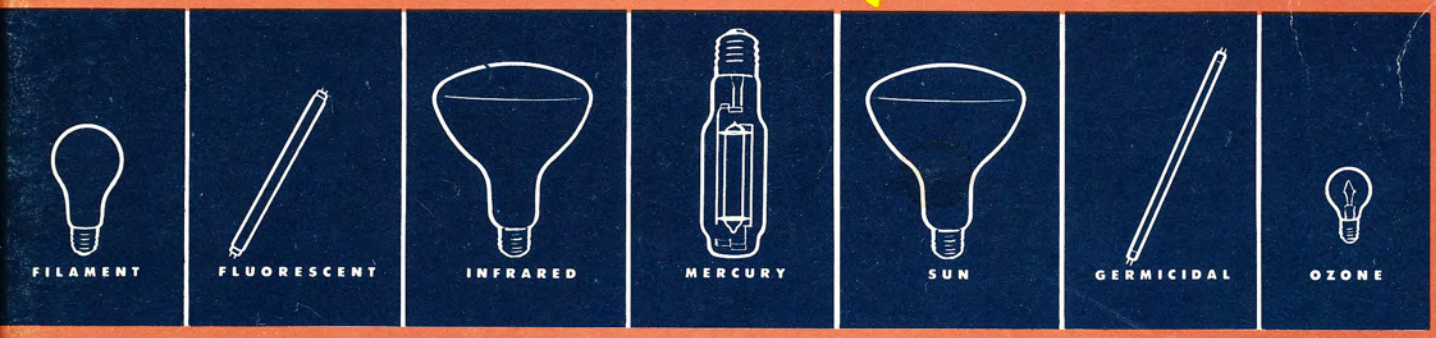
LARGE *lamp* CATALOG



GENERAL ELECTRIC

BE9-0271

FILAMENT

FLUORESCENT

INFRARED

MERCURY

SUN

GERMICIDAL

OZONE

large LAMP CATALOG

LARGE LAMP DEPARTMENT

GENERAL ELECTRIC

Foreword

The purpose of this catalog is to show and describe briefly the popular types of General Electric lamps available for many important lighting services. Buyers and Sellers of lamps should find the catalog of great assistance in determining sizes and types needed and for properly identifying individual lamps. However it is not intended to be used as a source of technical information for lighting installations. G-E lighting engineers and engineering bulletins should be consulted for up-to-date technical data pertaining to lighting applications. These and other assistance you may require are available from your General Electric Large Lamp District Sales Office listed on the back cover.

Only lamps classified in the manufacturer's schedules and contracts as "Large Lamps" are included in this catalog. For certain services additional lamps classified other than "Large Lamps" are also available. For instance, there are available additional lamps for aviation services which are classified as miniature lamps and are listed in miniature lamp catalogs and schedules. Also additional projection lamps classified as photolamps are listed in photolamp catalogs and schedules.

GENERAL ELECTRIC

catalog of large lamps

For prices of lamps listed in this catalog and for discounts, terms and transportation allowances consult the current edition of General Electric Large Lamp Price Schedule No. 2195.

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Note

Lamps shown in this catalog are approximately one-third actual size except Fluorescent, Germicidal, Lumiline, and the H3000-9 Mercury Lamps. Colored lamps are shown in as close to actual colors as possible. Fluorescent lamps and the Surprise Pink Lumiline lamp are shown in approximately the colors as they appear when lighted.

GENERAL ELECTRIC LEADERSHIP IN LAMP DEVELOP

The test of a lamp's quality is how efficiently it produces light from the current it consumes. The objective of General Electric's extensive research work in lamp design and manufacturing processes is to make lamps of the highest possible quality — lamps that produce light for industrial, commercial and residential uses at the lowest possible cost.

