ / ₁₆	1500
		47930	15CAC/F	CARD/2	120	Satin (Frost)—Bent Tip (15)	C-7A	3 ⁹ / ₁₆	1500
		41524	15CAC/L		120	Crystal (Clear)—Bent Tip (15)	C-7A	3 ⁹ / ₁₆	4000
F-10	Cand.	13073	15FC	12PK	120	Crystal (Clear)—Flame	C-7A	3 ¹ / ₈	1500
		47928	15FC	CARD/2	120	Crystal (Clear)—Flame	C-7A	3 ¹ / ₈	1500
		40980	15FC/L (15FC/4)		120	Crystal (Clear)—Flame	C-7A	3 ¹ / ₈	4000
		13074	15FC/A	12PK	120	Amber—Flame	C-7A	3 ¹ / ₈	1500
		47926	15FC/A	CARD/2	120	Amber—Flame	C-7A	3 ¹ / ₈	1500
		40981	15FC/A/L (15FC/A4)		120	Amber—Flame	C-7A	3 ¹ / ₈	4000
		13076	15FC/AU	12PK	120	Auradescent—Flame	C-7A	3 ¹ / ₈	1500
		47927	15FC/AU	CARD/2	120	Auradescent—Flame	C-7A	3 ¹ / ₈	1500
G-16 ¹ / ₂		13124	15GC		120	Crystal (Clear)—Globe	C-7A	3	1500
		12985	15GC	12PK	120	Crystal (Clear)—Globe	C-7A	3	1500
		13134	15GC/W		120	Pearl (White)—Globe	C-7A	3	1500
		39931	15GC/W	12PK	120	Pearl (White)—Globe	C-7A	3	1500
		12578	15GC/L (15GC/4)		120	Crystal (Clear)—Globe	C-7A	3	4000
		40985	15GC/W/L (15GC/W4)		120	Pearl (White)—Globe	C-7A	3	4000

25 WATTS

B-10	Cand.	14329	25BC	12PK	120	Crystal (Clear)—Blunt Tip—BDTH	C-7A	3 ³ / ₄	1500
		47939	25BC	CARD/2	120	Crystal (Clear)—Blunt Tip—BDTH	C-7A	3 ³ / ₄	1500
		14340	25BC/W	12PK	120	Pearl (White)—Blunt Tip—BDTH	C-7A	3 ³ / ₄	1500
B-13	Medium	13057	25BM	12PK	120	Crystal (Clear)—Blunt Tip (15)	C-9	4 ⁵ / ₈	1500
		14354	25BM/W	12PK	120	Pearl (White)—Blunt Tip	C-9	4 ⁵ / ₈	1500
CA-9		40043	25CAM/L		120	Crystal (Clear)—Bent Tip	CC-2V	4 ⁹ / ₁₆	4000
		40044	25CAM/F/L		120	Satin (Frost)—Bent Tip	CC-2V	4 ⁹ / ₁₆	4000
CA-10	▲Cand.	34649	25CAC	12PK	120	Crystal (Clear)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	1500
		47933	25CAC	CARD/2	120	Crystal (Clear)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	1500
		34650	25CAC/F	12PK	120	Satin (Frost)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	1500
		47934	25CAC/F	CARD/2	120	Satin (Frost)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	1500
		40045	25CAC/L		120	Crystal (Clear)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	4000
		40046	25CAC/F/L		120	Satin (Frost)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	4000
ST-9 ¹ / ₂		47931	25STC	CARD/2	120	Crystal (Clear)—Straight Tip—BDTH (15)	CC-2V	4	1500
F-15	Medium	14403	25FM	12PK	120	Crystal (Clear)—Flame	C-9	4 ³ / ₈	1500
		47935	25FM	CARD/2	120	Crystal (Clear)—Flame (15)	C-9	4 ³ / ₈	1500
		40982	25FM/L		120	Crystal (Clear)—Flame	C-9	4 ³ / ₈	4000
		14405	25FM/W	12PK	120	Pearl (White)—Flame	C-9	4 ³ / ₈	1500
		47938	25FM/W	CARD/2	120	Pearl (White)—Flame (15)	C-9	4 ³ / ₈	1500
		14404	25FM/A	12PK	120	Amber—Flame	C-9	4 ³ / ₈	1500
		47936	25FM/A	CARD/2	120	Amber—Flame	C-9	4 ³ / ₈	1500
		40983	25FM/A/L (25FM/A4)		120	Amber—Flame	C-9	4 ³ / ₈	4000
		14451	25FM/AU	12PK	120	Auradescent—Flame	C-9	4 ³ / ₈	1500
		47937	25FM/AU	CARD/2	120	Auradescent—Flame	C-9	4 ³ / ₈	1500

☆ Indicates total count of 2-lamp carded packs in standard package. Multiply by 2 to determine actual quantity of lamps.



DECORATIVE LAMPS

Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	Filament Design	M. O. L. (Inches)	Rated Avg. Life (Hours)
25 WATTS (Continued)									
F-10	Cand.	14385	25FC 12PK	120	120	Crystal (Clear)—Flame	C-7A	3 ¹ / ₈	1500
		12991	25FC CARD/2	120	60☆	Crystal (Clear)—Flame	C-7A	3 ¹ / ₈	1500
G-16 ¹ / ₂		14457	25GC	120	60	Crystal (Clear)—Globe	C-7A	3	1500
		11303	25GC 12PK	120	120	Crystal (Clear)—Globe	C-7A	3	1500
		11351	25GC CARD	120	60	Crystal (Clear)—Globe (15)	C-7A	3	1500
		14472	25GC/W	120	60	Pearl (White)—Globe	C-7A	3	1500
		39679	25GC/W 12PK	120	120	Pearl (White)—Globe	C-7A	3	1500
		11142	25GC/W CARD	120	60	Pearl (White)—Globe (15)	C-7A	3	1500
		43158	25GC/L (25GC/4)	120	60	Crystal (Clear)—Globe	C-7A	3	4000
		40986	25GC/W/L	120	60	Pearl (White)—Globe	C-7A	3	4000
G-18 ¹ / ₂	Medium	14507	25G18 ¹ / ₂ /W	120	120	Pearl (White)—Globe	C-9	3 ⁹ / ₁₆	1500
		14955	25G18 ¹ / ₂ /W 12PK	120	120	Pearl (White)—Globe	C-9	3 ⁹ / ₁₆	1500
G-25		14529	25G25	120	60	Crystal (Clear)—Globe	C-9	4 ⁵ / ₈	1500
		12983	25G25 6PK	120	24	Crystal (Clear)—Globe	C-9	4 ⁵ / ₈	1500
		14546	25G25/W	120	60	Pearl (White)—Globe (15)	C-9	4 ⁵ / ₈	1500
		12982	25G25/W 6PK	120	24	Pearl (White)—Globe	C-9	4 ⁵ / ₈	1500
		43144	25G25/L	120	60	Crystal (Clear)—Globe	C-9	4 ⁵ / ₈	4000
		12968	25G25/W/L	120	24	Pearl (White)—Globe	C-9	4 ⁵ / ₈	4000
G-40		39625	25G40 (25G40/CL)	120	24	Crystal (Clear)—Globe	C-9	6 ¹⁵ / ₁₆	2500
		14956	25G40 6PK	120	6	Crystal (Clear)—Globe	C-9	6 ¹⁵ / ₁₆	2500
		39626	25G40/W	120	24	Pearl (White)—Globe	C-9	6 ¹⁵ / ₁₆	2500
		14957	25G40/W 6PK	120	6	Pearl (White)—Globe	C-9	6 ¹⁵ / ₁₆	2500

40 WATTS

B-10	Cand.	38123	40BC 12PK	120	120	Crystal (Clear)—Blunt Tip—BDTH	C-9	3 ³ / ₄	1500
		47942	40BC CARD/2	120	60☆	Crystal (Clear)—Blunt Tip—BDTH	C-9	3 ³ / ₄	1500
		15653	40BC/W 12PK	120	120	Pearl (White)—Blunt Tip—BDTH	C-9	3 ³ / ₄	1500
		12992	40BC/W CARD/2	120	60☆	Pearl (White)—Blunt Tip—BD only	C-9	3 ³ / ₄	1500
		13054	40BC/L	120	120	Crystal (Clear)—Blunt Tip—BDTH	C-9	3 ³ / ₄	4000
B-13	Medium	15631	40BM 12PK	120	120	Crystal (Clear)—Blunt Tip (15)	C-9	4 ⁵ / ₈	1500
		12993	40BM CARD/2	120	60☆	Crystal (Clear)—Blunt Tip (15)	C-9	4 ⁵ / ₈	1500
		13058	40BM/W 12PK	120	120	Pearl (White)—Blunt Tip	C-9	4 ⁵ / ₈	1500
CA-9		34651	40CAM 12PK	120	120	Crystal (Clear)—Bent Tip	CC-2V	4 ⁹ / ₁₆	1500
		47945	40CAM CARD/2	120	60☆	Crystal (Clear)—Bent Tip (15)	CC-2V	4 ⁹ / ₁₆	1500
		34652	40CAM/F 12PK	120	120	Satin (Frost)—Bent Tip	CC-2V	4 ⁹ / ₁₆	1500
		12994	40CAM/F CARD/2	120	60☆	Satin (Frost)—Bent Tip	CC-2V	4 ⁹ / ₁₆	1500
		40047	40CAM/L	120	120	Crystal (Clear)—Bent Tip	CC-2V	4 ⁹ / ₁₆	4000
CA-10	Cand.	34653	40CAC 12PK	120	120	Crystal (Clear)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	1500
		47940	40CAC CARD/2	120	60☆	Crystal (Clear)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	1500
		34654	40CAC/F 12PK	120	120	Satin (Frost)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	1500
		47941	40CAC/F CARD/2	120	60☆	Satin (Frost)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	1500
		40050	40CAC/L	120	120	Crystal (Clear)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	4000
F-15	Medium	40834	40CAC/F/L	120	120	Satin (Frost)—Bent Tip—BDTH (15)	CC-2V	4 ⁵ / ₁₆	4000
		15692	40FM 12PK	120	120	Crystal (Clear)—Flame	C-9	4 ³ / ₈	1500
		47943	40FM CARD/2	120	60☆	Crystal (Clear)—Flame (15)	C-9	4 ³ / ₈	1500
		40984	40FM/L	120	120	Crystal (Clear)—Flame	C-9	4 ³ / ₈	4000
		15693	40FM/W 12PK	120	120	Pearl (White)—Flame	C-9	4 ³ / ₈	1500
		47944	40FM/W CARD/2	120	60☆	Pearl (White)—Flame (15)	C-9	4 ³ / ₈	1500
		15694	40FM/AU 12PK	120	120	Auradescent—Flame	C-9	4 ³ / ₈	1500
		11463	40FM/AU CARD/2	120	60☆	Auradescent—Flame	C-9	4 ³ / ₈	1500

☆ Indicates total count of 2-lamp carded packs in standard package. Multiply by 2 to determine actual quantity of lamps.

DECORATIVE LAMPS



Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	Filament Design	M. O. L. (Inches)	Rated Avg. Life (Hours)
40 WATTS (Continued)									
G-16 1/2	Cand.	13037	40GC	120	60	Crystal (Clear)—Globe—BDTH (36)	C-9	3	1500
		14958	40GC 12PK	120	120	Crystal (Clear)—Globe—BDTH (36)	C-9	3	1500
		15696	40GC/W	120	60	Pearl (White)—Globe—BDTH (36)	C-9	3	1500
		12999	40GC/W 12PK	120	120	Pearl (White)—Globe—BDTH (36)	C-9	3	1500
		43159	40GC/L (40GC/4)	120	60	Crystal (Clear)—Globe—BDTH (36)	C-9	3	4000
G-25	Medium	13039	40GC/W/L	120	60	Pearl (White)—Globe—BDTH (36)	C-9	3	4000
		41057	40G25 (40G25/CL)	120	60	Crystal (Clear)—Globe	C-9	4 7/16	1500
		12980	40G25 6PK	120	24	Crystal (Clear)—Globe	C-9	4 7/16	1500
		15730	40G25/W	120	60	Pearl (White)—Globe	C-9	4 7/16	1500
		12979	40G25/W 6PK	120	24	Pearl (White)—Globe	C-9	4 7/16	1500
G-40	Medium	12971	40G25/L	120	24	Crystal (Clear)—Globe	C-9	4 7/16	4000
		12972	40G25/W/L	120	24	Pearl (White)—Globe	C-9	4 7/16	4000
		37914	40G40 (40G40/CL)	120	24	Crystal (Clear)—Globe	C-9	6 15/16	2500
		14959	40G40 6PK	120	6	Crystal (Clear)—Globe	C-9	6 15/16	2500
		36191	40G40/W (40GM/W) 6PK	120	6	Pearl (White)—Globe—Moonglow	C-9	6 15/16	2500
		43423	40G40/L	120	24	Crystal (Clear)—Globe	C-9	6 15/16	4000
		36192	40G40/W	130	24	Pearl (White)—Globe	C-9	6 15/16	4000

60 WATTS

B-10	▲Cand.	37891	60BC 12PK	120	120	Crystal (Clear)—Blunt Tip—BDTH (15)	CC-2V	3 3/4	1500
		47949	60BC CARD/2	120	60☆	Crystal (Clear)—Blunt Tip—BDTH (15)	CC-2V	3 3/4	1500
		13953	60BC/L	120	120	Crystal (Clear)—Blunt Tip—BDTH (15)	CC-2V	3 9/16	4000
CA-9	Medium	34655	60CAM 12PK	120	120	Crystal (Clear)—Bent Tip	CC-2V	4 9/16	1500
		47948	60CAM CARD/2	120	60☆	Crystal (Clear)—Bent Tip	CC-2V	4 9/16	1500
		40048	60CAM/L	120	120	Crystal (Clear)—Bent Tip	CC-2V	4 9/16	4000
CA-10	Cand.	34657	60CAC 12PK	120	120	Crystal (Clear)—Bent Tip—BDTH (15)	CC-2V	4 5/16	1500
		47946	60CAC CARD/2	120	60☆	Crystal (Clear)—Bent Tip—BDTH (15)	CC-2V	4 5/16	1500
		34658	60CAC/F 12PK	120	120	Satin (Frost)—Bent Tip—BDTH (15)	CC-2V	4 5/16	1500
		47947	60CAC/F CARD/2	120	60☆	Satin (Frost)—Bent Tip—BDTH (15)	CC-2V	4 5/16	1500
		40049	60CAC/L	120	120	Crystal (Clear)—Bent Tip—BDTH (15)	CC-2V	4 5/16	4000
G-25	▲Medium	13960	60G25	120	60	Crystal (Clear)—Globe (15)	CC-9	4 5/16	1500
		14846	60G25 6PK	120	6	Crystal (Clear)—Globe (15)	CC-9	4 15/16	1500
		13956	60G25/W	120	60	Pearl (White)—Globe (15)	CC-9	4 5/16	1500
		14848	60G25/W 6PK	120	6	Pearl (White)—Globe (15)	CC-9	4 15/16	1500
		13958	60G25/L	120	60	Crystal (Clear)—Globe (15)	CC-9	4 5/16	4000
		13961	60G25/W/L	120	60	Pearl (White)—Globe (15)	CC-9	4 5/16	4000
G-30	Medium	13955	60G30/W	120	24	Pearl (White)—Globe (15)	CC-9	5	2500
		14850	60G30/W 6PK	120	24	Pearl (White)—Globe (15)	CC-9	5	2500
G-40	Medium	40250	60G40 (60G40/CL)	120	24	Crystal (Clear)—Globe	C-9	6 15/16	2500
		14187	60G40 6PK	120	6	Crystal (Clear)—Globe	C-9	6 15/16	2500
		40251	60G40/W	120	24	Pearl (White)—Globe	C-9	6 15/16	2500
		49780	60G40/W 6PK	120	6	Pearl (White)—Globe—Moonglow	C-9	6 15/16	2500
		13044	60G40/W/L	120	24	Pearl (White)—Globe	C-9	6 15/16	4000

75 WATTS

G-40	Medium	13045	75G40	120	24	Crystal (Clear)—Globe	C-9	6 15/16	2500
		14961	75G40 6PK	120	6	Crystal (Clear)—Globe	C-9	6 15/16	2500
		36193	75G40/W 6PK	120	6	Pearl (White)—Globe—Moonglow	C-9	6 15/16	2500
		36194	75G40/W	130	24	Pearl (White)—Globe	C-9	6 15/16	4000

100 WATTS

G-40	Medium	39851	100G40 (100G40/CL)	120	24	Crystal (Clear)—Globe	C-9	6 15/16	2500
		14963	100G/40 6PK	120	6	Crystal (Clear)—Globe	C-9	6 15/16	2300
		39627	100G40/W	120	24	Pearl (White)—Globe	C-9	6 15/16	2500
		49781	100G40/W 6PK	120	6	Pearl (White)—Globe—Moonglow	C-9	6 15/16	2500
		13046	100G40/W/L	120	24	Pearl (White)—Globe	C-9	6 15/16	4000

☆ Indicates total count of 2-lamp carded packs in standard package. Multiply by 2 to determine actual quantity of lamps.



Incandescent Lamp Footnotes

1. Burning position—base down only.
- 1A. Because bulb coating may become electrically conductive, take precaution to avoid electric shock: use in sockets supplied by same voltage as marked on lamp. Do not install in higher-voltage series circuits.
2. Burning position—horizontal.
- 2A. Do not allow the bulb to be dragged across or to strike a hard surface since this action may cause minute cracks. Do not place lamp directly over the exposed person unless a protective screen or mesh is between lamp and user.
- 3A. Operate lamp only when bulb is cooled by direct immersion in water, to avoid overheating. Observe cleaning instructions.
4. Avoid contact of hot glass bulb with liquid or metal, as glass may shatter.
6. Design Life in excess of 5000 hours. Actual life depends on service conditions.
7. Base pins approximately parallel to plane of lead wires.
8. For use only in equipment specially designed to maintain bulb and base temperatures within safe limits.
10. Single-contact medium bayonet base without pins, with a lug focusing sleeve as indicated. L.C.L. and A.A. tolerance: $\frac{1}{64}$ ".
11. To protect persons against risk of breakage, use a protective screen external to the lamp.
12. Not recommended for horizontal burning.
13. Unsatisfactory lamp operation is likely to occur in burning positions between horizontal and base up, particularly between 45° from base up and base up.
14. In "base up" use, heat eventually may deteriorate paper-lined or plastic sockets.
15. Made in Republic of Korea.
17. Low-noise construction to minimize generation of audible noise when operated on A.C. circuits.
18. Although this lamp is made of heat-resistant glass, the bulb and lens should be protected from moisture, or breakage may result.
19. Burn within 25° of vertically base up.
20. Recommended burning position: any within 60° of vertically base up or down; but lumen maintenance is best when burned vertically base up.
21. May not give satisfactory performance if any accessory equipment is attached to or touches the glass bulb. The bulb, although made of heat-resistant glass, may break if moisture falls on it.
22. Operate base down within 30° of vertical. Any tilt should be in the direction in which the filament plane faces.
24. The bulb, although made of heat-resistant glass, may break if moisture falls on it. Lamp is not recommended for use in enclosed, close-fitting housings.
26. Approximate mean color temperature.
28. For use only in porcelain sockets and fixtures so designed that the temperatures of the lamp and fixture do not exceed limits for satisfactory operation.
29. Average laboratory life is 200 hours for vacuum cleaners and 600 hours for sewing machine service.
31. Bulb top selected for minimum glass imperfections.
32. This 277-volt lamp should be enclosed if it is used on high-capacity low impedance electrical distribution systems. At the end of lamp life on such systems, the lamp may shatter, with risk of injury to persons or property if it is not suitably enclosed.
33. Light output is maintained best when burned within 45° of vertically base up.
34. May not give satisfactory performance if any accessory equipment is attached to or touches the glass bulb.
35. Should not be used in equipment where the base temperature will exceed 500°F.
36. Should be shielded against moisture falling on the bulb.
40. Operate base down within 45° of vertical. Any tilt should be in the direction in which the filament plane faces.
41. Nominal watts. The actual watts are determined by multiplying the volts by the design amperes.
42. Collector grid is on only one side of filament. In burning positions other than base down, lamp should be installed so that grid is above filament.
45. Will operate in any position, but in fixed socket usage other than base up, some loss of coating may occur.
46. This lamp produces base temperatures which may deteriorate paper lined or plastic sockets. Use only in fixtures approved for this type and wattage bulb.
52. Operate base up, within 30° of vertical.
53. Use lamp only on circuits supplying the same voltage as marked on the bulb. DO NOT insert in household sockets.
55. Made in Mexico.
56. Avoid use at short distances on materials that are inflammable or susceptible to heat damage.
58. For use only with heat-resistant connector and with lamp supported by bulb rim or metal shell of base.
59. For use only with heat-resistant connector and with lamp supported by bulb rim.
61. Maximum Excursion Radius: $\frac{5}{8}$ ".
63. Average laboratory life is 200 hours for appliance service.
64. Designed for base down burning, but can be operated in other positions. Brightness maintenance is best when filament is viewed horizontally or from below when lamp is burned in any position other than base down.
66. Rated average life is based on 14-volt operation.
68. Light center length and A.A. tolerance: $\frac{1}{32}$ ".
69. Light center length and A.A. tolerance: $\frac{1}{16}$ ".
70. Light center length and A.A. tolerance: $\frac{1}{64}$ ".
71. Burning position—plane through lamp axis and base terminals horizontal.
73. Collector grid.
76. Burn base up to horizontal.
78. Made in Canada.
79. For use only in fixtures that adequately dissipate lamp heat. Blue and green lamps should be protected from falling snow and rain if aimed above horizontal.
83. Will operate in any position, but fixed-socket usage other than base up or continuous burning in any position in ambient temperatures above 150°F, may result in some loss of protective coating. Reflectors and accessories may raise bulb temperature and cause some loss of protective coating.
85. Made in Japan.
86. Be sure power is OFF before installing or removing lamp.
88. If lamp is cracked or broken, replace immediately. The lamp may continue to light, but the inner bulb is pressurized and could unexpectedly shatter. Dispose of with care.
89. Insertion in "twist-in" type sockets requires only a slight clockwise turn—excessive force may break the glass bulb.
92. LAMP SHOULD BE SCREWED FIRMLY INTO THE SOCKET, ALTHOUGH NOT FORCIBLY so that it will not loosen and fall out. USE LAMP-GRIP SOCKETS OR WIRE GUARDS where vibration is present, particularly if used above or close to people. DO NOT ATTEMPT TO USE THE LAMP IF THE FILAMENT HAS BEEN BROKEN even though ends of filament are in contact. Also, HAVE CIRCUITS PROPERLY FUSED. DO NOT USE IF GLASS IS CRACKED.
93. Use only in swimming pool fixtures that comply with applicable safety standards and codes.
94. Observe operating and exposure limitations stated on packaging material and/or instruction booklet enclosed.
96. Under moist conditions, metal parts of lamp and lampholder may become a shock hazard. Therefore, disconnect from circuit before touching.
97. While this lamp was carefully inspected before shipment, the glass bulb may crack when subjected to abnormal pressure. Therefore, it is recommended that the bulb be grasped with a cloth or glove when removing or installing the lamp in a tight-fitting socket.
98. Burning position: 45° of base down to horizontal.
99. For use only in equipment designed for lamps of this type and wattage, having ventilation adequate to maintain bulb and base temperatures within safe limits.



ANSI CODE REFERENCE GUIDE

For ANSI-Coded Incandescent and Quartzline® "Large" Lamps

Many General Electric Incandescent and Quartzline "Large" lamps—principally those used in theatrical lighting, television and motion picture production, and optical devices—are identified by a three-letter ANSI (American National Standards Institute) Code. Users of these lamps sometimes order by the ANSI Code alone, rather than the manufacturer's Lamp Ordering Code.

The following table is a cross reference, in alphabetical order, between ANSI-coded Incandescent and Quartzline lamps and their respective GE Lamp Ordering Codes. GE Stage/Studio Quartzline lamps (listed on pages 36 and 37) contain the ANSI Code within the GE Lamp Ordering Code.

To ensure fast and accurate processing of orders, **it is important that lamps be ordered by their complete GE Lamp Ordering Code and Voltage—not by the ANSI Code alone.** Where no voltage is shown in the table, lamps are of 120-volt design.

This table does not include ANSI-coded Photo Lamps, since the GE Photo Lamp Ordering Codes and their assigned ANSI Codes are identical. If you cannot find a particular ANSI Code in the following table, check the Photo Lamp listings beginning on page 76 or the Form PH-3200-R General Electric Photo Lamp Master Catalog to determine if the ANSI Code is assigned to a product listed there.

ANSI Code	GE Lamp Ordering Code (and Voltage)†	Page No.	ANSI Code	GE Lamp Ordering Code (and Voltage)†	Page No.	ANSI Code	GE Lamp Ordering Code (and Voltage)†	Page No.
BAB	Q20MR16/FL (BAB)	39	DWE	DWE-Q650PAR36/1	36	ETC	Q150CL/DC	39
BFE	750T20P/SP	35	DWT	Q1000T6/CL	41	ETD	Q100DC/2V	39
BTL	BTL-Q500T6/CL/P	36	DXK	DXK-Q650PAR36/2	36	ETE	Q100MC/2V	39
BTN	BTN-Q750T7/CL/2P	36	DXW	DXW-Q1000T5/4CL	36	ETF	Q150DC	39
BTP	BTP-Q750T7/4CL/2P	36	DYA	DYA-Q1000T5/1CL	36	ETG	Q150CL/MC	39
BTR	BTR-Q1000T7/4CL/2P	36	DYG	DYG-Q250/4CL/2PP (30V)	36	ETH	Q150MC	39
BVT	BVT-Q1000T7/CL/MP	36	EBA	10K/G96/1	35	EVR	EVR-Q500CL/MC	37
BVV	BVV-Q1000T7/4CL/MP	36	EBB	1M/T24/13	35	EXN	Q50MR16/FL (EXN)	39
BVW	BVW-Q2000T10/4CL/MP	36	ECN	5M/G64/7	35	EXT	Q50MR16/NSP (EXT)	39
BWA	BWA-Q2000/4CL/BP	36	EDL	2M/T48/4	35	EXZ	Q50MR16/NFL (EXZ)	39
BWF	BWF-Q2000/4CL	36	EGC	EGC-Q500/5CL/P	36	EYC	Q75MR16/FL (EYC)	39
BWM	BWM-Q750T7/4CL/TP	36	EGE	EGE-Q500CL/P	36	EYF	Q75MR16/NSP (EYF)	39
BWN	BWN-Q1000T7/4CL/TP	36	EGF	EGF-Q750/4CL/P	36	EYS	Q42MR16/NFL (EYS)	39
BXA	7.5A/T8SCP (10V)	28	EGG	EGG-Q750CL/P	36	FAD	FAD-Q650T4/4CL	37
BXE	7.5A/T8/92SC (10V)	28	EGJ	EGJ-Q1000/4CL/P	36	FAY	FAY-Q650PAR36/3D	37
BXG	7.5A/T8SC (10V)	28	EGK	EGK-Q1000/4/P	36	FBE	FBE-Q650PAR36/5D	37
BXM	4A/T8SCP (9V)	27	EGM	EGM-Q1000CL/P	36	FBJ	FBJ-Q650PAR36/3	37
BXN	5A/T8SCP (10V)	27	EGR	EGR-Q750T7/4CL	36	FBO	FBO-Q650PAR36/5	37
BXR	5A/T8SC (10V)	27	EGT	EGT-Q1000T7/4CL	36	FBX	FBX-Q650T4/4	37
BYA	7.5A/T8/94 (10V)	28	EHC	EHC-Q500/5CL	36	FBY	FBY-Q1000T5/4	37
BYS	4A/T8/87 (9V)	27	EHD	EHD-Q500CL/TP	36	FCL	Q500T3/CL	40
CXZ	CXZ-Q1500T10/4CL	36	EHF	EHF-Q750/4CL	37	FCM	FCM-Q1000T3/4CL	37
CYV	CYV-Q1000T7/4CL/BP	36	EHG	EHG-Q750CL/TP	37	FCV	FCV-Q1000/4	37
CYX	CYX-Q2000T10/4CL	36	EHM	Q300T3/CL	40	FCW	FCW-Q650PAR36/6	37
DEB	500T12/8	35	EHP	Q300T4/CL	40	FCX	FCX-Q650PAR36/7	37
DKX	DKX/DSF-Q1500PS52/4	36	EHR	Q400T4/CL	40	FCZ	Q500T3	40
DKZ	DKZ/DSE-Q1000PS52/4	36	EHT	Q250CL/MC	40	FDB	FDB-Q1500T4/4CL	37
DMS	DMS-500T20 (115-120)	35	EHZ	Q300T3	40	FDF	FDF-Q500T3/4CL	37
DMX	DMX-500T20P (115-120)	35	EJD	EJD-Q1000T3/3CL (185V)	37	FDN	FDN-Q500T3/4	37
DNS	500T12/9	35	EJG	EJG-Q750T3/4CL	37	FEL	FEL-Q1000/4CL	37
DNT	750T12/9	35	EKB	EKB-Q420/4CL/2PP	37	FER	FER-Q1000T6/4CL	37
DNV	1M/T12/2	35	EKD	EKD-Q650/3CL/2PP	37	FEV	FEV-Q200/4CL/DC	37
DNW	500T20/64	35	EMD	EMD-Q750T3/4	37	FEY	FEY-Q2000T8/4CL	37
DPJ	DPJ-750T20P (115-120)	35	EME	EME-Q800T3/4CL (240V)	37	FFN	FFN-Q1000PAR64/1	37
DPW	DPW-1M/T20P (115-120)	35	EMF	EMF-Q800T3/4 (240V)	37	FFP	FFP-Q1000PAR64/2	37
DPY	DPY-Q5000T20/4CL	36	ENL	Q50MR16/1 (ENL)	39	FFR	FFR-Q1000PAR64/5	37
DSB	DSB-1M/T20P (115-120)	35	EPZ	Q50MR16/EPZ	39	FFS	FFS-Q1000PAR64/6	37
DSE	DKZ/DSE-Q1000PS52/4	36	ESL	Q150CL/MC/2V	39	FFT	FFT-Q1000T3/1CL	37
DSF	DKX/DSF-Q1500PS52/4	36	ESM	Q250MC	40	FGK	FGK-Q650PAR36/8D	37
DTJ	DTJ-1500T20/39 (115-120)	35	ESN	Q100CL/MC/2V	39	FGM	FGM-Q1000PAR64/3D	37
DTY	DTY-Q10M/T24/4CL	36	ESP	Q150CL/DC/2V	39	FGN	FGN-Q1000PAR64/7D	37
DVF	2M/G48/18	35	ESR	Q100CL/DC/2V	39	FGT	FGT-Q1500T4/4	37
DVG	500T20/63	35	ESS	Q250CL/DC	40	FHM	FHM-Q1000T3/4	37
DVH	750T24/16	35	ESX	Q20MR16/NSP (ESX)	39	FKK	FKK-Q2000T10/4CL	37
DVS	Q500T3/CL (130V)*	40	ETB	Q250DC	40	FWM	FWM-Q1000/650T3/4WM	37
DWC	150R/FL	22						

* GE equivalent lamp is 130 vs. ANSI type specified as 135V. † Where no voltage is shown in parentheses, lamps are 120-volt design.



STAGE/STUDIO INCANDESCENT LAMPS

Refer to pages 3 and 5 for general information on these incandescent lamps; page 33 for footnotes. Additional descriptive information and lamp illustrations appear in GE publication SS-123, STAGE/STUDIO LAMP CATALOG (#204-51601).

Bulb	Base	ANSI Code	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 33)	Filament Design	M. O. L. (Inches)	L. C. L. (Inches)	Rated Avg. Life (Hours)	Approx. Initial Lumens
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250 AND 500 WATTS

★T-20	Medium Prefocus	...	20762	250T20/47	120	24	Clear—BDTH	C-13	5 ³ / ₄	2 ³ / ₁₆	200	...
★T-12		DEB	21799	500T12/8	120	24	Clear—(52,86,99)	C-13D	6 ¹ / ₈	3 ¹ / ₂	800	...
		DNS	21795	500T12/9	120	24	Clear—(52,86,99)	C-13D	6 ¹ / ₈	3 ¹ / ₂	200	11000
★T-14	Medium Bipost	...	21803	500T14/7	120	24	Clear—Low-noise (52,86,89,99)	C-13D	6 ⁷ / ₁₆	4	800	...
★T-20	Medium	DMS	29793	DMS-500T20	115-120	24	Clear—Spotlight & Opaque Proj. 3200K. (22,99)	C-13	5 ¹ / ₂	3	50	13200
	Medium Prefocus	DMX	29802	DMX-500T20P	115-120	24	Clear—Spotlight & Opaque Proj. 3200K. (22,99)	C-13	5 ³ / ₄	2 ³ / ₁₆	50	13200
		...	21861	500T20/48	120	24	Clear—BDTH (86,99)	C-13	5 ³ / ₄	2 ³ / ₁₆	200	...
	Medium Bipost	DVG	21882	500T20/63	120	12	Clear—Low-noise. 3200K. (26,40,86,89,99)	C-13	6 ¹ / ₂	2 ¹ / ₂	50	14500
	Med. Pref.	DNW	21887	500T20/64	120	24	Clear—BDTH. (86,99)	C-13	5 ³ / ₄	2 ³ / ₁₆	500	10000

750–1500 WATTS

★T-12	Med. Pref.	DNT	22100	750T12/9	120	24	Clear—(52,86,99)	C-13D	6 ¹ / ₈	3 ¹ / ₂	200	...
★T-14	Med. Bip.	...	22105	750T14	120	24	Clear—Low-noise (52,73,86,89,99)	C-13D	6 ⁷ / ₁₆	4	200	17000
★T-20	Medium Prefocus	DPJ	29895	DPJ-750T20P	115-120	24	Clear—Sp. & Proj. 3250K. (22,99)	C-13D	5 ³ / ₄	2 ³ / ₁₆	25	19000
		BFE	22110	750T20P/SP	120	24	Clear—(40,86,99)	C-13	5 ³ / ₄	2 ³ / ₁₆	200	...
★T-24	Medium Bipost	DVH	22147	750T24/16	120	24	Clear—Low-noise. 3200K. (26,40,86,89,99)	C-13	6 ¹ / ₂	2 ¹ / ₂	50	22000
★G-40	Mogul Prefocus	...	22219	1M/G40/23	120	24	Clear—BDTH (86,99)	C-13	8 ⁷ / ₁₆	3 ¹⁵ / ₁₆	200	...
		...	22203	1M/G40PSP	120	24	Clear—BDTH (86,99)	C-5	8 ⁷ / ₁₆	3 ¹⁵ / ₁₆	200	25000
★T-12	Med. Pref.	DNV	22419	1M/T12/2	120	24	Clear—3050K. (52,86,99)	C-13D	6 ¹ / ₈	3 ¹ / ₂	200	...
★T-20	Mog. Pref.	DPW	29964	DPW-1M/T20P	115-120	12	Clear—Spotlight & Proj. 3200K. (22,99)	C-13	9 ¹ / ₂	3 ⁷ / ₁₆	50	28000
	Med. Pref.	...	22455	1M/T20P/SP	120	24	Clear—3050K. (40,73,86,99)	C-13D	5 ³ / ₄	2 ³ / ₁₆	200	...
★T-24	Medium Bipost	EBB	22499	1M/T24/13	120	24	Clear—Low-noise. 3350K. (40,86,89,99)	C-13	6 ¹ / ₂	2 ¹ / ₂	12	...
★T-20	Mogul Prefocus	DSB	29969	DSB-1M/T20/40	120	12	Clear—Spotlight & Opaque Proj. 3225K. (22,99)	C-13D	9 ¹ / ₂	3 ⁷ / ₁₆	25	28500
★G-40		...	22560	1500G40/21	120	24	Clear—(22,52,86,99)	C-13D	8 ⁷ / ₁₆	3 ¹⁵ / ₁₆	200	...
★T-20		DTJ	30004	DTJ-1500T20/39	115-120	12	Clear—Sp. & Proj. 3225K. (22,99)	C-13D	9 ¹ / ₂	3 ⁷ / ₁₆	25	42500
★T-24	Mog. Bip.	...	22667	1500T24/6	120	12	Clear—(52,86,94,99)	C-13D	10	6 ¹ / ₂	200	...

2000–10,000 WATTS

★G-48	Mogul	DVF	22723	2M/G48/18	120	9	Clear—Low-noise. 3200K. (40,86,99)	C-13	9 ³ / ₈	5	100	61000
★T-48		EDL	22820	2M/T48/4	120	9	Clear—Low-noise. 3350K. Tungsten powder cleaner (40,86,99)	C-13	10 ³ / ₈	5	25	...
★T-24		...	22825	2100T24/8	60	12	Clear—Tungsten powder cleaner (22,86,94,99)	C-13D	10 ¹ / ₂	4	50	...
★T-32		...	22860	3M/T32/2	120	6	Clear—Low-noise. 3150K. (52,73,86,94,99)	C-13D	11 ¹ / ₂	7 ¹ / ₂	100	...
★G-64		ECN	22896	5M/G64/7	120	4	Clear—Low-noise. 3200K. Tungsten powder cleaner (24,40,86,99)	C-13	11 ⁷ / ₈	6 ¹ / ₂	150	145000
★G-96		EBA	22993	10K/G96/1	120	1	Clear—Low-noise. 3200K. Tungsten powder cleaner (40,42,73,99)	C-13	17 ⁷ / ₁₆	10	150	...



STAGE/STUDIO QUARTZLINE® TUNGSTEN HALOGEN LAMPS

Refer to page 38 for general information on Quartzline lamps. Additional descriptive information and illustrations of the following lamps appear in GE publication SS-123, STAGE/STUDIO LAMP CATALOG (#204-51601).

The following listings are in alphabetical order by ANSI Code. Nominal wattage of each lamp type is indicated by the numerals following "Q" in the Lamp Ordering Code. Additional ANSI-Coded lamp listings appear on pages 34, 35 and 76-79.

CAUTION—The quartz filament tubes used in Quartzline® tungsten-halogen lamps generate intense heat, are pressurized and could unexpectedly shatter. Therefore, protect people and surroundings from the possibility of hot, flying fragments with suitable enclosure, shield, lens or screen for all unjacketed lamp types, i.e., where the filament tube is not enclosed in an outer glass bulb. For all lamp types which have an outer glass bulb, a suitable enclosure, shield, lens or screen should be used to protect against the risk of falling glass if the bulb should break, except for PAR-38 lamp types where this protection should not be needed. Protect both the glass outer bulbs and the quartz filament tubes from abrasion and scratches during handling and installation. Do not operate lamps above 110% of rated voltage. Extended direct exposure to unjacketed Quartzline lamps rated at 3200K and above, or to any unjacketed Quartzline lamps operated above rated voltage, may lead to ultraviolet irritation of skin and eyes. Passing the light through ordinary glass or plastic provides adequate protection. (Such protection is automatically provided by the glass outer bulbs of Quartzline PAR and R lamps.) A complete statement of precautions and operating instructions is furnished with each lamp.

Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION and BURNING POSITION LIMITATION, if any	Filament Design	M. O. L. (In.)	Approx. Lighted Length or Light Center Length (LCL) (Inches)	Rated Avg. Life (Hours)	Approx. Lumens	
											Initial	Mean
T-6	Medium Prefocus	11966	BTL-Q500T6/CL/P	120	12	Clear—3050K.	C-13D	4 1/2	(2 3/16)	500	11000	...
		11953	BTN-Q750T7/CL/2P	120	12	Clear—3050K.	C-13D	4 1/2	(2 3/16)	500	17600	...
		11954	BTP-Q750T7/4CL/2P	120	12	Clear—3200K.	C-13D	4 1/2	(2 3/16)	200	21000	19950
T-7	Mogul Prefocus	11955	BTR-Q1000T7/4CL/2P	120	12	Clear—3200K.	C-13D	4 1/2	(2 3/16)	250	28500	27100
		12554	BVT-Q1000T7/CL/MP	120	6	Clear—3050K.	C-13D	7 1/4	(3 15/16)	500	24500	...
		12553	BVV-Q1000T7/4CL/MP	120	6	Clear—3200K.	C-13D	7 1/4	(3 15/16)	250	28500	...
T-10	Mog. Pref.	12555	BVW-Q2000T10/4CL/MP	120	6	Clear—3200K. BDTH.	C-13	8	(3 15/16)	300	59000	...
T-8	Mog. Bip.	39587	BWA-Q2000/4CL/BP	120	6	Clear—3200K.	CC-8	8	(5)	500	59000	...
	Mogul	37086	BWF-Q2000/4CL	120	6	Clear—3200K.	CC-8	7 1/2	(5 1/4)	500	59000	...
T-7	Med. 2-Pin	39680	BWM-Q750T7/4CL/TP	120	6	Clear—3200K. BDTH.	C-13D	4 1/2	(2 3/8)	200	20900	19860
		39681	BWN-Q1000T7/4CL/TP	120	6	Clear—3200K. BDTH.	C-13D	4 1/2	(2 3/8)	250	28500	...
T-10	Mog. Bip.	37564	CXZ-Q1500T10/4CL	120	6	Clear—3200K. BDTH.	C-13	8 1/2	(5)	400	44500	...
T-7		42697	CYV-Q1000T7/4CL/BP	120	6	Clear—3200K. BDTH.	C-13D	8	(5)	200	28500	...
T-10		36636	CYX-Q2000T10/4CL	120	6	Clear—3200K. BDTH.	C-13	8 1/2	(5)	300	59000	...
PS-52	Mogul	40357	DKX/DSF-Q1500PS52/4	120	12	IF—Scoop Lamp—3200K. (132)	C-8	13	9 1/2	1000	41000	...
		39582	DKZ/DSE-Q1000PS52/4	120	12	IF—Scoop Lamp—3200K. (132)	CC-8	13	9 1/2	750	28000	...
T-20	Mog. Bip.	41736	DPY-Q5000T20/4CL	120	6	Clear—3200K. BDTH. (159)	C-13	11	6 1/2	500	143000	...
T-24		39060	DTY-Q10M/T24/4CL	120	1	Clear—3200K. (116)	C-13	15 3/8	(10)	300	290500	...
PAR-36	Scr. Term	41667	DWE-Q650PAR36/1	120	12	MFL—3200K. (106,131,146)	CC-6	2 9/16	...	100	24000 (142)	...
	Ferrule	41666	DXK-Q650PAR36/2	120	12	MFL—3400K. (106,131,146)	CC-6	2 7/16	...	35	30000 (142)	...
T-5	RSC	30157	DXW-Q1000T5/4CL	120	24	Clear—3200K.	CC-8	3 3/4	7/8	150	28000	...
		30362	DYA-Q1000T5/1CL	120	24	Clear—3200K.	CC-8	4 3/8	7/8	200	28000	...
G-6	2-Pin Pref.	37427	DYG-Q250/4CL/2PP	30	24	Clear—3400K. BDTH.	CC-6	2 1/2	(1 7/16)	15	8000	...
T-4	Medium Prefocus	39134	EGC-Q500/5CL/P	120	12	Clear—3150K.	CC-8	6	(3 1/2)	500	12700	12065
		39135	EGE-Q500CL/P	120	12	Clear—3000K.	CC-8	6	(3 1/2)	2000	10450	10140
T-6		39136	EGF-Q750/4CL/P	120	12	Clear—3200K.	CC-8	6	(3 1/2)	500	20400	19380
		39137	EGG-Q750CL/P	120	12	Clear—3000K.	CC-8	6	(3 1/2)	2000	15750	15280
		38853	EGJ-Q1000/4CL/P	120	12	Clear—3200K.	CC-8	6	(3 1/2)	500	27500	...
		38852	EGK-Q1000/4/P	120	12	Frosted—3200K.	CC-8	6	(3 1/2)	500	26500	...
		39138	EGM-Q1000CL/P	120	12	Clear—3000K.	CC-8	6	(3 1/2)	2000	21500	...
T-7	Med. Bip.	39190	EGR-Q750T7/4CL	120	12	Clear—3200K. BDTH.	C-13D	5	(2 1/2)	200	21000	19950
		39191	EGT-Q1000T7/4CL	120	12	Clear—3200K. BDTH.	C-13D	5	(2 1/2)	250	28500	...
T-4	Medium 2-Pin	37082	EHC-Q500/5CL	120	6	Clear—3150K.	CC-8	4	(2 3/8)	300	12700	12065
		37083	EHD-Q500CL/TP	120	6	Clear—3000K.	CC-8	4	(2 3/8)	2000	10600	10280

106. Although made of heat-resistant glass, the bulb and lens should be protected from moisture or breakage may result. The lens or bulb may break during usage under certain other conditions beyond the control of the manufacturer. Therefore screening techniques are recommended where appropriate, to protect people and surroundings from possible hot fragments.