To make the best lamp possible for a particular lighting service — factories, homes, airports, automobiles, picture projection, any one of thousands of applications — requires the highest skill in lamp design. Complete specification of every lamp part must be made for each type of lamp manufactured. There are at the present time about 700 different specifications for glass parts, 200 specifications for bases, about 6000 specifications for lead-in wires and supports, a countless variety of filament wires and specifications for more than 200 different chemicals or components.

Each specification, length and diameter of filament, spacing between coils, mandrel size and so forth is specified sometimes to a one hundred-thousandth part of an inch. A filament which in a single spot is 1% less in diameter (in a 6-watt lamp that is five-millionths of an inch) than specified, may reduce its life 25%. All specifications, for more than 10,000 different types of lamps, are continually reviewed and promptly revised when new data indicates a possible improvement that will mean lower cost of lamps, better quality of light or lower cost of lighting.

Essential also to uniform high quality in lamps is the development of lamp making machinery that will assure consistent accuracy of wattage, life and lumen ratings and all other design features. In this field General Electric has made many notable achievements, each one resulting in a more efficient lamp and a higher standard of quality for all lamps.

Comprehensive testing of lamps throughout all phases of manufacture, and testing of sample finished products in General Electric testing laboratories as well as by independent testing services provides a constant check on quality and assures that all established standards are maintained.

Some of the new lamps developed by

1 500-watt R-40 Spot and Flood Lamps
2 Reflector Colored Lamps
3 Circline Lamps
4 400-watt Mercury Lamp
5 250-watt Red End Heat Lamp
6 FT-110 Lower Voltage Flash Tube
7 3000-watt T-32 Projection Lamp
8 BLB Fluorescent Lamps
9 200-watt PAR-46 Spotlight
10 50-watt and 100-watt GA Lamps
11 300-watt PAR-56 Spotlight

Filament lamps are designed for operation at specified voltages in order to give best performance. Mercury and fluorescent lamps with their auxiliary equipment are likewise designed for best performance within a range of specified voltages. For a discussion of the operating characteristics of all of these lamps see Application Engineering Bulletin LD 1.

● ● ●

G-E Lamp Division engineers are available for consultation on design of equipment using sources of visible, infrared and ultraviolet radiation . . . especially as to details of design to insure maximum performance of both lamps and equipment. The growing variety of lamps with differing physical and operating characteristics makes such checks increasingly desirable before designs are established. Experience has shown that subsequent service difficulties are often thus avoided.

MENT ASSURES BETTER LIGHTING AT LOWER COST

New processes, new materials, new parts and new types of lamps developed to meet specific needs are products of G. E. Research and Lamp Development. Some of the more recent include triple-coil cathode, high temperature basing cement, "Q" coating, deluxe colors, enameled lamps, aluminum bases, treated exhaust tubes, longer life fluorescent lamps, more efficient mercury lamps and many new types of lamps.

This laboratory contains sockets for over 12000 incandescent lamps of all types and sizes. Voltage is controlled by electronic devices to within 1/10 of a volt in 120 volt circuits. Time of burning is determined by automatic time recorders.

Test operating conditions of slimline fluorescent lamps are checked regularly during life.

Practical operating tests and constant improvements in mercury lamps have made them a most economical light source for industrial plants.