110. Burn with Filament coil axis horizontal.

116 Can be burned within 45° of base down provided tilt is in the direction in which the filament plane faces.

131. For use only with heat-resistant connector and with lamp supported by bulb rim.

132. Do not allow liquids or fixture to contact hot bulb, or bulb may break. The Quartzline filament tube in this lamp generates intense heat, is pressurized and could unexpectedly shatter. Therefore, protect people and surroundings from possible hot fragments with a suitable enclosure, shield, lens or screen.

142. Initial average beam candlepower within 10° cone.

146. Burn with beam approx. horizontal.

159. Can be burned base down to horizontal, provided tilt is in direction in which the filament plane faces.



STAGE/STUDIO QUARTZLINE® TUNGSTEN HALOGEN LAMPS (Continued)

Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION and BURNING POSITION LIMITATION, if any	Fila- ment Design	M. O. L. (In.)	Approx. Lighted Length or Light Center Length (LCL) (Inches)	Rated Avg. Life (Hours)	Approx. Lumens	
											Initial	Mean
T-6	Medium 2-Pin	37051	EHF-Q750/4CL	120	6	Clear—3200K.	CC-8	4 ¹ / ₈	(2 ³ / ₈)	300	20400	19380
		43167	EHG-Q750CL/TP	120	6	Clear—3000K.	CC-8	4 ¹ / ₈	(2 ³ / ₈)	2000	15400	...
T-3	RSC	23788	EJD-Q1000T3/3CL	185	12	Clear—3350K. HORIZ.	C-8	4 ¹¹ / ₁₆	2 ¹¹ / ₁₆	100	33600	...
		23756	◆EJG-Q750T3/4CL	120	12	Clear—3200K. HORIZ.	C-8	4 ¹¹ / ₁₆	2 ⁷ / ₁₆	400	20600	19500
G-7	2-Pin Prefocus	33934	EKB-Q420/4CL/2PP	120	24	Clear—3200K. (110)	CC-6	2 ¹ / ₂	1 ⁷ / ₁₆	75	11000	...
G-6	RSC	34328	EKD-Q650/3CL/2PP	120	24	Clear—3400K.	CC-6	2 ¹ / ₂	1 ⁷ / ₁₆	25	20000	...
T-3		23755	◆EMD-Q750T3/4	120	12	Frosted—3200K. HORIZ.	C-8	4 ¹¹ / ₁₆	2 ⁷ / ₁₆	400	19500	18500
		23760	EME-Q800T3/4CL	240	12	Clear—3200K. HORIZ.	C-8	4 ¹¹ / ₁₆	2 ³ / ₄	250	22000	20800
		23761	EMF-Q800T3/4	240	12	Frosted—3200K. HORIZ.	C-8	4 ¹¹ / ₁₆	2 ³ / ₄	250	21400	20300
T-4	Mini Can	47950	EVR-Q500CL/MC	120	6	Clear—2950K. (103,158)	CC-8	3 ⁵ / ₈	(2)	2000	10450	10150
	RSC	30325	FAD-Q650T4/4CL	120	24	Clear—3200K.	CC-8	3 ³ / ₁₆	5 ⁵ / ₈	100	16500	...
PAR-36	Ferrule	41668	FAY-Q650PAR36/3D 6PK	120	12	SP—Dichro. 5000K. (106,131,146)	CC-6	2 ⁷ / ₁₆	...	35	35000 (141)	...
	Scr. Term.	41669	FBE-Q650PAR36/5D 6PK	120	12	SP—Dichro. 5000K. (106,131,146)	CC-6	2 ⁹ / ₁₆	...	35	35000 (141)	...
	Ferrule	41670	FBJ-Q650PAR36/3 6PK	120	12	SP—3400K. (106,131,146)	CC-6	2 ⁷ / ₁₆	...	30	75000 (141)	...
	Scr. Term	41671	FBO-Q650PAR36/5 6PK	120	12	SP—3400K. (106,131,146)	CC-6	2 ⁹ / ₁₆	...	30	75000 (141)	...
T-4	RSC	30343	FBX-Q650T4/4	120	24	Frost—3200K.	CC-8	3 ³ / ₁₆	...	100	16500	...
T-5		30374	FBY-Q1000T4/5	120	24	Frost—3200K.	CC-8	3 ¹ / ₄	...	150	26000	...
T-3		◆23797	FCM-Q1000T3/4CL	120	12	Clear—3200K. HORIZ.	C-8	4 ¹¹ / ₁₆	2 ³ / ₈	400	28000	26600
T-6	Med. 2-Pin	35853	FCV-Q1000/4	120	6	Frosted—3200K. (180)	CC-8	4 ¹ / ₈	(2 ³ / ₈)	300	26500	...
PAR-36	Ferrule	41672	FCW-Q650PAR36/6 6PK	120	12	FL—3200K. (106,131,146)	CC-6	2 ⁷ / ₁₆	...	100	9000 (142)	...
		41673	FCX-Q650PAR36/7 6PK	120	12	MFL—3200K. (106,131,146)	CC-6	2 ⁷ / ₁₆	...	100	24000 (142)	...
T-4	RSC	23841	FDB-Q1500T4/4CL	120	12	Clear—3200K. HORIZ.	C-8	6 ⁹ / ₁₆	2 ¹ / ₄	400	41200	40000
T-3		23735	FDF-Q500T3/4CL	120	12	Clear—3200K. HORIZ.	C-8	4 ¹¹ / ₁₆	2 ³ / ₈	400	13250	12500
		23734	FDN-Q500T3/4	120	12	Frosted—3200K.—HORIZ.	C-8	4 ¹¹ / ₁₆	2 ³ / ₈	400	12800	12200
T-6	Med. 2-Pin	35607	FEL-Q1000/4CL	120	6	Clear—3200K. (180)	CC-8	4 ¹ / ₈	(2 ³ / ₈)	300	27500	...
	RSC	33760	FER-Q1000T6/4CL	120	6	Clear—3200K.	CC-8	5 ⁵ / ₈	3 ³ / ₄	500	27500	...
T-4	D.C. Bay.	14119	FEV-Q200/4CL/DC	120	6	Clear—3200K.	CC-2V	2 ⁷ / ₁₆	(1 ³ / ₈)	50	5500	...
T-8	RSC	33761	FEY-Q2000T8/4CL	120	6	Clear—3200K.	CC-8	5 ⁵ / ₈	1	400	57000	54200
PAR-64	Extended Mogul End Prong	13233	FFN-Q1000PAR64/1	120	6	VNSP—3200K. (106,131)	CC-6	6	...	600	400000 (141)	...
		13229	FFP-Q1000PAR64/2	120	6	NSP—3200K. (106,131)	CC-6	6	...	600	330000 (141)	...
		13228	FFR-Q1000PAR64/5	120	6	Med. Flood—3200K. (106,131)	CC-6	6	...	600	125000 (142)	...
		13227	FFS-Q1000PAR64/6	120	6	Wide Flood—3200K. (106,131)	CC-6	6	...	600	40000 (142)	...
T-3	RSC	33280	FFT-Q1000T3/1CL	120	12	Clear—3200K. HORIZ.	C-8	6 ⁹ / ₁₆	2 ⁹ / ₁₆	400	26400	25080
PAR-36	Scr. Term	41675	FGK-Q650PAR36/8D 6PK	120	12	MFL—Dichro. 5000K. (106,131,146)	CC-6	2 ⁹ / ₁₆	...	35	24000 (142)	...
PAR-64	Extended Mogul End Prong	13226	FGM-Q1000PAR64/3D	120	6	NSP—Dichro. 5200K. (106,131)	CC-6	6	...	200	200000 (141)	...
		13225	FGN-Q1000PAR64/7D	120	6	MFL—Dichro. 5200K. (106,131)	CC-6	6	...	200	70000 (142)	...
T-4	RSC	41229	FGT-Q1500T4/4	120	12	Frosted—3200K. HORIZ.	C-8	6 ⁹ / ₁₆	2 ¹ / ₄	400	40200	...
T-3		◆23792	FHM-Q1000T3/4	120	12	Frosted—3200K. HORIZ.	C-8	4 ¹¹ / ₁₆	2 ³ / ₈	400	27300	25900
T-10	Mogul Bipost	13221	FKK-Q2000T10/4CL	220	6	Clear—3200K. BDTH.	C-13	8 ¹ / ₂	(5)	400	54000	...
		13220	FKK-Q2000T10/4CL	240	6	Clear—3200K. BDTH.	C-13	8 ¹ / ₂	(5)	400	54000	...
T-3	RSC	13895	FWM-Q1000/650T3/4WM	120	6	WATT-MISER®—650 Watts. Clear—3200K. HORIZ.	C-8	4 ¹¹ / ₁₆	2 ³ / ₈	400	25500	24000

103. Life dependent on service conditions.

106. Although made of heat-resistant glass, the bulb and lens should be protected from moisture or breakage may result. The lens or bulb may break during usage under certain other conditions beyond the control of the manufacturer. Therefore screening techniques are recommended where appropriate, to protect people and surroundings from possible hot fragments.

110. Burn with filament coil axis horizontal.

131. For use only with heat-resistant connector and lamp supported by bulb rim.

♦ For energy savings consider replacing FCM and FHM with FWM 650-Watt WATT-MISER® Quartzline® lamp listed on this page.

♦ For energy savings consider replacing EJG and EMD with FWM 650-Watt WATT-MISER®.

141. Initial average beam candlepower within 5° cone.

142. Initial average beam candlepower within 10° cone.

146. Burn with beam approx. horizontal.

158. For use only in equipment specially designed to maintain bulb and base temperature within safe limits.

180. Because of possible overheating, this lamp is not recommended for use without force-cooling in fixtures having deep-bowl, close-fitting reflectors where lamp axis is crosswise to the reflector axis.



QUARTZLINE® TUNGSTEN-HALOGEN LAMPS FOR GENERAL LIGHTING AND SPECIALIZED APPLICATIONS

(See pages 36-37 for Stage/Studio Quartzline lamps)

The Quartzline® lamps in this section are designed primarily for general lighting applications, except where a specialized use is shown in the "Description" column. Performance ratings shown are approximate values based on laboratory tests under controlled conditions at rated voltage. All lamp ratings and specifications are subject to change without notice.

WATT-MISER® Quartzline® Lamps—A new family of lamps providing about 90% of the light output of standard Quartzline lamps while saving 30% to 40% in energy when used as direct replacements for standard tungsten halogen lamps. **WATT-MISER** Quartzline lamp ordering codes indicate both the nominal wattage of the lamp they can replace and the rated wattage of the **WATT-MISER** Quartzline lamp. Example: Q500/350WM is the 350-watt **WATT-MISER** Quartzline lamp designed to replace a standard 500-watt T-3 tungsten halogen lamp, providing nearly equal lumens.

The substantial wattage reductions offered by these new lamps result from a multi-layer thin-film optical coating on the outside of the quartz bulb. The coating freely transmits light while reflecting infra-red energy (heat) directly back to the filament. The re-cycled heat maintains filament operating temperature, brightness and color with a much lower wattage input—raising lamp efficiency (lumens per watt) by as much as 50% vs. comparable standard tungsten halogen lamps.

Additional features of **Watt-Miser** Quartzline lamps include: reduced radiant heat in the light beam, cooler fixtures, lower air conditioning loads, possible reduced peak power demand in larger installations, and ability to use more lamps per branch circuit (for more light).

CAUTION—The quartz filament tubes used in Quartzline® tungsten-halogen lamps generate intense heat, are pressurized and could unexpectedly shatter. Therefore, protect people and surroundings from the possibility of hot, flying fragments with suitable enclosure, shield, lens or screen for all unjacketed lamp types, i.e., where the filament tube is not enclosed in an outer glass bulb. For all lamp types which have an outer glass bulb, a suitable enclosure, shield, lens or screen should be used to protect against the risk of falling glass if the bulb should break, except for PAR-38 lamp types where this protection should not be needed. Protect both the glass outer bulbs and the quartz filament tubes from abrasion and scratches during handling and installation. Do not operate lamps above 110% of rated voltage. Extended direct exposure to unjacketed Quartzline lamps rated at 3200K and above, or to any unjacketed Quartzline lamps operated above rated voltage, may lead to ultraviolet irritation of skin and eyes. Passing the light through ordinary glass or plastic provides adequate protection. (Such protection is automatically provided by the glass outer bulbs of Quartzline PAR and R lamps.) A complete statement of precautions and operating instructions is furnished with each lamp.

ANSI Codes. As is evident on pages 36 and 37 the 3-letter "ANSI codes" assigned to many Quartzline lamps have been incorporated into the Lamp Ordering Codes for Stage/Studio lamp types—example: FDF-Q500T3/4CL. However, for general-service Quartzline lamps having an assigned ANSI Code, it is entered in the "Description" column—example: "ANSI: ESN" for the Q100CL/MC/2V listing.

All lamp listings in this section are in ascending order of wattage—not in alphabetical order. If you know only the ANSI Code, refer to the Stage/Studio lamp listings (pages 35-37) or to the alphabetical cross-index on page 34 to determine the full Lamp Ordering Code, wattage and page reference. For Stage/Studio lamps whose Ordering Codes contain the 3-letter ANSI Code, **only** the 3-letter code is imprinted on the lamp itself; package labels show the complete Lamp Ordering Code.

Bases—In the "Base" column, the following abbreviations are sometimes used:

RSC = Recessed Single Contact	Med. Bip. = Medium Bipost	Min. Scr. = Miniature Screw
D.C. Bay. = Double-Contact Bayonet Candelabra	Med. Pref. = Medium Prefocus	Mog. Bip. = Mogul Bipost
Med. 2-Pin = Medium 2-Pin	Mog. Pref. = Mogul Prefocus	2-Pin Pref. = 2-Pin Prefocus
Med. Skt. = Medium Skirted	Scr. Term. = Screw Terminal	M.E.P. = Mogul End Prong
Mini-Can. = Miniature Candelabra	■Mogul = Nickel-Plated Brass, Mogul Screw	E.M.E.P. = Extended Mogul End Prong

Maximum Overall Length (M.O.L.) is the distance from top of bulb to bottom of base contacts for "single-ended" lamps. For "double-ended" lamps, M.O.L. is the total end-to-end length—not including the length of flexible lead wires, where used.

Lamp Temperatures—Temperatures of Quartzline lamps must be maintained within certain limits or short life may result. For unjacketed Quartzline lamps with a rated average life of 500 hours or more, the maximum seal temperature limit is 650°F; for lamps rated less than 500 hours, the maximum limit is 750°F. Also, satisfactory operation of unjacketed Quartzline lamps requires a minimum temperature of 500°F. on all bulb surfaces that enclose the filament. Jacketed lamps, where the quartz filament tube is enclosed in a glass outer bulb, are designed to maintain appropriate quartz tube temperatures under all normal operating conditions.

Bulb Finish—Many Quartzline lamps are available in two bulb finishes—clear or frosted—as indicated in the "Description" column. The frosted finish is applied to the outside of the quartz bulb, and provides a lower, more-uniform lamp brightness than comparable clear bulbs, with no change in color.

Color Temperature—Ratings (where shown) are approximate. Example: 3200K indicates an approximate color temperature of 3200 kelvins.

Filament Design—Designations are defined on page 3.

Approx. Lighted Length and Light Center Length (LCL)—For "double-ended", or "linear", Quartzline lamps (principally those with Recessed Single Contact bases), the filament is centered between the two lamp ends and the Lighted Length of the luminous parts of the coiled or coiled-coil filament is given. For "single-ended" Quartzline lamps, the Light Center Length (LCL) as defined on page 3 is shown in parentheses, **instead** of Lighted Length.

Low Noise Construction—All Quartzline Stage/Studio lamps (except PAR types) have special "low-noise" construction to minimize generation of audible noise when operated on A.C. circuits. In addition, all Quartzline lamps with Recessed Single Contact bases have "low-noise" construction.

Rated Average Life—Values are based on laboratory tests of large numbers of representative lamps at rated voltage, under controlled conditions. Rated Average Life is a **median** value of life expectancy—that is, the total operating time at which, under normal operating conditions at rated voltage, 50% of any large group of initially installed lamps are expected to be still burning. Individual lamps or groups of lamps may, of course, vary from the Rated Average Life shown. Lamp operating conditions—especially voltage—can also affect life.

Initial Lumens—Ratings are based on photometry of lamps that have been operated for 1% of rated life (10 hours maximum), at rated volts.

Burning Position—Limitations on lamp operating position are shown in the "Description" column. The following abbreviations are used:

BDTH = **Burn base down to horizontal.**

HORIZ. = **Burn horizontal** with maximum 4° tilt.

If no limitation is shown, the lamp may be operated in any position.



GE PRECISE™ LAMPS

PRECISE™ Lamps are compact 12-volt Quartzline® lamps with two-inch diameter Multi-Mirror® faceted dichroic reflectors. Applications include display lighting, downlighting and spotlighting. Lamps may be operated in any position.

Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION	Filament Design	M. O. L. (Inches)	Rated Avg. Life (Hours)	Approx. Center Candlepower	Approx. Beam Spread (136)
20—75 WATTS PRECISE™ LAMPS											
	2-Pin	45095	Q20MR16/NSP (ESX)	12	24	Precise—Narrow Sp. 2925K. (132)	C-6	1 ³ / ₄	3000	3300	12°
		14789	Q20MR16/NSP (ESX) 6PK	12	24	Precise—Narrow Sp. 2925K. (132)	C-6	1 ³ / ₄	3000	3300	12°
		10933	Q20MR16/FL (BAB)	12	24	Precise—Fl. 2925K. (132)	C-6	1 ³ / ₄	3000	460	36°
		14790	Q20MR16/FL (BAB) 6PK	12	24	Precise—Fl. 2925K. (132)	C-6	1 ³ / ₄	3000	460	36°
		14210	Q42MR16/NFL (EYS)	12	24	Precise—Narrow Fl. 3000K. (132)	CC-6	1 ³ / ₄	3000	2000	24°
		14785	Q42MR16/NFL (EYS) 6PK	12	24	Precise—Narrow Fl. 3000K. (132)	CC-6	1 ³ / ₄	3000	2000	24°
		12900	Q50MR16/NSP (EXT)	12	24	Precise—Narrow Sp. 3050K. (132)	C-6	1 ³ / ₄	3000	9150	12°
		14787	Q50MR16/NSP (EXT) 6PK	12	24	Precise—Narrow Sp. 3050K. (132)	C-6	1 ³ / ₄	3000	9150	12°
		12901	Q50MR16/NFL (EXZ)	12	24	Precise—Narrow Fl. 3075K. (132)	C-6	1 ³ / ₄	3000	3000	24°
		14793	Q50MR16/NFL (EXZ) 6PK	12	24	Precise—Narrow Fl. 3075K. (132)	C-6	1 ³ / ₄	3000	3000	24°
		12006	Q50MR16/FL (EXN)	12	24	Precise—Fl. 3050K. (132)	C-6	1 ³ / ₄	3000	1500	38°
		14788	Q50MR16/FL (EXN) 6PK	12	24	Precise—Fl. 3050K. (132)	C-6	1 ³ / ₄	3000	1500	38°
		12902	Q75MR16/NSP (EYF)	12	24	Precise—Narrow Sp. 3050K. (132)	CC-6	1 ³ / ₄	3500	11500	14°
		14795	Q75MR16/NSP (EYF) 6PK	12	24	Precise—Narrow Sp. 3050K. (132)	CC-6	1 ³ / ₄	3500	11500	14°
		12778	Q75MR16/FL (EYC)	12	24	Precise—Fl. 3050K. (132)	CC-6	1 ³ / ₄	3500	2000	38°
		14794	Q75MR16/FL (EYC) 6PK	12	24	Precise—Fl. 3050K. (132)	CC-6	1 ³ / ₄	3500	2000	38°

QUARTZLINE® TUNGSTEN-HALOGEN LAMPS

(See pages 36-37 for Stage/Studio Quartzline lamps)

Bulb	Base	Product Code	Lamp Ordering Code	Volts or Amps (A)	Std. Pkg. Qty.	DESCRIPTION and BURNING POSITION LIMITATION, if any	Filament Design	M. O. L. (In.)	Approx. Lighted Length or Light Center Length (LCL) (Inches)	Rated Avg. Life (Hours)	Approx. Lumens	
											Initial	Mean
45—75 WATTS												
T-2 ¹ / ₂	RSC	23850	Q45T2 ¹ / ₂ /CL	7	12	Clear—Instrument	C-8	2 ¹ / ₁₆	(137)	1000	710	690
T-4	2-Pin Pref.	41541	Q45T4/CL	6.6A	12	Clear—Airport. BASE DOWN	C-6	2 ¹ / ₂	(1 ¹⁷ / ₃₂)	500	835	825
MR-16 Multi-Mirror®	2-Pin	39857	Q50MR16/FL/1 (ENL)†	12	24	Display/Fiber Optics—2" dia. dichroic refl. 3050K. BDTH (132)	C-6	1 ³ / ₄	...	3000	...	...
		43948	Q50MR16/EPZ	13.8	24	Display/Microfilm Proj. 2" dia. dichroic refl. 3150K. BDTH (132)	CC-6	1 ³ / ₄	...	1000	...	...
T-3	Min. Scr.	39574	Q75CL	28	20	Clear (101)	CC-6	2 ¹ / ₂	(1 ³ / ₁₆)	2000	1400	1360

100 WATTS

	Mini-Can	44385	Q100CL/MC/2V	120	6	Clear. ANSI: ESN	CC-2V	2 ¹³ / ₁₆	(1 ³ / ₈)	750	1800	1675
		44656	Q100MC/2V	120	6	Frosted. ANSI: ETE	CC-2V	2 ¹³ / ₁₆	(1 ³ / ₈)	750	1750	1630
	D.C. Bay.	44386	Q100CL/DC/2V	120	6	Clear. ANSI: ESR	CC-2V	2 ⁷ / ₁₆	(1 ³ / ₈)	750	1800	1675
		44657	Q100DC/2V	120	6	Frosted. ANSI: ETD	CC-2V	2 ⁷ / ₁₆	(1 ³ / ₈)	750	1750	1630
	2-Pin Pref.	41542	Q100T4/CL	6.6A	12	Clear—Airport. BASE DOWN	C-6	2 ¹ / ₂	(1 ¹⁷ / ₃₂)	500	2080	2060
		33174	Q100PAR36	6.6A	12	PAR—Airport	C-6	2 ³ / ₄	...	1200	1860	1840

150 WATTS

	Mini-Can	43694	Q150CL/MC	120	6	Clear. ANSI: ETG	CC-8	2 ¹³ / ₁₆	(1 ³ / ₈)	2000	2800	2600
		44383	Q150CL/MC/2V	120	6	Clear. ANSI: ESL	CC-2V	2 ¹³ / ₁₆	(1 ³ / ₈)	1000	2800	2600
		44654	Q150MC	120	6	Frosted. ANSI: ETH	CC-8	2 ¹³ / ₁₆	(1 ³ / ₈)	2000	2700	2500
	D.C. Bay.	43693	Q150CL/DC	120	6	Clear. ANSI: ETC	CC-8	2 ⁷ / ₁₆	(1 ³ / ₈)	2000	2800	2600
		44384	Q150CL/DC/2V	120	6	Clear. ANSI: ESP	CC-2V	2 ⁷ / ₁₆	(1 ³ / ₈)	1000	2800	2600
		44653	Q150DC	120	6	Frosted. ANSI: ETF	CC-8	2 ⁷ / ₁₆	(1 ³ / ₈)	2000	2700	2500

† For a more uniform lighting pattern in display applications calling for the ENL, use Precise™ lamp Q50MR16/FL (EXN).

136. To 50% of Center Beam Candlepower.

137. Filament: diameter 1.5mm, length 4.5mm (±10%).

101. Made in Japan expressly for General Electric Company.

132. For use only in equipment designed for lamps of this type and wattage, having ventilation adequate to maintain bulb and base temperature within safe limits.



QUARTZLINE® TUNGSTEN HALOGEN LAMPS (Continued)

(See pages 36-37 for Stage/Studio Quartzline lamps)

Bulb	Base	Product Code	Lamp Ordering Code	Volts or Amps (A)	Std. Pkg. Qty.	DESCRIPTION and BURNING POSITION LIMITATION, if any	Filament Design	M. O. L. (In.)	Approx. Lighted Length or Light Center Length (LCL) (Inches)	Rated Avg. Life (Hours)	Approx. Lumens	
											Initial	Mean

150 WATTS (Continued)

T-4	RSC	23710	Q150T4/CL	25	12	Clear—Dental Spotlight (139)	CC-8	2 ⁹ / ₁₆	...	3000	2800	2700
PAR-38 (112)	Med. Skt.	11107	Q150PAR38SP	120	12	Spot—CERAMIC SOCK. ONLY§	CC-8	5 ⁵ / ₁₆	...	4000	2000	1900
		11108	Q150PAR38FL	120	12	Flood—CERAMIC SOCK. ONLY*	CC-8	5 ⁵ / ₁₆	...	4000	2000	1900

200—235 WATTS

T-3	RSC	43713	Q200T3/CL	120	6	Clear	CC-8	3 ¹ / ₈	1 ⁵ / ₁₆	1500	3460	3100
T-4	2-Pin Prefocus	40702	Q200T4/CL	6.6A	12	Clear—Airport. BASE DOWN	CC-6	2 ³ / ₈	(1 ¹⁷ / ₃₂)	500	5150	5100
		11548	Q235T4/3	33	12	Frosted—Instrument	CC-6	2 ³ / ₈	(1 ¹⁷ / ₃₂)	(103)	6200	...

250 WATTS

PAR-38 (112)	Med. Skt.	23719	Q250PAR38SP	120	12	Sp.—CERAMIC SOCK. ONLY (169)	CC-8	5 ⁵ / ₁₆	...	6000	3500	...
		23718	Q250PAR38FL	120	12	Fl.—CERAMIC SOCK. ONLY (170)	CC-8	5 ⁵ / ₁₆	...	6000	3500	...
T-4	Mini-Can	43699	Q250CL/MC	120	6	Clear. ANSI: EHT	CC-8	3 ⁵ / ₃₂	(1 ⁵ / ₈)	2000	5000	4850
		43700	Q250CL/MC	130	6	Clear	CC-8	3 ⁵ / ₃₂	(1 ⁵ / ₈)	2000	5000	4850
		43695	Q250MC	120	6	Frosted. ANSI: ESM	CC-8	3 ⁵ / ₃₂	(1 ⁵ / ₈)	2000	4850	4700
		43696	Q250MC	130	6	Frosted	CC-8	3 ⁵ / ₃₂	(1 ⁵ / ₈)	2000	4850	4700
	D.C. Bay.	43697	Q250CL/DC	120	6	Clear. ANSI: ESS	CC-8	3	(1 ⁵ / ₈)	2000	5000	4850
		43698	Q250CL/DC	130	6	Clear	CC-8	3	(1 ⁵ / ₈)	2000	5000	4850
		43701	Q250DC	120	6	Frosted. ANSI: ETB	CC-8	3	(1 ⁵ / ₈)	2000	4850	4700
		43702	Q250DC	130	6	Frosted	CC-8	3	(1 ⁵ / ₈)	2000	4850	4700

300 WATTS

T-3	RSC	43703	Q300T3/CL	120	6	Clear. ANSI: EHM. HORIZ.	C-8	4 ¹¹ / ₁₆	2 ⁵ / ₁₆	2000	5950	5760
		14170	Q300T3/CL	5PK	5	Clear. ANSI: EHM. HORIZ. Ret. Pk.	C-8	4 ¹¹ / ₁₆	2 ⁵ / ₁₆	2000	5950	5760
		43704	Q300T3	120	6	Frosted. ANSI: EHZ. HORIZ.	C-8	4 ¹¹ / ₁₆	2 ⁵ / ₁₆	2000	5900	5700
T-4		43705	Q300T4/CL	120	6	Clear. ANSI: EHP	C-8	3 ¹ / ₈	1 ¹ / ₁₆	2000	5650	5480

350 WATTS—WATT-MISER®

T-3	RSC	13894	Q500/350WM	120	6	WATT-MISER—Clear—HORIZ.	C-8	4 ¹¹ / ₁₆	2 ³ / ₁₆	2000	10000	9500
		14311	Q500/350WM	130	6	WATT-MISER—Clear—HORIZ.	C-8	4 ¹¹ / ₁₆	2 ³ / ₈	2000	9600	9100

400 WATTS

T-4	RSC	43708	Q400T4/CL	120	6	Clear. ANSI: EHR	CC-8	3 ¹ / ₈	1 ³ / ₁₆	2000	7750	7540
	Mini-Can	43707	Q400CL/MC	120	6	Clear	CC-8	3 ⁵ / ₈	(2)	2000	8250	8000
		43706	Q400MC	120	6	Frosted	CC-8	3 ⁵ / ₈	(2)	2000	7850	7600

425 WATTS

T-3	RSC	11178	Q425T3/CL	120	12	Clear. HORIZ.	C-8	4 ¹¹ / ₁₆	2 ⁷ / ₃₂	2000	8900	8600
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500 WATTS

T-3	RSC	23731	Q500T3/CL	120	12	Clear. ANSI: FCL. HORIZ.	C-8	4 ¹¹ / ₁₆	2 ¹ / ₄	2000	11100	10750
		23733	Q500T3/CL	130	12	Clear. ANSI: DVS. HORIZ.	C-8	4 ¹¹ / ₁₆	2 ⁷ / ₁₆	2000	10550	10250
		23744	Q500T3/CL/6	120	12	Clear. 6 Fil. Supports. Rough Serv. HORIZ. (133)	C-8	4 ¹¹ / ₁₆	2 ³ / ₈	1500 (103)	10950	10600
		23703	Q500T3	120	12	Frosted. ANSI: FCZ. HORIZ.	C-8	4 ¹¹ / ₁₆	2 ¹ / ₄	2000	10800	10500
		23717	Q500T3	130	12	Frosted. HORIZ.	C-8	4 ¹¹ / ₁₆	2 ⁷ / ₁₆	2000	10300	10000

103. Life dependent on service conditions.

112. Lamp is made of heat-resistant glass. It can be used indoors in an open fixture, and outdoors without moisture protection if burned base-up to base-horizontal in a neck-sealed gasketed-type lampholder. In other burning positions outdoors, protect lens and bulb from moisture, or breakage may result. Not recommended for enclosed, close-fitting housings.

133. Lamp provides maximum filament straightness under severe operating conditions.

139. Filament: diameter 3mm, length 10mm (±10%).

169. Initial average beam candlepower within 5° cone is 37,700.

170. Initial average beam candlepower within 10° cone is 7200.

§ Initial average beam candlepower within 5° cone is 19,000.

• Initial average beam candlepower within 10° cone is 4900.

♦ For energy savings consider replacing Q425T3/CL and Q500T3/CL with the 350-Watt WATT-MISER® Quartzline® lamp listed on this page. The resulting cost savings are shown on page 4.



QUARTZLINE® TUNGSTEN HALOGEN LAMPS (Continued)

(See pages 36-37 for Stage/Studio Quartzline lamps)

Bulb	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION and BURNING POSITION LIMITATION, if any	Filament Design	M. O. L. (in.)	Approx. Lighted Length or Light Center Length (LCL) (Inches)	Rated Avg. Life (Hours)	Approx. Lumens	
											Initial	Mean

500 WATTS (Continued)

T-4	D.C. Bay.	43710	Q500CL/DC	120	6	Clear	CC-8	3 ⁷ / ₁₆	(2 ¹ / ₈)	2000	10450	10150
		43709	Q500DC	120	6	Frosted	CC-8	3 ⁷ / ₁₆	(2 ¹ / ₈)	2000	10100	9800
PAR-56	Mogul End Prong	43494	Q500PAR56NSP	120	6	PAR—Narrow Spot (106,131,143)	CC-6	5	...	4000	8000	7520
		43495	Q500PAR56MFL	120	6	PAR—Medium Flood (106,131,144)	CC-6	5	...	4000	8000	7520
		43496	Q500PAR56WFL	120	6	PAR—Wide Flood (106,131,145)	CC-6	5	...	4000	8000	7520

900 WATTS—WATT-MISER®

T-3	RSC	13642	Q1500/900WM	240	6	WATT-MISER—Clear—HORIZ.	C-8	10 ¹ / ₁₆	6 ⁵ / ₁₆	2000	32000	30400
		14335	Q1500/900WM	277	6	WATT-MISER—Clear—HORIZ.	C-8	10 ¹ / ₁₆	6 ⁵ / ₁₆	2000	31000	29450

1000 WATTS

T-3	RSC	43711	Q1000T3/CL	220	6	Clear—HORIZ.	C-8	10 ¹ / ₁₆	6 ¹ / ₈	2000	21500	20850
		43712	Q1000T3/CL	240	6	Clear—HORIZ.	C-8	10 ¹ / ₁₆	6 ⁷ / ₁₆	2000	21500	20850
T-6		23800	Q1000T6/CL	120	6	Clear—ANSI: DWT	CC-8	5 ⁵ / ₈	1	2000	23400	22700
PAR-64	E.M.E.P.	43497	Q1000PAR64NSP	120	6	PAR—Narrow Spot (106,131,163)	CC-6	6	...	4000	19400	18240
		43498	Q1000PAR64MFL	120	6	PAR—Medium Flood (106,131,164)	CC-6	6	...	4000	19400	18240
		43499	Q1000PAR64WFL	120	6	PAR—Wide Flood (106,131,165)	CC-6	6	...	4000	19400	18240
R-60	Mogul	23781	Q1000R60FL	120	6	Reflector Flood—I.F. (108)	CC-8	10 ¹ / ₈	...	3000	18300	17400
T-20	Mog. Bip.	41734	Q1000T20BP	120	6	Clear—Lighthouse. BASE DOWN	CC-8	9 ¹ / ₂	(4)	3000	22400	21700

1250 WATTS

T-3	RSC	23808	Q1250T3/CL	208§	12	Clear—HORIZ. §	C-8	10 ¹ / ₁₆	6	2000§	28000	27100
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1500 WATTS

T-3	RSC	23828	Q1500T3/CL	208	12	Clear—HORIZ.	C-8	10 ¹ / ₁₆	6 ⁹ / ₁₆	2000	35800	34700
		23826	Q1500T3/CL	220	12	Clear—HORIZ.	C-8	10 ¹ / ₁₆	6 ¹³ / ₁₆	2000	35800	34700
		23830	Q1500T3/CL	240	12	Clear—HORIZ.	C-8	10 ¹ / ₁₆	6 ⁵ / ₁₆	2000	35800	34700
		23836	Q1500T3/CL/6	240	12	Clear—14 Fil. Supports. Rough Serv. HORIZ. (133)	C-8	10 ¹ / ₁₆	6 ³ / ₄	1000 (103)	35800	34700
		23832	Q1500T3/CL	277	12	Clear—HORIZ.	C-8	10 ¹ / ₁₆	6 ⁹ / ₁₆	2000	34400	33400

6000 WATTS

T-3	Spec (122)	13511	Q6000T3/CL	480	6	Clear-Infrared. HORIZ. (111,125)	C-8	11 ¹⁵ / ₁₆	9 ³ / ₄	(103)	...	...
	S/L ⊖	23843	Q6M/T3/CL/HT	480	12	Clear—Infrared. High Temp. Constr. HORIZ. (111,125)	C-8	11 ¹⁵ / ₁₆	9 ³ / ₄	(103)	...	...

103. Life dependent on service conditions.

106. Although made of heat-resistant glass, the bulb and lens should be protected from moisture or breakage may result. The lens or bulb may break during usage under certain other conditions beyond the control of the manufacturer. Therefore screening techniques are recommended where appropriate, to protect people and surroundings from possible hot fragments.

108. The bulb, although made of heat-resistant glass, may break if moisture falls on it. Lamp not recommended for use in enclosed close-fitting housings.

111. Flexible leads not included in maximum over-all length.

122. 36mm stranded leads with lug terminals.

125. Generally limited to intermittent burning in special equipment.

131. For use only with heat-resistant connector and with lamp supported by bulb rim..

133. Lamp provides maximum filament straightness under severe operating conditions.

143. Initial average beam candlepower within a 5° cone is 96,000.

144. Initial average beam candlepower within a 10° cone is 43,000.

145. Initial average beam candlepower within a 10° cone is 19,000.

163. Initial average beam candlepower within a 5° cone is 200,000.

164. Initial average beam candlepower within a 10° cone is 80,000.

165. Initial average beam candlepower within a 10° cone is 33,000.

⊖ "S/L" indicates metallic sleeve bases with approx. 6" flexible leads.

§ When operated at 240 volts, approximate ratings: 1560 watts; 43800 initial lumens; 42500 mean lumens; avg. life 300 hours.

♢ For energy savings and more light, consider replacing Q1000T3/CL with 900-Watt WATT-MISER® Quartzline® lamp listed on this page.

♣ For energy savings, consider the 900-Watt WATT-MISER® Quartzline lamp listed on this page. The resulting cost savings are shown on page 4.



QUARTZLINE® TUNGSTEN HALOGEN LAMPS— LISTED BY AMPERES AND WATTS

Watts	Bulb	Base	Product Code	Lamp Ordering Code	Amps	Std. Pkg. Qty.	DESCRIPTION and BURNING POSITION LIMITATION, if any	Filament Design	M. O. L. (In.)	Approx. Lighted Length or Light Center Length (LCL) (Inches)	Rated Avg. Life (Hours)	Approx. Lumens	
												Initial	Mean
45	T-2 1/2	RSC	23846	Q6.6A/T2 1/2/CL	6.6A	12	Clear—Airport (151)	C-8	2 1/16	(137)	1000	710	705
		Spec. (161)	23847	Q6.6A/T2 1/2/1CL	6.6A	12	Clear—Airport (134,151)	C-8	1 3/4	(137)	1000	710	705
100	T-3	RSC	23853	Q6.6A/T3/CL	6.6A	12	Clear—Instrument (151)	C-8	2 1/8	(138)	1000	2180	2160
200	T-4	Spec. (124)	23859	Q6.6A/T4/1CL	6.6A	12	Clear—Airport (134,151)	CC-8	2 21/64	(139)	500	4500	4450
		Spec. (175)	23857	Q6.6A/T4/5CL	6.6A	12	Clear—Airport (134)	CC-8	3 5/32	(135)	500	5000	...
		Spec. (129)	23860	Q6.6A/T4/DCR	6.6A	12	Clear—Airport (129)	CC-6	2 3/8	(1 1/16)	500	5150	...
	PAR-56	Scr. Term.	33279	Q6.6A/PAR56/3	6.6A	12	PAR—Airport. BDTH (106)	CC-6	4 1/2	...	1000	200000 (140)	...
		Mogul End Prong	10837	Q6.6A/PAR56/3P	6.6A	12	PAR—Airport. BDTH (106)	CC-6	5	...	1000	200000 (140)	...
			38271	Q6.6A/PAR56/2	6.6A	12	PAR—Airport. BDTH (106)	CC-6	5	...	1000	16000 (140)	...
	PAR-64		13224	Q6.6A/PAR64/2P 6PK	6.6A	6	PAR—Airport. BDTH (106)	CC-6	4 1/2	...	2000	...	...
			13223	Q6.6A/PAR64/3P 6PK	6.6A	6	PAR—Airport. BDTH (106)	CC-6	4 1/2	...	2000	...	...
300	PAR-56		23861	Q20A/PAR56	20A	12	PAR—Airport (106)	C-6	5	...	500	27000 (140)	...
		Screw Terminal	32861	Q20A/PAR56/2	20A	12	PAR—Airport (106)	C-6	4 1/2	...	500	200000 (140)	...
499			23863	Q20A/PAR56/3	20A	12	PAR—Airport. BDTH (106)	CC-6	4 1/2	...	500	330000 (140)	...
500		M.E.P.	23862	Q20A/PAR56/1	20A	12	PAR—Airport. BDTH (106)	CC-6	5	...	500	48000 (140)	...

106. Although made of heat-resistant glass, the bulb and lens should be protected from moisture or breakage may result. The lens or bulb may break during usage under certain other conditions beyond the control of the manufacturer. Therefore screening techniques are recommended where appropriate, to protect people and surroundings from possible hot fragments.
124. Approx. 1" flexible leads normal to plane of seals and on same side of lamps as exhaust tip.
129. D.C. Bayonet base with ring collar added. Light Center Length measured from plane of the three bosses on ring collar.

134. MOL dimension includes only length of quartz.
135. Filament: diameter, 3.6mm; length, 5.5mm.
137. Filament: diameter, 1.5mm; length, 4.5mm ($\pm 10\%$).
138. Filament: diameter, 1.5mm; length, 10mm ($\pm 10\%$).
139. Filament: diameter, 3mm; length, 10mm ($\pm 10\%$).
140. Initial maximum beam candlepower.
151. Filament offset 0.035" from center of axis of lamp.
161. Approx. 1" ribbon leads extending along axis of the lamp.
175. Approx. 1" ribbon leads extending normal to lamp axis in same plane as seals.

GENERAL ELECTRIC INCANDESCENT LAMPS

Burning Position—ANY, except as noted.

INTERNATIONAL BASE LAMPS

Bulb	Base	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 34)	Filament Design	M. O. L. (mm)	L. C. L. (mm)	Avg. Rated Life (Hours)	Approx. Initial Lumens
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50 WATTS

ER-30	▲Medium E27/27	50ER30/27	220-230 240-250	24	Ellipsoidal Reflector. Light Inside Frosted (4,35,56)	C,CC-9	160	80	2000	450
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69 WATTS

A-21	▲Medium E27/27	69A21/TS/27	130	120	Clear—Traffic Signal. Burn base down to horizontal. Rated Watts: 73.	C-9	114	65	8000	675
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75 WATTS

ER-30	▲Medium E27/27	75ER30/27	220-230 240-250	24	Ellipsoidal Reflector. Light Inside Frosted (4,35,56)	C,CC-9	160	80	2000	710
★PAR-38	Medium Skirted E27/51x39	75PAR38/FL/27	220-230	12	PAR—Clear—Projector Floodlight (14,56,96)	CC-6	140	...	2000	560
		75PAR38/SP/27	220-230	12	PAR—Clear—Projector Spotlight (14,56,96)	CC-6	140	...	2000	560

80 WATTS—WATT-MISER™ PAR (Same usable light as 100 PAR)

★PAR-38	Medium Skirted E27/51x39	100PAR/FL/80WM/27	220-230 240-250	12	PAR—Watt-Miser Flood (14,56,96)	CC-6	140	...	2000	750
		100PAR/SP/80WM/27	220-230 240-250	12	PAR—Watt-Miser Spot (14,56,96)	CC-6	140	...	2000	750

100 WATTS

★PAR-38	Medium Skirted E27/51x39	100PAR/FL/27	220-230 240-250	12	PAR—Clear—Projector Floodlight (14,56,96)	CC-6	140	...	2000	880
		100PAR/SP/27	220-230 240-250	12	PAR—Clear—Projector Spotlight (14,56,96)	CC-6	140	...	2000	880
		100PAR/FL/B/27	220-230	12	PAR—Projector Flood. Silicone Blue (14,56,96)	CC-6	140	...	2000	...
		100PAR/FL/G/27	220-230	12	PAR—Projector Flood. Silicone Green (14,56,96)	CC-6	140	...	2000	...
		100PAR/FL/R/27	220-230	12	PAR—Projector Flood. Silicone Red (14,56,96)	CC-6	140	...	2000	...
		100PAR/FL/Y/27	220-230	12	Projector Flood. Silicone Yellow (14,56,96)	CC-6	140	...	2000	...
		100PAR38/2FL/27*	220-230 240-250	12	PAR—Cool-Beam—Flood. Use only in fixtures specifically approved for Cool-Beam Lamps. (14)	CC-6	140	...	2000	880
		100PAR38/2SP/27*	220-230 240-250	12	PAR—Cool-Beam—Spot. Use only in fixtures specifically approved for Cool-Beam Lamps. (14)	CC-6	140	...	2000	880

120 WATTS

ER-40	Medium E27/27	120ER40/27	220-230 240-250	24	Ellipsoidal Reflector. Light Inside Frosted (4,35,56)	C,CC-9	190	89	2000	1080
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120 WATTS—WATT-MISER™ PAR (Same usable light as 150 PAR)

★PAR-38	Medium Skirted E27/51x39	150PAR/FL/120WM/27	220-230 240-250	12	PAR—Watt-Miser Flood (14,56,96)	CC-6	140	...	2000	1150
		150PAR/SP/120WM/27	220-230 240-250	12	PAR—Watt-Miser Spot (14,56,96)	CC-6	140	...	2000	1150

INTERNATIONAL BASE LAMPS

GENERAL ELECTRIC INCANDESCENT LAMPS

Burning Position—ANY, except as noted.

Bulb	Base	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION (See Incandescent Lamp Footnotes—Page 34)	Filament Design	M. O. L. (mm)	L. C. L. (mm)	Avg. Rated Life (Hours)	Approx. Initial Lumens
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150 WATTS

PAR-38	Medium Skirted E27/51x39	150PAR/SP/27*	24	12	PAR—Projector Spot— Clear (14,56,96)	CC-6	140	...	2000	2100
		150PAR/FL/27*	120	12	PAR—Projector Flood— Clear (14,56,96)	CC-6	140	...	2000	1740
		150PAR/SP/27*	120	12	PAR—Projector Spot— Clear (14,56,96)	CC-6	140	...	2000	1740
		150PAR/FL/27	220-230 240-250	12	PAR—Projector Flood— Clear (14,56,96)	CC-6	140	...	2000	1350
		150PAR/SP/27	220-230 240-250	12	PAR—Projector Spot— Clear (14,56,96)	CC-6	140	...	2000	1350
		150PAR38/2FL/27	220-230 240-250	12	PAR—Cool-Beam—Floodlight. Use only in fixtures specifically approved for Cool-Beam Lamps. (14)	CC-6	140	...	2000	1350
		150PAR38/2SP/27	220-230 240-250	12	PAR—Cool-Beam—Spotlight. Use only in fixtures specifically approved for Cool-Beam lamps. (14)	CC-6	140	...	2000	1350

300 WATTS

★PAR-56	Mogul End Prong	300PAR56/NSP*	220-230 240-250	12	Narrow Spotlight—Stippled, Rounded Cover (11,36,56,59)	C,CC-13	127	...	2000	3450
		300PAR56/MFL*	220-230 240-250	12	Medium Floodlight—Lens Cover (11,36,56,59)	C,CC-13	127	...	2000	3450
		300PAR56/WFL*	220-230 240-250	12	Wide Floodlight—Lens Cover (11,36,56,59)	C,CC-13	127	...	2000	3450
	Extended Mogul End Prong	300PAR56/2MFL	230	12	Cool-Beam. Medium Floodlight— Lens Cover (11,18,56,59)	C,CC-13	146	...	2000	...

500 WATTS

★PAR-64	Extended Mogul End Prong	500PAR64/MFL	230	12	PAR—Medium Floodlight— Lens Cover (11,18,56,59)	C,CC-13	152	...	2000	...
		500PAR64/WFL	230	12	PAR—Wide Floodlight— Lens Cover (11,18,56,59)	C,CC-13	152	...	2000	...

*Made in Canada by Canadian General Electric

GENERAL ELECTRIC HIGH INTENSITY DISCHARGE LAMPS
LUCALOX® HIGH PRESSURE SODIUM LAMPS

For use only with auxiliary equipment designed to produce proper electrical values. For total watts add ballast watts. Actual lamp watts may vary depending on the ballast characteristic curve. Unless otherwise noted, ratings apply to operation in A.C. circuits. Specifications for auxiliary equipment are available from the Fluorescent & High Intensity Systems Department.

Most Lucalox Lamps are available in two finishes—clear glass and Diffuse Coated. The Diffuse coating provides a softer, more uniform brightness than its clear equivalent with no change in color rendition.

Bulb	Base	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	M. O. L. (mm)	L. C. L. (mm)	Average Rated Life	Approx. Lumens (Any Burning Position)	
							(10 Hours Per Start)	Initial	Mean

50 WATTS—UNIVERSAL BURNING

E21	▲E27	LU50/90/27	12	Clear—General Lighting. Lamp Volts: 90	160	105	16000	3400	3060
E21	▲E27	LU50/90/D/27	12	Diffuse—General Lighting. Lamp Volts: 90	160	105	16000	3300	2970

50 WATTS—INTERNAL IGNITOR—UNIVERSAL BURNING

E23½	▲Skirted E27	LU50/90/I/27	12	Clear—General Lighting. Lamp Volts: 90	183	118	12000	3400	3060
E23½	▲Skirted E27	LU50/90/D/I/27	12	Diffuse—General Lighting. Lamp Volts: 90	183	118	12000	3300	2970

70 WATTS—UNIVERSAL BURNING

E23½	▲E40	LU70/40 For use with ANSI specification "S62" HPS ballasts	12	Clear—General Lighting. Lamp Volts: 52	200	130	24000 +	5800	5220
E21	▲E27	LU70/90/27	12	Clear—General Lighting. Lamp Volts: 90	160	105	16000	6000	5400
E21	▲E27	LU70/90/D/27	12	Diffuse—General Lighting. Lamp Volts: 90	160	105	16000	5800	5220

70 WATTS—INTERNAL IGNITOR—UNIVERSAL BURNING

E23½	▲Skirted E27	LU70/90/I/27	12	Clear—General Lighting. Lamp Volts: 90	183	118	12000	6000	5400
E23½	▲Skirted E27	LU70/90/D/I/27	12	Diffuse—General Lighting. Lamp Volts: 90	183	118	12000	5800	5220

100 WATTS—UNIVERSAL BURNING (For use with ANSI specification "S54" High Pressure Sodium ballasts)

E23½	▲E40	LU100/40	12	Clear—General Lighting. Lamp Volts: 55	200	130	24000 +	9500	8550
E23½	▲E40	LU100/D/40	12	Diffuse—General Lighting. Lamp Volts: 55	200	130	24000 +	8800	7920

**125 WATTS—
UNIVERSAL BURNING (For use with ANSI specification "S55" High Pressure Sodium ballasts)**

E28	▲E40	LU125/40	12	Clear—General Lighting. Lamp Volts: 108	232	136	24000 +	12000	10800
E28	▲E40	LU125/D/40	12	Diffuse—General Lighting. Lamp Volts: 108	232	136	24000 +	11400	10260

**150 WATTS—
UNIVERSAL BURNING (For use with ANSI specification "S55" High Pressure Sodium ballasts)**

E23½	▲E40	LU150/55/40	12	Clear—General Lighting. Lamp Volts: 55	201	131	24000 +	16000	14400
E23½	▲E40	LU150/55/D/40	12	Diffuse—General Lighting. Lamp Volts: 55	201	131	24000 +	15000	13500

UNIVERSAL BURNING (For use with ANSI specification "S56" High Pressure Sodium ballasts)

T14½	▲E40	LU150/100/40	12	Clear—General Lighting. Lamp Volts: 100	209	131	24000 +	15000	13500
E28	▲E40	LU150/100/D/40	12	Diffuse—General Lighting. Lamp Volts: 100	215	131	24000 +	14500	13050

LUCALOX® HIGH PRESSURE SODIUM LAMPS (Continued)

Bulb	Base	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	M. O. L. (mm)	L. C. L. (mm)	Average Rated Life	Approx. Lumens (Any Burning Position)	
							(10 Hours Per Start)	Initial	Mean

200 WATTS—UNIVERSAL BURNING (For use with ANSI specification "S66" High Pressure Sodium ballasts)

E18	▲E40	LU200/40	12	Clear—General Lighting. Lamp Volts: 100	251	149	24000 +	22000	19800
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215 WATTS—"E-Z LUX"® LAMPS (For use with approved Mercury ballasts only) (234)

215-watt "E-Z Lux" Lucalox lamps are designed to operate on most H37 250-watt Mercury lamp ballasts, providing the economical advantages of up to 70% more initial light and as much as 14% savings in energy when replacing 250-watt Mercury lamps.

E28	▲E40	LUH215/EZ/40	12	Clear—General Lighting. Lamp Volts: 130. Retrofit	232	132	12000	19000	17100
E28	▲E40	LUH215/D/EZ/40	12	Diffuse—General Lighting. Lamp Volts: 130. Retrofit	232	132	12000	18000	16200

250 WATTS—UNIVERSAL BURNING (For use with ANSI specification "S50" High Pressure Sodium ballasts)

E18	▲E40	LU250/40	12	Clear—General Lighting. Lamp Volts: 100	252	150	24000 +	27500	24750
E28	▲E40	LU250/D/40	12	Diffuse—General Lighting. Lamp Volts: 100	232	136	24000 +	26000	23400
E18	▲E40	LU250/DX/40	12	Clear—General Lighting. Deluxe Color. Lamp Volts: 100	252	150	10000	22500	21400
E18	▲E40	LU250/S/40	12	Clear—General Lighting. Optimum Design. Lamp Volts: 100	252	150	24000 +	30000	27000

400 WATTS—UNIVERSAL BURNING (For use with ANSI specification "S51" High Pressure Sodium ballasts)

E18	▲E40	LU400/40	12	Clear—General Lighting. Lamp Volts: 100	252	150	24000 +	50000	45000
T14½	▲E40	LU400/T/40	12	Clear—General Lighting. Lamp Volts: 100	280	180	24000 +	50000	45000
E37	▲E40	LU400/D/40	6	Diffuse—General Lighting. Lamp Volts: 100	292	182	24000 +	47500	42750

1000 WATTS—UNIVERSAL BURNING (For use with ANSI specification "S52" High Pressure Sodium ballasts)

E25	▲E40	LU1000/40	6	Clear—General Lighting. Lamp Volts: 250	386	224	24000 +	140000	126000
T18	▲E40	LU1000/T18/40	6	Clear—General Lighting. Lamp Volts: 250	382	224	24000 +	140000	126000

GENERAL ELECTRIC HIGH INTENSITY DISCHARGE LAMPS
MULTI-VAPOR® METAL HALIDE LAMPS

General Electric offers a choice of two Multi-Vapor Lamp designs in both 400 and 1000 watt types—the general purpose “**STANDARD LINE**” and the interchangeable “**I-line**” that can operate on most mercury ballasts for upgrading and improving existing mercury lighting systems.

Multi-Vapor is a type of metal halide lamp. These lamps normally exhibit some color variation from lamp to lamp and gradual change in color throughout life. Operating conditions such as burning and normal voltage variations can also effect the color of these lamps.

For use only with auxiliary equipment designed to produce proper electrical values. For total watts add auxiliary watts. Unless otherwise noted, ratings apply to operation in A.C. circuits. Specifications for auxiliary equipment are available from the Fluorescent & High Intensity Systems Department.

NOTE: If the outer glass bulb of any Multi-Vapor Lamp is broken, turn lamp off and remove immediately from the circuit to prevent possible exposure to ultraviolet energy.

Bulb	Base	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION (See High Intensity Discharge Footnotes—Pages 46, 48)	M. O. L. (mm)	L. C. L. (mm)	Average Rated Life	Approx. Lumens	
							(10 Hours Per Start)	Initial	Mean

175 WATTS—STANDARD LINE—UNIVERSAL BURNING POSITION

(For use only with ANSI specification “M57” Metal Halide ballasts)

E-28	▲Mogul E40/45	MVR175/U/40	12	Clear—General Lighting. Burning position: any. ENCLOSED FIXTURES ONLY	216	130	10000 (260)	(Vertical) 14000 10350 (Horizontal) 12000 8300
		MVR175/C/U/40	12	Phosphor Coated—General Lighting. Burning position: any. ENCLOSED FIXTURES ONLY	216	130	10000 (260)	(Vertical) 14000 9950 (Horizontal) 12000 7400

250 WATTS—STANDARD LINE—UNIVERSAL BURNING POSITION

(For use only with ANSI specification “M58” Metal Halide ballasts)

E-28	▲Mogul E40/45	MVR250/U/40	12	Clear—General Lighting. Burning position: any. ENCLOSED FIXTURES ONLY	216	130	10000	(Vertical) 20500 17000 (Horizontal) 19500 14000
		MVR250/C/U/40	12	Phosphor Coated—General Lighting. Burning position: any. ENCLOSED FIXTURES ONLY	216	130	10000	(Vertical) 20500 16000 (Horizontal) 19500 13500

400 WATTS—“I-line PLUS”—UNIVERSAL BURNING POSITION

(For use with approved 400-watt CW/CWA single-lamp Mercury ballasts)

E-37	▲Mogul E40/45	MVR400/I/U/40	6	Clear—General Lighting—“I-line PLUS.” Burning position: any. When operated in positions other than vertical base up or base down $\pm 15^\circ$, use enclosed fixtures only. Can be used on approved mercury ballasts at ambient temperatures above 0°F.	295	182	15000 (239)	(Vertical) 36000 21600 (Horizontal) 32000 18400
		MVR400/C/I/U/40	6	Phosphor Coated—General Lighting. “I-line PLUS.” Burning position: any. When operated in positions other than vertical base up or base down $\pm 15^\circ$, use enclosed fixtures only. Can be used on approved mercury ballasts at ambient temperatures above 0°F.	295	182	15000 (239)	(Vertical) 36000 20900 (Horizontal) 32000 17600

400 WATTS—STANDARD LINE—UNIVERSAL BURNING POSITION

(For use only with ANSI specification “M59” Metal Halide ballasts)

E-37	▲Mogul E40/45	MVR400/U/40	6	Clear—General Lighting. Burning position: any. When operated in positions other than vertical base up or base down $\pm 15^\circ$, use enclosed fixtures only.	295	182	20000 (259)	(Vertical) 36000 27000 (Horizontal) 32000 26600
		MVR400/C/U/40	6	Phosphor Coated—General Lighting. Burning position: any. When operated in positions other than vertical base up or base down $\pm 15^\circ$, use enclosed fixtures only.	295	182	20000 (259)	(Vertical) 36000 25900 (Horizontal) 32000 25550

MULTI-VAPOR® METAL HALIDE LAMPS (Continued)

Bulb	Base	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	M. O. L. (mm)	L. C. L. (mm)	Average Rated Life	Approx. Lumens	
							(10 Hours Per Start)	Initial	Mean

**400 WATTS—HIGH OUTPUT LINE—VERTICAL ± 15° BURNING ONLY
(Use Metal Halide ballast (ANSI spec. "M59"))**

E-37	Mogul E40/45	MVR400/VBU/40	6	Clear—VBU ± 15°	295	182	20000	40000	30000
		MVR400/C/VBU/40	6	Phosphor Coated—VBU ± 15°	295	182	20000	40000	28800
		MVR400/VBD/40	6	Clear—VBD ± 15°	295	182	20000	40000	30000
		MVR400/C/VBD/40	6	Phosphor Coated—VBD ± 15°	295	182	20000	40000	28800

**1000 WATTS—STANDARD LINE—UNIVERSAL BURNING POSITION
(For use with ANSI specification "M47" Metal Halide ballasts†)**

BT-56	▲Mogul E40/45	MVR1000/U/40	6	†Clear—General Lighting. Burning position: any. When operated in positions other than vertical base up or base down ± 15°, use enclosed fixtures only.	385	240	12000	(Vertical) 110000 88000 (Horizontal) 107800 86240	
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† Can also be used with Mercury lag or reactor type ballasts if a minimum 440 open circuit volts is attained. This will provide reliable lamp starting down to 0°F.

GENERAL ELECTRIC HIGH INTENSITY DISCHARGE LAMPS
MERCURY LAMPS

For use only with auxiliary equipment designed to produce proper electrical values. For total watts add auxiliary watts. Unless otherwise noted, ratings apply to operation in A.C. circuits. Specifications for auxiliary equipment are available from the Fluorescent & High Intensity Systems Department.

BURNING POSITION—ANY, except as noted. Published approximate initial and mean lumen ratings apply to lamps operated vertically. When burned horizontally, initial lumens and lumen maintenance will be reduced.

DELUXE WHITE—General Electric Deluxe White Mercury Lamps produce up to 15% more lumens initially and throughout rated life than the obsolete color improved Mercury lamps. In addition to higher light output, GE DeLuxe Mercury Lamps offer much better color rendition than color improved lamps.

NOTE: If the outer glass bulb of any Standard Mercury Lamp is broken, turn lamp off and remove immediately from the circuit to prevent possible exposure to ultraviolet energy.

Bulb	Base	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	M. O. L. (mm)	L. C. L. (mm)	Average Rated Life	Approx. Lumens (Vertical Operation)	
							(10 Hours Per Start)	Initial	Mean ♦

250 WATTS

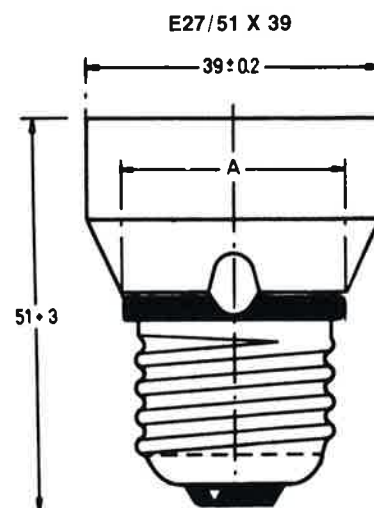
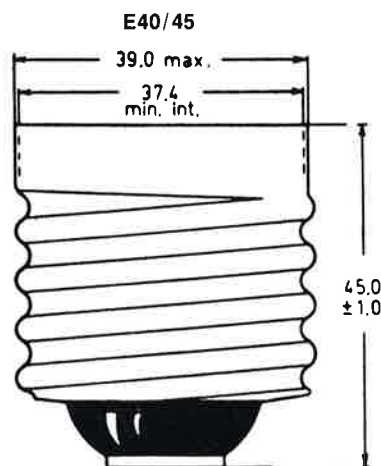
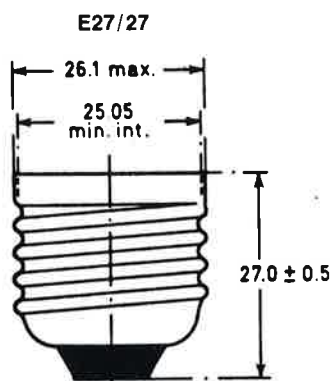
E-28	▲Mogul E40/45	HR250DX37-5/40	12	DeLuxe White	216	130	24000 +	12100	10400
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400 WATTS

E-37	▲Mogul E40/45	HR400DX33-40	6	DeLuxe White	290	182	24000 +	22500	19100
		HR400WDX33-40	6	Warm DeLuxe White	290	182	24000 +	19500	16000

1000 WATTS

BT-56	▲Mogul E40/45	HR1000DX36-40	6	DeLuxe White	385	240	24000 +	63000	47500
		HR1000DX34-40	6	DeLuxe White	385	240	16000	62000	47700

EXPORT BASES AND NOMINAL DIMENSIONS
(ILLUSTRATIONS NOT TO SCALE)


Notes:





TUBULAR QUARTZ HEAT LAMPS

Bases. Most lamps are furnished with metallic sleeve bases with approx. 6" flexible leads — as illustrated above. Others have Recessed Single Contact bases (like Quartzline® lamps) or special bases, as indicated in the "Base" column.

Bulbs are of translucent quartz, except where noted "Clear". Bulb diameter is approx. 3/8" (T-3).

Filaments are all of "C-8" design.

Burning Position. Where noted HORIZ. in the "Description" column, lamps must be operated horizontally for satisfactory performance. Otherwise, they may be operated in **any** position.

Watts	Design Volts	Base	Product Code	Lamp Ordering Code	Volts	Std. Pkg. Qty.	DESCRIPTION and BURNING POSITION LIMITATION, if any	M.O.L. (In.) (111)	Approx. Lighted Length (Inches)	Rated Avg. Life (Hours)
300	120	S/L	39019	QH300T3	115-125	12	▼Infrared	8 ⁹ / ₁₆	4 ⁷ / ₃₂	5000 +
375	120		21337	QH375T3	115-125	12	▼Infrared	8 ¹³ / ₁₆	5	5000 +
		RSC	38893	QH375T3/7	115-125	12	▼Infrared	8 ⁵ / ₈	5	5000 +
500	120	S/L	21782	QH500T3	115-125	12	▼Infrared	8 ¹³ / ₁₆	5	5000 +
			21788	QH500T3/CL	115-125	12	▼Infrared—Clear	8 ¹³ / ₁₆	5	5000 +
		RSC	21787	QH500T3/7	115-125	12	▼Infrared	8 ⁵ / ₈	5	5000 +
800	120	S/L	22156	QH800T3	115-125	12	▼Infrared. HORIZ.	11 ¹⁵ / ₁₆	8	5000 +
1000	208		22355	QH1000T3	200-220	12	▼Infrared. HORIZ.	13 ¹³ / ₁₆	10	5000 +
	240		22357	QH1000T3	230-250	12	▼Infrared. HORIZ.	13 ¹³ / ₁₆	10	5000 +
			22358	QH1000T3/CL	230-250	12	▼Infrared—Clear. HORIZ. (125)	11 ¹⁵ / ₁₆	10	5000 +
			22365	QH1000T3/2CL/HT	230-250	12	Infrared—Clear. Hi-Temp. Constr. HORIZ. (125)	13 ¹³ / ₁₆	10	...
1200	144		22531	QH1200T3/CL	144	12	♣▼Infrared. Clear. HORIZ. (125)	8 ¹³ / ₁₆	6	...
1600	208		22686	QH1600T3	200-220	12	▼Infrared. HORIZ.	19 ¹³ / ₁₆	16	5000 +
	240		22687	QH1600T3	230-250	12	▼Infrared. HORIZ.	19 ¹³ / ₁₆	16	5000 +
	277		22695	QH1600T3	277	12	▼Infrared. HORIZ.	19 ¹³ / ₁₆	16	5000 +
	240		22688	QH1600T3/CL	230-250	12	▼Infrared—Clear. HORIZ.	19 ¹³ / ₁₆	16	5000 +
	208	RSC	22699	QH1600T3/7	200-220	12	▼Infrared. HORIZ.	19 ⁵ / ₈	16	5000 +
	240		22691	QH1600T3/7	230-250	12	▼Infrared. HORIZ.	19 ⁵ / ₈	16	5000 +
2000		S/L	22789	QH2M/T3/1CL/HT	230-250	12	Infrared—Clear. Hi-Temp. Constr. HORIZ. (125)	11 ¹⁵ / ₁₆	9 ³ / ₄	...
			22790	QH2M/T3/CL/HT	230-250	12	Infrared—Clear. Hi-Temp. Constr. HORIZ. (125)	13 ⁷ / ₈	10	...
2500	480		22832	QH2500T3	460-500	12	▼Infrared. HORIZ.	28 ¹³ / ₁₆	25	5000 +
	600		22834	QH2500T3	575-625	12	▼Infrared. HORIZ.	23 ¹³ / ₁₆	25	5000 +
		RSC	22837	QH2500T3/7	460-500	12	▼Infrared. HORIZ.	28 ⁵ / ₈	25	5000 +
		S/L	22838	QH2500T3/CL	460-500	12	▼Infrared—Clear. HORIZ.	28 ¹³ / ₁₆	25	5000 +
			12291	QH2500T3/VB	460-500	12	▼Infrared (123)	28 ¹³ / ₁₆	25	5000 +
3650		Spec. (130)	10872	QH3650T3/5	480	6	▼Infrared. HORIZ	41 ⁵ / ₈	38	5000 +
3800	575	S/L	22875	QH3800T3	550-600	6	▼Infrared. HORIZ.	41 ¹³ / ₁₆	38	5000 +
			22878	QH3800T3/VB	550-600	6	▼Infrared (123)	41 ¹³ / ₁₆	38	5000 +
5000	600		22900	QH5M/T3/1CL/HT	575-625	12	Infrared—Clear. Hi-Temp. Constr. HORIZ. (125)	28 ¹³ / ₁₆	25	...
	960		22902	QH5M/T3/CL	920-1000	6	▼Infrared—Clear. HORIZ.	53 ¹³ / ₁₆	50	5000 +

▼ For use only where seal temperature does not exceed 650°F.

○ "S/L" indicates metallic sleeve bases with approx. 6" flexible leads.
"RSC" indicates Recessed Single Contact bases.

♣ Indicates that while the lamp is of the highest quality in material and workmanship, it has been designed to meet certain purchaser requirements which preclude a guarantee of performance.

111. Flexible leads (where used) not included in max. over-all length.

123. Can be operated in any position, even vertically; however, when burned other than horizontally, the end marked "This End Up" on the sleeve base must be higher than other end of lamp.

125. Generally limited to intermittent burning in special equipment.

130. Ceramic sleeve insulators with approx. 6" flexible stranded nickel leads.



E-17

E-23½

LUCALOX® HIGH PRESSURE SODIUM LAMPS

Lucalox lamps are designed primarily for general lighting applications. Current Lamp Specifications Bulletins for individual lamp types provide further technical data. GE pamphlet #206-7343R3 "Lucalox High-Pressure Sodium Lamps" describes lamp features and briefly tabulates performance ratings. GE booklet #206-31414 "High Intensity Discharge Lamps" contains extensive data on lamp construction, operation, ballasting systems, and applications.

Performance ratings shown are based on lamp testing under controlled conditions on A.C. circuits with auxiliary equipment meeting current published specifications. Lamp performance under typical service conditions may differ somewhat from rated values. All lamp ratings and specifications are subject to change without notice.

OPERATING CHARACTERISTICS AND LIMITATIONS

Ballasts. Lucalox lamps require auxiliary ballast equipment designed to produce proper electrical values. Actual lamp watts may vary depending on ballast characteristics. For total system watts, add nominal ballast watts. Specifications for auxiliary equipment are available from the GE C&I Marketing Department. All Lucalox and E-Z Lux HPS lamps will start at ambient temperatures of -30°C (-22°F) when used on ballasts meeting these specifications.

Protection of Bulbs from Moisture. Outer bulbs of Lucalox lamps are made of glass, designed to have strength and thermal-shock-resistant characteristics suitable for normal applications in typical luminaires. However, shielding of lamps must be provided to avoid bulb breakage that could result from direct contact with liquids (such as water) during operation.

Bulb Finish. Most Lucalox lamps are available in two outer-bulb finishes—Clear and Diffuse—as indicated in the "Description" column. The diffuse-coated bulbs provide a lower, more-uniform lamp brightness than corresponding clear bulbs, with no change in color.

Bases. In the "Base" column, "▲" indicates a brass base; "■" indicates a nickel-plated brass base. The mogul base has impressed letters and numbers representing months and years. By marking the correct letter and the number representing the month and the last digit in the current year, the date of installation can be recorded.

Rated Life. Values are based on laboratory tests of a large number of representative lamps under controlled conditions, including operation at 10 hours per start on ballasts having specified electrical characteristics. Individual lamps or groups of lamps may, of course, vary from the Rated Life shown. Lamp operating conditions can also affect life. Where Rated Life is less than 24,000 hours, it is a median value of life expectancy—that is, the total operating time at which, under normal operating conditions, 50% of any large group of initially installed lamps are expected to be still burning. Where Rated Life is 24,000 + hours, 67% of lamps are expected to be still burning at 24,000 hours. For cost-of-light calculations involving these lamps, if an estimated operating time is required at which 50% of the lamps will still be burning, a value of 28,500 hours is suggested. At burning cycles shorter than 10 hours per start, the median life will be shortened: 5 hrs/st—approx. life 75% of rating; 2½ hrs/st—approx. life 56% of rating; 1¼ hrs/st—approx. life 42% of rating.

Approx. Lumens. "Initial Lumen" ratings are averages based on photometry at rated lamp watts after 100 hours of operation. Zero-hour lumens may be as much as 7% lower. "Mean Lumen" ratings are averages based on photometry at rated lamp watts, at 50% of Rated Life, for lamps operated 10 or more burning hours per start on typical commercial ballasts.

On most commercial ballasts, lamp watts initially increase, reach a peak sometime during life, then slowly decrease. Therefore, system light output may actually rise somewhat during early life and fall later. During rated life on typical commercial ballasts, mean lamp lumens and lamp watts will average close to their rated values. (Does not apply to E-Z Lux® lamps.)

Burning Position. All Lucalox and E-Z Lux lamps can be operated in ANY position.

Start Characteristic. Full light output does not occur immediately when power is applied. Instead, there is a delay of from 3-4 minutes to reach 90% total light output.

Restart Characteristic. With a power interruption of ½ cycle or more the arc will extinguish. When power is immediately reapplied, full light output does not occur immediately. There is a delay of 1 minute to reach 90% total light output.

The restart time applies to all Lucalox except the LU1000 that requires 2 minutes and the E-Z Lux lamps that require 3 minutes to reach 90% total light output.

End-of-Life (EOL) Characteristic. Lucalox lamp voltage slowly rises throughout lamp life. When the lamp voltage exceeds that available from the ballast, the lamp is at EOL. This time is visually shown when the lamp starts, warms up, turns off, then restarts, etc. This cycling on and off shows the lamp voltage exceeds the voltage available from the ballasts and that the lamp is at EOL. Cycling on and off is the most common failure mode for high pressure sodium lamps.

Bulb	Base	Product Code	Lamp Ordering Code	ANSI Code (Reference Only)	Std. Pkg. Qty.	DESCRIPTION	M. O. L. (In.)	L. C. L. (In.)	Rated Life (Hours)	Approx. Lumens (Any Burning Position)	
										Initial	Mean

35 WATTS—Use only on High Pressure Sodium ballasts (ANSI spec. "S76")

E-17	▲Medium†	11668	LU35/MED	S76HA-35	6	Clear	5 ⁷ / ₁₆	3 ⁷ / ₁₆	16000	2250	2025
		11669	LU35/D/MED	S76HB-35	6	Diffuse	5 ⁷ / ₁₆	3 ⁷ / ₁₆	16000	2150	1935
		14109	LU35/D/MED 5PK	S76HB-35	5	Diffuse—Retail Pack	5 ⁷ / ₁₆	3 ⁷ / ₁₆	16000	2150	1935

50 WATTS—Use only on High Pressure Sodium ballasts (ANSI spec. "S68")

E-23½	▲Mogul	44975	LU50	S68MS-50	12	Clear	7 ³ / ₄	5	24000 +	4000	3600
		45006	LU50/D	S68MT-50	12	Diffuse	7 ³ / ₄	5	24000 +	3800	3420
E-17	▲Medium†	11345	LU50/MED	S68XX-50	6	Clear	5 ⁷ / ₁₆	3 ⁷ / ₁₆	24000 +	4000	3600
		11347	LU50/D/MED	S68YY-50	6	Diffuse	5 ⁷ / ₁₆	3 ⁷ / ₁₆	24000 +	3800	3420

† Medium socket must be rated for 4KV pulse.



LUCALOX® HIGH PRESSURE SODIUM LAMPS

E-17

E-23½

E-28

E-18

E-37

E-25

LUCALOX® HIGH PRESSURE SODIUM LAMPS

Bulb	Base	Product Code	Lamp Ordering Code	ANSI Code (Reference Only)	Std. Pkg. Qty.	DESCRIPTION	M. O. L. (In.)	L. C. L. (In.)	Rated Life (Hours)	Approx. Lumens (Any Burning Position)	
										Initial	Mean

70 WATTS—Use only on High Pressure Sodium ballasts (ANSI spec. "S62")

E-23½	▲Mogul	44033	LU70	S62ME-70	12	Clear	7¾	5	24000 +	5800	5220
		44035	LU70/D	S62MF-70	12	Diffuse	7¾	5	24000 +	5400	4860
		14110	LU70/D 5PK	S62MF-70	5	Diffuse—Retail Pack	7¾	5	24000 +	5400	4860
E-17	▲Medium‡	11339	LU70/MED	S62LG-70	6	Clear	5⅞	3⅞	24000 +	5800	5220
		11340	LU70/D/MED	S62LH-70	6	Diffuse	5⅞	3⅞	24000 +	5400	4860

100 WATTS—Use only on High Pressure Sodium ballasts (ANSI spec. "S54")

E-23½	▲Mogul	44037	LU100	S54SB-100	12	Clear	7¾	5	24000 +	9500	8550
		44038	LU100/D	S54MC-100	12	Diffuse	7¾	5	24000 +	8800	7920
E-17	▲Medium‡	13250	LU100/MED	S54SG-100	6	Clear	5⅞	3⅞	24000 +	9500	8550
		13251	LU100/D/MED	S54SH-100	6	Diffuse	5⅞	3⅞	24000 +	8800	7920

150 WATTS—Use only on High Pressure Sodium ballasts (ANSI spec. "S55")

E-23½	▲Mogul	44043	LU150/55♦	S55SC-150	12	Clear	7¾	5	24000 +	16000	14400
		44045	LU150/55/D♦	S55MD-150	12	Diffuse	7¾	5	24000 +	15000	13500
E-17	▲Medium‡	13252	LU150/MED	...	6	Clear	5¾	3½	24000 +	16000	14400
		13253	LU150/D/MED	...	6	Diffuse	5¾	3½	24000 +	15000	13500

150 WATTS—Use only on High Pressure Sodium ballasts (ANSI spec. "S56")

E-28	▲Mogul	44243	LU150/100♦	S56SD-150	12	Clear	8⅝	5	24000 +	15000	13500
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200 WATTS—Use only on High Pressure Sodium ballasts (ANSI spec. "S66")

E-18	▲Mogul	44206	LU200	S66MN-200	12	Clear	9¾	5¾	24000 +	22000	19800
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250 WATTS—Use only on High Pressure Sodium ballasts (ANSI spec. "S50")

E-18	▲Mogul	44047	LU250	S50VA-250	12	Clear	9¾	5¾	24000 +	27500	24750
		44049	LU250/S	S50VA-250/S	12	Clear—Superior Performance	9¾	5¾	24000 +	30000	27000
E-28		44051	LU250/D	S50VC-250	12	Diffuse	9	5	24000 +	26000	23400
E-18		11785	LU250/DX	S50VA-250/DX	12	Clear—DeLuxe Color.	9¾	5¾	10000	22500	20700

310 WATTS—Use only on High Pressure Sodium ballasts (ANSI spec. "S67")

E-18	▲Mogul	44053	LU310	S67MR-310	12	Clear	9¾	5¾	24000 +	37000	33300
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400 WATTS—Use only on High Pressure Sodium ballasts (ANSI spec. "S51")

E-18	▲Mogul	44054	LU400	S51WA-400	12	Clear	9¾	5¾	24000 +	50000	45000
E-37		44056	LU400/D	S51WB-400	6	Diffuse	11⅝	7	24000 +	47500	42750

1000 WATTS—Use only on High Pressure Sodium ballasts (ANSI spec. "S52")

E-25	■Mogul	44058	LU1000	S52XB-1000	6	Clear	15⅞	8¾	24000 +	140000	126000
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‡ Medium socket must be rated for 4KV pulse.

♦ LU150/55 and LU150/55/D lamps are **not** interchangeable with LU150/100 lamps.



E-28

E-Z LUX® LAMPS—Use as direct replacements for mercury lamps on mercury ballasts as noted—for reduced energy consumption and increased light levels.

Bulb	Base	Product Code	Lamp Ordering Code	ANSI Code (Reference Only)	Std. Pkg. Qty.	DESCRIPTION	M. O. L. (In.)	L. C. L. (In.)	Rated Life (Hours)	Approx. Lumens (Any Burning Position)	
										Initial	Mean

150 WATTS—E-Z LUX LAMPS—(Use ONLY with these types of “H-39” 175W mercury ballasts: high-reactance lag-type autotransformer; 240V or 277V reactor. DO NOT USE with CW (lead-type) or CWA ballasts.)

When used as noted here for direct replacement of 175W mercury lamps, 150W E-Z LUX lamps save about 40 watts per socket while delivering 35% more light, averaged throughout their rated life.

E-28	▲Mogul	49943	LUH150/EZ	S63MG-150	12	Clear (215)	9	5	12000	12000	10800
		49938	LUH150/D/EZ	S63MH-150	12	Diffuse (215)	9	5	12000	11000	9900

215 WATTS—E-Z LUX LAMPS—(Use ONLY with these types of “H-37” 250W mercury ballasts: high-reactance lag-type autotransformer; 240V or 277V reactor type meeting current ANSI H37 ballast specs. DO NOT USE with CW (lead-type) or CWA ballasts.)

When used as noted here for direct replacement of 250W mercury lamps, 215W E-Z LUX lamps save about 65 watts per socket while delivering 65% more light, averaged throughout their rated life.

E-28	▲Mogul	49939	LUH215/EZ	S65ML-215	12	Clear (215)	9	5	12000	19000	17100
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215. On suitable mercury ballasts, lamp wattage will slowly drop as the lamp ages.

MULTI-VAPOR® METAL HALIDE LAMPS (including MULTI-VAPOR II® and SAF-T-GARD® lamps)

Certified to meet Federal Standard 21 CFR 1040.

Multi-Vapor lamps are designed primarily for general lighting applications, except as noted. Current Lamp Specification Bulletins for individual lamp types provide further technical data. GE booklet #206-31414 “High Intensity Discharge Lamps” contains extensive data on lamp construction, operation, ballasting systems, and applications.

Performance ratings shown are based on lamp testing under controlled conditions on A.C. circuits with auxiliary equipment meeting current published specifications. Lamp performance under typical service conditions may differ somewhat from rated values. All lamp ratings and specifications are subject to change without notice.

MULTI-VAPOR lamps are offered in three basic lines, or families (further described in GE Multi-Vapor Lamp Bulletin #206-0194R1):

STANDARD LINE MULTI-VAPOR—general purpose lamps of 175, 250, 400 and 1000 watts, for use in any burning position, on metal-halide ballasts.

HIGH OUTPUT LINE MULTI-VAPOR—lamps of 400 and 1000 watts, which should be specified where higher light output is desired and lamps are to be operated in a near vertical position on metal halide ballasts. Also, 1500-watt High-Output lamps that provide the highest light output of all GE H.I.D. lamps, for sports floodlighting and other applications where their shorter life is acceptable.