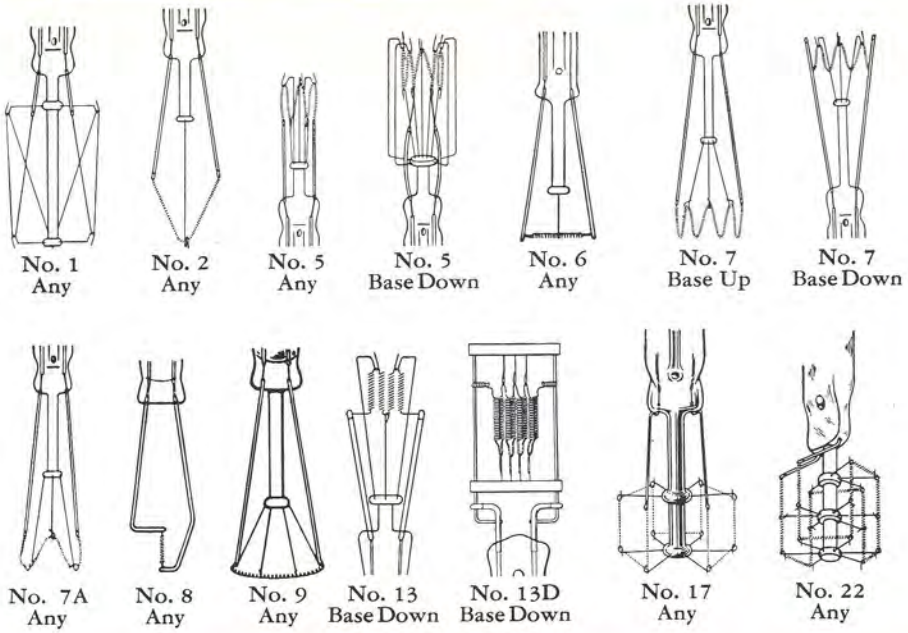
General Electric in recent years include:

- **12** 500-watt and 750-watt R-52 Lamps
- **13** R-12 Airplane Reading Lamp
- **14** Q-Coated Lamps
- **15** 250-watt, 375-watt and 500-watt G-30 Infrared Lamps
- **16** 200-watt and 300-watt Semi Silvered Bowl Lamps
- **17** Outside Enameled Colors
- **18** Slimline Lamps
- **19** G36T6 Germicidal Lamps
- **20** Quartz Infrared Heat Lamps
- **21** Ozone Lamp

G-E FILAMENT LAMPS

filaments

Electric current passing through the filament must overcome its resistance and the power consumed heats the filament to incandescence. The almost universally used filament material is tungsten. The filament may be straight wire, a coil, or a coiled-coil (indicated respectively by the letters S, C and CC). Coiling the wire reduces gas losses, increases efficiency. The illustrations show some of the commonly used filament forms (numerals) and their specific burning positions.



No. 1 Any · No. 2 Any · No. 5 Any · No. 5 Base Down · No. 6 Any · No. 7 Base Up · No. 7 Base Down

No. 7A Any · No. 8 Any · No. 9 Any · No. 13 Base Down · No. 13D Base Down · No. 17 Any · No. 22 Any

Gas

Used in most lamps of 40 watts and above, prevents rapid evaporation of the filament, permitting higher temperatures which result in higher efficiencies. Gas-filled lamps are indicated by the letter C, vacuum lamps by the letter B. Usual gas is a mixture of nitrogen and argon. Some lamps for special services may use krypton.

Lead-in Wires

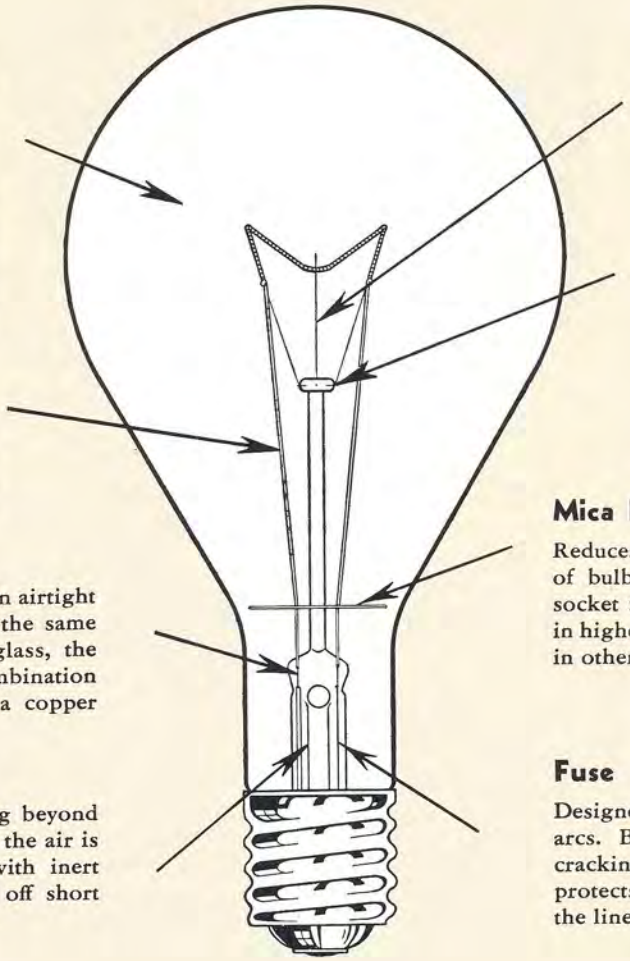
Conduct the current to and from the filament; copper used from base to stem press and nickel from stem press to filament.