INTERCHANGEABLE-LINE (“I-line”) MULTI-VAPOR—lamps of 325, 400 and 950-watt nominal ratings, for direct replacement of mercury lamps on many mercury ballasts, to provide higher lighting levels and reduced cost-of-light in existing mercury installations. The 325W Watt-Miser® lamps also provide substantial reductions in lighting energy costs, when used in place of 400W mercury lamps.

MULTI-VAPOR II lamps are a new family of high-performance metal-halide lamps. They feature higher lumens-per-watt and lumen maintenance; more consistent color; warmer, incandescent-like appearance—and generally lower cost-of-light—than other metal-halide or mercury lamps of equal wattage.

IMPORTANT NOTICE: In accordance with Federal Standard 21 CFR 1040.30, the following notice applies to the Multi-Vapor and Multi-Vapor II lamps described above (those having Ordering Codes beginning with the letters “MVR...” or “MXR...”):

“WARNING: This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if outer envelope of the lamp is broken or punctured, and the arc tube continues to operate. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available from General Electric Company. These are the self-extinguishing SAF-T-GARD® Mercury and Multi-Vapor lamps” (See page 50 for SAF-T-GARD Multi-Vapor lamps.)



MULTI-VAPOR® METAL HALIDE LAMPS (including MULTI-VAPOR II® and SAF-T-GARD® lamps) (Continued)

OPERATING CHARACTERISTICS AND LIMITATIONS—ALL MULTI-VAPOR LAMPS

Ballasts. Multi-Vapor lamps require auxiliary ballast equipment designed to produce proper electrical values. Actual lamp watts may vary depending on ballast characteristics. For total system watts, add nominal ballast watts. Specifications for auxiliary equipment are available from the GE C&I Marketing Department. All Multi-Vapor lamps, except I-line, will start at ambient temperatures of -30°C (-22°F) when used on ballasts meeting these specifications. I-line Multi-Vapor will start at ambient temperatures of -15°C (5°F) when used on approved mercury ballasts.

Protection of Bulbs from Moisture. Outer bulbs of Multi-Vapor lamps are made of glass, designed to have strength and thermal-shock-resistant characteristics suitable for normal applications in typical luminaires. However, shielding of lamps must be provided to avoid bulb breakage that could result from direct contact with liquids (such as water) during operation.

Bulb Finish. Most Multi-Vapor lamps are available in two outer-bulb finishes—Clear and Phosphor-coated—as indicated in the "Description" column. Clear lamps are recommended for maximum light output, good color, and where good optical control is important. Phosphor-coated lamps are recommended for even better color rendition with a slightly "warmer" appearance; or where a lower, more-uniform lamp brightness and resultant softening of shadows and reflected highlights is desired. Multi-Vapor II lamps have either a Clear or Diffuse outer-bulb finish. The diffuse-coated bulbs provide a lower, more uniform lamp brightness than corresponding clear bulbs, with no change in color.

Color Variation. In common with other metal-halide lamps, Multi-Vapor lamps normally exhibit some color variation from lamp to lamp and gradual change in color throughout life. Operating conditions such as burning position and normal variations in supply voltage or ballast characteristics can also affect lamp color as well as light output. For all Multi-Vapor lamps except the MXR175 the gradual change in color throughout life is toward a lower color temperature; for the MXR175 the change is toward a higher color temperature.

Bases. In the "Base" column, "▲" indicates a brass base; "■" indicates a nickel-plated brass base. The mogul base has impressed letters and numbers representing months and years. By marking the correct letter and the number representing the month and the last digit in the current year, the date of installation can be recorded.

Rated Life. Values are based on laboratory tests of large numbers of representative lamps under controlled conditions, including vertical operation at 10 hours per start (except as noted), on ballasts having specified electrical characteristics. Individual lamps or groups of lamps may, of course, vary from the Rated Life shown. Lamp operating conditions can also affect life. Rated Life is a median value of life expectancy—that is, the total operating time at which, under normal operating conditions, 50% of any large group of initially installed lamps are expected to be still burning. At burning cycles shorter than 10 hours per start, the median life will be shortened: 5 hrs/st—approx. life 75%; 2½ hrs/st—approx. life 56% of rating; 1¼ hrs/st—approx. life 42% of rating.

Approx. Lumens. "Initial Lumen" ratings are averages based on photometry at rated lamp watts after 100 hours of operation. Zero-hour lumens may be as much as 20% higher. "Mean Lumen" ratings for metal-halide lamps are averages based on photometry at rated lamp watts, at 40% of Rated Life, for lamps operated on typical commercial ballasts at 10 burning hours per start (except as noted). All shown lumens are measured in vertical burning position (except as noted).

On commercial metal-halide ballasts, Multi-Vapor lamp wattage tends to rise slightly throughout life. Therefore, **actual** mean lumens delivered by lamps **in service** on typical commercial ballasts are higher than **rated** mean lumens. For 400W Standard-Line and High-Output Line lamps, the Mean Lumens shown are for lamps in service on typical commercial ballasts, and Mean Lumens at rated lamp watts are given in a footnote.

When Multi-Vapor lamps are operated in off-vertical burning positions, both Initial and Mean Lumens will be lower than the rated vertical operation lumen values shown. (See individual Lamp Specification Bulletins for details.)

Burning Position: Standard-Line Multi-Vapor plus 325W and 400W "I-line" Multi-Vapor lamps may be operated in any position. Other types are subject to limitations on burning position, as shown by the following notations in the "Description" column: VBU $\pm 15^{\circ}$ — Base-up, within 15° of vertical
VBD $\pm 15^{\circ}$ — Base-down, within 15° of vertical

Starting Characteristics: Full light output does not occur immediately when power is applied to a cold lamp. Instead, there is a time delay of from 2 to 4 minutes before the lamp reaches 90% full light output.

Restarting Characteristics: When there is a power interruption of ½ cycle or more, Multi-Vapor lamps will extinguish and will not immediately restart when power is reapplied. For all Multi-Vapor lamps, except the MXR175, when power is immediately reapplied, there will be a delay of 10 to 15 minutes before the lamps reach the 90% light output level. For MXR175 lamps, if the power is off less than 10 minutes they will reach 90% light output in 5 to 10 minutes, if the power is off more than 10 minutes but less than 45 minutes, they will reach 90% light output in 20 to 45 minutes.

End-of Life (EOL) Characteristic. Metal halide (including Multi-Vapor®) lamps do have an EOL Characteristic such that sometimes they fail in a non-passive manner. This occurs primarily when the lamps are oriented in an off-vertical burning position of more than 15° for the 325-, 400-, 950- and 1000-watt lamps and in any burning position for the 175-, 250- and 1500-watt lamps. Therefore, these lamps should be used only in enclosed-type lighting fixtures. Each individual wattage heading includes an ENCLOSED FIXTURE ONLY recommendation for those Multi-Vapor lamps having a non-passive EOL characteristic.



E-23½



E-28



E-37



BT-56



MULTI-VAPOR® II LAMPS

Bulb	Base	Product Code	Lamp Ordering Code	ANSI Code (Reference Only)	Std. Pkg. Qty.	DESCRIPTION and BURNING POSITION LIMITATION	M. O. L. (In.)	L. C. L. (In.)	Rated Life (Hours)	Approx. Lumens (Vertical Operation)	
										Initial	Mean

175 WATTS—MULTI-VAPOR II—ENCLOSED FIXTURES ONLY—VERTICAL ± 15° BURNING ONLY. Use Metal Halide ballast (ANSI spec. "M57").

WARNING—DO NOT USE IN EXPLOSION PROOF OR HAZARDOUS DUTY FIXTURES BECAUSE MULTI-VAPOR II LAMPS HAVE HIGHER BULB TEMPERATURES THAN STANDARD 175-WATT METAL HALIDE LAMPS AND MAY EXCEED THE TEMPERATURE RATING OF THESE FIXTURE TYPES.

This family of high-performance metal halide lamps features higher lumens-per-watt and lumen maintenance; more consistent color; warmer, incandescent-like appearance—and generally provides lower cost-of-light—than other metal halide or mercury lamps of equal wattage. However, a momentary shift to pastel pink color may infrequently occur as this lamp stabilizes during operation.

E-23½	▲Mogul	11417	MXR175/BU	M57PE-R175/XBU	6	Clear—VBU ± 15° (277)	7¾	5	10000	16600	13300
		11203	MXR175/C/BU	M57PF-R175/XBU	6	Diffuse Coated—VBU ± 15° (277)	7¾	5	10000§	15750	12150§
		11420	MXR175/BD	M57PE-R175/XBD	6	Clear—VBD ± 15° (277)	7¾	5	10000	16600	13300
		11418	MXR175/C/BD	M57PF-R175/XBD	6	Diffuse Coated—VBD ± 15° (277)	7¾	5	10000§	15750	12150§

STANDARD-LINE MULTI-VAPOR® LAMPS—ANY BURNING POSITION

Bulb	Base	Product Code	Lamp Ordering Code	ANSI Code (Reference Only)	Std. Pkg. Qty.	DESCRIPTION	M. O. L. (In.)	L. C. L. (In.)	Rated Life (Hours)	Approx. Lumens (Vertical Operation)	
										Initial	Mean

175 WATTS—MULTI-VAPOR—ENCLOSED FIXTURES ONLY. Use Metal Halide ballast (ANSI spec. "M57").

E-28	▲Mogul	47760	MVR175/U	M57PE-R175/U	12	Clear (260)	8¾	5	10000	14000	10350
		47761	MVR175/C/U	M57PF-R175/U	12	Phosphor Coated (260)	8¾	5	10000	14000	9950

250 WATTS—MULTI-VAPOR—ENCLOSED FIXTURES ONLY. Use Metal Halide ballast (ANSI spec. "M58").

E-28	▲Mogul	42729	MVR250/U	M58PG-R250/U	12	Clear	8¾	5	10000	20500	17000
		42731	MVR250/C/U	M58PH-R250/U	12	Phosphor Coated	8¾	5	10000	20500	16000

400 WATTS—MULTI-VAPOR—In burning positions other than vertical base-up or base-down ± 15°, use in enclosed fixtures only. Use Metal Halide ballast (ANSI spec. "M59").

E-37	▲Mogul	43828	MVR400/U	M59PJ-R400/U	6	Clear (259)	11⅝	7	20000	36000	28800◇
		43829	MVR400/C/U	M59PK-R400/U	6	Phosphor Coated (259)	11⅝	7	20000	36000	27700◇

1000 WATTS —MULTI-VAPOR—In burning positions other than vertical base-up or base-down ± 15°, use in enclosed fixtures only. Use Metal Halide ballast (ANSI spec. "M47").††

BT-56	▲Mogul	41826	MVR1000/U	M47PA-R1000/U	6	Clear	15⅞	9½	12000	110000	88000
		41827	MVR1000/C/U	M47PB-R1000/U	6	Phosphor Coated	15⅞	9½	12000	105000	79800

• See page 47 for definition of "Rated Life".

§ Tentative values.

†† Can also be used on mercury lag or reactor type ballasts with 440-volt minimum open-circuit voltage. This will provide reliable starting above 0° F. Lamps will typically operate at 970 watts, 109200 initial lumens and 87350 mean lumens.

259. Life shown is for vertical ± 30° operation. All other burning positions: 15,000 hours.

260. Life shown is for vertical ± 30° operation. All other burning positions: 6000 hours.

277. For use only in 175-watt metal halide luminaires that do not exceed maximum temperatures of (1) 160°C at the point where metallic base meets the heat resistant collar and (2) 245°C on the solder button of the plastic collar for this lamp. Contact your lighting fixture manufacturer or GE Lamp Representative for further information.

◇ Mean Lumens shown above are for lamps in service on typical commercial metal halide ballasts. Mean Lumens at rated lamp watts:

MVR400/U — 27000

MVR400/C/U — 25900



E-37



BT-56



HIGH-OUTPUT LINE MULTI-VAPOR® LAMPS

400 and 1000-watt lamps providing higher light output than the Standard Line Multi-Vapor lamps, for use where lamp operating position is near-vertical. Also, 1500-watt lamps providing very high light output for sports floodlighting or other uses where their shorter average life is acceptable.

Bulb	Base	Product Code	Lamp Ordering Code	ANSI Code (Reference Only)	Std. Pkg. Qty.	DESCRIPTION and BURNING POSITION LIMITATION	M. O. L. (In.)	L. C. L. (In.)	Rated Life (Hours)	Approx. Lumens (Vertical Operation) (H = Horiz. Operation)	
										Initial	Mean

400 WATTS—HIGH OUTPUT LINE—VERTICAL $\pm 15^\circ$ BURNING ONLY. Use Metal Halide ballast (ANSI spec. "M59")

E-37	▲ Mogul	49657	MVR400/VBU	M59PJ-R400/VBU	6	Clear—VBU $\pm 15^\circ$	11 ⁵ / ₁₆	7	20000	40000	32000 ◇
		49656	MVR400/C/VBU	M59PK-R400/VBU	6	Phosphor Coated—VBU $\pm 15^\circ$	11 ⁵ / ₁₆	7	20000	40000	31000 ◇
		49655	MVR400/VBD	M59PJ-R400/VBD	6	Clear—VBD $\pm 15^\circ$	11 ⁵ / ₁₆	7	20000	40000	32000 ◇
		49658	MVR400/C/VBD	M59PK-R400/VBD	6	Phosphor Coated—VBD $\pm 15^\circ$	11 ⁵ / ₁₆	7	20000	40000	31000 ◇

1000 WATTS—HIGH OUTPUT LINE—VERTICAL $\pm 15^\circ$ BURNING ONLY. Metal Halide ballast (ANSI spec. "M47")††

BT-56	☞ Mogul	44835	MVR1000/VBU	M47PA-R1000/VBU	6	Clear—VBU $\pm 15^\circ$	15 ¹ / ₁₆	9 ¹ / ₂	12000	115000	92000
		10390	MVR1000/VBD	M47PA-R1000/VBD	6	Clear—VBD $\pm 15^\circ$	15 ¹ / ₁₆	9 ¹ / ₂	12000	115000	92000

1500 WATTS—HIGH OUTPUT LINE—ENCLOSED FIXTURES ONLY. Use Metal Halide ballast (ANSI spec. "M48")‡‡

BT-56	▲ Mogul	37405	MVR1500/HBU/E	M48PC-R1500/HBU	6	Clear—BASE UP TO 15° BELOW HORIZ. (206,250)	15 ¹ / ₁₆	9 ¹ / ₂	3000	155000 H150000	140000 H135000
		37406	MVR1500/HBD/E	M48PC-R1500/HBD	6	Clear—BASE DOWN TO 15° ABOVE HORIZ. (206,250)	15 ¹ / ₁₆	9 ¹ / ₂	3000	155000 H150000	140000 H135000

• See page 47 for definition of "Rated Life".

†† Can also be used on mercury lag or reactor type ballasts with 440-volt minimum open-circuit voltage. This will provide reliable starting above 0°F . Lamps will typically operate at 970 watts, 109200 initial lumens and 87350 mean lumens.

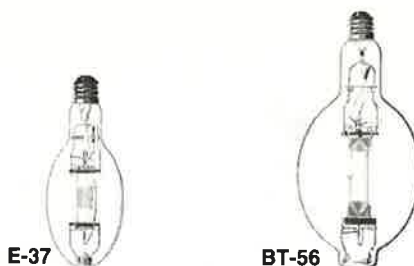
‡‡ Can also be used on 1500W mercury lag ballasts with 440-volt minimum open-circuit voltage. This will provide reliable lamp starting above 50°F .

206. Mean Lumens and Rated Life based on 5 or more burning hours per start.

250. Approximate lumen ratings at 45° burning position: Initial—145,000; Mean—130,500.

◇ Mean Lumens shown above are for lamps in service on typical commercial metal halide ballasts. Mean Lumens at rated lamp watts:

MVR400/VBU—30000	MVR400/C/VBU—28800
MVR400/VBD—30000	MVR400/C/VBD—28800



"I-line" MULTI-VAPOR® LAMPS

For direct replacement of 400 and 1000-watt mercury lamps on many mercury ballasts, to provide higher lighting levels and reduced cost-of-light in existing mercury installations.

Bulb	Base	Product Code	Lamp Ordering Code	ANSI Code (Reference Only)	Std. Pkg. Qty.	DESCRIPTION and BURNING POSITION LIMITATION	M. O. L. (In.)	L. C. L. (In.)	Rated Life (Hours)	Approx. Lumens (Vertical Operation)	
										Initial	Mean

325 WATTS—WATT-MISER®—"I-line" — For use as direct replacement for 400W mercury lamps on most ♦ 400W mercury ballasts. Reduce electrical energy costs about 15% (on electrical power savings of about 70 watts per lamp, including ballast losses). Increase average maintained light levels by 38% (phosphor-coated lamps) or 42% (clear lamps).

BURN ANY POSITION, but in positions other than vertical base-up or base-down ± 15°, use in enclosed fixtures only. Use **only** on approved ♦ 400W CW/CWA single-lamp mercury ballasts, without peaking capacitors, at ambient temperatures above 0°F.

E-37	▲Mogul	10687	MVR325/I/U/WM	...	6	WATT-MISER® — Clear (239)	11 ⁵ / ₁₆	7	20000	28000	18200*
		10688	MVR325/C/I/U/WM	...	6	WATT-MISER® — Phosphor Coated (239)	11 ⁵ / ₁₆	7	20000	28000	17600*

400 WATTS—"I-line" — **BURN ANY POSITION**, but in positions other than vertical base-up or base-down ± 15°, use in enclosed fixtures only. Use on approved ♦ 400W CW/CWA single-lamp mercury ballasts, without peaking capacitors, at ambient temperatures above 0°F. (Will also operate on ANSI Spec. "M59" metal-halide ballasts).

E-37	▲Mogul	43817	MVR400/I/U	M59PJ-R400/I/U	6	Clear (239)	11 ⁵ / ₁₆	7	15000	36000	21600*
		43818	MVR400/C/I/U	M59PK-R400/I/U	6	Phosphor Coated (239)	11 ⁵ / ₁₆	7	15000	36000	20700*

950 WATTS‡—"I-line" — For use as direct replacement for 1000W mercury lamps on most ♦ 1000W mercury ballasts. Reduce system wattage by about 50 watts per socket (CW/CWA ballasts) or 25 watts per socket (lag ballasts), while more than doubling the average maintained light level.

VERTICAL ± 15° BURNING ONLY. Use on approved ♦ 1000W mercury ballasts, at ambient temperatures above -20°F. (Will also operate on ANSI Spec. "M47" metal-halide ballasts.)

BT-56	▲Mogul	39097	MVR950/I/VBU	...	6	Clear—VBU ± 15° (236)	15 ⁵ / ₁₆	9 ¹ / ₂	12000	107000	85600
		42789	MVR950/I/VBD	...	6	Clear—VBD ± 15° (236)	15 ⁵ / ₁₆	9 ¹ / ₂	12000	107000	85600

SAF-T-GARD® MULTI-VAPOR® LAMPS ("I-line" AND HIGH-OUTPUT LINE)

SAF-T-GARD MULTI-VAPOR self-extinguishing lamps include a special construction feature designed to prevent exposure of people to harmful ultraviolet energy in case the outer glass bulb of the lamp is broken or punctured. SAF-T-GARD lamps have an internal device that automatically disconnects the electrical supply to the arc tube within 15 minutes after breakage during operation, thus turning off the lamp. SAF-T-GARD lamps are certified to meet Federal Standard 21 CFR 1040.

Ordering Codes for SAF-T-GARD Multi-Vapor lamps all begin with the letters "MVT...". Life and/or lumen ratings for SAF-T-GARD lamps are generally somewhat lower than for corresponding Multi-Vapor lamps with "regular" construction.

CAUTION: If the outer glass envelope of a SAF-T-GARD lamp is broken, although the arc tube will have self-extinguished, its supporting structure will still be electrically connected. Be sure power is OFF and the lamp has cooled before removing, to avoid possible electrical shock from contact with the arc tube support or burn from the hot arc tube.

Bulb	Base	Product Code	Lamp Ordering Code	ANSI Code (Reference Only)	Std. Pkg. Qty.	DESCRIPTION	M. O. L. (In.)	L. C. L. (In.)	Rated Life (Hours)	Approx. Lumens (Vertical Operation)	
										Initial	Mean

325 WATTS—SAF-T-GARD®—WATT-MISER®—"I-line" — For use as direct replacement for 400W mercury lamps on most ♦ 400W mercury ballasts. Reduce electrical energy costs about 15% (on electrical power savings of about 70 watts per lamp, including ballast losses). Increase average maintained light levels by 47% (phosphor-coated lamps) or 52% (clear lamps) vs. 400W SAF-T-GARD mercury lamps.

BURN ANY POSITION, but in positions other than vertical base-up or base-down ± 15°, use in enclosed fixtures only. Use **ONLY** on approved ♦ 400W CW/CWA single-lamp mercury ballasts, without peaking capacitors, at ambient temperatures above 0°F.

E-37	■Mogul	11148	MVT325/I/U/WM	...	6	WATT-MISER® — Clear (239)	11 ⁵ / ₁₆	7	15000	26700	17350*
		11149	MVT325/C/I/U/WM	...	6	WATT-MISER® — Phosphor Coated (239)	11 ⁵ / ₁₆	7	15000	26700	16800*

• See page 47 for definition of "Rated Life."

♦ See "Mercury Ballast Compatibility List for GE I-line Multi-Vapor Lamps" Form #206-169.

‡ Former Ordering Codes: MVR1000/BU/I and MVR1000/BD/I.

* On approved CW/CWA Mercury ballasts at 10 hrs. per start.

236. Data shown are for operation on typical CW/CWA mercury ballasts. On lag-type mercury ballasts: approx. Initial Lumens 109,200; Mean Lumens 87,350; lamp wattage approx. 970 watts. On "M47" metal halide ballasts: approx. Initial Lumens 115,000; Mean Lumens 92,000; lamp wattage approx. 1000W.

239. Life shown is for vertical ± 30° operation. All other burning positions: 10,000 hours.



MULTI-VAPOR® METAL HALIDE LAMPS

E-37



BT-56



SAF-T-GARD® MULTI-VAPOR® LAMPS ("I-line" AND HIGH-OUTPUT LINE) (Continued)

Bulb	Base	Product Code	Lamp Ordering Code	ANSI Code (Reference Only)	Std. Pkg. Qty.	DESCRIPTION and BURNING POSITION LIMITATION	M. O. L. (In.)	L. C. L. (In.)	Rated Life (Hours)	Approx. Lumens (Vertical Operation)	
										Initial	Mean

400 WATTS—SAF-T-GARD®—"I-line"—BURN ANY POSITION, but in positions other than vertical base-up or base-down $\pm 15^\circ$, use in enclosed fixtures only. Use on approved $\blacklozenge$ 400W CW/CWA single-lamp mercury ballasts, without peaking capacitors, at ambient temperatures above 0°F . (Will also operate on ANSI Spec. "M59" metal-halide ballasts).

E-37	■ Mogul	11146	MVT400/I/U	M59PJ-T400/I/U	6	Clear (239)	$11\frac{5}{16}$	7	15000	34300	20600*
		11119	MVT400/C/I/U	M59PK-T400/I/U	6	Phosphor Coated (239)	$11\frac{5}{16}$	7	15000	34300	19750*

SAF-T-GARD® HIGH-OUTPUT LINE MULTI-VAPOR® LAMPS

These lamps may be used in place of either Standard Line or High-Output line "regular" Multi-Vapor lamps, in base-up installations where the self-extinguishing feature of SAF-T-GARD lamps is required.

400 WATTS—SAF-T-GARD®—HIGH-OUTPUT LINE—VERTICAL BASE-UP $\pm 15^\circ$ BURNING ONLY.
Use Metal-Halide ballast (ANSI spec. "M59")

E-37	■ Mogul	11144	MVT400/VBU	M59PJ-T400/VBU	6	Clear—VBU $\pm 15^\circ$	$11\frac{5}{16}$	7	20000	37400	29900 $\diamond$
		11145	MVT400/C/VBU	M59PK-T400/VBU	6	Phosphor Coated—VBU $\pm 15^\circ$	$11\frac{5}{16}$	7	20000	37400	28800 $\diamond$

1000 WATTS—SAF-T-GARD®—HIGH OUTPUT LINE—VERTICAL BASE-UP $\pm 15^\circ$ BURNING ONLY.
Use Metal Halide ballasts (ANSI spec. "M47")

BT-56	▲ Mogul	11150	MVT1000/VBU	M47PA-T1000/VBU	6	Clear—VBU $\pm 15^\circ$	$15\frac{3}{8}$	$9\frac{1}{2}$	100000	105000	83000
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• See page 47 for definition of "Rated Life."

* On approved CW/CWA Mercury ballasts, at 10 hours per start.

◆ See "Mercury Ballast Compatibility List for GE I-line Multi-Vapor Lamps" Form #206-169.

$\diamond$ Mean Lumens shown are for lamps in service on typical commercial metal-halide ballasts. Mean lumens at rated lamp watts:

MVT400/VBU — 28050

MVT400/C/VBU—26900

239. Life shown is for vertical $\pm 30^\circ$ operation. All other burning positions: 10,000 hours.



MERCURY LAMPS (Including STANDARD, SAF-T-GARD®, E-Z MERC® and SPECIAL-APPLICATION types)

Certified to meet Federal Standard 21 CFR 1040

The mercury lamps in this section are designed primarily for general lighting applications, except as noted. Current Lamp Specification Bulletins for the more popular types provide further technical data. GE booklet #206-31414 "High Intensity Discharge Lamps" contains extensive data on lamp construction, operation, ballasting systems, and applications.

Performance ratings shown are based on lamp testing under controlled conditions on A.C. circuits with auxiliary equipment meeting current ANSI specifications. Lamp performance under typical service conditions may differ somewhat from rated values. All lamp ratings and specifications are subject to change without notice.

IMPORTANT NOTICE: In accordance with Federal Standard 21 CFR 1040.30, the following notice applies to all Standard Mercury Lamps (those having Ordering Codes beginning with the letters "HR..."):

"WARNING: This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if outer envelope of the lamp is broken or punctured, and the arc tube continues to operate. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available from General Electric Company. These are the self-extinguishing SAF-T-GARD® mercury and Multi-Vapor® lamps." (See page 54 for SAF-T-GARD mercury lamps.)

OPERATING CHARACTERISTICS AND LIMITATIONS—ALL MERCURY LAMPS

Ballasts. GE mercury lamps (except E-Z MERC) require auxiliary ballast equipment designed to produce proper electrical values. Actual lamp watts may vary depending on ballast characteristics. For total system watts, add nominal ballast watts. Specifications for auxiliary equipment are available from the American National Standards Institute (ANSI), 1430 Broadway, New York, NY 10018 (provide ANSI Code of lamp when requesting specifications.) All mercury lamps will start at ambient temperatures of -30°C (-22°F) when used on ballasts meeting these specifications.

Protection of Bulbs from Moisture. Outer bulbs of GE mercury lamps are made of glass designed to have strength and thermal-shock-resistant characteristics suitable for normal applications in typical luminaires. However, shielding of lamps must be provided to avoid bulb breakage that could result from direct contact with liquids (such as water) during operation.

Bulb Finish. Most mercury lamps are available in two types of outer-bulb finishes—Clear and Phosphor-coated—as indicated in the "Description" column. Clear lamps permit good optical control of the light. Phosphor-coated lamps are identified as either Deluxe White or Warm Deluxe White. Compared with corresponding clear lamps, they provide: 1) substantially better color rendition and "warmer" appearance; 2) lower, more-uniform lamp brightness; and 3) higher light output (Deluxe White only).

Bases. In the "Base" column, "▲" indicates a brass base; "■" indicates a nickel-plated brass base. The mogul base has impressed letters and numbers representing months and years. By marking the correct letter and the number representing the month and the last digit in the current year, the date of installation can be recorded.

Rated Life. Values are based on laboratory tests of large numbers of representative lamps under controlled conditions, including operation at 10 hours per start on ballasts having specified electrical characteristics. Individual lamps or groups of lamps may, of course, vary from the Rated Life shown. Lamp operating conditions can also affect life. Where Rated Life is 24,000 hours or less, it is a median value of life expectancy—that is, the total operating time at which, under normal operating conditions, 50% of any large group of initially installed lamps are expected to be still burning. Where Rated Life is 24,000 + hours, 67% of lamps are expected to be still burning at 24,000 hours. For cost-of-light calculations involving these lamps, if an estimated operating time is required at which 50% of the lamps will still be burning, a value of 28,500 hours is suggested. At burning cycles shorter than 10 hours per start, the median life will be shortened: 5 hrs/st—approx. life 75% of rating; 2½ hrs/st—approx. life 56% of rating; 1¼ hrs/st—approx. life 42% of rating.

Approx. Lumens. "Initial Lumen" ratings are averages based on photometry of lamps operating vertically, on a standard reference ballast, after lamps have been operated for 100 hours.

"Mean Lumen" ratings are averages based on photometry of lamps operating vertically, on a standard reference ballast, after lamps have been operated for 50% of their Rated Life at 10 hours per start on typical commercial ballasts.

When lamps are operated in a near-horizontal position, both Initial and Mean Lumens will be lower than the rated values shown. (See individual Lamp Specification Bulletins for details.)

Burning Position. ANY, except as noted.

Start Characteristic. Full light output does not occur immediately when power is applied. Instead there is a delay of from 5 to 7 minutes to reach 90% light output.

Restart Characteristic. With a power interruption of ½ cycle or more the arc will extinguish. When power is immediately reapplied, full light output does not occur immediately. There is a delay of 3 to 6 minutes to reach 90% total light output.

End-of-Life (EOL) Characteristic. Standard Mercury lamps have extremely long lives and reach EOL through a "wearing out or wearing away" of the electrodes within the arc tube resulting in heavy deposits of tungsten (blackening) on the arc tube, reducing light output to very low levels. Thus, EOL is a dimming out passive process. In the Saf-T-Gard lamps, the arc tube still blackens but the fusing filament slowly evaporates and becomes "brittle" during life so that it eventually breaks and passively disconnects the arc tube from the power within the lamp.



MERCURY LAMPS



STANDARD MERCURY LAMPS

Bulb	Base	Product Code	Lamp Ordering Code	ANSI Code (Reference Only)	Std. Pkg. Qty.	DESCRIPTION	M. O. L. (In.)	L. C. L. (In.)	Rated Life (Hours)	Approx. Lumens (Vertical Operation)	
										Initial	Mean

40 or 50 WATTS—Use ONLY on Mercury ballasts (ANSI spec. “H45” or “H46”)

E-17	▲Medium	12460	HR40/50DX45-46 5PK	H45AY-R40/50/DX	5	DeLux White. 40W on H45 ballast, 50W on H46	5 ¹ / ₈	3 ¹ / ₈	16000	1140 (40W)	910 (50W)
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75 WATTS—Use ONLY on Mercury ballasts (ANSI spec. “H43”)

E-17	▲Medium	12461	HR75DX43 5PK	H43AV-R75/DX	5	DeLux White	5 ⁷ / ₁₆	3 ¹ / ₂	16000	2800	2250
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75 or 100 WATTS—Use ONLY on Mercury ballasts (ANSI spec. “H4”, “H43” or “H-44”)

PAR-38	Medium Side Prong	41243	HR75/100PFL43-44	H43/44-R75/100PFL	12	PAR-Mine Ltg. 75W on H43 ballast, 100W on H44	4 ¹¹ / ₃₂	...	12000	1600 (75W)	1100 (100W)
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100 WATTS—Use ONLY on Mercury ballasts (ANSI spec. “H4” or “H38”)

E-23 1/2	▲Mogul	12473	HR100DX38 10PK	H38JA-R100/DX	10	DeLux White	7 ¹ / ₂	5	24000+	4200	3200
		12474	HR100WDX38 5PK	H38JA-R100/WDX	5	Warm DeLux White	7 ¹ / ₂	5	24000+	3400	2600
		12471	HR100A38 5PK	H38HT-R100	5	Clear	7 ¹ / ₂	5	24000+	3850	2800
A-23	▲Medium	12467	HR100DX38/A23 5PK	H38MP-R100/DX	5	DeLux White	5 ⁷ / ₁₆	3 ¹ / ₂	18000	4000	3050
		12464	HR100A38/A23 5PK	H38LL-R100	5	Clear	5 ⁷ / ₁₆	3 ¹ / ₂	18000	3700	3000
R-40		36238	HR100RFL38	H38BM-R100	12	Refl. Flood	7	...	24000+	2850	2000
		36495	HR100RDXFL38	H38BP-R100/DX	12	Refl. WFL. Dlx. White	7	...	24000+	2850	2050

100 WATTS—Use ONLY on Mercury ballasts (ANSI spec. “H4” or “H44”)

PAR-38	▲Admedium Skirted	24038	HR100PFL44	H44JM-R100	12	PAR Flood	5 ⁷ / ₁₆	...	12000	2450	1700
		24040	HR100PSP44	H44GS-R100	12	PAR Spot	5 ⁷ / ₁₆	...	12000	2450	1700

175 WATTS—Use on Mercury ballasts (ANSI spec. “H22” or “H39”)

E-28	▲Mogul	24062	φHR175DX39	H39KC-R175/DX	12	DeLux White	8 ¹ / ₄	5	24000+	8600	7200
		14111	φHR175DX39 5PK	H39KC-R175/DX	5	DeLux White—Retail Pack	8 ¹ / ₄	5	24000+	8600	7200
		37872	φHR175WDX39	H39KC-R175/WDX	12	Warm DeLux White	8 ¹ / ₄	5	24000+	7000	5400
		24048	φHR175A39	H39KB-R175	12	Clear	8 ¹ / ₄	5	24000+	7950	7000
R-40	▲Medium	24058	HR175RFL39	H39BM-R175	12	Refl. Flood	7	...	24000+	5700	4800
	▲Mogul	36445	HR175RFL39/M	H39BS-R175	12	Refl. Flood	7 ¹ / ₂	...	24000+	5700	4800
	▲Medium	33026	HR175RDXFL39	H39BP-R175/DX	12	Refl. WFL. Dlx. White	7	...	24000+	5700	4350

250 WATTS—Use on Mercury ballasts (ANSI spec. “H-5” or “H37”)

E-28	▲Mogul	32127	φHR250DX37	H37KC-R250/DX	12	DeLux White	8 ¹ / ₄	5	24000+	12100	9800
		37871	φHR250WDX37	H37KC-R250/WDX	12	Warm DeLux White	8 ¹ / ₄	5	24000+	10000	7200
		24068	φHR250A37	H37KB-R250	12	Clear	8 ¹ / ₄	5	24000+	11200	9850

400 WATTS—Use on Mercury ballasts (ANSI spec. “H-1” or “H33”)

E-37	▲Mogul	23998	✓HR400DX33	H33GL-R400/DX	6	DeLux White	11 ⁵ / ₁₆	7	24000+	22500	12800†
		37870	✓HR400WDX33	H33GL-R400/WDX	6	Warm DeLux White	11 ⁵ / ₁₆	7	24000+	19500	10300†
		23974	✓HR400A33	H33CD-R400	6	Clear	11 ⁵ / ₁₆	7	24000+	21000	13850†
BT-37		32313	HR400DX33/BT	H33GL-R400/DX/BT	6	DeLux White	11 ⁵ / ₁₆	7	24000+	22100	12600†
R-52		33879	HR400RDX33	H33DN-R400/DX	6	Refl. High-Bay—Dlx. Wh.	11 ³ / ₄	...	24000+	22000	13000†
		24112	HR400R33	H33FY-R400	6	Refl. High-Bay—IF	11 ³ / ₄	...	24000+	18300	12100†
R-60		33938	HR400RDXFL33	H33FS-R400/DX	6	Refl. WFL. Dlx. Wh. Cl. Face	10 ¹ / ₈	...	24000+	15500	7600†
		23996	HR400RSP33	H33FP-R400	6	Refl. Spot—Clear Face	10 ¹ / ₈	...	24000+	15300	8400†

† On typical widely used CW/CWA mercury ballasts with 2.0 current crest factor. For operation on typical non-stabilized reactor or “lag” ballasts with 1.4-1.5 current crest factor, add 21% of Initial Lumens to Mean Lumens shown.

♦ **FOR HIGHER LIGHT OUTPUT and LESS WATTAGE** on many mercury ballasts...Consider 150-watt **E-Z LUX®** lamps (page 46).

♦ **FOR HIGHER LIGHT OUTPUT and LESS WATTAGE** on many mercury ballasts...Consider 215-watt **E-Z LUX®** lamps (page 46).

✓ **FOR HIGHER LIGHT OUTPUT and LESS WATTAGE** on many mercury ballasts...Consider 325-watt **WATT-MISER®** “I-line” Multi-Vapor® lamps (page 50).



STANDARD MERCURY LAMPS (Continued)

Bulb	Base	Product Code	Lamp Ordering Code	ANSI Code (Reference Only)	Std. Pkg. Qty.	DESCRIPTION	M. O. L. (In.)	L. C. L. (In.)	Rated Life (Hours)	Approx. Lumens (Vertical Operation)	
										Initial	Mean

700 WATTS—Use on Mercury ballasts (ANSI spec. "H18" or "H35")

BT-46	▲Mogul	32243	HR700DX35	H35ND-R700/DX	6	DeLuxe White	14 ⁵ / ₁₆	9 ¹ / ₂	24000 +	42000	30250
		24135	HR700A35	H35NA-R700	6	Clear	14 ⁵ / ₁₆	9 ¹ / ₂	24000 +	39000	32750

1000 WATTS—Use on Mercury ballasts (ANSI spec. "H15" or "H36")

BT-56	▲Mogul	24191	φHR1000DX36	H36GW-R1000/DX	6	DeLuxe White	15 ¹ / ₁₆	9 ¹ / ₂	24000 +	63000	40000
		39302	φHR1000WDX36	H36GW-R1000/WDX	6	Warm DeLuxe White	15 ¹ / ₁₆	9 ¹ / ₂	24000 +	58000	34800
		24171	φHR1000A36	H36GV-R1000	6	Clear	15 ¹ / ₁₆	9 ¹ / ₂	24000 +	57000	44450
		33373	HR1000RDX36	H36KY-R1000/DX	6	Semi-Refl. Dlx. Wh.	15 ¹ / ₁₆	9 ¹ / ₂	24000 +	58500	32750
R-80		24189	HR1000RFL36	...	1	Refl. Flood	13 ⁷ / ₈	...	24000 +	42000	23500
		32417	HR1000RDXFL36	...	1	Refl. WFL-Dlx. Wh. Cl. Face	13 ⁷ / ₈	...	24000 +	48000	23050
		33314	HR1000RSDX36	...	1	Refl. MFL-Dlx. Wh.	13 ⁷ / ₈	...	24000 +	43000	20200

1000 WATTS—Use ONLY on Mercury ballasts (ANSI spec. "H34" or "H12")

BT-56	▲Mogul	32733	HR1000DX34	H34GW-R1000/DX	6	DeLuxe White	15 ¹ / ₁₆	9 ³ / ₈	16000	62000	47700
		24157	HR1000A34	H34GV-R1000	6	Clear	15 ¹ / ₁₆	9 ³ / ₈	16000	56000	48700

♦ **FOR HIGHER LIGHT OUTPUT** and **LESS WATTAGE** on many mercury ballasts... Consider **MVR950/I/VBU** or **MVR950/I/VBD** "I-line" Multi-Vapor® lamps (page 50):

SAF-T-GARD® MERCURY LAMPS

SAF-T-GARD Self-Extinguishing Mercury Lamps include a special construction feature designed to prevent exposure of people to harmful ultraviolet energy in case the outer glass bulb of the lamp is broken or punctured. SAF-T-GARD lamps have an internal device that automatically disconnects the electrical supply to the arc tube within 15 minutes after breakage during operation, thus turning off the lamp. SAF-T-GARD lamps are certified to meet Federal Standard 21 CFR 1040.

Ordering codes for SAF-T-GARD Mercury lamps all begin with the letters "HT...". Life and/or lumen ratings for SAF-T-GARD lamps are generally somewhat lower than for corresponding Mercury lamps with standard construction. SAF-T-GARD Mercury lamps operate on the same ballasts as standard mercury lamps of corresponding wattage.

CAUTION: If the outer glass envelope of a SAF-T-GARD lamp is broken, although the arc tube will have self-extinguished, its supporting structure will still be electrically connected. Be sure power is OFF and the lamp has cooled before removing to avoid possible electrical shock from contact with the arc tube support or burn from the hot arc tube.

Bulb	Base	Product Code	Lamp Ordering Code	ANSI Code (Reference Only)	Std. Pkg. Qty.	DESCRIPTION	M. O. L. (In.)	L. C. L. (In.)	Rated Life (Hours)	Approx. Lumens (Vertical Operation)	
										Initial	Mean
E-23 1/2	▲Mogul	12457	HT100DX38 5PK	H38JA-T100/DX	5	DeLuxe White	7 ¹ / ₂	5	16000	3700	3100
E-28	■Mogul	43391	φHT175DX39	H39KC-T175/DX	12	DeLuxe White	8 ¹ / ₄	5	16000 ♦	7700	6450
		43392	φHT250DX37	H37KC-T250/DX	12	DeLuxe White	8 ¹ / ₄	5	24000	11200	9050
E-37		43363	φHT400DX33	H33GL-T400/DX	6	DeLuxe White	11 ⁵ / ₁₆	7	24000	20000	11400
BT-56	▲Mogul	11152	HT1000DX36	H36GW-T1000DX	6	DeLuxe White	15 ¹ / ₁₆	9 ¹ / ₂	24000	55450	44900

♦ Life on reactor or "lag" type (non-stabilized) ballasts may be shorter.

♦ **FOR HIGHER LIGHT OUTPUT** and **LESS WATTAGE** on many mercury ballasts... Consider **E-Z LUX®** lamps (page 46).

♦ **FOR HIGHER LIGHT OUTPUT** and **LESS WATTAGE** on many mercury ballasts... Consider 325-watt **WATT-MISER®** "I-line" SAF-T-GARD Multi-Vapor® lamps (page 50).



T-10

PS-30

BT-28 Mog.

E-28 Med.

BT-37

SPECIAL APPLICATION MERCURY LAMPS

Special application mercury lamps are for use in specialized systems—not for illumination. Some are used to provide ultraviolet energy, others are designed for service in specialized laboratory instruments.

Bulb	Base	Product Code	Lamp Ordering Code	ANSI Code (Reference Only)	Std. Pkg. Qty.	DESCRIPTION	M. O. L. (In.)	L. C. L. (In.)	Rated Life (Hours)	Approx. Lumens (Vertical Operation)	
										Initial	Mean

85 WATTS—Use ONLY on Mercury ballasts (ANSI spec. "H-3")

T-10	▲Medium	24005	H85A3	H3FG-85	12	Clear—Spec. Appl. & BL (208)	5%	3	500	3050	...
		24011	H85A3/UV	H3FE-85	12	Clear—Lab Arc.* UV Transmitting Bulb	5%	3	500	3050	...

100 WATTS—Use ONLY on Mercury ballasts (ANSI spec. "H4")

T-10	▲Admedium	24016	H100A4/T	H4AB-100	12	Clear—Spec. Appl. & BL (208,213)	5%	3 ⁷ / ₁₆	6000	3700	2480
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400 WATTS—Use on Mercury ballasts (ANSI spec. "H1" or "H33")

T-16	▲Mogul	23973	H400A33/T16	H33AR-400	12	Clear—Spec. Appl. & BL (208)	11	7	12000	20000	18200
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E-Z MERC® SELF-BALLASTED MERCURY LAMPS

E-Z MERC self-ballasted lamps do not require mercury ballasts—nor any other auxiliary electrical equipment. They easily convert hard-to-get-at incandescent lamp sockets to the longer-life benefits of mercury lamps—for long-term reductions in lamp replacement labor.

E-Z MERC Lamp Bulletin #220-3527R2 provides additional information on lamp characteristics and applications.

Lamps can be operated on A.C. or D.C. circuits, in ANY burning position. However, horizontal operation will provide somewhat lower initial and mean lumens. Recommended only for use in ambient temperatures between -15°C (5°F) and 50°C (122°F).

Bulb	Base	Product Code	Lamp Ordering Code	Nominal Operating Volts (A.C. or D.C.)	Std. Pkg. Qty.	DESCRIPTION	M. O. L. (In.)	L. C. L. (In.)	Rated Life (10 Hours) Per Start	Approx. Lumens (Vertical Operation)	
										Initial (202)	Mean

160 WATTS

PS-30	■Medium	45178	HSB160/PS30/M	120	12	DeLuxe White—(200,204)	8 ¹ / ₂	5 ¹ / ₂	12000	2300	1600
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250 WATTS

E-28 or	■Mogul	45176	HSB250	120	12	DeLuxe White—(200,204)	8 ¹ / ₂	5 ³ / ₁₆	12000	5000	3750
BT-28	■Medium	45174	HSB250/M	120	12	DeLuxe White—(200,204)	8 ¹ / ₂	5 ⁵ / ₁₆	12000	5000	3750

450 WATTS

BT-37	■Mogul	40122	HSB450	120	6	DeLuxe White—(204)	11 ¹³ / ₃₂	7 ³ / ₈	16000	9500	7100
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750 WATTS

R-57	■Mogul	44012	HSB750R/120	120	6	Ref. Flood—DeLuxe White (204)	12 ¹³ / ₃₂	8 ³ / ₈	16000	14000	10500
		44013	HSB750R/240	240	6	Ref. Flood—DeLuxe White (204)	12 ¹³ / ₃₂	8 ³ / ₈	16000	14500	12300

200. Do not use this lamp in fixtures designed for less than rated lamp wattage.

202. Initial lumen ratings are based on zero-hour photometry readings.

204. Made in Japan expressly for General Electric Company.

208. For black light, use separate filter (not available from GE).

213. When lamps are operated on D.C., a polarity-reversing switch should be installed to avoid the possibility of electrolysis in the lamps.



THE **WATT-MISER®** LINE OF ENERGY EFFICIENT FLUORESCENT LAMPS

TO SAVE ELECTRICITY, replace your standard wattage fluorescent lamps with either **WATT-MISER®**, **WATT-MISER® II** or **WATT-MISER® PLUS** lamps. The more efficient **WATT-MISER® II**, **WATT-MISER® PLUS** and Specification Series Lamps have approximately the same color appearance of standard phosphors, but deliver **MORE LIGHT**.

REPLACE STANDARD LAMPS WITH:							
Watts	Standard Lamp	Watt-Miser	Watts	Watt-Miser II	Specification Series	Watt-Miser Plus	Watts
30	F30T12/CW/RS	F30T12/CW/RS/WM	25		F30T12/SP41/RS/WM		
30	F30T12/WW/RS	F30T12/WW/RS/WM	25		F30T12/SP30/RS/WM		
30	F30T12/W/RS		25		F30T12/SP35/RS/WM		
90	F90T17/CW	F90T17/CW/WM	82				
40	F40CW	F40CW/RS/WM	34	F40LW/RS/WMII	F40SP41/RS/WM	F40CW/RS/WMP F40LW/RS/WMP F40SP41/RS/WMP	32
			34				32
			34				32
40	F40CWX	F40CWX/RS/WM	34				
40	F40WWX	F40WWX/RS/WM	34		F40SPX30/RS/WM		
40	F40D	F40D/RS/WM	34				
40	F40W	F40W/RS/WM	34		F40SPX35/RS/WM	F40SP35/RS/WMP	32
			34		F40SP35/RS/WM		
40	F40WW	F40WW/RS/WM	34		F40SP30/RS/WM	F40WW/RS/WMP F40SP30/RS/WMP	32
							32
40	F48T12/CW	F48T12/CW/WM	30	F48T12/LW/WMII	F48T12/SP41/WM		
40	F48T12/WW	F48T12/WW/WM	30				
40	F48T12/W		30		F48T12/SP35/WM		
50	F96T8/CW	F96T8/CW/WM	40				
75	F96T12/CW	F96T12/CW/WM	60	F96T12/LW/WMII	F96T12/SP41/WM		
75	F96T12/CWX	F96T12/CWX/WM	60				
75	F96T12/WWX	F96T12/WWX/WM	60		F96T12/SPX30/WM		
75	F96T12/D	F96T12/D/WM	60				
75	F96T12/W	F96T12/W/WM	60		F96T12/SPX35/WM F96T12/SP35/WM		
			60				
75	F96T12/WW	F96T12/WW/WM	60		F96T12/SP30/WM		
75	F96T12/C50	F96T12/C50/WM	60				
60	F48T12/CW/HO		53	F48T12/LW/HO/WMII	F48T12/SP41/HO/WM		
110	F96T12/W/HO	F96T12/W/HO/WM	95			F96T12/SP35/HO/WM	
110	F96T12/CW/HO	F96T12/CW/HO/WM	95	F96T12/LW/HO/WMII	F96T12/SP41/HO/WM		
110	F96T12/CWX/HO	F96T12/CWX/HO/WM	95				
110	F96T12/WW/HO	F96T12/WW/HO/WM	95				
110	F48PG17/CW	F48PG17/CW/WM	95	F48PG17/LW/WMII			
215	F96PG17/CW	F96PG17/CW/WM	185	F96PG17/LW/WMII			
215	F96T12/CW/1500	F96T12/CW/1500/WM	185	F96T12/LW/1500/WMII			
40	F40CW/U/3	F40CW/U/3/WM	35	F40LW/U/3/WMII			
40	F40WW/U/3	F40WW/U/3/WM	35				
40	F40W/U/3	F40W/U/3/WM	35		F40SP35/U/3 (40w)		
40	F40CW/U/6	F40CW/U/6/WM	35	F40LW/U/6/WMII			
40	F40WW/U/6	F40WW/U/6/WM	35				
40	F40W/U/6	F40W/U/6	35		F40SP35/U/6 (40w)		



USING **WATT-MISER** FLUORESCENT LAMPS Application Recommendations

NOTE: **Watt-Miser** Lamps are intended for use where lamp ambient temperatures are 60°F. or higher. Lamp flickering may occur where lamp ambient temperature is below 60°F. or where strong air drafts blow directly on bare bulbs.

Rapid Start

F-30 **WATT-MISER Lamps**

F-30 **Watt-Miser** Fluorescent lamps are intended for use on two-lamp indoor lead-circuit high power factor rapid start ballasts or for greater system efficiency use **Optimiser** ballasts. Operation on low power factor ballasts, dimming and emergency lighting systems (unless approved by the system manufacturer) or operation on reduced current/reduced light output ballasts is not recommended.

F-40 **WATT-MISER Lamps**

F-40 **Watt-Miser** lamps are intended for use on single lamp and two-lamp indoor lead-circuit high power factor rapid start ballasts or for greater system efficiency use **Optimiser** ballasts. Operation on low power factor ballasts, dimming and emergency lighting systems (unless approved by the system manufacturer) or operation on reduced current/reduced light output ballasts is not recommended.

F-40 MOD-U-LINE **WATT-MISER Lamps**

F-40 MOD-U-LINE **Watt-Miser** lamps are intended for use on single and two-lamp indoor lead circuit, high power factor, rapid start ballasts. Operation on low power factor, dimming, emergency lighting, (unless approved by the system manufacturer) reduced current/reduced light output, MAXI-MISER™ II or **Optimiser** ballasts is not recommended.

F-96 and F-48 High Output (800 ma.) **WATT-MISER Lamps**

High Output **Watt-Miser** lamps are intended for use on single lamp and two-lamp indoor lead-circuit high power factor rapid start ballasts. Operation on reduced current/reduced light output ballasts is not recommended.

F-96 and F-48 Power Groove® (1500 ma.) **WATT-MISER and F-96 1500 MA. T-12 **WATT-MISER** Lamps**

Power Groove and 1500 Ma. T-12 **Watt-Miser** lamps are intended for use on two-lamp indoor lead-circuit high power factor rapid start ballasts. Marginal starting may be experienced on single lamp ballasts, particularly with low primary voltage conditions.

Instant Start

F-96 and F-48 Slimline **WATT-MISER Lamps**

Slimline **Watt-Miser** lamps are intended for use on single lamp and two-lamp indoor lead-circuit high power factor instant start ballasts. Operation on low power factor, lead-lag or reduced current/reduced light output ballasts is not recommended.

Preheat (For Use with Starters)

F-90 **WATT-MISER Lamps**

F-90 **Watt-Miser** lamps are intended for use on two-lamp indoor switch-start high power factor ballasts in open type industrial or commercial fixtures.

IT'S EASY TO ESTIMATE ELECTRICITY SAVINGS USING **WATT-MISER**® LAMPS

To estimate how much you can reduce your energy costs by using **WATT-MISER** lamps in place of standard lamps, use this simple formula:

$$\frac{\text{WATTS SAVED} \times \text{HOURS USED} \times \text{CENTS PER KWH}}{1,000\text{W/KW}} = \$ \text{ OF ENERGY SAVED}$$

For example: Using a 34-watt F40 **WATT-MISER** lamp in place of a standard F40:

$$\frac{\text{WATTS SAVED (40-34)} \times \text{HOURS USED (20,000)} \times \text{CENTS PER KWH ($.08)}}{1,000} = \$9.60 \text{ OF ENERGY SAVED}$$



GENERAL INFORMATION

OPERATION — All GE Fluorescent lamps should be used only with auxiliary equipment designed to produce proper values. Specifications for auxiliary equipment are covered by appropriate American National Standards Institute (ANSI) Standards. Specifications for auxiliary equipment not included in ANSI Standards are available from the Fluorescent and High Intensity Systems Department.

RATINGS — Design improvements are frequently made in fluorescent lamps which tend to obsolete published ratings after a period of time. Technical bulletins will be issued from time to time if changes in ratings occur prior to the next Catalog printing. Ratings published in this catalog are based on laboratory tests under controlled conditions.

LUMENS (INITIAL) — Initial lumen ratings published herein are average reference ballast ratings established after 100 hours operation. Lumens delivered by lamps operated by commercial ballasts may or may not be equivalent to reference ballast ratings. Refer to ballast manufacturers' published data for the appropriate "Ballast Factor" to apply to lighting design calculations.

LUMENS (MEAN) — Mean lumens shown are the reference ballast ratings established after the lamp has operated to 40% of its rated life at 3 operating hours per start.

WATTS shown are nominal lamp watts measured on the appropriate reference ballast circuit and do not include ballast watts except as noted. Actual watts will vary depending on the commercial ballast and the type of lighting fixture used, and on the environment in which the lamp is used.

LIFE — The Rated Average Life (Hours) shown is the median life when lamps are operated for 3 hours per start on ballasts which meet ANSI Standards C-78 and C-82.1, or which meet General Electric Specifications where ANSI Standards do not exist.

LENGTH — The nominal lamp length shown is the overall dimension of the lamp including the lamp holders in which it is seated except as noted. Lamp dimensional characteristics with tolerances are found in ANSI Standard C-78.

BALLASTS — The three basic fluorescent lamp ballast types are Preheat (requires a starter for each lamp), Rapid Start and Instant Start. Trigger Start ballasts, a fourth type, do not require starters and are used with Preheat lamps rated 20 watts or less.

PREHEAT FLUORESCENT LAMPS (For Use With Starters)

Watts	Diameter (Inches)	Length (Inches)	Base	Product Code	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	Rated Avg. Life (Hours) at 3 Hours Per Start	Lumens (Initial)	Lumens (Mean) at 40% Rated Avg. Life
4	5/8	6	Miniature Bipin	10004	F4T5/CW	24	Cool White	6000	135	93
				10011	F4T5/D	24	Daylight	6000	115	79
6		9		10032	F6T5/CW	24	Cool White	7500	295	230
				10034	F6T5/CWX	24	DeLuxe Cool White	7500	205	155
				10028	F6T5/D	24	Daylight	7500	220	165
8		12		10059	F8T5/CW	24	Cool White	7500	400	300
				10064	F8T5/WW	24	Warm White	7500	385	310
				10075	F8T5/CWX	24	DeLuxe Cool White	7500	275	205
				10055	F8T5/D	24	Daylight	7500	330	265
13		21		10086	F13T5/CW	24	Cool White	7500	820	655
	1	12	Medium Bipin	10098	F13T8/CW	24	Cool White	7500	500	400
14		15		10104	F14T8/CW	24	Cool White	7500	650	550
				10102	F14T8/D	24	Daylight	7500	520	415
14	1 1/2	15	Medium Bipin	10116	F14T12/CW	24	Cool White	9000	675	560
				10117	F14T12/CW 6PK	24	Cool White	9000	675	560
				44693	F14T12/SW 6PK	24	Soft White. Replaces WWX	9000	460	380
				10113	F14T12/D	24	Daylight	9000	585	485
15	1	18	Medium Bipin	10142	F15T8/CW	24	Cool White	7500	870	765
				10143	F15T8/CW 6PK	24	Cool White	7500	870	765
				14080	F15T8/CW 3800-PAL	24	Cool White. Palletized—3800 Lamps	7500	870	765
				10147	F15T8/WW	24	Warm White	7500	870	740
				44433	F15T8/SW 6PK	24	Soft White. Replaces WWX	7500	600	480
				10150	F15T8/CWX	24	DeLuxe Cool White	7500	610	490
				10151	F15T8/CWX 6PK	24	DeLuxe Cool White	7500	610	490
				10134	F15T8/D	24	Daylight	7500	750	660
				10135	F15T8/D 6PK	24	Daylight	7500	750	660
				10139	F15T8/W	24	White	7500	870	765
				38185	F15T8/C50	24	Chroma 50. 5000K.	7500	590	500
				10156	F15T8/N	24	Natural	7500	590	500
				10170	F15T8/R 6PK	24	Red	7500	40	22
15	1 1/2	18	Medium Bipin	10182	F15T12/CW	24	Cool White	9000	800	695
				10183	F15T12/CW 6PK	24	Cool White	9000	800	695
				14079	F15T12/CW 1680-PAL	24	Cool White. Palletized—1680 Lamps	9000	800	695
				10185	F15T12/WW	24	Warm White	9000	800	670
				44695	F15T12/SW 6PK	24	Soft White. Replaces WWX	9000	505	395
				10179	F15T12/D	24	Daylight	9000	650	545



FLUORESCENT—PREHEAT & RAPID START LAMPS

PREHEAT FLUORESCENT LAMPS (For Use With Starters) (Continued)

Watts	Diameter (Inches)	Length (Inches)	Base	Product Code	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	Rated Avg. Life (Hours) at 3 Hours Per Start	Lumens (Initial)	Lumens (Mean) at 40% Rated Avg. Life
20	1½"	24	Medium Bipin 	10213	F20T12/CW	24	Cool White	9000	1250	1110
				10214	F20T12/CW 6PK	24	Cool White	9000	1250	1110
				10216	F20T12/CW 1590-PAL	24	Cool White, Palletized—1590 Lamps	9000	1250	1110
				10247	F20T12/CW/1	24	Cool White—D.C. Operation	7500	995	895
				10217	F20T12/WW	24	Warm White	9000	1300	1155
				11413	F20T12/RW3	24	Regal White™	9000	1125	975
				14446	F20T12/SP30 24PK	24	SP30. 3000K.	9000	1340	1190
				14423	F20T12/SP35 24PK	24	SP35. 3500K.	9000	1290	1145
				15109	F20T12/SPX30	24	SPX30. 3000K.	9000	1320	1175
				44435	F20T12/SW 6PK	24	Soft White	9000	820	715
				10220	F20T12/CWX	24	DeLuxe Cool White	9000	850	755
				10221	F20T12/CWX 6PK	24	DeLuxe Cool White	9000	850	755
				10223	F20T12/WWX	24	DeLuxe Warm White	9000	820	715
				10205	F20T12/D	24	Daylight	9000	1000	890
				10206	F20T12/D 6PK	24	Daylight	9000	1000	890
				10210	F20T12/W	24	White	9000	1250	1110
				38114	F20T12/C50	24	Chroma 50. 5000K.	9000	850	755
				10229	F20T12/N 6PK	24	Natural	9000	810	705
				10231	F20T12/B 6PK	24	Blue	9000	450	325
				10233	F20T12/G 6PK	24	Green	9000	1650	1005
				10237	F20T12/GO 6PK	24	Gold	9000	900	650
				10239	F20T12/PK 6PK	24	Pink	9000	450	250
				10241	F20T12/R 6PK	24	Red	9000	80	45
30	1	36	Medium Bipin 	10315	F30T8/CW	24	Cool White	7500	2200	2000
				10316	F30T8/CW 6PK	24	Cool White	7500	2200	2000
				10318	F30T8/WW	24	Warm White	7500	2300	2070
				44437	F30T8/SW 6PK	24	Soft White. Replaces WWX	7500	1400	1150
				10320	F30T8/CWX	24	DeLuxe Cool White	7500	1500	1230
				10321	F30T8/CWX 6PK	24	DeLuxe Cool White	7500	1500	1230
				10310	F30T8/D	24	Daylight	7500	1900	1700
				10311	F30T8/D 6PK	24	Daylight	7500	1900	1700
				10313	F30T8/W	24	White	7500	2250	2025
				10328	F30T8/N	24	Natural	7500	1400	1150
82 90	2⅝	60	Mogul Bipin	43443	F90T17/CW/WM	12	WATT-MISER—Cool White	9000§	6100	5610
				10643	F90T17/CW	12	Cool White	9000§	6400	5890
				10641	F90T17/D	12	Daylight	9000§	5650	5085

F-30 T-12 RAPID START LAMPS (No Starters Used)

Watts	Diameter (Inches)	Length (Inches)	Base	Product Code	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	Rated Avg. Life (Hours) at 3 or more Hours Per Start ♦♦	Lumens (Initial)	Lumens (Mean) at 40% Rated Avg. Life
25	1½"	36	Medium Bipin 	44599	F30T12/CW/RS/WM	24	WATT-MISER—Cool White	18000	2000	1700
				44600	F30T12/WW/RS/WM	24	WATT-MISER—Warm White	18000	2050	1740
				14447	F30T12/SP30/RS/WM 24PK	24	WATT-MISER—SP30. 3000K.	18000	2120	1800
				14425	F30T12/SP35/RS/WM 24PK	24	WATT-MISER—SP35. 3500K.	18000	2040	1735
				14701	F30T12/SP41/RS/WM 24PK	24	WATT-MISER—SP41. 4100K.	18000	2070	1760
				10357	F30T12/CW/RS	24	Cool White	18000	2300	1955
30	1½"	36	Medium Bipin	39176	F30T12/CW/RS 6PK	24	Cool White	18000	2300	1955
				10359	F30T12/WW/RS	24	Warm White	18000	2360	2005
				11414	F30T12/RW3/RS	24	Regal White™ 3000K.	18000	2075	1660
				15085	F30T12/SP35/RS	24	SP35. 3500K.	18000	2270	1930
				15108	F30T12/SPX30/RS	24	SPX30. 3000K.	18000	2400	2040

§ Rated average life at 3 hours per start. At 12 hours per start, average rated life is 15,000 hours.

• Use only on Rapid Start Ballasts or for more energy savings, use on Optimiser ballasts.

♦♦ On Rapid Start Circuits. Lamp life on Preheat Circuits is 15,000 hours except as otherwise noted.

♦ **FOR ENERGY SAVINGS**—Use a matching color **WATT-MISER®** lamp (See chart—page 56.)



F-30 T-12 RAPID START LAMPS (No Starters Used) (Continued)

Watts	Diameter (Inches)	Length (Inches)	Base	Product Code	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	Rated Avg. Life (Hours) at 3 or more Hours Per Start	Lumens (Initial)	Lumens (Mean) at 40% Rated Avg. Life
30	1½"	36	 Medium Bipin	10358	F30T12/CWX/RS	24	DeLuxe Cool White	18000	1530	1285
				10362	F30T12/WWX/RS	24	DeLuxe Warm White	18000	1490	1190
				10365	F30T12/D/RS	24	Daylight	18000	1900	1650
				10363	F30T12/W/RS	24	White	18000	2250	1910
				38115	F30T12/C50/RS	24	Chroma 50. 5000K	18000	1600	1280

F-40 T-12 RAPID START—PREHEAT LAMPS

34	1½"	48	Medium Bipin 	13822	F40LW/RS/WMII	30PK	30	WATT-MISER II●— Lite White	20000	2925	2575
				44307	F40LW/RS/WMII	6PK	24	WATT-MISER II●— Lite White	20000	2925	2575
				11064	F40LW/RS/WMII	576-PAL	24	WATT-MISER II●— Lite White. 576—Pallet	20000	2925	2575
				13803	F40CW/RS/WM	30PK	30	WATT-MISER●— Cool White	20000	2750	2420
				40987	F40CW/RS/WM	6PK	24	WATT-MISER●— Cool White	20000	2750	2420
				11063	F40CW/RS/WM	576-PAL	24	WATT-MISER●— Cool White. 576— Pallet	20000	2750	2420
				13821	F40WW/RS/WM	30PK	30	WATT-MISER●— Warm White	20000	2800	2465
				11066	F40WW/RS/WM	576-PAL	24	WATT-MISER●— Warm White. 576—Pallet	20000	2800	2465
				13805	F40RW3/RS/WM	30PK	30	WATT-MISER●— Regal White™. 3000K.	20000	2450	2010
				14200	F40SP30/RS/WM	30PK	30	WATT-MISER●— SP30. 3000K.	20000	2900	2550
				13807	F40SP35/RS/WM	30PK	30	WATT-MISER●— SP35. 3500K.	20000	2900	2550
				13809	F40SP41/RS/WM	30PK	30	WATT-MISER●— SP41. 4100K.	20000	2850	2510
				13804	F40CWX/RS/WM	30PK	30	WATT-MISER●— DeLuxe Cool White	20000	1925	1590
				13808	F40WWX/RS/WM	30PK	30	WATT-MISER●— DeLuxe Warm White	20000	1925	1590
				13819	F40D/RS/WM	30PK	30	WATT-MISER●— Daylight	20000	2300	2025
				13820	F40W/RS/WM	30PK	30	WATT-MISER●— White	20000	2800	2465
				11065	F40W/RS/WM	576-PAL	24	WATT-MISER●— White. 576— Pallet	20000	2800	2465
				14627	F40SPX30/RS/WM	30PK	30	WATT-MISER●— SPX30. 3000K.	20000	2850	2510
				14628	F40SPX35/RS/WM	30PK	30	WATT-MISER●— SPX35. 3500K.	20000	2850	2510
				32				14221	F40CW/RS/WMP		30
14223	F40WW/RS/WMP		30					WATT-MISER PLUS⊖— Warm White	15000 +	2750	2460
14226	F40SP30/RS/WMP		30					WATT-MISER PLUS⊖— SP30. 3000K.	15000 +	2850	2550
14225	F40SP35/RS/WMP		30					WATT-MISER PLUS⊖— SP35. 3500K.	15000 +	2850	2550
14224	F40SP41/RS/WMP		30					WATT-MISER PLUS⊖— SP41. 4100K.	15000 +	2800	2505
40				14222	F40LW/RS/WMP	30PK	30	WATT-MISER PLUS⊖— Lite White	15000 +	2875	2570
				12702	F40M/RS	6PK	24	MISER™ — Warm Color— 3000K.	20000	2800	2465
				13816	F40LW/MMII	30PK	30	MAXI-MISER II™ — Lite White	15000 ♦	3450	3140
				11925	F40LW/MMII	576-PAL	24	MAXI-MISER II™ — Lite White. 576— Pallet (1)	15000 ♦	3450	3140
				13811	F40CW/MM	30PK	30	MAXI-MISER™ — Cool White	15000 ♦	3250	2960
				13792	♣F40CW	30PK	30	Cool White	20000 +	3150	2770
				10472	♣F40CW	6PK	24	Cool White	20000 +	3150	2770
				11059	♣F40CW	576-PAL	24	Cool White. 576— Pallet	20000 +	3150	2770
				13815	F40WW/MM	30PK	30	MAXI-MISER™ — Warm White	15000 ♦	3250	2960
				13800	♣F40WW	30PK	30	Warm White	20000 +	3200	2815
				10487	F40WW	6PK	24	Warm White	20000 +	3200	2815
				11062	♣F40WW	576-PAL	24	Warm White. 576— Pallet	20000 +	3200	2815
				13798	♣F40RW3	30PK	30	Regal White™. 3000K.	20000 +	2850	2250
				15075	F40SP30	30PK	30	SP30. 3000K.	20000 +	3230	2840
				15077	F40SP35	30PK	30	SP35. 3500K.	20000 +	3180	2795
				15078	F40SP41	30PK	30	SP41. 4100K.	20000 +	3240	2850
				15079	F40SPX30	30PK	30	SPX30. 3000K.	20000 +	3250	2860
				15083	F40SPX35	30PK	30	SPX35. 3500K.	20000 +	3210	2820
				14316	F40SP30/MM	30PK	30	MAXI-MISER™ — SP30. 3000K.	15000 ♦	3350	3050
				13813	F40SP35/MM	30PK	30	MAXI-MISER™ — SP35. 3500K.	15000 ♦	3350	3050
				14318	F40SP41/MM	30PK	30	MAXI-MISER™ — SP41. 4100K.	15000 ♦	3350	3050
				44439	F40SW	6PK	24	Soft White. Replaces WWX	20000 +	2150	1875

● Use only on Rapid Start Ballasts or for more energy savings, use Optimiser ballasts.

⊖ Use only on Rapid Start Ballasts.

♦ Rapid Start Circuits only. Lamp life on Preheat Circuits is 12,000 hours.

♦♦ On Rapid Start Circuits. Lamp life on Preheat Circuits is 15,000 hours except as otherwise noted.

♦♦♦ **FOR ENERGY SAVINGS**—Use a matching color **WATT-MISER®** lamp (See chart—page 56)



FLUORESCENT — RAPID START-PREHEAT E-TYPE & BRIGHT STIK LAMPS

F-40 T-12 RAPID START — PREHEAT LAMPS (Continued)

Watts	Diameter (Inches)	Length (Inches)	Base	Product Code	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	Rated Avg. Life (Hours) at 3 or more Hours Per Start	Lumens (Initial)	Lumens (Mean) at 40% Rated Avg. Life
40	1 1/2"	48	Medium Bipin	13793	♦F40CWX 30PK	30	DeLuxe Cool White	20000 +	2250	1855
				10482	F40CWX 6PK	24	DeLuxe Cool White	20000 +	2250	1855
				13801	♦F40WWX 30PK	30	DeLuxe Warm White	20000 +	2200	1815
				13812	F40D/MM 30PK	30	MAXI-MISER™ — Daylight	15000 ♦	2650	2410
				13796	♦F40D 30PK	30	Daylight	20000 +	2600	2290
				10502	F40D 6PK	30	Daylight	20000 +	2600	2290
				13814	F40W/MM 30PK	30	MAXI-MISER™ — White	15000 ♦	3250	2960
				13818	♦F40W 30PK	30	White	20000 +	3150	2770
				13799	F40SGN 30PK	30	Sign White	20000 +	2400	1990
				13794	F40/C50 30PK	30	Chroma 50. 5000K.	20000 +	2200	1890
				13795	F40/C75 30PK	30	Chroma 75. 7500K.	20000 +	2000	1720
				13797	F40N 30PK	30	Natural	20000 +	2100	1745
				10510	F40N 6PK	24	Natural	20000 +	2100	1745
				10535	F40CG 6PK	24	Cool Green	20000 +	2850	2365
				10514	F40B 6PK	24	Blue	20000 +	1200	720
				10517	F40G 6PK	24	Green	20000 +	4350	2130
				10522	F40GO 6PK	24	Gold	20000 +	2400	1765
				10520	F40PK 6PK	24	Pink	20000 +	1100	—
				10524	F40R 6PK	24	Red	20000 +	200	60
				13854	FR40CW 30PK	30	Cool White — Reflector. 135° Window (308)	20000 +	2600	2055

WATT-MISER® AND MAXI-MISER™ E-TYPE FLUORESCENT LAMPS (Rapid Start)

This lamp is recommended only for use on high frequency ballasts.

Watts	Diameter (Inches)	Length (Inches)	Base	Product Code	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	Rated Avg. Life (Hours) at 3 or more Hours Per Start	Lumens (Initial)	Lumens (Mean) at 40% Rated Avg. Life
28	1 1/2"	48	Medium Bipin	14377	FE40LW/MM 30PK	30	WATT-MISER — Lite White	15000	2700	2415
				14448	FE40SP30/MM 30PK	30	WATT-MISER — SP30. 3000K.	15000	2625	2350
				14375	FE40SP35/MM 30PK	30	WATT-MISER — SP35. 3500K.	15000	2625	2350
				14453	FE40SP41/MM 30PK	30	WATT-MISER — SP41. 4100K.	15000	2575	2300
40	1 1/2"	48	Medium Bipin	14378	FE40LW/MM 30PK	30	MAXI-MISER — Lite White	15000	3700	3310
				14449	FE40SP30/MM 30PK	30	MAXI-MISER — SP30. 3000K.	15000	3600	3225
				14376	FE40SP35/MM 30PK	30	MAXI-MISER — SP35. 3500K.	15000	3600	3225
				14455	FE40SP41/MM 30PK	30	MAXI-MISER — SP41. 4100K.	15000	3600	3225

BRIGHT STIK® LIGHTING UNIT

Bright Stik lighting units are easy to install, ready to plug in, 25" fluorescent lamp-in-holder units. The 33-watt units need no special wiring, no fixture and are U.L. listed. The "WX" White phosphors provide a warm, pleasing color; blending with incandescent light. "Gro and Sho" Plant Light "Bright Stik" units promote growth and enhance the attractiveness of a wide variety of green foliage and house plants.



Lamp Watts *	Tube Diameter (Inches)	Overall Length (Inches)	Base	Product Code	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	Rated Avg. Life (Hours) at 1 Hour Per Start	Lumens (Initial)
33	1 1/2"	25	2-Pin Plug Recept.	44214	FBS25/WX	6	MISER™ — "Bright Stik"™ — White. Self-ballasted lighting unit complete with plug-in 6-foot cordset and feed-thru "on-off" switch	5000††	725
				43682	FBS25/GS	6	"Bright Stik"™ — "Gro and Sho" — Wide Spectrum. Self-ballasted lighting unit complete with plug-in 6-foot cordset and feed-thru "on-off" switch	5000††	470

†† Rated average life at 3 hours per start: 7500 hours.

308. When base pins or Recessed Double Contact bases are horizontal, window opening is centered in a vertical plane through lamp axis.

♦♦ On Rapid Start Circuits. Lamp life on Preheat Circuits is 15,000 hours except as otherwise noted.

* Includes ballast watts.

♦ **FOR ENERGY SAVINGS** — Use a matching color **WATT-MISER®** lamp. (See Chart — page 56)



40-WATT INSTANT START LAMPS (No Starters Used)

Note: These lamps will not operate on Preheat or Rapid Start Circuits

Watts	Diameter (Inches)	Length (Inches)	Base	Product Code	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	Rated Avg. Life (Hours) at 3 Hours Per Start	Lumens (Initial)	Lumens (Mean) at 40% Rated Avg. Life
40	1 1/2"	48	Med. Bipin	10420	F40T12/CW/IS	24	Cool White	7500	3100	2850
	2 1/8"	60	Mog. Bipin	10575	F40T17/CW/IS	12	Cool White	7500	2950	2700

OPTIMISER LAMPS (Rapid Start)

For use only with General Electric M28 Optimiser ballasts.

Use on any other ballast is not recommended.

Watts	Diameter (Inches)	Length (Inches)	Base	Product Code	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	Rated Avg. Life (Hours) at 3 Hours Per Start	Lumens (Initial)	Lumens (Mean) at 40% Rated Avg. Life
28	1 1/2"	48	Medium Bipin	13823	FM28LW 30PK	30	OPTIMISER—Lite White	18000 +	2550	2300
				13824	FM28WW 30PK	30	OPTIMISER—Warm White	18000 +	2475	2225
				13810	FM28SP35 30PK	30	OPTIMISER—SP35, 3500K.	18000 +	2500	2225

MOD-U-LINE® U-SHAPED LAMPS (Rapid Start)

General Electric F-40 MOD-U-LINE "U-Shaped" Fluorescent Lamps are available in two leg spacings—3 5/8" and 6". Approximate lamp length (base face to outside of glass bend) on F40/U/3 lamps with 3 5/8" leg spacing is 22 1/4 inches. On F40 /U/6 lamps with 6" leg spacing, approximate lamp length (base face to outside of glass bend) is 22 1/2 inches.

Watts	Bulb Diameter (Inches)	Length (Inches)	Base	Product Code	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	Rated Avg. Life (Hours) at 3 Hours Per Start	Lumens (Initial)	Lumens (Mean) at 40% Rated Avg. Life
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3 5/8" Leg Spacing

20/25	1 1/2 U-shape	12	Medium Bipin	12054	F20T12/CW/U/3	12	Cool White	9000	1150	1000
		24		12056	F20T12/WW/U/3	12	Warm White	9000	1150	1000
35				12202	F40LW/U/3/WMII	12	WATT-MISER II—Lite White	12000‡	2730	2375
				12199	F40CW/U/3/WM	12	WATT-MISER—Cool White	12000‡	2600	2265
40				12200	F40WW/U/3/WM	12	WATT-MISER—Warm White	12000‡	2600	2265
				12201	F40W/U/3/WM	12	WATT-MISER—White	12000‡	2600	2265
				39631	♦F40CW/U/3	12	Cool White	12000‡	2825	2455
				43149	F40CW/U/3 360-PAL	12	Cool White, Palletized—360 Lamps	12000‡	2825	2455
				39632	♦F40WW/U/3	12	Warm White	12000‡	2925	2545
				43150	F40WW/U/3 360-PAL	12	Warm White, Palletized—360 Lamps	12000‡	2925	2545
				14228	F40SP35/U/3 12PK	12	SP35, 3500K.	12000	2935	2550
				40538	F40CWX/U/3	12	DeLuxe Cool White	12000‡	2020	1675
				40539	F40WWX/U/3	12	DeLuxe Warm White	12000‡	1850	1535
				39633	♦F40W/U/3	12	White	12000‡	2850	2480
				12582	F40D/U/3	12	Daylight	12000‡	2525	2310

6" Leg Spacing

35	1 1/2 U-shape	24	Medium Bipin	12211	F40LW/U/6/WMII	12	WATT-MISER II—Lite White	12000‡	2730	2375
				12203	F40CW/U/6/WM	12	WATT-MISER—Cool White	12000‡	2600	2265
40				12207	F40WW/U/6/WM	12	WATT-MISER—Warm White	12000‡	2600	2265
				12209	F40W/U/6/WM	12	WATT-MISER—White	12000‡	2600	2265
				39433	♦F40CW/U/6	12	Cool White	12000‡	2875	2500
				40131	F40CW/U/6 360-PAL	12	Cool White, Palletized—360 Lamps	12000‡	2875	2500
				39434	♦F40WW/U/6	12	Warm White	12000‡	3025	2630
				40132	F40WW/U/6 360-PAL	12	Warm White, Palletized—360 Lamps	12000‡	3025	2630
				14227	F40SP35/U/6 12PK	12	SP35, 3500K.	12000‡	2935	2550
				14816	F40SPX30/U/6 12PK	12	SPX30, 3000K.	12000‡	3085	2680
				14815	F40SPX35/U/6 12PK	12	SPX35, 3500K.	12000‡	2900	2530
				40540	F40CWX/U/6	12	DeLuxe Cool White	12000‡	2020	1675
				40541	F40WWX/U/6	12	DeLuxe Warm White	12000‡	1950	1620
				39435	♦F40W/U/6	12	White	12000‡	2850	2480
				13462	F40D/U/6	12	Daylight	12000‡	2700	2465

‡ Rated average life at 3 hours per start. At 12 hours per start, rated average life is 18,000 hours.

♦ **FOR ENERGY SAVINGS**—Use a matching color **WATT-MISER®** lamp (See chart—page 56)



FLUORESCENT—TWIN TUBE & SLIMLINE LAMPS

MOD-U-LINE® TWIN TUBE FLUORESCENT LAMPS (Preheat)

General Electric MOD-U-LINE twin tube fluorescent lamps are available in two wattages. Approximate lamp length is measured from base face to outside of glass bend. A starter is located within lamp base.



Watts	Bulb Diameter (Inches)	Length (Inches)	Base	Product Code	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	Rated Avg. Life (Hours) at 3 Hours Per Start	Lumens (Initial)	Lumens (Mean) at 40% Rated Avg. Life
7	1/2	5 ⁵ / ₁₆	G23 (Single Ended Bipin)	14115	F7TT/SPX27 10PK	10	Specification Series DeLuxe. 2700K. (305)	10000	400	330
9		6 ⁹ / ₁₆		14117	F9TT/SPX27 10PK	10	Specification Series Deluxe. 2700K. (305)	10000	600	510

*Based on engineering estimates.

■ Lamp overall length (Not including lamp holder).

305. Made in West Germany.

SLIMLINE LAMPS (Instant Start)

Watts, Life and Lumen Ratings shown are for 425 ma. operation unless otherwise noted.

Length (Inches)	Diameter (Inches)	Watts	Base	Product Code	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	Rated Avg. Life (Hours) at 3 Hours Per Start	Lumens (Initial)	Lumens (Mean) at 40% Rated Avg. Life
24	1 1/2"	20		10691	F24T12/CW	24	Cool White	7500	1150	1035
				10694	F24T12/WW	24	Warm White	7500	1150	1035
36		30		10709	F36T12/CW	24	Cool White	7500	2000	1800
				10711	F36T12/WW	24	Warm White	7500	2000	1800
42	3/4	25		10720	F42T6/CW	24	Cool White (1)	7500	1750	1490
				10721	F42T6/WW	24	Warm White (1)	7500	1820	1545
				10722	F42T6/CWX	24	DeLuxe Cool White (1)	7500	1300	1040
48	1 1/2"	35		10735	F48T12/CW	24	Cool White	7500	2300	2070
		30		44971	F48T12/LW/WM II	24	WATT-MISER II—Lite White	9000†	2700	2460
				15183	F48T12/SP30/WM	24	WATT-MISER—SP30. 3000K.	9000†	3080	2830
				14319	F48T12/SP35/WM	24PK	WATT-MISER—SP35. 3500K.	9000†	2635	2400
				13048	F48T12/SP41/WM	24	WATT-MISER—SP41. 4100K.	9000†	2635	2400
				44967	F48T12/CW/WM	24	WATT-MISER—Cool White	9000†	2550	2320
				10528	F48T12/WW/WM	24	WATT-MISER—Warm White	9000†	2550	2320
		40		10748	♦F48T12/CW	24	Cool White	9000†	3000	2760
				10749	F48T12/CW 6PK	24	Cool White	9000†	3000	2760
				10755	♦F48T12/WW	24	Warm White	9000†	3050	2805
				11416	F48T12/RW3	24	Regal White™ 3000K.	9000†	2710	2360
				15088	F48T12/SPX30	24	SPX30. 3000K.	9000†	3110	2860
				10757	F48T12/CWX	24	DeLuxe Cool White	9000†	2050	1825
				10761	F48T12/D	24	Daylight	9000†	2500	2300
				10760	F48T12/W	24	White	9000†	3000	2760
				10765	F48T12/N	24	Natural	9000†	1900	1690
		50		10797	F60T12/CW	24	Cool White	12000‡	3550	3195
				44203	F60T12/CW 6PK	24	Cool White	12000‡	3550	3195
60				10798	F60T12/D	24	Daylight	12000‡	3150	2835
		40		10805	F64T6/CW	24	Cool White (1)	7500	2800	2350
				10807	F64T6/WW	24	Warm White (1)	7500	2800	2350
64	3/4			10808	F64T6/CWX	24	DeLuxe Cool White (1)	7500	2050	1680
		50		10822	F64T12/CW	24	Cool White	12000‡	3850	3505
				10829	F72T8/CW	24	Cool White (1)	7500	3000	2800
72	1	35		10831	F72T8/CW 6PK	24	Cool White (1)	7500	3000	2800
				10835	F72T8/WW 6PK	24	Warm White (1)	7500	3000	2800
				13743	F72T12/CW 15PK	15	Cool White	12000‡	4700	4275
	1 1/2			10866	F72T12/CW 6PK	12	Cool White	12000‡	4700	4275
				13751	F72T12/WW 15PK	15	Warm White	12000‡	4650	4230
				13746	F72T12/CWX 15PK	15	DeLuxe Cool White	12000‡	3150	2835
		55		13748	F72T12/D 15PK	15	Daylight	12000‡	3800	3420

† Rated Average life at 3 hours per start. At 12 hours per start, rated average life is 10,000 hours.

‡ Rated average life at 3 hours per start. At 12 hours per start, rated average life is 18,000 hours.