Stem Press

The glass and lead-in wires have an airtight seal here. To have substantially the same coefficient of expansion as the glass, the lead-in wire at this point is a combination of a nickel-iron alloy core and a copper sleeve (Dumet wire).

Exhaust Tube

It is through this tube, projecting beyond the bulb during manufacture, that the air is exhausted and the bulb filled with inert gases. The tube is then sealed off short enough for the base to fit over it.



Support Wires

Molybdenum wires hold the filament in place; minimum number desirable to reduce heat losses.

Button

The glass is softened during assembly and the support wires stuck in it. It is supported by the button rod.

Mica Disc

Reduces circulation of hot gases into neck of bulb protecting stem press, stem and socket from excessive temperatures. Used in higher wattage general service lamps and in other types when needed.

Fuse

Designed to open the circuit if the filament arcs. By reducing sputtering of the metal, cracking of the bulb is prevented. It also protects the circuit and prevents blowing of the line fuses.

bases

Screw bases in one of several sizes are used on most lamps. Bipost or prefocus bases are used where accurate position of light source with relation to optical elements is important. Mechanical bases are used in some high wattage lamps, flood lights and street series lamps to provide greater strength and better all around performance.

Candelabra
Cand.

Candelabra Skirted
Cand. Skirted

Intermediate
Inter.

Single Contact Bayonet Candelabra
S. C. Bay.

Double Contact Bayonet Candelabra
D. C. Bay.

Candelabra Prefocus
S. C. Pf.
D. C. Pf.

Medium
Med.

Three Contact Medium
3 C. Med.

Admedium
Admed.

Medium Prefocus
Med. Pf.

Disc
(*Lumiline*)

Medium Skirted
Med. Skt.

Medium Skirted
Med. Skt.

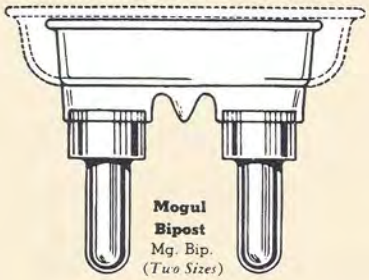
Medium Skirted
Med. Skt.

Admedium Skirted
Admed. Skt.

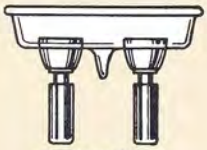
Mogul
Mog.

Three Contact Mogul
3 C. Mog.

Mogul Prefocus
Mog. Pf.



Mogul Bipost
Mg. Bip.
(*Two Sizes*)

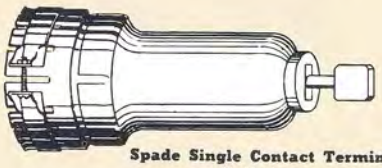


Medium Bipost
Md. Bip.