(1) Watts, Life and Lumen ratings shown are for 200 ma. operation.

♦ FOR ENERGY SAVINGS—Use a matching color **WATT-MISER®** lamp (See chart—page 56)



SLIMLINE LAMPS (Instant Start) (Continued)

Length (Inches)	Diameter (Inches)	Watts	Base	Product Code	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	Rated Avg. Life (Hours) at 3 Hours Per Start	Lumens (Initial)	Lumens (Mean) at 40% Rated Avg. Life
72	1½	35		10891	F72T12/N 6PK	12	Natural	12000†	3050	2745
				10897	F72T12/GO 6PK	12	Gold	12000‡	3040	...
84		65		13764	F84T12/CW 15PK	15	Cool White	12000‡	5400	4915
				13765	F84T12/D 15PK	15	Daylight	12000‡	4425	3985
96	1	40		41802	F96T8/CW/WM	24	WATT-MISER — Cool White (1)	7500*	3700	3400
		50		10912	♦F96T8/CW	24	Cool White (1)	7500*	4200	3860
				10914	F96T8/CW 6PK	24	Cool White (1)	7500*	4200	3860
				10916	F96T8/WW	24	Warm White (1)	7500*	4200	3860
	1½	60		13742	F96T12/LW/WMII 15PK	15	WATT-MISER II — Lite White	12000‡	6000	5520
				44903	F96T12/LW/WMII 6PK	12	WATT-MISER II — Lite White	12000‡	6000	5520
				13758	F96T12/SP41/WM 15PK	15	WATT-MISER — SP41. 4100K.	12000‡	5800	5275
				13729	F96T12/CW/WM 15PK	15	WATT-MISER — Cool White	12000‡	5600	5150
				13736	F96T12/WW/WM 15PK	15	WATT-MISER — Warm White	12000‡	5800	5335
				13757	F96T12/RW3/WM 15PK	15	WATT-MISER — Regal White™. 3000K.	12000‡	5100	4285
				14201	F96T12/SP30/WM 15PK	15	WATT-MISER — SP30. 3000K.	12000‡	5950	5415
				13849	F96T12/SP35/WM 15PK	15	WATT-MISER — SP35. 3500K.	12000‡	5800	5275
				14629	F96T12/SPX30/WM 15PK	15	WATT-MISER — SPX30. 3000K.	12000‡	5830	5360
				14630	F96T12/SPX35/WM 15PK	15	WATT-MISER — SPX35. 3500K.	12000‡	5830	5360
				13732	F96T12/CWX/WM 15PK	15	WATT-MISER — Deluxe Cool White	12000‡	4000	3600
				13737	F96T12/WWX/WM 15PK	15	WATT-MISER — Deluxe Warm White	12000‡	3870	3485
				13733	F96T12/D/WM 15PK	15	WATT-MISER — Daylight	12000‡	4840	4405
				13735	F96T12/W/WM 15PK	15	WATT-MISER — White	12000‡	5600	5150
				13756	F96T12/C50/WM 15PK	15	WATT-MISER — Chroma 50. 5000K.	12000‡	4100	3690
		75		13722	♦F96T12/CW 15PK	15	Cool White	12000‡	6300	5800
				10964	F96T12/CW 6PK	12	Cool White	12000‡	6300	5800
				13727	♦F96T12/WW 15PK	15	Warm White	12000‡	6500	5980
				13753	♦F96T12/RW3 15PK	15	Regal White™. 3000K.	12000‡	5650	4745
				14067	F96T12/SP35 15PK	15	SP35. 3500K.	12000‡	6600	6005
				15110	F96T12/SPX30 15PK	15	SPX30. 3000K.	12000‡	6630	6100
				13723	♦F96T12/CWX 15PK	15	DeLuxe Cool White	12000‡	4500	4050
				10979	F96T12/CWX 6PK	12	DeLuxe Cool White	12000‡	4500	4050
				13728	♦F96T12/WWX 15PK	15	DeLuxe Warm White	12000‡	4350	3915
				13724	♦F96T12/D 15PK	15	Daylight	12000‡	5450	5015
				10985	F96T12/D 6PK	12	Daylight	12000‡	5450	5015
				13726	♦F96T12/W 15PK	15	White	12000‡	6400	5890
				13752	♦F96T12/C50 15PK	15	Chroma 50. 5000K.	12000‡	4650	4185
				13725	F96T12/N 15PK	15	Natural	12000‡	4300	3870
				10990	F96T12/N 6PK	12	Natural	12000‡	4300	3870
				10999	F96T12/CG 6PK	12	Cool Green	12000‡	5800	5220
				11003	F96T12/GO 6PK	12	Gold	12000‡	4800	3840
				11001	F96T12/PK 6PK	12	Pink	12000‡	2400	1295
				11005	F96T12/R 6PK	12	Red	12000‡	400	215
				13755	FR96T12/CW 15PK	15	Cool White—Reflector. 135° window	12000‡	5200	4680

HIGH OUTPUT LAMPS (800 MA. Rapid Start)

Length (Inches)	Diameter (Inches)	Watts ■	Base	Product Code	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	Rated Avg. Life (Hours) at 3 Hours Per Start	Lumens (Initial)	Lumens (Mean) at 40% Rated Avg. Life
18	1½	25	Recessed Double Contact	10204	F18T12/CW/HO	24	Cool White	9000†	1060	800
24		35		10261	F24T12/CW/HO	24	Cool White	9000†	1700	1410
				10275	F24T12/D/HO	24	Daylight	9000†	1400	1160
				10274	F24T12/SGN/HO	24	Sign White	9000†	1320	1095

* Rated average life at 3 hours per start. At 12 hours per start, rated average life is 10,000 hours.

(1) Watts, Life, and Lumen ratings shown are for 200 ma. operation.

† Rated average life at 3 hours per start. At 12 hours per start, rated average life is 13,000 hours.

‡ Rated average life at 3 hours per start. At 12 hours per start, rated average life is 18,000 hours.

♦ **FOR ENERGY SAVINGS**—Use a matching color **WATT-MISER®** lamp (See chart—page 56)



HIGH OUTPUT LAMPS (800 MA. Rapid Start)

Length (Inches)	Diameter (Inches)	Watts ■	Base	Product Code	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	Rated Avg. Life (Hours) at 3 Hours Per Start	Lumens (Initial)	Lumens (Mean) at 40% Rated Avg. Life	
36	1 1/2	45	Recessed Double Contact 	10374	F36T12/CW/HO	24	Cool White	9000†	2850	2480	
				10380	F36T12/D/HO	24	Daylight	9000†	2400	2090	
				10388	F36T12/SGN/HO	24	Sign White	9000†	2190	1905	
42		55		10559	F42T12/CW/HO	24	Cool White	9000†	3500	3115	
				10560	F42T12/D/HO	24	Daylight	9000†	3000	2610	
				10562	F42T12/SGN/HO	24	Sign White	9000†	2600	2260	
48		60		11179	F48T12/LW/HO/WMII	24	WATT-MISER II—Lite White	12000‡	4000	3480	
				14317	F48T12/SP41/HO/WM 24PK	24	WATT-MISER—SP41. 4100K.	12000‡	3865	3360	
				10773	F48T12/CW/HO	24	Cool White	12000‡	4300	3740	
10565				F48T12/WW/HO	24	Warm White	12000‡	4300	3740		
15114				F48T12/SPX30/HO	24	SPX30. 3000K.	12000‡	4380	3810		
10581				F48T12/CWX/HO	24	DeLuxe Cool White	12000‡	3050	2560		
10778				F48T12/D/HO	24	Daylight	12000‡	3600	3025		
10564				F48T12/W/HO	24	White	12000‡	4300	3740		
10573				F48T12/SGN/HO	24	Sign White	12000‡	3300	2770		
60				75	10585	F60T12/CW/HO	24	Cool White	12000‡	5400	4700
					11578	F60T12/CW/HO 6PK	24	Cool White	12000‡	5400	4700
					10583	F60T12/D/HO	24	Daylight	12000‡	4650	4045
10586		F60T12/SGN/HO			24	Sign White	12000‡	4150	3485		
64		80		10588	F64T12/CW/HO	24	Cool White	12000‡	5800	5045	
				10590	F64T12/D/HO	24	Daylight	12000‡	4900	4265	
				10593	F64T12/SGN/HO	24	Sign White	12000‡	4450	3740	
72				85	13697	F72T12/CW/HO 15PK	15	Cool White	12000‡	6650	5785
		13702			F72T12/WW/HO 15PK	15	Warm White	12000‡	6650	5785	
		15137			F72T12/SPX30/HO 15PK	15	SPX30. 3000K.	12000‡	6780	5900	
		13698			F72T12/CWX/HO 15PK	15	DeLuxe Cool White	12000‡	4550	3775	
		13699			F72T12/D/HO 15PK	15	Daylight	12000‡	5600	4870	
		13701			F72T12/SGN/HO 15PK	15	Sign White	12000‡	5100	4285	
		11291			F72T12/N/HO 6PK	12	Natural	12000‡	4500	3870	
84		100		13766	F84T12/CW/HO 15PK	15	Cool White	12000‡	7800	6785	
				13767	F84T12/D/HO 15PK	15	Daylight	12000‡	6900	6210	
				13768	F84T12/SGN/HO 15PK	15	Sign White	12000‡	6000	5040	
96				95	13720	F96T12/LW/HO/WMII 15PK	15	WATT-MISER II—Lite White	12000‡	8800	7655
		13721			F96T12/SP41/HO/WM 15PK	15	WATT-MISER—SP41. 4100K.	12000‡	8600	7840	
		13716			F96T12/CW/HO/WM 15PK	15	WATT-MISER—Cool White	12000‡	8300	7220	
		13719			F96T12/WW/HO/WM 15PK	15	WATT-MISER—Warm White	12000‡	8500	7395	
		14069			F96T12/SP35/HO/WM 15PK	15	WATT-MISER—SP35. 3500K.	12000‡	8550	7430	
		13717			F96T12/CWX/HO/WM 15PK	15	WATT-MISER—DeLuxe Cool White	12000‡	6100	5065	
		13718			F96T12/W/HO/WM 15PK	15	WATT-MISER—White	12000‡	8300	7220	
		110			13703	F96T12/CW/HO 15PK	15	Cool White	12000‡	9200	8005
					10960	F96T12/CW/HO 6PK	12	Cool White	12000‡	9200	8005
					13714	F96T12/WW/HO 15PK	15	Warm White	12000‡	9200	8005
					15119	F96T12/SPX30/HO 15PK	15	SPX30. 3000K.	12000‡	9380	8160
					13706	F96T12/CWX/HO 15PK	15	DeLuxe Cool White	12000‡	6600	5475
				13715	F96T12/WWX/HO 15PK	15	DeLuxe Warm White	12000‡	6550	5435	
				13708	F96T12/D/HO 15PK	15	Daylight	12000‡	7800	6785	
				13713	F96T12/W/HO 15PK	15	White	12000‡	9200	8005	
		13710		F96T12/SGN/HO 15PK	15	Sign White	12000‡	7300	6280		
		13707		F96T12/C50/HO 15PK	15	Chroma 50. 5000K	12000‡	6800	5440		
		13709		F96T12/N/HO 15PK	15	Natural	12000‡	6250	5375		
	35503	F96T12/GO/HO 6PK	12	Gold	12000‡	6200					

† Rated average life at 3 hours per start. At 12 hours per start, rated average life is 13,000 hours.

‡ Rated average life at 3 hours per start. At 12 hours per start, rated average life is 18,000 hours.

■ Shown to the nearest 5 watts.

316. Replacement lamp for existing fluorescent street lighting and other outdoor installations. For new installations, the F72T12/HO lamp is recommended.

345. Nominal lamp watts and initial lumens shown are for 1000 ma. operation.

♦ **FOR ENERGY SAVINGS**—Use a matching color **WATT-MISER®** lamp (See chart—page 56)



POWER GROOVE® LAMPS (1500 MA. Rapid Start)

Lumen Ratings shown are for grooves sideways—with grooves up and down, lumens and watts are approximately 5 per cent lower.

Length (Inches)	Diameter (Inches)	Watts ■	Base	Product Code	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	Rated Avg. Life (Hours) at 3 Hours Per Start*	Lumens (Initial)	Lumens (Mean) at 40% Rated Avg. Life
72	1 1/2	100 (345)	Mogul Bipin	13775	F100T12/CW/HO 15PK	15	Cool White—Street Lighting (316)	7500	6950	5560
48	2 1/8	95		13869	F48PG17/LW/WMII	12	WATT-MISER II — Lite White	12000	6360	4705
				47732	F48PG17/CW/WM	12	WATT-MISER — Cool White	12000	6000	4440
		110		10782	♦F48PG17/CW	12	Cool White	12000	6900	5100
				10788	F48PG17/D	12	Daylight	12000	6000	4440
72		165		10602	F72PG17/CW	8	Cool White	12000	11500	8510
				10603	F72PG17/D	8	Daylight	12000	9300	6880
96		185		47731	F96PG17/LW/WMII	8	WATT-MISER II — Lite White	12000	14900	11025
				42666	F96PG17/CW/WM	8	WATT-MISER — Cool White	12000	14000	10360
		215		11009	♦F96PG17/CW	8	Cool White	12000	16000	12160
				11015	F96PG17/WW	8	Warm White	12000	15000	11400
				11012	F96PG17/CWX	8	DeLuxe Cool White	12000	11000	7370
				11018	F96PG17/D	8	Daylight	12000	13300	10110

1500 MA. T-12 LAMPS (Rapid Start)

Length (Inches)	Diameter (Inches)	Watts ■	Base	Product Code	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	Rated Avg. Life (Hours) at 3 Hours Per Start*	Lumens (Initial)	Lumens (Mean) at 40% Rated Avg. Life
24	1 1/2	70		47619	FR24T12/CW/1500/HT	24	Mining. Cool White. Reflector. 135° Reflector (308,339)	9000	2600	...
				49783	FR24T12/CW/1500/HT 6PK	24	Mining. Cool White. Reflector. 135° Reflector. (308,339)	9000	2600	...
48		110		10751	F48T12/CW/1500	24	Cool White	10000†	6500	5000
				10753	F48T12/WW/1500	24	Warm White	10000†	6300	4850
72		165		13760	F72T12/CW/1500 15PK	15	Cool White	10000†	10000	7865
				13761	F72T12/WW/1500 15PK	15	Warm White	10000†	9600	7490
96		185		13790	F96T12/LW/1500/WMII15PK	15	WATT-MISER II — Lite White	9000♦	13800	10765
				13789	F96T12/CW/1500/WM 15PK	15	WATT-MISER — Cool White	9000♦	13000	10140
		215		13781	♦F96T12/CW/1500 15PK	15	Cool White	10000†	14000	11050
				13785	F96T12/WW/1500 15PK	15	Warm White	10000†	13600	10610
				13782	F96T12/CWX/1500 15PK	15	DeLuxe Cool White	10000†	10000	7000
				13783	F96T12/D/1500 15PK	15	Daylight	10000†	12000	9360
				13787	FR96T12/CW/1500 15PK	15	Cool White. Reflector. 135° Window (308)	10000†	11900	...

PLANT & AQUARIUM AND PLANT LIGHT LAMPS

Length (Inches)	Diameter (Inches)	Watts	Base	Product Code	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	Rated Avg. Life (Hours) at 3 Hours Per Start	Lumens (Initial)	Lumens (Mean) at 40% Rated Avg. Life
18	1	15	Medium Bipin	49892	F15T8/PL/AQ 6PK	24	Plant & Aquar. — Wide Spectrum	7500	535	...
				32726	F15T8/PL 6PK	24	Plant Light — "Gro and Sho"	7500	250	...
24	1 1/2	20		49891	F20T12/PL/AQ 6PK	24	Plant & Aquar. — Wide Spectrum	9000	805	...
				32727	F20T12/PL 6PK	24	Plant Light — "Gro and Sho"	9000	340	265
36	1	30		34315	F30T8/PL 6PK	24	Plant Light — "Gro and Sho"	7500	600	490
48	1 1/2	40		49893	F40PL/AQ 6PK	24	Plant & Aquar. — Wide Spectrum	20000 +	1950	...
				32728	F40PL 6PK	24	Plant Light — "Gro and Sho"	20000 +	850	630

* Rated average life at 3 hours per start. At 12 hours per start, rated average life is 15,000 hours.

† Rated average life at 3 hours per start. At 12 hours per start, rated average life is 12,500 hours.

♦ Rated average life at 3 hours per start. At 12 hours per start, rated average life is 11,250 hours.

■ Shown to the nearest 5 watts.

308. When base pins or Recessed Double Contact bases are horizontal, window opening is centered in a vertical plane through lamp axis.

339. For high ambient temperature applications. Nominal lamp watts and light output are peak values. Lamp requires special ballasting considerations.

♦ **FOR ENERGY SAVINGS**—Use a matching color **WATT-MISER®** lamp (See chart—page 56)



FLUORESCENT—ALL-WEATHER & CIRCLINE LAMPS

ALL-WEATHER LAMPS (1500 MA. Rapid Start)

In areas where severe or continued low temperatures and/or high wind velocities may be encountered, T-10 and T-10J (Jacketed) All-Weather lamps will provide higher lumen output than T-12 or T-12J lamps. In all still air environments, T-12 and T-12J (Jacketed) All-Weather lamps offer equal or superior lumen performance. For detailed data regarding light output vs. temperature, see our application publication.

Nominal lamp watts and light output for All-Weather Fluorescent Lamps are peak values. Actual watt and lumen values in service may be somewhat lower depending upon ambient temperature conditions.



Length (Inches)	Diameter (Inches)	Watts ■	Base	Product Code	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	Rated Avg. Life (Hours) ● at 3 Hours Per Start	Initial Peak Lumens		
48	1 ¹ / ₄	110	Recessed Double Contact	10742	F48T10/CW	24	Cool White	9000	6700		
				13001	F48T10/CW	6PK	24	Cool White	9000	6700	
				10745	F48T10/CWX	24	DeLuxe Cool White	9000	4650		
				10743	F48T10J/CW	12	Cool White—1 ¹³ / ₁₆ " dia. Clear glass outer jacket	9000	6700		
				10746	F48T10J/CWX	12	DeLuxe Cool White—1 ¹³ / ₁₆ " dia. Clear glass outer jacket	9000	4650		
60		135		39157	F60T10/CW	24	Cool White	9000	8500		
				13002	F60T10/CW	6PK	24	Cool White	9000	8500	
				40441	F60T10J/CW	12	Cool White—1 ¹³ / ₁₆ " dia. Clear glass outer jacket	9000	8500		
72		160		13776	F72T10/CW	15PK	15	Cool White	9000	10000	
				13778	F72T10/CWX	15PK	15	DeLuxe Cool White	9000	7800	
				10858	F72T10J/CW	8	Cool White—1 ¹³ / ₁₆ " dia. Clear glass outer jacket	9000	9400		
96		205		13780	F96T10/CW	15PK	15	Cool White	9000	14000	
				10945	F96T10J/CW	8	Cool White—1 ¹³ / ₁₆ " dia. Clear glass outer jacket	9000	14000		
				34206	F48T12/CW/1500/O	24	Cool White	10000†	6900		
48		1 ¹ / ₂		110	41606	F48T12J/CW/1500/O	12	Cool White—1 ¹³ / ₁₆ " dia. Clear glass outer jacket	10000†	6600	
72				170	13762	F72T12/CW/1500/O	15PK	15	Cool White	10000†	11300
					41612	F72T12J/CW/1500/O	8	Cool White—1 ¹³ / ₁₆ " dia. Clear glass outer jacket	10000†	10800	
					96	220	13788	F96T12/CW/1500/O	15PK	15	Cool White
					41613	F96T12J/CW/1500/O	8	Cool White—1 ¹³ / ₁₆ " dia. Clear glass outer jacket	10000†	15400	

CIRCLINE FLUORESCENT LAMPS

GE Circline Fluorescent lamps are designed and rated for operation in rapid start circuits. They will operate in conventional and preheat starter-type circuits and will attain full rated performance.

Outside Diameter (Inches)	Bulb Diameter (Inches)	Watts	Base	Product Code	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	Rated Avg. Life (Hours) at 3 or more Hours Per Start	Lumens (Initial)	Lumens (Mean) at 40% Rated Avg. Life
6 ¹ / ₂	1 ¹ / ₈	20		42732	FC6T9/CW	12	Cool White	12000	800	590
		42733		FC6T9/WW	12	Warm White	12000	825	610	
8 ¹ / ₄		22		33774	FC8T9/CW	12	Cool White	12000	1050	775
				11023	FC8T9/WW	12	Warm White	12000	1000	740
				49898	FC8T9/SW 6PK	12	Soft White. Replaces WWX	12000	800	590
				33775	FC8T9/CWX	12	DeLuxe Cool White	12000	850	630
				11026	FC8T9/D	12	Daylight	12000	850	630
12		32		33890	FC12T9/CW	12	Cool White	12000	1900	1445
				11034	FC12T9/WW	12	Warm White	12000	1800	1495
				49899	FC12T9/SW 6PK	12	Soft White. Replaces WWX	12000	1300	960
				33891	FC12T9/CWX	12	DeLuxe Cool White	12000	1400	1120
				11039	FC12T9/D	12	Daylight	12000	1500	1245
16		40		33893	FC16T9/CW	12	Cool White	12000	2600	2055
				11048	FC16T9/WW	12	Warm White	12000	2500	1850
				49900	FC16T9/SW 6PK	12	Soft White. Replaces WWX	12000	1900	1520
				33894	FC16T9/CWX	12	DeLuxe Cool White	12000	2000	1600

† Rated average life at 3 hours per start. At 12 hours per start, rated average life is 13,000 hours.

■ Shown to the nearest 5 watts.

● Rated average life at 3 hours per start. At 12 hours per start, rated average life is 10,500 hours.

FLUORESCENT—APPLIANCE, BLACK LIGHT & GERMICIDAL LAMPS



APPLIANCE (Home and Other) LAMPS

Fluorescent Appliance Lamps are designed primarily for intermittent burning service on appliances. Life and watts depend upon the characteristics of the ballasts used within the individual circuits. Rated average life is 4500 hours at 1 hour per start. **Pin ends to pin ends measurement will be approximately 1/4" less than the lamp length shown below.**

T-8



T-12



Length (Inches)	Diameter (Inches)	Watts	Base	Product Code	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	Rated Avg. Life (Hours) at 3 Hours Per Start	Lumens (Initial)	Lumens (Mean) at 40% Rated Avg. Life
22	1	18	Medium Bipin	10257	F22" T8/D/4	24	Daylight	7500	900	735
24				10259	F24" T8/CW/4	24	Cool White	7500	1175	995
26		19		10702	F26" T8/CW/4	24	Cool White	7500	1275	1020
	1 1/2	20		10253	F20T12/CW/26	24	Cool White	7500	1250	1000
28	1	19		10706	F28" T8/CW/4	24	Cool White	7500	1350	1080
	1 1/2	25		10281	F25T12/CW/28	24	Cool White	7500	1750	1575
				10282	F25T12/CW/28 6PK	24	Cool White	7500	1750	1575
				10286	F25T12/D/28	24	Daylight	7500	1450	1230
30	1	19		10349	F30" T8/CW/4	24	Cool White	7500	1400	1120
	1 1/2	21		10355	F30" T12/CW	24	Cool White	7500	1400	1120
33	1 1/2	25	10278	F25T12/CW/33	24	Cool White	7500	1950	1755	
			38201	F25T12/CW/33 6PK	24	Cool White	7500	1950	1755	
			10293	F25T12/WW/33	24	Warm White	7500	1950	1755	
			10299	F25T12/D/33	24	Daylight	7500	1650	1490	

BLACK LIGHT LAMPS

These lamps are not intended and should not be used for diagnostic or therapeutic purposes.

Length (Inches)	Diameter (Inches)	Watts	Base	Product Code	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	Rated Avg. Life (Hours) at 3 Hours Per Start
6	5/8	4	Miniature Bipin	10017	F4T5/BL	24	Black Light. UVA Source	6000
				10019	F4T5/BLB	24	Black Light Blue. UVA Source. Integral Filter	6000
9		6		10047	F6T5/BLB	24	Black Light Blue. UVA Source. Integral Filter	7500
12		8		10077	F8T5/BLB	24	Black Light Blue. UVA Source. Integral Filter	7500
18	1	15	Medium Bipin	35884	F15T8/BL 6PK	24	Black Light. UVA Source	7500
				35885	F15T8/BLB 6PK	24	Black Light Blue. UVA Source. Integral Filter	7500
24	1 1/2	20		10244	F20T12/BL 6PK	24	Black Light. UVA Source	9000
				34747	F20T12/BLB 6PK	24	Black Light Blue. UVA Source. Integral Filter	9000
18	1	25		47718	F25T8/BL	24	Black Light. UVA Source	7500
12	1 1/2 U-shape	20/25		12194	F20T12/BL/U/3	12	Black Light. UVA Source—Mod-U-Line®, 3 5/8" Leg Spacing	9000
		35/40		12057	F35T12/BL/U/3	12	Black Light. UVA Source—Mod-U-Line®, 3 5/8" Leg Spacing	7500
24		40		40537	F40BL/U/3	12	Black Light. UVA Source—Mod-U-Line®, 3 5/8" Leg Spacing	12000‡
48	1 1/2			10526	F40BL 6PK	24	Black Light. UVA Source	20000+
				10531	F40BLB 6PK	24	Black Light Blue. UVA Source. Integral Filter	20000+
72		85		37234	F72T12/BL/HO 6PK	12	Black Light. UVA Source High Output. For 800 ma. operation	12000‡

GERMICIDAL LAMPS

Length (Inches)	Diameter (Inches)	Watts	Base	Product Code	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	Rated Avg. Life (Hours) at 3 Hours Per Start
12	5/8	8	Min. Bipin	11077	G8T5	24	Clear—For use with starters	7500
18	1	15	Medium Bipin	11078	G15T8	24	Clear—For use with starters	7500
18		25		11082	G25T8	24	Clear—For use with starters	7500
36		30		11080	G30T8	24	Clear—For use with starters	7500

Lamp watts and rated average life ratings shown below are for 425 ma. operation.

36	3/4	35	Single Pin	11083	G36T6	12	Clear—Instant Start	7500
64		65		11086	G64T6	24	Clear—Instant Start	7500

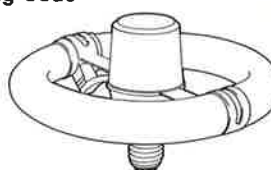
‡ Rated average life at 3 hours per start. At 12 hours per start, rated average life is 18,000 hours.



FLUORESCENT—CIRCLITE™, CIRCLE-MISER™ 22, LAMPS, & MOD-U-LINE® TWIN TUBE ADAPTER & KITS

PORTABLE LIGHTING PRODUCTS‡ CIRCLITE™ AND CIRCLE-MISER™ CONVERSION UNITS

Replace incandescent bulbs in portable lamps, swag lamps and ceiling sockets with Circlite or Circle-Miser 22 conversion units. They save over 50% on energy costs and the tubes last from 10 to 16 times longer than incandescent bulbs of equal lumen rating. Tubes are replaceable by re-using the adapter ballast which has a long life expectancy of 50,000 hours. U.L. listed.

Standard Incandescent Bulb	Rated Lumen Equivalent		Lamp Ordering Code		
	60 watt	8" Circlite	22 watt	FCA22/WW	
	100 watt	8" Circle-Miser 22	22 watt	FCM22/WW	
	50/100 Three-Way	10" Circlite	44 watt	FCA44/SW	
		10" Circlite	16/44 watt	FCA44/SW/2	

Watts *	Tube Diameter (Inches)	Diameter (Inches)	Base	Product Code	Lamp Ordering Code	Std. Pkg. Qty.	DESCRIPTION	Rated Avg. Life (Hours) at 3 Hours Per Start (1)(2)	Lumens (Initial)
22	1 1/8	8	Medium Screw	11387	FCA22/WW	6	MISER™ —Circlite™—C60—Warm White—Incandescent to Fluorescent Conversion Unit. Includes Circline tube and adapter ballast.	12000 (3)	870
44		10		47815	FCA44/SW	4	MISER™ —Circlite™—C100—Soft White—Incandescent to Fluorescent Conversion Unit. Includes Satellite tube and adapter ballast.	7500 (1)	1750
				10840	FCA44/SW C16PK	6	Circlite™—Soft White—Incandescent to Fluorescent Conversion Unit for commercial use. Includes Satellite tube and adapter ballast and anti-theft locks for use with portable lamps.	7500 (1)	1750
16/44				11386	FCA44/SW/2	4	MISER™ —Circlite™—C100/50—Soft White—Incandescent to Fluorescent Conversion Unit for 3-way sockets. Includes Satellite tube and adapter ballast. Switching sequence is HI-LO-HI-OFF.	7500 (1)	HI-1750 LO-580
44				11393	FCS10/SW/2	6	MISER™ —Circlite™—Replacement Satellite tube—Soft White. Use on adapter ballast for FCA44/SW and FCA44/SW/2. HI-LO operation only when used on FCA44/SW/2 adapter ballast.	7500 (1)	HI-1750 LO-580

CIRCLE-MISER 22 CONVERSION UNIT‡

22	1 1/8	8	Medium Screw	11389	FCM22/WW/CI	6	CIRCLE-MISER™ —Warm White—Incandescent to Fluorescent Conversion Unit. Commercial use. Includes Circline tube, adapter ballast and anti-theft locks for use with portable lamps.	12000 (3)	870
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MOD-U-LINE® TWIN TUBE SCREW-IN ADAPTERS‡



Watts *	Tube Diameter (Inches)	Base	Product Code	Lamp Ordering Code	Std. Pkg. Qty.	Description	Rated Avg. Life (Hours) at 3 Hours Start	Lumens (Initial)
7	1/2	Spec. Series DLX G23 Single Bipin	14513	FLA77TT/SPX27 5PK	5	Master Pack contains (5) compact twin tube fluorescent screw-in adapters for incandescent to fluorescent conversion. (305)	10000	400
9			14514	FLA9TT/SPX27 5PK	5	Master Pack contains (5) compact twin tube fluorescent screw-in adapters for incandescent to fluorescent conversion. (305)	10000	600

305. Made in West Germany.

MOD-U-LINE® TWIN TUBE HARD WIRE COMPONENTS KITS‡



Watts *	Tube Diameter (Inches)	Base	Product Code	Lamp Ordering Code	Std. Pkg. Qty.	Description	Rated Avg. Life (Hours) at 3 Hours Start	Lumens (Initial)
7	1/2	G23 (lamp)	14511	7TTK 5PK	5	This Master Container contains 5 boxes-1 kit each. Each kit contains (1) each of F7TT/SPX27 lamp, 6G1079 ballast, bottom mount socket, side mount socket, instruction sheet and jumper wire. (305)	10000	400
9			14512	9TTK 5PK	5	This Master Container contains 5 boxes-1 kit each. Each kit contains (1) each of F9TT/SPX27 lamp, 6G1079 ballast, bottom mount socket, side mount socket, instruction sheet and jumper wire. (305)	10000	600

305. Made in West Germany

(1) Satellite bulb 7500 hours per start; 5000 hours at 1 hour per start.

(2) Adapter ballast designed for 50,000 hours life.

(3) At 12 hours per start, rated average life is 16,000 hours.

‡ See Portable Lighting Products Sales Plan for terms and conditions.

* Includes ballast watts.



MINIATURE & SEALED BEAM LAMPS

General Electric Miniature, and Sealed Beam Lamps

INTRODUCTION

On the following pages is a numerical listing of General Electric miniature and sealed beam lamps. In this listing, each lamp is identified by an industry standard number that has been assigned by the American National Standards Institute (ANSI). The number describes a specific lamp design and indicates all physical and electrical characteristics of the lamp. If additional technical information other than lamp bulb, base, voltage and current are needed, refer to the General Electric Miniature, Subminiature and Sealed Beam Catalog.

General Electric miniature and sealed beam lamps are designed primarily for applications requiring specific size, long life and low cost. Typical applications for these lamps are in:

Aircraft	Construction Equipment	Flashlights/Hand Lanterns	Scientific Equipment
Automobiles	Emergency Lighting	Indicators	Telephone
Business Machines	Farm Equipment	Marine	Toys/Games

Most popular miniature and sealed beam lamps are listed numerically below.

MINIATURE LAMPS

PR2 —Flashlight	51 —Indicator	194 —Auto	425 —Hand Lantern	1820 —Indicator
PR3 —Flashlight	53 —Auto, Indicator	222 —Flashlight	502 —Hand Lantern	1829 —Indicator
PR6 —Flashlight	55 —Instrument	259 —Radio/TV Indicator	555 —Coin/Novelty	1835 —Indicator
PR13 —Flashlight	57 —Auto & Instrument	305 —Aircraft	755 —Indicator	1864 —Aircraft
12 —Radio	67 —Auto	313 —Aircraft	1156 —Auto/Truck	TEL/24X —Telephone
27 —Hand Lantern	89 —Auto	327 —Aircraft	1157 —Auto/Truck	TEL/120MB —Telephone
44 —Indicator	161 —Auto	387 —Indicator	1819 —Indicator	TEL/120PSB —Telephone
47 —Radio, TV & Indicator				

SEALED BEAM LAMPS

4000 —Auto Headlamp	4416 —Spotlamp, Signal	4546-1 —Hand Lantern	6014 —Auto Headlamp	7613 —Emergency Bldg. Ltg.
4405 —Spotlamp	4515 —Spotlamp	4578 —C.I.M. Flood	6015 —Auto Headlamp	7613-1 —Emergency Bldg. Ltg.
4411 —Tractor Flood	4535 —Spotlamp	4579 —C.I.M. Headlamp	6052 —Auto Headlamp	7672-1 —Emergency Bldg. Ltg.
4414 —Emergency Bldg. Ltg.	4546 —Hand Lantern	4652 —Auto Headlamp		

MINIATURE LAMPS

Lamp No.	Bulb	Base	Design	
			Volts	Watts or Amps
DE3021	DE-8mm	Festoon	12.0	3W
DE3022	DE-8mm	Festoon	12.0	5W
DE3175	DE-10mm	Festoon	12.0	10W
DE3423	DE-13mm	Festoon	12.0	5W
DE3425	DE-13mm	Festoon	12.0	10W
HR9000	PAR-18	G-6 Two Pin	6.0	7W
HR9001	PAR-18	G-6 Two Pin	6.0	12W
HR9002	PAR-18	G-6 Two Pin	12.0	12W
ML20/OF-28	T-8	Disk	28.0	20W
ML20/R-28	T-8	Disk	28.0	20W
PR2	B-3½	S.C. Miniature Flanged	2.38	.50A
PR3	B-3½	S.C. Miniature Flanged	3.57	.50A
PR4	B-3½	S.C. Miniature Flanged	2.33	.27A
PR6	B-3½	S.C. Miniature Flanged	2.47	.30A
PR7	B-3½	S.C. Miniature Flanged	3.7	.30A
PR9	B-3½	S.C. Miniature Flanged	2.7	.15A
PR12	B-3½	S.C. Miniature Flanged	5.95	.50A
PR13	B-3½	S.C. Miniature Flanged	4.75	.50A
PR15	B-3½	S.C. Miniature Flanged	4.82	.50A
PR18	B-3½	S.C. Miniature Flanged	7.2	.55A
PR20	B-3½	S.C. Miniature Flanged	8.63	.50A
PR30	B-3½	S.C. Miniature Flanged	3.75	.86A

Lamp No.	Bulb	Base	Design	
			Volts	Watts or Amps
PR-33	B-3½	S.C. Miniature Flanged	2.6	1.0A
PR-37	B-3½	S.C. Prefocus	2.45	1.2A
PR-38	B-3½	S.C. Miniature Flanged	2.0	1.2A
P25-1	S-8	S.C. Bayonet	13.5	1.86A
P25-2	S-8	D.C. Index	13.5	1.86A
R19/5	G-6	S.C. Bayonet	13.5	.37A
R19/10	G-6	S.C. Bayonet	13.5	.74A
W10/3	T-3¼	Wedge	13.5	.22A
6	S-8	D.C. Bayonet	6.4	3.0A
6A1	T-2	Tel. Slide #1	6.0	.12-.16A
6C1	T-2	Tel. Slide #1	6.0	.035-.045A
10	G-3½	Miniature Two Pin	2.5	.50A
10C5	T-2	Tel. Slide #5	10.0	.035-.045A
11	T-1¼	Wedge	2.5	.20A
12	G-3½	Miniature Two Pin	6.3	.15A
12A1	T-2	Tel. Slide #1	12.0	.09-.11 A
13	G-3½	Miniature Screw	3.7	.30A
14	G-3½	Miniature Screw	2.47	.30A
15	G-4½	Miniature Two Pin	7.0	.40A
18	T-1¼	Wedge	14.0	.04A
19	G-3½	Miniature Two Pin	14.4	.10A
24B1	T-2	Tel. Slide #1	24.0	.035-.045A



MINIATURE & SEALED BEAM LAMPS

MINIATURE LAMPS (Continued)

Lamp No.	Bulb	Base	Design	
			Volts	Watts or Amps
24D1	T-2	Tel. Slide #1	24.0	.09-.11A
24EX	T-2	Tel. Slide #1	24.0	.032-.038A
24E1	T-2	Tel. Slide #1	24.0	.032-.038A
24E2	T-2	Tel. Slide #2	24.0	.032-.038A
24F5	T-2	Tel. Slide #5	24.0	.032-.038A
24X	T-2	Special #2	24.0	.032-.038A
27	G-4½	Miniature Screw	4.9	.30A
35A1	T-2	Tel. Slide #1	35.0	.035-.045A
35A2	T-2	Tel. Slide #2	35.0	.035-.045A
37	T-1¾	Wedge	14.0	.09A
37E	T-1¾	Wire Terminal	14.0	.09A
40	T-3¼	Miniature Screw	6.3	.15A
43	T-3¼	Miniature Bayonet	2.5	.50A
44	T-3¼	Miniature Bayonet	6.3	.25A
47	T-3¼	Miniature Bayonet	6.3	.15A
48C1	T-2	Tel. Slide #1	48.0	.032-.038A
48C2	T-2	Tel. Slide #2	48.0	.032-.038A
48D1	T-2	Tel. Slide #1	48.0	.017-.025A
48D2	T-2	Tel. Slide #2	48.0	.017-.025A
49	T-3¼	Miniature Bayonet	2.0	.06A
51	G-3½	Miniature Bayonet	7.5	.22A
53	G-3½	Miniature Bayonet	14.4	.12A
53X	G-3½	Miniature Bayonet	14.4	.12A
55	G-4½	Miniature Bayonet	7.0	.41A
55B1	T-2	Tel. Slide #1	55.0	.09-.11A
55C1	T-2	Tel. Slide #1	55.0	.045-.06A
55C2	T-2	Tel. Slide #2	55.0	.045-.06A
56X	T-1¾	Wedge	5.0	.115A
57	G-4½	Miniature Bayonet	14.0	.24A
57X	G-4½	Miniature Bayonet	14.0	.24A
60A1	T-2	Tel. Slide #1	60.0	.045-.055A
60MB	T-2½	Miniature Bayonet	60.0	.05A
60PSB	T-2	Tel. Slide #5	60.0	.05A
63	G-6	S.C. Bayonet	7.0	.63A
64	G-6	D.C. Bayonet	7.0	.63A
67	G-6	S.C. Bayonet	13.5	.59A
68	G-6	D.C. Bayonet	13.5	.59A
70	T-1¾	Wedge	14.0	.15A
73	T-1¾	Wedge	14.0	.08A
73E	T-1¾	Wire Terminal	14.0	.08A
74	T-1¾	Wedge	14.0	.10A
75X	T-1¾	Wedge	2.5	.35A
79	T-1¾	Wedge	6.0	.20A
81	G-6	S.C. Bayonet	6.5	1.02A
82	G-6	D.C. Bayonet	6.5	1.02A
84	T-1¾	Wedge	6.3	.04A
85	T-1¾	Wedge	28.0	.04A
85E	T-1¾	Wire Terminal	28.0	.04A
86	T-1¾	Wedge	6.3	.20A
88	S-8	D.C. Bayonet	6.8	1.91A
89	G-6	S.C. Bayonet	13.0	.58A
90	G-6	D.C. Bayonet	13.0	.58A
93	S-8	S.C. Bayonet	12.8	1.04A
94	S-8	D.C. Bayonet	12.8	1.04A
97	G-6	S.C. Bayonet	13.5	.69A
97A	G-6	S.C. Bayonet	13.5	.69A
105	B-6	S.C. Bayonet	12.8	1.07A
112	TL-3	Miniature Screw	1.2	.22A
116	G-4½	Miniature Screw	2.65	.41A
120MB	T-2½	Miniature Bayonet	120.0	.025A
120PS	T-2	Wire Terminal	120.0	.025A
120PSB	T-2	Tel. Slide #5	120.0	.025A
124	T-3¼	Wedge	14.0	.27A
124E-1	T-3¼	Wire Terminal	14.0	.27A
127	T-3¼	Wedge	2.47	.275A
131	G-3½	Miniature Screw	1.3	.10A

Lamp No.	Bulb	Base	Design	
			Volts	Watts or Amps
147	T-3¼	Wedge	7.0	.43A
148	T-3¼	Wedge	7.0	.63A
157	G-6	Miniature Screw	5.8	1.10A
158	T-3¼	Wedge	14.0	.24A
159	T-3¼	Wedge	6.3	.15A
161	T-3¼	Wedge	14.0	.19A
168	T-3¼	Wedge	14.0	.35A
192	T-3¼	Wedge	13.0	.33A
193E-1	T-3¼	Wedge-Extended Leads	14.0	.33A
194	T-3¼	Wedge	14.0	.27A
194A	T-3¼	Wedge	14.0	.27A
194E	T-3¼	Wire Terminal	14.0	.27A
194E-1	T-3¼	Wire Terminal	14.0	.27A
194NA	T-3¼	Wedge	14.0	.27A
198	S-8	D.C. Index	12.8	2.25A
			14.0	.59A
199	S-8	S.C. Bayonet	12.8	2.25A
209	B-6	S.C. Bayonet	6.5	1.78A
210	B-6	D.C. Bayonet	6.5	1.78A
211-2	T-3	Miniature Cap	12.8	.97A
212-2	T-3	Miniature Cap	13.5	.74A
214-2	T-3	Miniature Cap	13.5	.52A
222	TL-3	Miniature Screw	2.25	.25A
222X	TL-3	Miniature Screw	2.25	.25A
238	T-3¼	Miniature Bayonet	6.3	.50A
243	TL-3	Miniature Screw	2.33	.27A
245	G-3½	Miniature Screw	2.46	.50A
251	T-1¾	S.C. Midget Flanged	2.47	.30A
252	TL-1½	S.C. Midget Flanged	2.5	.35A
253	TL-1½	Midget Grooved	2.5	.35A
253X	TL-1½	Midget Grooved	2.5	.35A
257	G-4½	Miniature Bayonet	14.0	.27A
	FLASHER			
258	G-4½	Miniature Screw	14.0	.27A
	FLASHER			
259	T-3¼	Wedge	6.3	.25A
261	TL-1½	Midget Grooved	2.5	.35A
265	G-3½	Miniature Bayonet	28.0	.08A
267	T-3¼	Miniature Bayonet	6.3	.15A
	FLASHER			
268	T-1¾	S.C. Midget Flanged	2.5	.35A
280	T-3¼	Wedge	10.0	.13A
285	T-3¼	Wedge	5.0	.09A
293	G-4½	Miniature Bayonet	14.0	.33A
301	G-5	S.C. Bayonet	28.0	.17A
302	G-5	D.C. Bayonet	28.0	.17A
303	G-6	S.C. Bayonet	28.0	.30A
304	G-6	D.C. Bayonet	28.0	.30A
305	S-8	S.C. Bayonet	28.0	.51A
305IF	S-8	S.C. Bayonet	28.0	.51A
306	S-8	D.C. Bayonet	28.0	.51A
307	S-8	S.C. Bayonet	28.0	.67A
307IF	S-8	S.C. Bayonet	28.0	.67A
307R	S-8	S.C. Bayonet	28.0	.67A
307SB	S-8	S.C. Bayonet	28.0	.67A
308	S-8	D.C. Bayonet	28.0	.67A
308IF	S-8	D.C. Bayonet	28.0	.67A
309	S-11	S.C. Bayonet	28.0	.9A
309IF	S-11	S.C. Bayonet	28.0	.9A
310	S-11	D.C. Bayonet	28.0	.9A
311	S-11	S.C. Bayonet	28.0	1.29A
311R	S-11	S.C. Bayonet	28.0	1.29A
313	T-3¼	Miniature Bayonet	28.0	.17A
315	S-8	S.C. Bayonet	28.0	.90A
316	T-3¼	Miniature Bayonet	6.0	.70A
323	T-1¾	Special	3.0	.19A



MINIATURE & SEALED BEAM LAMPS

MINIATURE LAMPS (Continued)

Lamp No.	Bulb	Base	Design	
			Volts	Watts or Amps
325	T-1¼	Special	3.0	.19A
327	T-1¼	S.C. Midget Flanged	28.0	.04A
327AS-15	T-1¼	S.C. Midget Flanged	28.0	.04A
327R	T-1¼	S.C. Midget Flanged	28.0	.04A
328AS-10	T-1¼	S.C. Midget Flanged	6.0	.20A
328	T-1¼	S.C. Midget Flanged	6.0	.20A
330	T-1¼	S.C. Midget Flanged	14.0	.08A
334	T-1¼	Midget Grooved	28.0	.04A
335	T-1¼	Midget Screw	28.0	.04A
336	T-1¼	Midget Grooved	14.0	.08A
344	T-1¼	S.C. Midget Flanged	10.0	.014A
345	T-1¼	S.C. Midget Flanged	6.0	.04A
352X	G-3½	Miniature Screw	3.0	.07A
356	G-3½	Miniature Bayonet	28.0	.17A
370	T-1¼	S.C. Midget Flanged	18.0	.04A
378	T-1¼	Midget Screw	6.3	.20A
381	T-1¼	S.C. Midget Flanged	6.3	.20A
382	T-1¼	S.C. Midget Flanged	14.0	.08A
385	T-1¼	S.C. Midget Flanged	28.0	.04A
386	T-1¼	Midget Grooved	14.0	.08A
387	T-1¼	S.C. Midget Flanged	28.0	.04A
388	T-1¼	Midget Grooved	28.0	.04A
394	T-1¼	S.C. Midget Flanged	12.0	.04A
395X	B-3½	S.C. Miniature Flanged	3.0	.07A
400	T-3¼	Wedge	28.0	.10A
406	G-4½	Miniature Screw	2.6	.30A
407	FLASHER	Miniature Screw	4.9	.30A
425	G-4½	Miniature Screw	5.0	.50A
447	T-3¼	Wedge	6.3	.15A
455	G-4½	Miniature Bayonet	6.5	.50A
456	FLASHER	Miniature Bayonet	28.0	.17A
458	G-3½	Miniature Screw	1.5	.20A
464	T-3¼	Wedge	28.0	.17A
500	T-4½	Miniature Screw	9.84	.50A
502	G-4½	Miniature Screw	5.1	.15A
503	G-4½	Miniature Bayonet	5.1	.15A
509K	G-6	Candelabra Screw	24.0	.18A
555	T-3¼	Wedge	6.3	.25A
558	T-3¼	Wedge	13.0	.33A
561	T-3	Rigid Loop	12.8	.97A
562	T-3	Rigid Loop	13.5	.74A
563	T-3	Rigid Loop	13.5	.52A
583D	T-1¼	Wire Terminal	5.0	.06A
585	T-3¼	Wedge	28.0	.04A
605	G-4½	Miniature Screw	6.15	.50A
612	G-3½	Miniature Two Pin	6.3	.25A
623	G-6	S.C. Bayonet	28.0	.37A
624	G-6	D.C. Bayonet	28.0	.37A
631	G-6	S.C. Bayonet	14.0	.63A
656	T-3¼	Wedge	28.0	.06A
657	T-3¼	Wedge	28.0	.08A
658	T-3¼	Wedge	14.0	.08A
673	T-1¼	Special	4.5	.29A
680	T-1	Wire Terminal	5.0	.06A
683	T-1	Wire Terminal	5.0	.06A
683AS15	T-1	Wire Terminal	5.0	.06A
685	T-1	Sub-Midget Flanged	5.0	.06A
705	S-8	S.C. Bayonet	28.0	.51A
715	T-1	Wire Terminal	5.0	.115A
718	T-1	Sub-Midget Flanged	5.0	.115A
718AS15	T-1	Sub-Midget Flanged	5.0	.115A
755	T-3¼	Miniature Bayonet	6.3	.15A
756	T-3¼	Miniature Bayonet	14.0	.08A
757	T-3¼	Miniature Bayonet	28.0	.08A
767	T-2¼	Miniature Bayonet	6.0	12W
773	T-2¾	G-4 Two Pin	12.0	8W
774	T-2¼	G-4 Two Pin	12.0	8W

Lamp No.	Bulb	Base	Design	
			Volts	Watts or Amps
778	T-2¾	G-4 Two Pin	6.0	20W
782	T-2¾	G-4 Two Pin	12.0	20W
783	T-2¼	G-4 Two Pin	12.0	12W
784	T-2¼	G-4 Two Pin	6.0	6W
785	T-2¼	G-4 Two Pin	6.0	8W
786	T-2¼	G-4 Two Pin	6.0	12W
787	T-2¼	G-4 Two Pin	6.0	10W
788	T-2¼	G-4 Two Pin	6.0	3.33A
789	T-2¾	G-4 Two Pin	12.0	14W
790	T-2¾	G-4 Two Pin	14.0	25W
791	T-2¾	G-4 Two Pin	14.0	35W
792	T-2¾	G-4 Two Pin	14.0	50W
794	T-2¾	G-4 Two Pin	10.5	15.7W
820	T-3¼	Wedge	6.0	.14A
880	T-3¼	Axial Plastic Prefocus	12.8	2.1A
881	T-3¼	Right Angle Plastic Prefocus	12.8	2.1A
882	T-2¼	Special Plastic	12.8	.35A + 10%
884	T-3¼	Special Plastic	12.8	2.1A
885	T-3¼	Special Plastic Axial	12.8	3.9A
904	T-5	Wedge	13.5	.69A
906	T-5	Wedge	13.0	.69A
908	T-5	Wedge	6.0	1.5A
909	T-5	Wedge	6.0	.62A
912	T-5	Wedge	12.8	1.0A
914	T-5	Wedge	4.0	.90A
915	T-5	Wedge	12.0	.75A
917	T-5	Wedge	12.8	1.2A
921	T-5	Wedge	12.8	1.4A
922	T-5	Wedge	12.8	.98A
926	T-5	Wedge	4.0	1.8A
927	T-5	Wedge	6.0	1.2A
929	T-5	Wedge	6.0	1.0A
947	T-3¼	Miniature Bayonet	9.84	.50A
957	T-4½	Miniature Bayonet	9.84	.50A
1003	B-6	S.C. Bayonet	12.8	.94A
1004	B-6	D.C. Bayonet	12.8	.94A
1034	S-8	D.C. Index	12.8	1.80A
1047	RP-11	S.C. Bayonet	14.0	.59A
1062	RP-11	D.C. Bayonet	26.0	2.70A
1073	S-8	D.C. Bayonet	40.0	.92A
1076	S-8	S.C. Bayonet	12.8	1.80A
1076	S-8	D.C. Bayonet	12.8	1.80A
1096	S-8	D.C. Pf. (S)	6.0	4.5A
1129	S-8	S.C. Bayonet	6.4	2.63A
1133	RP-11	S.C. Bayonet	6.2	3.91A
1141	S-8	S.C. Bayonet	12.8	1.44A
1142	S-8	D.C. Bayonet	12.8	1.44A
1152	S-8	D.C. Bayonet	12.8	1.34A
1154	S-8	D.C. Index	6.4	2.63A
1155	G-6	S.C. Bayonet	7.0	.75A
1156	S-8	S.C. Bayonet	13.5	.59A
1157	S-8	D.C. Index	12.8	2.10A
1157A	S-8	D.C. Index	14.0	.59A
1157NA	S-8	D.C. Index	12.8	2.10A
1176	S-8	D.C. Bayonet	14.0	.59A
1195	RP-11	S.C. Bayonet	12.8	1.34A
1196	RP-11	D.C. Bayonet	14.0	.59A
1203	S-8	S.C. Bayonet	12.5	3.00A
1209	RP-11	S.C. Pf. (B)	28.0	.71A
1224	G-6	D.C. Bayonet	6.1	4.1A
1229	S-8	D.C. Bayonet	34.0	.16A
1240	G-6½	D.C. Pf. (A)	40.0	.38A
1251	G-6	S.C. Bayonet	32.0	3.6A
			28.0	.23A



MINIATURE & SEALED BEAM LAMPS

MINIATURE LAMPS (Continued)

Lamp No.	Bulb	Base	Design	
			Volts	Watts or Amps
1252	G-6	D.C. Bayonet	28.0	.23A
1302	T-3¼	Miniature Bayonet	6.3	.15A
1308	B-6	S.C. Bayonet	28.0	.56A
1309	B-6	S.C. Bayonet	28.0	.52A
1315	G-5	S.C. Bayonet	2.5	1.0A
1317	B-6	S.C. Bayonet	6.0	.51A
1383	R-12	S.C. Bayonet	13.0	20W
1384	R-12	S.C. Bayonet	6.0	20W
1385	R-12	S.C. Bayonet	28.0	20W
1388	R-12	D.C. Bayonet	24.0	20W
1392	T-3	Two Pin on Reflector	6.0	20.4W
1408	T-3¼	Miniature Bayonet	10.0	.13A
1414	T-4½	Miniature Bayonet	12.0	.46A
1416	T-4½	Miniature Bayonet	12.8	.80A
1424	S-6	S.C. Bayonet	3.7	2.75A
1434	T-5	S.C. Bayonet	3.7	2.75A
1440	S-6	D.C. Index	4.0	1.0A
1445	G-3½	Miniature Bayonet	18.0	.15A
			14.4	.135A
1447	G-3½	Miniature Screw	18.0	.15A
1449	G-3½	Miniature Screw	14.0	.20A
1450	G-3½	Miniature Bayonet	24.0	.035A
1460	S-8	D.C. Pf. (A)	6.5	2.75A
1460X	S-8	D.C. Pf. (A)	6.5	2.75A
1464	G-5	Miniature Bayonet	22.0	.25A
1468	S-8	D.C. Pf. (S)	6.0	4.5A
1468X	S-8	D.C. Pf. (S)	6.0	4.5A
1487	T-3¼	Miniature Screw	14.0	.20A
1489	T-5	S.C. Bayonet	6.5	2.75A
1490	T-3¼	Miniature Bayonet	3.2	.16A
1493	S-8	D.C. Bayonet	6.5	2.75A
1495	T-4½	Miniature Bayonet	28.0	.30A
1495X	T-4½	Miniature Bayonet	28.0	.30A
1503	RP-11	S.C. Pf. (B)	5.9	6.53A
1534	S-6	D.C. Index	5.0	.55A
			28.0	.34A
1561	S-11	S.C. Pf. (B)	6.3	4.0A
1563	S-8	S.C. Bayonet	28.0	.76A
1565	S-8	S.C. Pf. (S)	5.1	1.75A
1580X	S-8	S.C. Bayonet	28.0	.93A
1591	S-8	S.C. Bayonet	28.0	.61A
1591IF	S-8	S.C. Bayonet	28.0	.61A
1594	S-8	D.C. Bayonet	6.0	5.0A
1612	S-8	D.C. Bayonet	5.4	1.90A
1619	S-8	S.C. Bayonet	6.7	1.90A
1630	S-8	D.C. Pf. (A)	6.5	2.75A
1631X	S-8	D.C. Pf. (A)	6.5	2.75A
1634	S-8	D.C. Pf. (A)	20.0	1.0A
1638	S-8	D.C. Bayonet	28.0	1.02A
1649	S-8	D.C. Pf. (A)	6.5	2.75A
1651	S-8	S.C. Bayonet	5.0	.60A
1662	S-8	D.C. Index	28.0	.93A
			28.0	.34A
1665	S-8	S.C. Bayonet	28.0	.80A
1665IF	S-8	S.C. Bayonet	28.0	.80A
1680	S-8	S.C. Bayonet	6.0	4.10A
1680X	S-8	S.C. Bayonet	6.0	4.10A
1683	S-8	S.C. Bayonet	28.0	1.02A
1691	S-8	S.C. Bayonet	28.0	.61A
1691IF	S-8	S.C. Bayonet	28.0	.61A
1692	S-8	D.C. Bayonet	28.0	.61A
1726X	S-11	D.C. Bayonet	12.5	3.0A
1731	S-11	S.C. Pf. (B)	6.3	6.6A
1759	S-11	S.C. Pf. (B)	6.1	4.1A
1762D	T-1¼	Wire Terminal	28.0	.04A
1763	S-11	S.C. Pf. (B)	6.1	4.1A
1764D	T-1¼	Wire Terminal	28.0	.04A
1777	S-8	S.C. Bayonet	12.8	1.52A
1810	T-3¼	Miniature Bayonet	6.3	.40A
1813	T-3¼	Miniature Bayonet	14.4	.10A

Lamp No.	Bulb	Base	Design	
			Volts	Watts or Amps
1815	T-3¼	Miniature Bayonet	14.0	.20A
1816	T-3¼	Miniature Bayonet	13.0	.33A
1818	T-3¼	Miniature Bayonet	24.0	.17A
1819	T-3¼	Miniature Bayonet	28.0	.04A
1820	T-3¼	Miniature Bayonet	28.0	.10A
1822	T-3¼	Miniature Bayonet	36.0	.10A
1828	T-3¼	Miniature Bayonet	37.5	.05A
1829	T-3¼	Miniature Bayonet	28.0	.07A
1835	T-3¼	Miniature Bayonet	55.0	.05A
1843	T-3¼	Miniature Bayonet	28.0	.022A
1846	T-3¼	Miniature Screw	.8	.033A
1847	T-3¼	Miniature Bayonet	6.3	.15A
1850	T-3¼	Miniature Bayonet	5.0	.09A
1850W	T-3¼	Miniature Bayonet	5.0	.09A
1864	T-3¼	Miniature Bayonet	28.0	.17A
1866	T-3¼	Miniature Bayonet	6.3	.25A
1869D	T-1¼	Wire Terminal	10.0	.14A
1873	T-3¼	Miniature Bayonet	28.0	.20A
1874	T-5	S.C. Bayonet	3.7	2.75A
1876	T-5	S.C. Bayonet	3.5	2.50A
1876X	T-5	S.C. Bayonet	3.5	2.50A
1886	T-4½	Miniature Bayonet	6.3	.90A
1889	T-3¼	Miniature Bayonet	14.0	.27A
1891	T-3¼	Miniature Bayonet	14.0	.24A
1892	T-3¼	Miniature Bayonet	14.4	.12A
1893	T-3¼	Miniature Bayonet	14.0	.33A
1895	G-4½	Miniature Bayonet	14.0	.27A
1895R	G-4½	Miniature Bayonet	14.0	.27A
1906	T-3¼	Miniature Bayonet	5.0	.07A
1939X	T-7	S.C. Bayonet	28.0	50W
1940	T-7	S.C. Bayonet	14.0	50W
1944	T-7	S.C. Bayonet	14.0	3.57A
1944X	T-7	S.C. Bayonet	14.0	3.57A
1960	T-4	Tab	11.0	60W
1962	T-3	Wire Terminal	8.5	7.3A
1962B	T-3	Wire Terminal	8.5	7.3A
1962TX	T-3	Wire Terminal	8.5	7.3A
1964	T-3	Special Sleeve	28.0	150W
1967	T-3	Special Sleeve	28.0	150W
1968	T-3	Double Slide	28.0	25W
1970	T-3	Special Sleeve	28.0	100W
1970X	T-3	Special Sleeve	28.0	100W
1974	T-3	Wire Terminal	6.0	20W
1974D	T-3	Wire Terminal	6.0	20W
1975	T-3	Double Slide	12.8	25W
1976	T-3	Double Slide	13.0	75W
1977	T-3	Double Slide	8.5	7.3A
1978X	T-3	Special	10.0	100W
1983	T-4	Wire Terminal	10.0	10A
1986	T-4	Wire Terminal	28.0	250W
1987	T-4	D.C. Bayonet	28.0	150W
2057	S-8	D.C. Index	12.8	2.1A
			14.0	.48A
2057NA	S-8	D.C. Index	12.8	2.1A
			14.0	.48A
2058U	S-8	Wire Terminal	12.8	2.10A
			14.0	.48A
2075	T-3	Double Slide	12.8	25W
2112D	T-1¼	Wire Terminal	6.3	.20A
2121D	TL-3	Wire Terminal	2.25	.25A
2124D	TL-1½	Wire Terminal	2.5	.35A
2137D	T-2	Wire Terminal	28.0	.035-.045A
2157D	T-3¼	Wire Terminal	6.3	.15A
2158D	T-1¼	Wire Terminal	3.0	.017A
2159D	T-3¼	Wire Terminal	14.0	.08A
2162D	T-1¼	Wire Terminal	14.0	.10A
2169D	T-1¼	Wire Terminal	2.5	.35A
2174D	T-1¼	Wire Terminal	12.0	.04A
2180D	T-1¼	Wire Terminal	6.3	.04A
2181D	T-1¼	Wire Terminal	6.3	.20A



MINIATURE & SEALED BEAM LAMPS

MINIATURE LAMPS (Continued)

Lamp No.	Bulb	Base	Design	
			Volts	Watts or Amps
2187D	T-1 $\frac{3}{4}$	Wire Terminal	28.0	.04A
2188U	T-3 $\frac{1}{4}$	Wire Terminal	28.0	.08A
2232	S-8	S.C. Bayonet	28.0	.643A
2232SB	S-8	S.C. Bayonet	28.0	.643A
2233	S-8	S.C. Bayonet	28.0	.766A
2242	S-8	Wire Terminal	12.8	2.10A
			14.0	.59A
2331	RP-11	D.C. Pf. (S)	5.9	4.66A
			6.2	4.49A
2338	RP-11	D.C. Pf. (S)	5.9	4.66A
			6.2	4.49A
2600	T-1 $\frac{1}{2}$	Wire Terminal	3.5	.72A
2601	TL-1 $\frac{1}{2}$	Wire Terminal	3.5	2.5W
2604X	TL-2 $\frac{3}{4}$	G-4 Two Pin	5.0	10W
2605	TL-2 $\frac{3}{4}$	G-4 Two Pin	6.0	10W
2700	T-1 $\frac{1}{2}$	S.C. Midget Flanged	3.5	.72A
2701	TL-1 $\frac{1}{2}$	S.C. Midget Flanged	3.5	2.5W
2759	S-11	S.C. Prefocus (B)	6.1	4.1A
3011	S-11	S.C. Bayonet	28.0	1.29A
3026	T-2	Wire Terminal	6.3	13.2W
3027	T-2	G-4	6.3	13.2W
5004CW	T-5	Miniature Pinless	a.c.	4W
5004WW	T-5	Miniature Pinless	a.c.	4W
5008CW	T-5	Miniature Pinless	a.c.	8W
5008R	T-5	Miniature Pinless	a.c.	8W
5008WW	T-5	Miniature Pinless	a.c.	8W
5013CW	T-5	Miniature Pinless	a.c.	13W
5013R	T-5	Miniature Pinless	a.c.	13W
5013WW	T-5	Miniature Pinless	a.c.	13W
5104WW	T-5	Miniature Bi-Pin	a.c.	4W
5106WW	T-5	Miniature Bi-Pin	a.c.	6W
5108WW	T-5	Miniature Bi-Pin	a.c.	8W
5113WW	T-5	Miniature Bi-Pin	a.c.	13W
7327	T-1 $\frac{3}{4}$	Bi-Pin M-23	28.0	.04A
7378	T-1 $\frac{3}{4}$	Bi-Pin M-23	28.0	.04A
7387	T-1 $\frac{3}{4}$	Bi-Pin M-23	28.0	.04A
7695	T-3 $\frac{1}{4}$	S.C. Bayonet	12.8	50W
8261	TL-1 $\frac{1}{2}$	Bi-Pin M-23	2.5	.35A

NEON GLOW LAMPS

Lamp No.	Bulb	Base	Design	
			Volts	Watts or Amps
A1H	T-2	S.C. Midget Flange	95	$\frac{1}{10}$ W
B1A	T-3 $\frac{1}{4}$	Miniature Bayonet	65	$\frac{1}{25}$ W
B2A	T-3 $\frac{1}{4}$	Miniature Bayonet	95	$\frac{1}{5}$ W
C7A	T-2	S.C. Midget Flange	65	$\frac{1}{15}$ W
C9A	T-2	S.C. Midget Flange	95	$\frac{1}{4}$ W
8AB	T-2	Tel Slide #1	65	$\frac{1}{15}$ W

SEALED BEAM LAMPS

Lamp No.	Bulb	Base	Design	
			Volts	Watts or Amps
4000	PAR 46	3 Contact Lugs	12.8/12.8	37.5W/60W
4001	PAR 46	2 Contact Lugs	12.8	37.5W
4001R	PAR 46	2 Contact Lugs	12.8	37.5W
4013	PAR 46	Screw Terminals	6.4	25W
4014	PAR 36	Screw Terminals	6.4	18W
4019	PAR 46	Screw Terminals	6.2	30W
4020	PAR 46	3 Contact Lugs	6.4/6.4	30W/30W
4031	PAR 46	3 Contact Lugs	6.4/6.4	45W/45W
4040	PAR 46	3 Contact Lugs	12.8/12.8	37.5W/60W
4042	PAR 36	Screw Terminals	6.4	12W
4044	PAR 36	Screw Terminals	12.0	12W
4044-1	PAR 36	Slip-on Terminals	12.0	12W
4078	PAR 46	2 Contact Lugs	6.4	50W
4308	PAR 36	3 Screw Terminals	6.4/6.4	25W/12W
4313	PAR 36	Screw Terminals	13.0	250W
4340	PAR 36	Screw Terminals	48.0	80W
4346	PAR 36	Screw Terminals	5.3	0.5A
4350	PAR 36	Screw Terminals	36.0	60W
4402A	PAR 36	Screw Terminals	28.0	18W
4405	PAR 36	Screw Terminals	12.8	30W
4405-1	PAR 36	Slip-on Terminals	12.8	30W
4406	PAR 36	Screw Terminals	12.8	35W
4406-1	PAR 36	Slip-on Terminals	12.8	35W
4409X	PAR 36	Screw Terminals	12.8	35W
4410	PAR 36	Screw Terminals	12.8	35W
4411	PAR 36	Screw Terminals	12.8	35W
4411-1	PAR 36	Slip-on Terminals	12.8	35W
4412	PAR 46	Screw Terminals	12.8	35W
4412-1	PAR 46	Slip-on Terminals	12.8	35W
4412A	PAR 46	Screw Terminals	12.8	35W
4412A-1	PAR 46	Slip-on Terminals	12.8	35W
4413	PAR 46	Screw Terminals	12.8	35W
4413R	PAR 46	Screw Terminals	12.8	35W
4414	PAR 36	Screw Terminals	12.8	18W
H4414	PAR 36	Screw Terminals	12.8	18W
4414-1	PAR 36	Slip-on Terminals	12.8	18W
4414A	PAR 36	Screw Terminals	12.8	18W
4414R	PAR 36	Screw Terminals	12.8	18W
4415	PAR 36	Screw Terminals	12.8	35W
4415A	PAR 36	Screw Terminals	12.8	35W
4416	PAR 36	Screw Terminals	12.8	30W
4416-1	PAR 36	Slip-on Terminals	12.8	30W
4416A	PAR 36	Screw Terminals	12.8	30W
4416B	PAR 36	Screw Terminals	12.8	30W
4416R	PAR 36	Screw Terminals	12.8	30W
4419	PAR 46	Screw Terminals	12.8	35W
4420	PAR 46	3 Contact Lugs	12.8/12.8	30W/30W
4421	PAR 46	Slip-on Terminals	13.0	100W
4422	PAR 36	Screw Terminals	12.8	35W
4425R	PAR 36	3 Screw Terminals	12.8/12.8	50W/18W
4427	PAR 46	Screw Terminals	12.8	35W
4431	PAR 46	3 Contact Lugs	12.8/12.8	45W/35W
4433A	PAR 56	3 Contact Lugs	14.0/14.0	40W/40W
4433R	PAR 56	3 Contact Lugs	14.0/14.0	40W/40W
4434A	PAR 46	Screw Terminals	12.8	40W
4435	PAR 46	Screw Terminals	12.8	30W
4436	PAR 46	Screw Terminals	12.8	35W
4436R	PAR 46	Screw Terminals	12.8	35W
4439X	PAR 46	2 Contact Lugs	12.8	18W
4440X	PAR 36	3 Contact Lugs	12.8/12.8	40W/40W
4440X-1	PAR 36	3 Slip-on Terminals	12.8/12.8	40W/40W
4446	PAR 36	Screw Terminals	12.8	25W
4459	PAR 46	3 Slip-on Terminals	12.8/12.8	40W/40W



SEALED BEAM LAMPS (Continued)

Lamp No.	Bulb	Base	Design	
			Volts	Watts or Amps
4460X	PAR 36	3 Screw Terminals	12.8/12.8	40W/40W
4460X-4	PAR 36	3 Screw Terminals	12.8/12.8	60W/60W
4461	PAR 36	Screw Terminals	12.8	60W
4464	PAR 36	Screw Terminals	12.8	60W
4464R	PAR 36	Screw Terminals	12.8	60W
4466	PAR 36	Screw Terminals	12.8	60W
4467	PAR 46	3 Contact Lugs	12.8/12.8	50W/35W
4468	PAR 36	Slip-on Terminals	5.3	0.5A
4478	PAR 46	2 Contact Lugs	13.0	60W
4492	PAR 46	3 Contact Lugs	12.8/12.8	60W/60W
4502	PAR 36	Screw Terminals	28.0	50W
4505	PAR 36	Screw Terminals	28.0	50W
4509	PAR 36	Screw Terminals	13.0	100W
4509X	PAR 36	Screw Terminals	13.0	100W
4509-2	PAR-36	Screw Terminals	13.0	100W
4510	PAR 36	Screw Terminals	6.4	25W
4511	PAR 36	Screw Terminals	6.2	30W
4515	PAR 36	Screw Terminals	6.4	30W
4516	PAR 36	Screw Terminals	6.2	30W
4519	PAR 36	Screw Terminals	13.0	100W
4522	PAR 46	Screw Terminals	13.0	250W
4530	PAR 46	Screw Terminals	26.0	5.3A
4531	PAR 46	Screw Terminals	12.5	40W
4535	PAR 46	Screw Terminals	6.4	30W
4537	PAR 46	Screw Terminals	13.0	100W
4537-1	PAR 46	Slip-on Terminals	13.0	100W
4537-2	PAR 46	Screw Terminals	13.0	100W
4537X	PAR 46	Screw Terminals	13.0	100W
4541	PAR 56	Screw Terminals	28.0	450W
4543	PAR 56	Screw Terminals	12.5	100W
4545	PAR 56	Screw Terminals	12.0	100W
4546	PAR 36	Screw Terminals	4.7	0.5A
4546-1	PAR 36	Slip-on Terminals	4.7	0.5A
4547	PAR 36	Screw Terminals	4.75	1.25A
4547-4	PAR 36	Screw Terminals	4.75	1.25A
4551	PAR 46	Screw Terminals	28.0	250W
4552	PAR 64	Screw Terminals	28.0	250W
4553	PAR 46	Screw Terminals	28.0	250W
4554	PAR 46	Screw Terminals	28.0	450W
Q4554	PAR 46	Screw Terminals	28.0	450W
4555	PAR 64	Screw Terminals	115.0	1,000W
4557	PAR 64	Screw Terminals	28.0/28.0	1,000W/400W
4559	PAR 64	Screw Terminals	28.0	600W
Q4559	PAR 64	Screw Terminals	28.0	600W
Q4559X	PAR 64	Screw Terminals	28.0	600W
4570	PAR 46	Screw Terminals	28.0	150W
4571	PAR 46	Screw Terminals	28.0	150W
4572	PAR 46	Screw Terminals	28.0	150W
4578	PAR 46	2 Contact Lugs	28.0	60W
4579	PAR 46	3 Contact Lugs	28.0	80W/60W
4580	PAR 46	Screw Terminals	28.0	450W
4581	PAR 46	Screw Terminals	28.0	450W
4582	PAR 46	Screw Terminals	28.0	450W
4587	PAR 36	Screw Terminals	28.0	250W
4589	PAR 36	Screw Terminals	28.0	50W
4591	PAR 36	Screw Terminals	28.0	100W
4593	PAR 36	Screw Terminals	28.0	50W
4594	PAR 36	Screw Terminals	28.0	100W
4595	PAR 36	Screw Terminals	13.0	100W
4596	PAR 36	Screw Terminals	28.0	250W
Q4597	PAR 46	Screw Terminals	28.0	450W
4603	PAR 36	Screw Terminals	12.8	35W
4603X	PAR 36	Screw Terminals	12.8	35W
4606	PAR 46	Screw Terminals	5.7	3.7A
4614	PAR 36	Screw Terminals	6.0	100W
4626	PAR 36	Screw Terminals	28.0	150W
4627	PAR 36	Screw Terminals	28.0	100W
Q4629	PAR 64	Screw Terminals	28.0	600W
Q4631	PAR 36	Screw Terminals	13.0	250W

Lamp No.	Bulb	Base	Design	
			Volts	Watts or Amps
Q4632	PAR 36	Screw Terminals	13.0	250W
4633R	PAR 46	Slip-on Terminals	14.0	80W
4634	PAR 36	Screw Terminals	6.0	75W
4635	PAR 46	Screw Terminals	16.5	450W
4636	PAR 46	Screw Terminals	14.0	80W
4636-1	PAR 46	Slip-on Terminals	14.0	80W
4651	165 mm	2 Contact Lugs	12.8	50W
H4651	165 mm	2 Contact Lugs	12.8	50W
4652	165 mm	3 Contact Lugs	12.8/12.8	40W/60W
H4656	165 mm	3 Contact Lugs	12.8/12.8	35W/35W
4667	PAR 36	Mogul End Prongs	6.4	18W
4667-1	PAR 36	Slip-on Terminals	6.4	18W
4675	PAR 36	Slip-on Terminals	13.0	75W
Q4681	PAR 46	Screw Terminals	28.0	450W
4700	PAR 36	3 Screw Terminals	13.0/13.0	100W/100W
4705	PAR 46	3 Screw Terminals	13.0/13.0	100W/100W
4750	PAR 36	Screw Terminals	28.0	60W
4752	PAR 36	Screw Terminals	28.0	60W
4767	PAR 36	Mogul End Prongs	6.4	25W
4767-1	PAR 36	Slip-on Terminals	6.4	25W
4767-2	PAR 36	Screw Terminals	6.4	25W
4776	PAR 36	Screw Terminals	12.8	25W
4800	PAR 56	3 Contact Lugs	28.0/28.0	50W/40W
4811	PAR 36	3 Contact Lugs	28.0/28.0	110W/55W
4825R	PAR 36	3 Screw Terminals	28.0/28.0	50W/18W
4860	PAR 56	Waterproof Terminals	28.0/28.0	80W/60W
4863	PAR 56	Waterproof Terminals	28.0/28.0	80W/80W
4880	PAR 46	2 Contact Lugs	28.0	60W
4912-1	165 mm	Slip-on Terminals	12.8	50W
4913-1	165 mm	Slip-on Terminals	12.8	50W
4919-1	165 mm	Slip-on Terminals	12.8	50W
4921-1	165 mm	Slip-on Terminals	12.8	100W
H5001	PAR 46	2 Contact Lugs	12.8	50W
H5006	PAR 46	3 Contact Lugs	12.8/12.8	35W/35W
6006	PAR 56	3 Contact Lugs	6.1/6.2	50W/40W
6014	PAR 56	3 Contact Lugs	12.8/12.8	60W/50W
6015	PAR 56	3 Contact Lugs	12.8/12.8	60W/50W
H6024	PAR 56	3 Contact Lugs	12.8/12.8	65W/35W
6052	200 mm	3 Contact Lugs	12.8/12.8	65W/55W
H6054	200 mm	3 Contact Lugs	12.8/12.8	65W/35W
7400	PAR 36	Slip-on Terminals	12.8	35W
7400-1	PAR 36	Screw Terminals	12.8	35W
7400R	PAR 36	Slip-on Terminals	12.8	35W
7414Y	PAR 36	Screw Terminals	12.8	18W
H7550	PAR 36	Screw Terminals	6.0	8W
H7551	PAR 36	Screw Terminals	6.0	8W
H7552	PAR 36	Screw Terminals	6.0	10W
H7553	PAR 36	Screw Terminals	6.0	12W
H7554	PAR 36	Screw Terminals	6.0	20W
H7555	PAR 36	Screw Terminals	12.0	8W
H7556	PAR 36	Screw Terminals	6.0	6W
H7557	PAR 36	Screw Terminals	12.0	12W
H7600	PAR 36	Screw Terminals	12.8	37.5W
H7601-1	PAR 36	Slip-on Terminals	12.8	37.5W
H7604	PAR 36	Screw Terminals	12.8	50W
H7606	PAR 36	Screw Terminals	12.8	50W
H7609	PAR 46	Screw Terminals	12.8	50W
H7610	PAR 36	Screw Terminals	12.8	50W
H7612	PAR 46	Screw Terminals	12.8	37.5W
7613	PAR 36	Screw Terminals	6.0	8W
7613-1	PAR 36	Slip-on Terminals	6.0	8W
H7614	PAR 36	Screw Terminals	12.8	50W
H7616	PAR 36	Screw Terminals	12.8	37.5W
H7616-1	PAR 36	Slip-on Terminals	12.8	37.5W
H7619	PAR 46	Screw Terminals	12.8	50W
H7621-1	PAR 46	Slip-on Terminals	12.8	50W
H7635	PAR 46	Screw Terminals	12.8	50W
7672-1	PAR 36	Slip-on Terminals	6.0	7.2W
H7675-1	PAR 36	Slip-on Terminals	12.8	50W
H7921-1	165 mm	Slip-on Terminals	12.8	50W



AUDIO-VISUAL AND PHOTOGRAPHIC LAMPS

GENERAL ELECTRIC AUDIO-VISUAL AND PHOTOGRAPHIC LAMPS

...a name synonymous with quality and leadership

Introduction:

Photographic lamps are assigned a three letter code (DJL, ELH, etc.) by the American National Standards Institute (ANSI). The three letter code describes a specific lamp design and indicates all physical and electrical characteristics of that lamp. In this listing, ANSI coded lamps* are arranged alphabetically. Voltage, wattage, bulb, base and principal application are given. For additional technical information, see the General Electric Photographic Lamp Catalog (PH-3200-R).

Applications



OVERHEAD



SLIDE



COLOR
ENLARGER



FILMSTRIP



MICROFILM



FRONT/REAR
SCREEN



MOVIE



VIDEO
CAMERA
LIGHTS

THE MOST POPULAR LAMP TYPES (Alphabetically)

BBA—Photoflood

BLC—Editor-Proj.

BNF—Toy Proj.

CAL—Film Strip & Slide Proj.

CAR—Film Strip & Slide Proj.

CAX—Opt. Proj.

CDD—Slide Proj.

DAY/DAK—Slide Proj.

DDM—Slide Proj.

DEK/DFW/DHN—Slide Proj.

DNF—8mm. Proj.

DYS/DYV/BHC—Overhead Proj.

EBV—Photoflood

ECA—Photoflood

EHA—Overhead Proj.

EJL—16mm. Proj.

ELC—8mm. Proj.

ELD/EJN—Microfilm Proj.

ELH—Slide Proj.

EMM/EKS—16mm. Proj.

ENG—Slide Proj.

ENH—Slide Proj.

ENX—Overhead Proj.

EXR—Slide Proj.

EYB—Overhead Proj.

FAL—Overhead Proj.

FCS—Microfilm & Slide Proj.

FHS—Slide Proj.

* Some ANSI codes have been assigned to Large Lamp types. If you cannot locate a particular ANSI coded lamp, refer to the ANSI-code Reference Guide for Large Lamps on 34.

ANSI CODED LAMPS

Lamp Ordering Code	Watts	Volts	Primary Application and Description	Bulb	Base
BAB (1)....See Q20MR16/FL (BAB) on page 39					
BAH	300	115	Photocopy. I.F.	A-21	Medium
BAK	.75A	4	Sound Reproducer	T-5	S.C. Pref.
BBA	250	115-120	No. 1 Photoflood. I.F.	A-21	Medium
BCA	250	115-120	No. B1 Photoflood	A-21	Medium
BCK	500	120	☆Slide Projection—Quartzline®	★T-6	4-Pin
BDJ	200	120	▼Photoflood. Stage/Studio	B-12	D.C. Bay.
BDK	100	120	Movie Light—Reflector	R-14	D.C. Bay.
BEC	150	115-120	▼Projection	B-12	D.C. Bay.
BEH	150	120	Slide Projection	T-10	4-Pin
BEJ	200	115-120	▼Projection	B-12	D.C. Bay.
BEP	300	115-120	Movie Light—Reflector	R-30	Medium
BEV	150	20	Color printer	G-16½	S.C. Pref.
BEY	5A	20	Microscope Illuminator	G-16½	S.C. Pref.
BFA	375	115-120	Movie Light—Reflector	R-40	Medium
BFK....use BFL/BFK					
BFL/BFK	750	115-120	▼Bowling Score Projection	★T-20	Med. Pref.
BHB	250	120	▼★16mm Proj.—Quartzline®	MR-14	2-Pin Ven.
BHC....use DYS/DYC/BHC					
BHD/BHF	100	20	Microscope Illuminator.	S-11	S.C. Bay.
BHF....use BHD/BHF					
BHH	100	120	▼Projection	S-11	D.C. Bay.
BKR	30	115-125	Editor-Projection	S-11	Cand.
BKV	30	115-125	Editor-Projection	S-11	S.C. Bay
BLC	30	115-125	Editor-Projection	S-11	D.C. Bay.
BLK	30	120-130	Photocopy. I.F.	S-11	Cand.
BLR	50	115-125	Toy Projection	S-11	S.C. Bay
BLX	50	115-125	Toy Projection	S-11	D.C. Bay.
BMD	100	115-125	Toy Projection	S-11	S.C. Bay.

ANSI CODED LAMPS

Lamp Ordering Code	Watts	Volts	Primary Application and Description	Bulb	Base
BMG/BMH	100	115-125	Toy Projection	S-11	D.C. Bay.
BMH....use BMG/BMH					
BMS	7½	115-125	Darkroom—Red enamel	S-11	Medium
BMV	100	115-120	▼Toy Projection	S-11	S.C. Bay.
BNF	75	115-125	Toy Projection	S-11	D.C. Bay.
BRD	.75A	4	Sound Reproducer	T-5	S.C. Bay.
BRH	1000	120	☆Overhead Proj.—Quartzline®	★T-5	R.S.C.
BRK	.75A	4	Sound Reproducer	T-5	S.C. Pref.
BRS	.75A	4	Sound Reproducer	T-5	S.C. Pref.
BRX	1A	6	Sound Reproducer	T-5	D.C. Pref.
BSB....use BSS/BSB					
BSK	1A	6	Sound Reproducer	T-5	S.C. Pref.
BSS/BSB	1A	6	Sound Reproducer	T-5	S.C. Pref.
BSW	.20A	7	Sound Reproducer	T-5	S.C. Pref.
BTD	.20A	7	Sound Reproducer	T-5	D.C. Pref.
BTT	2.15A	9	Sound Reproducer	T-5	S.C. Bay.
BVB	30	120	▼Toy Projection	T-7	S.C. Bay.
BVE	600	120	☆Overhead Proj.—Quartzline®	★T-6	2-Pin Pref.
BVK/BVS	6.5A	5	Sound Reproducer	T-8	S.C. Pref.
BVL	1A	6	Sound Reproducer	T-5	S.C. Pref.
BVR	30	120	▼Toy Projection	T-7	D.C. Bay.
BVS....use BVK/BVS					
BXB	4A	8.5	Sound Reproducer	T-8	S.C. Pref.
BXJ	4A	8.5	Sound Reproducer	T-8	S.C. Bay.
BXT	100	12	▼Slide Projection	T-8	S.C. Bay.
BZW	50	115-125	▼Slide Projection	T-8	S.C. Bay.
CAL	300	120	▼Film Strip and Slide Projection	T-10	4-Pin
CAR	150	120	Film Strip and Slide Projection	T-10	4-Pin
CAS/CAV	50	115-125	▼Slide Projection	T-8	S.C. Bay

(1) Transferred to Large Lamp Schedule effective January 1, 1985.