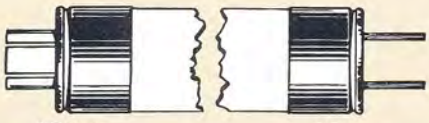
Medium Bipin
Med. Bipin
(*T-8 F Lamp*)

Medium Bipin
Med. Bipin
(*T-12 F Lamp*)

Mogul Bipin
Mog. Bipin
(*T-17 F Lamp*)



Spade Single Contact Terminal
S. C. Term.
(*H3000A-9 Lamp*)



3-Prong **2-Prong**
(*Type RF Lamp*)

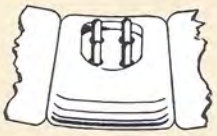
Oval Small 4-Pin
(*4-Watt Germicidal*)

Single Pin
(*T-6 Slimline*)

Single Pin
(*T-8 Slimline*)

Single Pin Fluted
(*T-8 Cold Cathode*)

Single Pin
(*T-12 Slimline*)



4-Pin
(*Circline*)

Double Contact
Recessed Base
(*High Output Lamps*)

Miniature Bipin
Min. Bipin
(*T-5 F Lamp*)

BULB SHAPES AND SIZES

The general shape of a lamp bulb is indicated by a letter or letter combination which usually is the initials of the word or words describing the shape. Thus the shapes indicated by the letters under the lamps above are:

C — Cone Shape, S — Straight Side, P — Pear Shape, F — Flame Shape, G — Globular, F — Fluorescent, A — Arbitrary designation for the shape in which many lamps are made.

T — Tubular, PS — Pear Shape, straight neck, PAR — Parabolic, R — Reflector, FC — Fluorescent Circline, B — Arbitrary Designation, BT — Combination B and T Shapes.

The over-all length of a lamp is measured from top of bulb to bottom of base and the approximate diameter, measured through the greatest diameter, is given in eighths of an inch. Thus a G-25 bulb is globe shape — twenty-five eighths inches or three and one-eighth inches in diameter.

BULB FINISHES

CLEAR

INSIDE FROSTED

DAYLIGHT

SILVERED BOWL

WHITE BOWL

INSIDE FROSTED ENAMELED

Q COATED

OUTSIDE COATED

ENAMELED

NATURAL COLORED

Lamp bulbs have several different finishes which are applied to obtain a desired control of light, to affect the quality of light or to produce desired color of light. Finishes may be clear, frosted, enameled, inside or outside color coated, silvered, colored glass or the latest process "Q" coating — the application of fine particles of silica to the inside of the bulb. Soft glass is generally used but hard glass is used in smaller bulbs when higher wattages are desired and for lamps intended for outdoor use. Finishes are generally indicated by abbreviations such as CL — clear, IF — inside frosted, DCL — daylight clear, DIF — daylight inside frosted, EN — enameled, IC — inside colored, RFL — reflecting, SB — silver bowl, WB — white bowl, NC — natural colored. Typical color abbreviations are AO — amber-orange, B — blue, FT — flametint, G — green, R — red, O — orange, Y — yellow, GO — gold, PK — pink, W — white.

Lamp Ordering Abbreviations are generally made up of wattage, bulb shape, size in eighths of inch and finish, use or other description.

G-E FLUORESCENT LAMPS

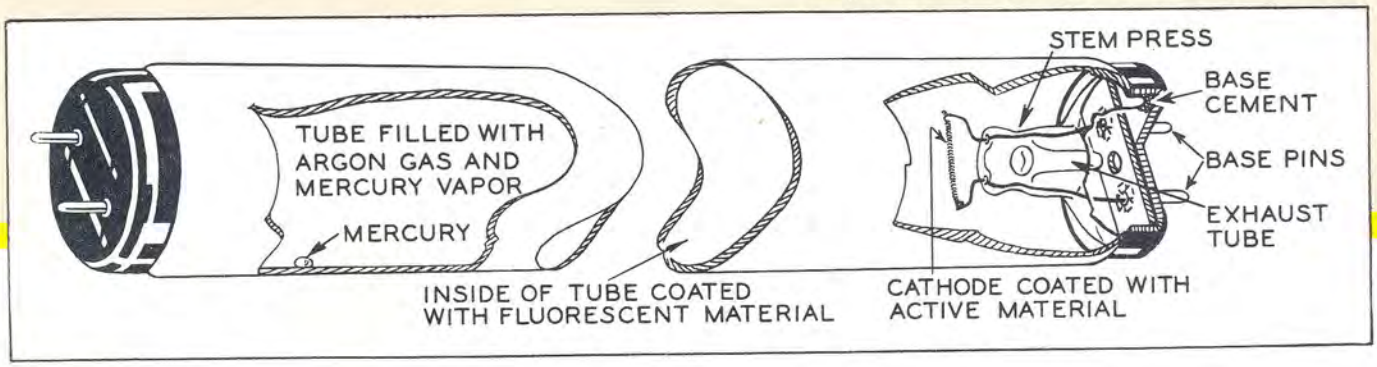
In fluorescent lamps, gas acts as the conductor of electricity and light is produced by electronic activity, as opposed to electrically heating a filament to incandescence to produce light in an incandescent lamp.

A fluorescent lamp is a complex electrical device. For this reason its light output and performance can be greatly affected by the quality and design of materials used to make it, by precautions taken during manufacture, and also by the equipment used for starting and operating the lamp.

In appraising the value of a fluorescent lamp the following factors must be considered in addition to price: Light output; Maintenance of light; Dependability; Uniformity; Color; Life.

TYPES OF FLUORESCENT LAMPS

1. General Line fluorescent lamps are available in several types:
   a. Bipin-base lamps for use in fixtures having starters or manual starting switches.
   b. Bipin-base Rapid-Start lamps for use on Rapid-Start ballasts to get quick starting without starters. These lamps may also be used in fixtures with glow-type starters.
   c. Recessed base Rapid-Start lamps for higher light output.
   d. Bipin-base instant-start lamps for fixtures with instant-start ballasts.
2. Slimline fluorescent lamps are instant-start types with single-pin bases.
3. Circline fluorescent lamps have circular shapes and use 4-prong connector-type bases.



CATHODES

Two cathodes, placed one at each end of the lamp, are the source of electrons by which the current is conducted in a fluorescent lamp. The design and treatment of the cathode has a decided effect on the performance of the lamp.

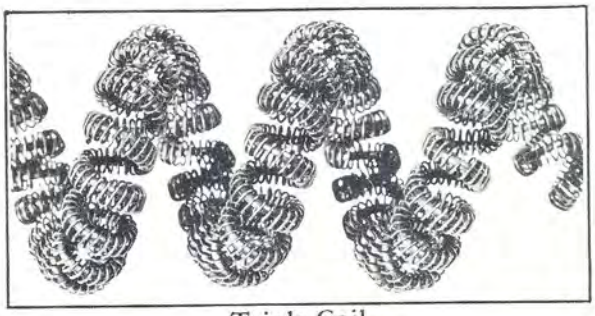
TRIPLE-COIL TUNGSTEN CATHODES

Used in instant-start single-pin and bipin-base lamps, and also in the Rapid Start Lamps. This is a unique cathode design developed by General Electric, giving improved life performance on Instant-start and Rapid Start ballasts because the cathode holds more emission material and holds it more securely. Too, the fine wire heats up quickly during starting, which also increases life.

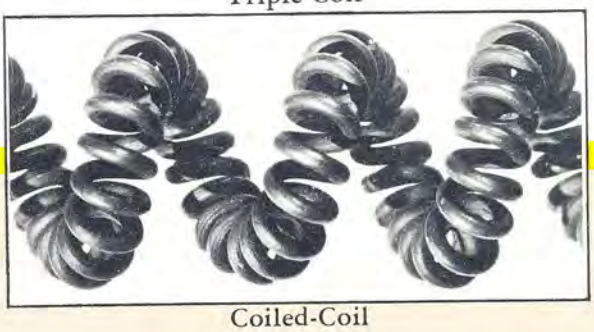
COILED-COIL TUNGSTEN CATHODES

Used in general line lamps intended for starter service, and also for Trigger-start ballasts.