ANSI CODED LAMPS

Lamp Ordering Code	Watts	Volts	Primary Application and Description	Bulb	Base
CAV....use CAS/CAV					
CAX	50	115-125	▼Optical Projection	T-8	D.C. Bay.
CAX	50	130	▼Optical Projection	T-8	D.C. Bay.
CBA	500	120	☆Slide Projection—Quartzline®	★T-6	4-Pin
CBC....use CBJ/CBC					
CBJ/CBC	75	115-125	▼Slide Projection	T-8	S.C. Bay.
CBS....use CBX/CBS					
CBX/CBS	75	115-125	▼Slide Projection	T-8	D.C. Bay.
CCK	75	115-120	▼Projection	T-8	D.C. Pref.
CCM/CHD	200	115-125	▼Slide Projection	T-8	D.C. Bay.
CDD	100	120	▼Slide Projection	T-8	S.C. Bay.
CDJ	100	115-125	▼Slide Projection	T-8	D.C. Bay.
CDK/CEA	100	120	▼Toy Projection	T-8	D.C. Bay.
CDS/CDX	100	115-125	▼Film Strip and Slide Projection	T-8	S.C. Bay.
CDX....use CDS/CDX					
CEA....use CDK/CEA					
CEB	100	115-125	▼Slide Projection	T-8	D.C. Bay.
CEM	120	120	▼Wheel Alignment—Proj.	T-8	S.C. Bay.
CET....use CHG/CET					
CEW/CFC	150	115-125	▼Film Strip Projection	T-8	S.C. Bay.
CFC....use CEW/CFC					
CGE	150	115-120	▼Advertising Projection	T-8	S.C. Bay.
CGF....use CGP/CGF					
CGP/CGF	150	115-120	▼Film Strip Projection	T-8	D.C. Bay.
CGW/CGT	200	115-125	▼Projection	T-8	S.C. Bay.
CHD....use CCM/CHD					
CHG/CET	200	115-125	▼Projection	T-8	D.C. Pref.
CHY	50	230	▼Projection	T-8	D.C. Bay.
CJX	100	230	▼Projection	T-8	D.C. Bay.
CLG....use CLS/CLG					
CLS/CLG	300	120-125	▼Slide Projection	T-8½	S.C. Bay.
CLX/CMB	300	120-125	▼Slide Projection	T-8½	D.C. Bay.
CMB....use CLX/CMB					
CMT....use CMV/CMT					
CMV/CMT	300	115-125	▼Film Strip and Slide Projection	T-8½	S.C. Bay.
CPR	18A	6	▼Projection	★T-10	Med. Pref.
CRT	300	120	▼Film Strip Projection	T-10	4-Pin
CTL	150	115-125	Advertising Projection	T-10	Med. Pref.
CTT/DAX	1000	115-125	16mm Projection	★T-12	4-Pin
CVS/CVX	200	115-120	Projection	★T-10	Med. Pref.
CVX....use CVS/CVX					
CWA	750	115-125	▼Film Strip and 16mm. Proj.	★T-12	4-Pin
CWD	300	120	▼Slide Projection	T-10	4-Pin
CXK	300	115-125	▼8mm. Projection	★T-10	Med. Pref.
CXL....use CXR/CXL					
CXR/CXL	50	8	8mm. Projection	TB-6	S.C. Pref.
CXY	300	115-125	▼Projection	★T-10	Med. Pref.
CYC	300	115-125	▼Slide Projection	T-10	S.C. Bay.
CYS	1200	115-125	▼16mm. Projection	★T-12	4-Pin
CZA/CZB	500	120	▼Slide Projection	T-10	4-Pin
CZB....use CZA/CZB					
CZS	500	115-120	▼8mm. Projection	★T-10	Medium
CZX/DAB	500	115-120	▼8mm. Projection	★T-10	Med. Pref.
DAB....use CZX/DAB					
DAH	500	120	▼Slide Projection	★T-12	4-Pin
DAK....use DAY/DAK or DAT/DAK					
DAR	500	115-120	▼8mm. Projection	★T-10	Small Ind. Ring
DAS	500	115-120	▼8mm. Projection	★T-10	D.C. Med. Ring
DAT/DAK	400	120	▼Slide Projection	T-10	4-Pin
DAX....use CTT/DAX					
DAY/DAK	500	120	▼Slide Projection	★T-10	4-Pin
DAY/DAK	500	125	▼Slide Projection	★T-10	4-Pin
DCA	150	21	8mm. Projection	T-12	4-Pin
DCF	150	21	8mm. Projection	T-12	4-Pin
DCH/DJA/DFP	150	120	▼8mm. Projection	T-12	4-Pin
DCX	750	115-120	▼Projection	★T-12	Medium

ANSI CODED LAMPS

Lamp Ordering Code	Watts	Volts	Primary Application and Description	Bulb	Base
DCY	150	120	Slide Projection	T-12	4-Pin
ddb	750	125	▼16mm. Projection	★T-12	Med. Pref.
DDF	55	17	☆▼Enlarger-Projection—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
DDJ/DZZ	80	10	☆Microfilm Proj. Quartzline®	★T-3	2-Pin Pref.
DDK	80	19	☆Film Strip Projection—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
DDL	150	20	☆▼Microfilm Projection—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
ODM	80	19	☆Slide Projection—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
DDN	200	20	☆Microfilm Proj.—Quartzline®	★T-3	R.S.C.
DDP	132	22	☆Microfilm Proj.—Quartzline®	★T-4	2-Pin Pref.
DDS	80	21	☆▼Microfilm Projection—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
DDY	750	120-125	▼Advertising and Bowling Score Projection	★T-12	Med. Pref.
DED	85	13.8	☆▼Microfilm Projection—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
DEF	150	21	8mm. Projection	T-12	4-Pin
DEJ	750	115-125	▼8mm. Projection	★T-12	Large Ind. Ring
DEK/DFW/DHN	500	120	▼Slide Projection	T-12	4-Pin
DEP	750	115-120	▼Film Strip Projection	T-12	4-Pin
DFA	150	120	8mm. Projection	T-12	4-Pin
DFC....use DFN/DFC					
DFD	1000	125-120	▼16mm. Projection	★T-12	Med. Pref.
DFF	80	30	8mm. Projection	T-12	4-Pin
DFE	150	120	▼Film Strip and Slide Projection	T-12	4-Pin
DFG	150	120	8mm. Projection	T-12	4-Pin
DFK	1000	115-120	▼16mm. Projection	★T-12	Large Ind. Ring
DFN/DFC	150	125	▼8mm. Projection	T-12	4-Pin
DFP....use DCH/DJA/DFP					
DFT	1000	115-120	▼16mm. Projection	★T-12	Med. Pref.
DFW....use DEK/DFW/DHN					
DFY	1000	115-120	▼16mm. Projection	★T-12	Large Ind. Ring
DFZ....use DLD/DFZ					
DGA	300	120	▼Slide Projection	T-10	4-Pin
DGB/DMD	80	30	8mm. Projection	T-12	4-Pin
DGF	500	120	▼Slide Projection	T-12	4-Pin
DGH	750	120	▼Bowling Score Projection	★T-12	Med. Pref.
DGS	1000	115-120	▼Projection	★T-12	D.C. Med. Ring
DHJ	250	120	▼8mm. Projection	T-12	4-Pin
DHT	1200	115-120	▼16mm. Projection	★T-12	Med. Pref.
DHN....use DEK/DFW/DHN					
DHX....use DLS/DLG/DHX					
DJA....use DCH/DJA/DFP					
DJL	150	120	8mm. Projection	T-14	4-Pin
DJT	50	13.8	☆▼Microfilm Projection—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
DKM	250	21.5	▼16mm. Projection	T-14	4-Pin
DKR	150	21	16mm. Projection	T-14	4-Pin
DLC	250	115-120	▼Projection	T-14	Med. Pref.
DLD/DFZ	80	30	8mm. Projection	T-14	4-Pin
DLG....use DLS/DLG/DHX					
DLH	250	120	8mm. Projection	T-14	4-Pin
DLN	750	120	▼Film Strip Projection	★T-12	4-Pin
DLR	250	21.5	▼16mm. Projection	T-14	4-Pin
DLS/DLG/DHX	150	22	8mm. Projection	T-14	4-Pin
DMD....use DGB/DMD					
DMJ	480	240	Overhead Projection	★T-14	4-Pin
DMK	500	120	Overhead Projection	★T-14	4-Pin
DML	400	120	Overhead Projection	★T-14	4-Pin
DNE	150	120	☆▼8mm. Proj. Quartzline®	MR-16	2-Pin Ven.
DNF	150	21	☆▼8mm. Proj. Quartzline®	MR-16	2-Pin Ven.
DPT	1000	115-120	▼Opaque Projection	★T-20	Mog. Pref.
DRB	1000	115-120	▼Overhead Projection	★T-20	Med. Pref.
DRC	1000	120	▼Overhead and Opaque Proj.	★T-20	Med. Pref.



ANSI CODED LAMPS

Lamp Ordering Code	Watts	Volts	Primary Application and Description	Bulb	Base
DRS	1000	120	▼Overhead Projection	★T-20	Med. Pref.
DRW	1000	120	▼Opaque Projection	★T-20	Mogul
DSW	200	24	8mm. Projection	T-14	4-Pin
DTS	1500	115-120	▼Projection and Photoflood	★T-20	Mog. Bip.
DVY	650	120	□Movie Light—Quartzline®	★G-6	Min. 2-Pin
DWA....use FGS/DWA					
DWH/DWJ	100	6.3	Movie Light—Reflector	★PAR-36	Scr. Term.
DWJ....use DWH/DWJ					
DWK	1000	230	▼Projection	★T-20	Med. Pref.
DWY	650	120	□Movie Light—Quartzline®	★T-4	R.S.C.
DWZ	375	30	☆▼Bowling Score Projection—Quartzline®	★T-4	R.S.C.
DXB	500	115-120	RSP-2 Photospot	R-40	Medium
DXC	500	115-120	RFL-2 Photoflood	R-40	Medium
DXL	650	120	Special Appl.—Quartzline®	★T-4	R.S.C.
DXN	1000	120	□Studio—Quartzline®	★T-5	R.S.C.
DXR/DXS	1000	115-120	No. 4 Photoflood—I.F.	PS-35	Mogul
DXS....use DXR/DXS					
DXX	800	230	□Studio and Copyboard—Quartzline®	★T-4	R.S.C.
DXX	800	240	□Studio and Copyboard—Quartzline®	★T-4	R.S.C.
DYF	140	19.3	☆Microfilm Proj.—Quartzline®	★T-3	Min. 2-Pin
DYH	600	120	□Photoflood—Quartzline®	★G-7	Min. 2-Pin
DYJ	650	230	□Movie Light—Quartzline®	★G-7	Min. 2-Pin
DYP	600	120	☆ Overhead Proj.—Quartzline®	★G-7	2-Button
DYR	650	220	☆Overhead Proj.—Quartzline®	★G-7	2-Pin Pref.
DYR	650	240	☆Overhead Proj.—Quartzline®	★G-7	2-Pin Pref.
DYS/DYV/BHC	600	120	☆Overhead Proj.—Quartzline®	★G-7	2-Pin Pref.
DYT	80	19	☆Microfilm Proj.—Quartzline®	★T-3	Min. 2-Pin
DYV....use DYS/DYV/BHC					
DYY/EGH	500	120	☆Slide Projection—Quartzline®	★G-6	4-Pin
DZA	30	10.8	☆Microfilm Proj.—Quartzline®	★T-3½	Min. 2-Pin
DZB	100	12	☆Microfilm Proj.—Quartzline®	★T-3	Min. 2-Pin
DZE/FDS	150	24	☆Microfilm Proj.—Quartzline®	★T-4	2-Pin Pref.
DZZ....use DDJ/DZZ					
EAD	60	120	Flashtube Modeling Lamp	T-6½	D.C. Bay.
EAH	500	220-240	Photoflood. Flood, I.F.	R-40	Medium
EAJ	35 25	12 12	Flashtube Modeling Lamp	T-6½	D.C. Bay.
EAK	100	120	Flashtube Modeling Lamp	★T-6½	D.C. Bay.
EAL	500	120	Photoflood Medium, I.F.	R-40	Medium
EBR	375	115-120	Movie Light—I.F.	R-30	Medium
EBV	500	115-120	No. 2 Photoflood, I.F.	PS-25	Medium
EBW	500	115-120	No. B2 Photoflood—Daylight I.F.	PS-25	Medium
ECA	250	120	No. 250A23 Photoflood, I.F.	A-23	Medium
ECT	500	120	No. 500PS25/5 Photoflood, I.F.	PS-25	Medium
ECV	1000	120	No. 1M/PS40P1 Photofl. I.F.	PS-40	Mogul
EFM	50	8	☆▼8mm. Projection—Quartzline®	MR-16	Glass 2-Pin (GZ6.35)
EFN	75	12	☆▼8mm. Projection—Quartzline®	MR-16	Glass 2-Pin (GZ6.35)
EFP	100	12	☆▼8mm. Projection—Quartzline®	MR-16	Glass 2-Pin (GZ6.35)
EFR	150	15	☆▼8mm. Projection—Quartzline®	MR-16	Glass 2-Pin (GZ6.35)
EGH....use DYY/EGH					
EGX	500	120	☆Slide Projection—Quartzline®	★T-6	4-Pin
EHA	500	120	☆Overhead Proj.—Quartzline®	★T-6	2-Pin Pref.
EJA	150	21	☆▼Fiber Opt. Proj.—Quartzline®	MR-16	2-Pin
EJL	200	24	☆▼16mm. Projection and Color Printer, Quartzline® "Multi-Mirror"®	MR-16	2-Pin
EJM	150	21	☆▼8mm. Projection—Quartzline® "Multi-Mirror"®	MR-16	2-Pin

ANSI CODED LAMPS

Lamp Ordering Code	Watts	Volts	Primary Application and Description	Bulb	Base
EJN....use ELD/EJN					
EJV	150	21	☆▼8mm. Projection and Color Printer, Quartzline®	MR-16	2-Pin
EJY	80	19	☆▼Fiber Optics Projection—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
EKB	420	120	☆Photoflood—Quartzline®	★G-7	2-Pin Pref.
EKD	650	120	☆Photoflood—Quartzline®	★G-6	2-Pin Pref.
EKE	150	21	☆▼8mm. Projection—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
EKG	80	19	☆▼8mm. Projection—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
EKL	150	21	☆Microfilm Proj.—Quartzline®	★T-3	2-Pin Pref.
EKN	120	17.5	☆▼Microfilm Projection—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
EKP/ENA	80	30	☆▼8mm. Projection—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
EKS....use EMM/EKS					
EKX	200	24	☆▼Microfilm Projection—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
EKZ	30	10.8	☆▼16mm. Projection—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
ELA	65	19	☆Microfilm Proj.—Quartzline®	★T-3	Min. 2-Pin
ELB	80	30	☆▼8mm. Proj.—Quartzline®	MR-16	2-Pin
ELC	250	24	☆▼16mm. Projection and Color Printer, Quartzline® "Multi-Mirror"®	MR-16	2-Pin
ELD/EJN	150	21	☆▼Microfilm Projection—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
ELE/ELT	80	30	☆▼8mm. Proj.—Quartzline®	MR-14	2-Pin Ven.
ELH	300	120	☆▼Slide Projection—Quartzline® "Multi-Mirror"®	MR-16	Oval 2-Pin
ELJ	1050	120	□Photoflood—Quartzline.® Studio lighting	★T-5	R.S.C.
ELR....use ELS/ELR					
ELS/ELR	50	16	☆▼Microfilm Proj.—Quartzline®	MR-14	2-Pin Ven.
ELT....use ELE/ELT					
EMC	100	12	☆▼Microfilm Projection—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
EML	175	24	☆Microfilm Proj.—Quartzline®	★T-4	Min. 2-Pin
EMM/EKS	250	24	☆▼16mm. Proj.—Quartzline®	MR-14	2-Pin Ven.
ENA....use EKP/ENA					
ENC....use ENW/ENC					
ENG	300	120	☆▼Slide Projection—Quartzline® "Multi-Mirror"®	MR-16	Oval 2-Pin
ENH	250	120	☆▼Slide Projection—Quartzline® "Multi-Mirror"®	MR-16	Oval 2-Pin
ENL (1)....See Q50MR16/FL/1 (ENL) on page 39					
ENW/ENC	80	19	☆▼8mm. Projection—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
ENX	360	82	☆▼Overhead Projection—Quartzline® "Multi-Mirror"®	MR-16	Oval 2-Pin
ENZ	50	30	☆▼8mm. Proj.—Quartzline®	MR-16	2-Pin
EPG	80	21	☆▼8mm. Proj.—Quartzline®	MR-14	2-Pin Ven.
EPK	80	30	☆▼8mm. Projection—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
EPN	35	12	☆▼8mm. Projection—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
EPT	42	10.8	☆▼Fiber Optics Projection—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
EPV	90	14.5	☆▼Microfilm Projection—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
EPX	90	14.5	☆▼Microfilm Projection—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
EPZ (1)....See Q50MR16/EPZ on page 39					
ERV	340	36	☆Overhead Projection—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
ESC	200	24	☆▼8mm. Projection—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
ESD	150	120	☆▼Enlarger-Projection—Quartzline® "Multi-Mirror"®	MR-16	Oval 2-Pin
ESH	85	82	☆▼Film Strip Projection—Quartzline® "Multi-Mirror"®	MR-16	Oval 2-Pin

(1) Transferred to Large Lamp Schedule effective January 1, 1985.



ANSI CODED LAMPS

Lamp Ordering Code	Watts	Volts	Primary Application and Description	Bulb	Base
ESJ	85	82	☆▼Enlarger Projection—Quartzline® "Multi-Mirror"®	MR-16	Oval 2-Pin
ESX (1)....See Q20MR16/NSP (ESX) on page 39					
ETJ	250	120	☆▼Fiber Optics Projection—Quartzline® "Multi-Mirror"®	MR-16	Oval 2-Pin
ETT	1000	120	□Formerly PH/1000H Quartzline®—Spec. Appl.	★T-5	R.S.C.
EVV	120	6.6A	☆▼Airport Runway—Quartzline®	★T-4	2-Pin Pref.
EVW	250	82	☆▼Overhead Projection—Quartzline® "Multi-Mirror"®	MR-16	Oval 2-Pin
EWf	200	24	☆▼Overhead Projection—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
EWG	300	120	▼★16mm. Projection—Quartzline® "Multi-Mirror"®	MR-16	Oval 2-Pin
EWR	150	6.6A	☆▼Airport Runway—Quartzline®	★T-4	2-Pin Pref.
EXL	30	6.6A	☆▼Airport Runway—Quartzline®	★T-3½	2-Pin Pref.
EXM	45	6.6A	☆▼Airport Runway—Quartzline®	★T-3½	2-Pin Pref.
EXN (1)....See Q50MR16/FL (EXN) on page 39					
EXR	300	82	☆▼Slide Projection—Quartzline® "Multi-Mirror"®	MR-13	2-Pin
EXS	200	30	☆▼Photoflood—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
EXT (1)....See Q50MR16/NSP (EXT) on page 39					
EXV	100	12	☆▼Photoflood—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
EXW	300	82	☆▼Slide Projection—Quartzline® "Multi-Mirror"®	MR-13	2-Pin
EXX	250	120	☆▼Photoflood—Quartzline® "Multi-Mirror"®	MR-16	Oval 2-Pin
EXY	250	82	☆▼Slide Projection—Quartzline® "Multi-Mirror"®	MR-13	2-Pin
EXZ (1)....See Q50MR16/NFL (EXZ) on page 39					
EYA	200	82	☆▼Enlarger—Quartzline® "Multi-Mirror"®	MR-16	Oval 2-Pin
EYB	360	82	☆▼Overhead Proj—Quartzline®	★T-3½	Min. 2-Pin
EYC (1)....See Q75MR16/FL (EYC) on page 39					
EYF (1)....See Q75MR16/NSP (EYF) on page 39					
EYH/FKT	250	120	□Photoflood—Quartzline	★G-6	Min. Pref.
EYK	300	120	☆▼16mm. Projection—Quartzline® "Multi-Mirror"®	MR-16	Oval 2-Pin
EYS (1)....See Q42MR16/NFL (EYS) on page 39					
EZB/FGS	250	120	Video Camera Light—Med. beam	★PAR-36	Fer. Con.
EZE	150	82	☆▼Slide Projection—Quartzline® "Multi-Mirror"®	MR-13	2-Pin
FAL	420	120	☆Overhead Projection and Color Printer—Quartzline®	★T4	R.S.C.
FBD....use FBG/FBD					
FBG/FBD	500	120	☆Slide Projection—Quartzline®	★G-6	Min. 2-Pin
FCB	600	120	☆Overhead Proj.—Quartzline®	★T-4	R.S.C.
FCK	170	20	☆Microfilm Proj.—Quartzline®	★T-3	R.S.C.
FCR	100	12	☆Microfilm Proj.—Quartzline®	★T-3	Glass 2-Pin
FCS	150	24	☆Microfilm and Slide Projection—Quartzline®	★T-4	Glass 2-Pin
FDS....use DZE/FDS					
FDT	100	12	☆Fiber Optics Projection—Quartzline®	★T-3	2-Pin Prefocus
FDV	150	24	☆Microfilm and Slide Projection—Quartzline®	★T-4	Glass 2-Pin
FFJ	600	120	☆Overhead Proj.—Quartzline®	★T-4	R.S.C.
FFM	420	120	□Copy Board—Quartzline®	★T-4	R.S.C.
FGS/DWA	250	120	Movie Light—Medium Beam	★PAR-36	Fer. Con.

(1) Transferred to Large Lamp Schedule effective January 1, 1985.

ANSI CODED LAMPS

Lamp Ordering Code	Watts	Volts	Primary Application and Description	Bulb	Base
FGW	150	24	☆Microfilm Projection—Quartzline®	★T-4	2-Pin Prefocus
FHS	300	82	☆▼Slide Projection—Quartzline® "Multi-Mirror"®	MR-13	2-Pin
FHX	25	13.8	☆▼Microfilm Projection—Quartzline® "Multi-Mirror"®	MR-16	2-Pin
FKT....use EYH/FKT					

PHOTO ENLARGER LAMPS

Lamp Ordering Code	Watts	Volts	Primary Application and Description	Bulb	Base
PH/111A	75	125	▼White	S-11	S.C. Bay.
PH/113	50	115-125	▼White	S-11	S.C. Bay.
PH/140	75	120	White	S-14	Medium
PH/211	75	115-125	White	A-21	Medium
PH/212	150	115-125	White	A-21	Medium
PH/213	250	115-125	White	A-21	Medium
PH/1400	75	230	White	S-14	Medium

"MARC"™ ENCLOSED ARC PROJECTION LAMPS

Lamp Ordering Code	Watts	Volts	Special Description	Bulb	Base
GEMINI™ 300 (EZG)	300	35	16mm. Projection—Enclosed arc. Uses special power supply unit	★T-3½ Quartz in 2½" dichroic reflector	Special 2-Pin Plug
MARC-300/16 (EZM)	300	37.5	16mm. Projection—Enclosed arc. Uses special power supply unit	★T-3½ Quartz in 3" dichroic reflector	Special 2-Pin Plug
MARC-300/16A....use GEMINI 300 (EZG)					
MARC-300/35K (Ezs)	300	37.5	Slide Projection—Enclosed arc. Bare lamp uses special power supply	★T-3½ Quartz	Special Clip
MARC-350/16T (EZT)	350	45	16mm. Projection—Enclosed arc. Uses special power supply unit	★T-3½ Quartz in 3" dichroic reflector	Special 2-Pin Plug

SYMBOLS

- ★ Lamp has a special glass bulb—heat-resistant.
- ▼ Lamp should be used in equipment designed to maintain bulb and base temperatures within safe limits.
- On these "non-jacketed" tungsten halogen lamps, screening techniques should be used where appropriate to protect people and surroundings in case of shattering.
- ☆ Lamp should be protected from scratches and abrasions and should not be used at over 110% of rated voltage.



GENERAL ELECTRIC—YOUR BEST SOURCE FOR BALLASTS AND ENERGY SYSTEMS

General Electric Ballasts and Energy Systems are available locally from your authorized General Electric stocking distributor. To serve your lighting needs, most distributors can provide you "off-the-shelf" delivery of the most popular ballasts used today. Select the ballast or system right for your application—then contact your GE distributor for prompt and courteous service. **Quick Reference Guide to the Most Popular Standard & Energy Saving Ballasts**

FOR FLUORESCENT LAMPS

Product Code	Catalog Number	Line Volts	Pkg. Qty.	Ballast Type	Lamps Operated by Ballasts Number & Type
PERFORMANCE ELECTRONIC BALLASTS					
14868	E40-120-2	120	10	PERFORMANCE	(2) FE40/WM or (2) FE40/MM or (2) F40T12/RS
14869	E40-277-2	277	10	PERFORMANCE	
14870	E40-120-3	120	10	PERFORMANCE	(3) FE40/WM or (3) FE40/MM or (3) F40T12/RS
14871	E40-277-3	277	10	PERFORMANCE	
ELECTRO-MAGNETIC BALLASTS F30 RAPID START					
14282	M28-120F +	120	10	OPTIMISER	(2)
46067	8G3971WF	120	10	Standard	F30 Rapid Start
46035	8G3905WF*	120	10	Low-Temp.	Standard
14283	M28-277F +	277	10	OPTIMISER	or
46070	8G3972WF	277	10	Standard	WATT-MISER
F40 RAPID START					
14284	M28-120-1F	120	10	OPTIMISER	(1)
48582	8G1078WF	120	10	MAXI-MISER™ II	F40 Rapid Start
48571	8G1074WF	120	10	WATT-MISER™	Standard
45686	8G1063WF	120	10	Standard	or
46075	8G5001WF*	120	10	Dimming	WATT-MISER
45900	8G3688WF*	120	10	Low Temp.	or
45210	8G1075F*	120	10	Low Power Factor	F40 MAXI-MISER
14285	M28-277-1F	277	10	OPTIMISER	
48589	8G1088WF	277	10	MAXI-MISER II	
48585	8G1084WF	277	10	WATT-MISER	
45709	8G1068WF	277	10	Standard	
14282	M28-120F + +	120	10	OPTIMISER	(2)
45204	8G1028WF + +	120	10	MAXI-MISER II	F40 Rapid Start
45203	8G1024WF	120	10	WATT-MISER	Standard
45201	8G1022WF	120	10	Standard	or
46035	8G3905WF*	120	10	Low Temp.	WATT-MISER
46077	8G5007WF*	120	10	Dimming	or
14283	M28-277F + +	277	10	OPTIMISER	F40 MAXI-MISER
45208	8G1038WF + +	277	10	MAXI-MISER II	
45207	8G1034WF	277	10	WATT-MISER	
45206	8G1032WF	277	10	Standard	
14277	8G1324W**	120	20	WATT-MISER	(3)
14279	8G1334W**	277	20	WATT-MISER	F40 WATT-MISER
INSTANT START					
45221	8G1600WF	120	6	Standard	(2)
45789	8G1628WF*	120	6	Low Temp.	F48T12, F40/IS,
45812	8G1710WF	277	6	Standard	F40T17/IS or
45791	8G1631WF*	277	6	Low Temp.	WATT-MISERS
45213	8G1008WF	120	6	MAXI-MISER II	(2)
45212	8G1004WF	120	6	WATT-MISER	F96/84/72T12
45215	8G1011WF	120	6	Standard	Instart Start
45779	8G1490WF*	120	6	Low Temp.	or
45219	8G1018WF	277	6	MAXI-MISER II	WATT-MISERS
45216	8G1014WF	277	6	WATT-MISER	
45218	8G1015WF	277	6	STD.-6 Leads	
46954	8G1899WF	277	6	STD.-4 Leads	
45818	8G1762WF	120	6	Standard-0°F	(1)
45821	8G1764WF	277	6	Standard-0°F	F96/84/72T12 Instart Start
HIGH OUTPUT 800m.a.					
46966	8G3885WF	120	6	Standard	(2)
46030	8G3900WF	120	6	Low Temp.	F48T12/HO or
46020	8G3887WF	277	6	Standard	WATT-MISERS



FLUORESCENT & HID LAMP BALLASTS

FOR FLUORESCENT LAMPS

Product Code	Catalog Number	Line Volts	Pkg. Qty.	Ballast Type	Lamps Operated by Ballasts Number & Type
HIGH OUTPUT 800m.a. (Continued)					
47865	8G1148WF	120	6	MAXI-MISER II	(2)
11704	8G1144WF	120	6	WATT-MISER	F96/84/72-800m.a. or
45223	8G1141WF	120	6	Standard - 20°F	WATT-MISERS
47867	8G1158WF	277	6	MAXI-MISER II	
11705	8G1154WF	277	6	WATT-MISER	
45225	8G1151WF	277	6	Standard - 20°F	
POWER GROOVE AND 1500m.a.					
47522	8G3699WF	120	4	Standard	(2)
45938	8G3736WF*	120	4	Low Temp.	F48-1500m.a. or
47553	8G3700WF	277	4	Standard	WATT-MISERS
45227	8G1201WF	120	4	Standard 0°F	(2)
45861	8G3672WF*	120	4	Low Temp.	F96/84/72-1500m.a. or
45229	8G1211WF	277	4	Standard 0°F	WATT-MISERS
PREHEAT LOW POWER FACTOR					
46880	89G489	120	50	Clamp Core	(1) F4, 5 or 6T5
13429	89G457J	120	10	Clamp Coil	(1) F14, 15, 20T12 or F15T8
45232	8G3706F*	120	20	Standard	(1) F30T8 or F40T12
PREHEAT HIGH POWER FACTOR					
45231	8G1000WF*	120	10	Standard	(2) F40T12
TRIGGER START BALLASTS FOR PREHEAT LAMPS					
46015	8G3869WF	120	10	Standard	(1)
45867	8G3560F	120	20	Low Power Factor	F14, 15, 20T12
46017	8G3870WF	277	10	Standard	or F15T8
46009	8G3867WF	120	10	Standard	(2)
46056	8G3912F + +	120	10	Low Power Factor	F14, 15, 20T12
45960	8G3748F	120	20	LPF-Low Temp.	or F15T8
46012	8G3868WF	277	10	Standard	

FOR HIGH INTENSITY DISCHARGE LAMPS

Product Code	Catalog Number	Ballast Circuit	Pkg. Qty.	Lamps Operated by Ballast Number & Type
HIDFIXER BALLAST KITS — 120/208/240/277 Volts				
Mercury Lamp Ballasts				
46217	15G4419W18	CWA	1	(1) 175W-H39
46280	15G5419W18	CWA	1	(1) 250W-H37
47452	15G6439W18	CWA	1	(1) 400W-H33
11817	15G6899W18	Series, Isolated	1	(2) 400W-H33
11686	15G7429W18	CWA	1	(1) 100W-H36
Multi-Vapor Lamp Ballasts				
46470	16G1299W18	CWA	1	(1) 175W-M57
49127	16G2309W18	CWA	1	(1) 250W-M58
49162	16G3289W18	CWA	1	(1) 400W-M59
11832	16G4439W18	Series, Isolated	1	(2) 400W-M59
12437	16G5299W18	CWA	1	(1) 1000W-M47
47348	16G6289W18	CWA	1	(1) 1500W-M48
Lucalox Lamp Ballasts				
47370	17G7119W18	HPF-Lag	1	(1) 70W-S62
46824	17G6119W18	HPF-Lag	1	(1) 100W-S54
46607	17G1119W18	HPF-Lag	1	(1) 150W-S55
12103	17G2229W18	Auto-Reg	1	(1) 250W-S50
10272	17G3229W18	Auto-Reg	1	(1) 400W-S51
46809	17G5219W18	Auto-Reg	1	(1) 1000W-S52

PLASTIC SIGN BALLASTS FOR FLUORESCENT HIGH OUTPUT LAMPS

Product Code	Catalog Number	Pkg. Qty.	Lamp Description (Total Footage HO Lamps) Min. Max.
45389	6G3780AWF	6	Three Lamp 18' 24'
45392	6G3784WF	4	Four or Three Lamp 24' 32'
45434	6G3814WF	6	Four, Three or Two Lamp 8' 16'
46937	6G3959WF	6	16' 24'
43700	6G3782WF	6	20' 28'
45430	6G3787AWF	4	Six, Five or Four Lamp 24' 36'
45442	6G3942AW	2	32' 48'

* Not recommended for use with **WATT-MISER** and other reduced wattage type lamps.

+ + Not U.L. listed for (1) F14T12. + U.L. listed only for reduced wattage, energy saving F30T12 lamps.

** U.L. listed only for **WATT-MISER** and other reduced wattage lamps.

COLOR FROM GENERAL ELECTRIC

SPECIFICATION SERIES FLUORESCENT LAMPS

NOW YOUR FLUORESCENT LIGHTING CAN DO WHAT IT'S NEVER DONE BEFORE . . . BRING COLOR TO LIFE EFFICIENTLY.

The color of light produced by a lamp has everything to do with how rich and vibrant an environment's colors appear. And in today's offices, Stores and Public buildings, appearance and appeal can be critical—for people and for business.

Historically, the good color rendering lamps (DeLuxe Cool White and DeLuxe Warm White), made with conventional phosphors, produce less than 70% of the light of their standard counterparts (Cool White and Warm White). The Specification Series colors (SP and SPX) combine a layer of specially developed rare earth phosphors with a layer of conventional phosphors to give both better color rendering and more light output than the standard colors. The DeLuxe Specification Series (SPX) produce more vivid colors but are more costly since they contain more of the expensive rare earth phosphors.

COOL ENVIRONMENT

SP41 (4100K) lamps are an excellent replacement for Cool White and Lite White (LW), an ideal choice to make people and furnishings look good. The cool color enhances blues and greens and is suggested for areas using higher lighting levels.

MODERATE ENVIRONMENT

SP35 and SPX35 colors were developed to provide the user with a single lamp color at 3500K that would complement the variety of cool and warm color schemes used throughout a building. Producing a clean, crisp environment midway between the blueness of Cool White and the yellowness of Warm White. All colors appear to be enhanced although they are most vivid when lighted with SPX35.

WARM ENVIRONMENT

The SP30 (3000K) color is a good choice to replace Warm White for better color with the same warm feeling. It is close to incandescent in whiteness and is well suited for lower lighting levels. For more vibrant color—for restaurants, exclusive shops etc.—Choose SPX30.

HOW THEY COMPARE

On the facing page, color graphs have been arranged to illustrate just how the light from these new lamps is distributed across the visual spectrum compared to the five lamp colors commonly used for more than 35 years. It is the blue, green and red-orange peaks of the rare earth phosphors superimposed on the CW, W or WW colors that gives the SP and SPX Series their better color rendering and their higher efficiency.

The lamps are arranged by chromaticity or whiteness shown as correlated color temperature (in Kelvins) with all cool (4100K), moderate (3500K) or warm (3000K) colors grouped together. They are also arranged in order of their color rendering index (CRI) or ability to make colors appear more natural—the higher the number, the better the color rendering compared to other lamps of the same chromaticity. The values for these attributes are shown in the tables as is their efficacy in lumens per watt (LPW) for a forty-watt lamp and a description of their apparent whiteness.

For further information, see GE SPECIFICATION SERIES FLUORESCENT LAMPS #203-51506 and LIGHTING APPLICATION BULLETIN: SPECIFYING LIGHT AND COLOR #205-41311.

Your customers know they can depend on these high quality General Electric products—all designed to fill a special need.



Projection, Display & A/V Lamps

Over a half century of GE leadership has developed a new generation of Multi-Mirror™ lamps for display lighting, 35mm 2" by 2" slides and 16mm film projection. GE's complete line is designed for cost-efficient performance in merchandise showcases, display windows, theaters, business and industry, including microfilm reader and reprographic applications.



Miniature & Sealed Beam Lamps

GE offers a full line of miniature and sealed beam lamps to serve the specific needs of transportation, both on the ground and in the air. In the late 1950's, GE introduced the first commercial use of halogen gas in lamps by designing halogen wing-tip navigation lights for aircraft. Today, GE Power Plus™ Halogen headlamps are used on cars, vans and light trucks. With GE Halogens, you can see farther and drive safer.

For additional listings
and data on General Electric:

Photo Lamps

Request GE Publication #204-8279-ILD-R1

Miniature & Subminiature Lamps

Request GE Publication #208-9165R

Stage/Studio Lamps

Request GE Publication #201-31303

Ballasts

Request GE Publication BL-7200

or contact any of the GE Sales Offices
listed on the back cover.



Energy-Saving GE Ballasts

General Electric offers a complete line of ballast products for fluorescent and HID lighting systems. Special products for plastic signs are also available for new or replacement use. For high efficiency, energy-saving fluorescent lighting, specify the Watt-Miser™ System, Maxi-Miser™ II System or the Optimiser System.

Sales Offices

Information concerning General Electric lamps—worldwide,
is available at the following locations.

UNITED STATES (Headquarters Location)	General Electric Company International Lighting Department Nela Park—Noble Road Cleveland, Ohio 44112 U.S.A.	Phone: (010-1-216) 266-2653 Telex: 980390	KOREA	General Electric Technical Services Co., Inc. 10th Floor, Press Center Bldg. 25, 1-KA Taepyeong-Ro, Chung-Ku CPO Box 871 Seoul KOREA	Phone: (82-2) 735-8651/6 and 735-8585 Telex: 26381
AUSTRALIA	Australian General Electric, Ltd. 2 Seville Street Villawood, NSW 2163 AUSTRALIA	Phone: (61 2) 726-2333 Telex: 20811	MEXICO BELIZE	General Electric de Mexico, S.A. Apartado Postal 53-983 Ave. Marina Nacional 365 11300 Mexico D.F. MEXICO	Phone: (525) 545-3246 Telex: 1773837
BRASIL ARGENTINA COLOMBIA URUGUAY PARAGUAY BOLIVIA PERU ECUADOR	General Electric do Brasil, S.A. 20781 Miguel Angelo, 37-ZC-16 Caixa Postal 109 Rio de Janeiro BRAZIL	Phone: (55 21) 241-3070 Telex: 2121319	PHILIPPINES GUAM	Philippine Electrical Mfg. Co 1873 P. Domingo St. Makati, Metro Manila P.O. Box 890 MCC THE PHILIPPINES	Phone: (63 2) 59-5791 Telex: 22136
CANADA	Canadian General Electric, Ltd. 165 Dufferin Street Toronto, Ontario M6K 1Y9 CANADA	Phone: (416) 530-2700 Telex: 06-23238	PORTUGAL	General Electric Portuguesa, S.A.R.L. Apartado 2316 Rua do Norte 5 1200 Lisboa PORTUGAL	Phone: (351 1) 367-155 Telex: 12844
CARIBBEAN CENTRAL AMERICA SURINAM	General Electric Company Latin America Development Division 175 Fountainebleau Blvd., Suite 2-L Miami, Florida 33172 U.S.A.	Phone: (010-1-305) 551-5170 Telex: 441648	SINGAPORE THAILAND MALAYSIA INDONESIA	GE (USA) Asia Company 11, Dhoby Ghaut No. 10-04 Cathay Building Singapore 0922 SINGAPORE	Phone: (65) 338-5111 Telex: 20753
CHILE	Electromat, S.A. Casilla 2103 Vicuna Mackenna 2385 Santiago CHILE	Phone: (56 2) 555-3031 Telex: 441175	SPAIN	GETSCO, Inc. Juan Bravo 3C Madrid 6 SPAIN	Phone: (34 1) 276-7600 Telex: 27650
ENGLAND IRELAND	GETSCO, Inc. 10 Prospect Way Royal Oak Industrial Estate Daventry, Northamptonshire NN11 5PL ENGLAND	Phone: (44 32) 727 7683 Telex: 311684	SWEDEN NETHERLANDS NORWAY DENMARK FINLAND	International General Electric AB Box 1203 S-163 13 Spanga Stockholm SWEDEN	Phone: (46 8) 793-9500 Telex: 10439
FRANCE	GETSCO, Inc. Department Eclairage 204, rond-point du Pont de Sevres 92516 Boulogne Billancourt Cedex FRANCE	Phone: (33 1) 4608-9700 Telex: 203042	SWITZERLAND BELGIUM GREECE/CYPRUS MALTA NORTH AFRICA WEST AFRICA MIDDLE EAST	GETSCO, Inc. Lamp Department 6, Rue du Simplon CH-1207 Geneva SWITZERLAND	Phone: (41 22) 35 9260 Telex: 422222
GERMANY AUSTRIA	GETSCO, Inc. Praunheimer Landstrasse 50 6000 Frankfurt/Main 90 WEST GERMANY	Phone: (4969) 7807-550 Telex: 412002	TAIWAN HONG KONG	GETSCO—Taiwan Branch 7th Floor, Formosa Plastics Building 201, Tun-Hua North Road Taipei, Taiwan REPUBLIC OF CHINA	Phone: (886-2) 713-1065 Telex: 24529
INDIA	International General Electric Company (India) Ltd. Nirmal, Nariman Point P.O. Box 992 Bombay 400 021 INDIA	Phone: 202-3075 Telex: 112363	TURKEY	GENERAL ELEKTRIK T.A.S. P.K. 752 Sirkeci Istanbul TURKEY	Phone: (90 1) 576-4505 Telex: 22505
ITALY	Compagnia Generale di Elettrocita, S.p.A. Via Dei Missaglia, 113/A1 20142 Milano ITALY	Phone: (39-2) 82-29705 Telex: 331438	VENEZUELA	General Electric de Venezuela, S.A. Apartado 529 Zona Industrial Sur Av. General Motors Valencia VENEZUELA	Phone: (58 41) 34 72 48 Telex: 45148
JAPAN	General Electric Technical Services Co., Inc. Kowa No. 35 Building, 4th Floor 14-14, Akasaka 1-Chome Minato-ku, Tokyo 107 JAPAN	Phone: (81-3) 588-5171 Telex: 22430			

GENERAL  ELECTRIC

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