In manufacture, the coiled tungsten wires shown below are coated with the electron-emitting material.



Triple-Coil



Coiled-Coil

BALLASTS FOR FLUORESCENT LAMPS

50A/S11N/W

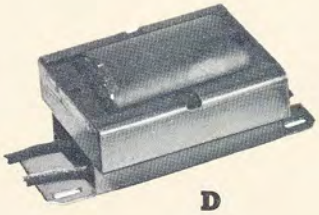
A

B

Since fluorescent lamps have a negative-resistance characteristic and the lamp voltage decreases as the current increases, the lamp will destroy itself unless the current is limited. This protection is provided by the "ballast" which usually takes the form of a choke coil. The ballast must be designed for the size and type of fluorescent lamp used, as well as for the voltage and frequency of the electrical system.

Following is a representative list of 60-cycle ballasts for use with different sizes of lamps. As an alternative to the ballast listed for use with two 14-watt lamps, lamp number 50A/S11N/W is sometimes used. It is a 60-volt, ½-ampere lamp with intermediate base.

C



D

For Lamps with Miniature Bipin Bases. Using Starters

Nominal Lamp Watts		Circuit Voltage	Cat. No.	Case Type
4	4	110-125	89G525	D
6-8		110-125	89G435	D
6-8		110-125	89G489	D
13	13	110-125	89G413	C
	13	110-125	89G414	C

For Lamps with Medium Bipin Bases. Using Starters

14-15-20		110-125	89G381	D
14	14	110-125	89G424	C
15	15	110-125	89G422	C
	2-15	110-125	89G428	C
20	20	110-125	89G423	C
	2-20	110-125	89G429	C
25	25	110-125	89G482	D
30	30	110-125	89G304	C
	30	110-125	89G344	C
	2-30	110-125	89G340	C
40	40	110-125	89G307	C
		199-216	58G676	B
		220-250	58G675	B
	40	110-125	89G347	C
		199-216	89G311	C
		220-250	89G310	C
		240-280	58G925	A
	2-40	110-125	89G983	A
		240-280	89G366	C
	2-40	110-125	89G343	C
		220-250	89G345	C

For Lamps with Mogul Bipin Bases. Using Starters

Nominal Lamp Watts		Circuit Voltage	Cat. No.	Case Type
90 or 100	90			
	100	110-125	58G628	A
	2-90	110-125	58G696	A
	2-100	220-250	58G698	A
		240-280	58G923	A
	4-90			
	4-100	250-280	59G265	A

Trigger-Start Ballasts Standard Lamps. No Starters

14, 15 or 20	110-125	89G320	C
2-14, 2-15 or 2-20	110-125	89G440	C
30	110-125	89G509	C

For Rapid-Start Fluorescent Lamps No Starters

40	40	110-125	89G325	C
		110-125	89G328♦	C
	2-40	110-125	89G463♦	A
		199-216	89G446	A
		250-220	89G447♦	A
		250-280	89G448♦	A
	3-40	110-125	89G444♦	A
100	2-100	110-125	89G626	A

For Instant-Start Fluorescent Lamps No Starters

40	40	110-125	89G363	A
	2-40	110-125	89G528	A
	2-40	110-125	89G400	A

For Circline Lamps

22	110-125	89G499	D
	110-125	89G322	C
32	110-125	89G300	C
	110-125	89G332	C
22-32	110-125	89G319	C
40	110-125	89G327	C
22-32	110-125	89G481	C

For Slimline Lamps. No Starters. Type A Cases

Lamp Size	Avg. Lamp Watts	Lamp Current, ma.	Catalog Number
42T6	17.5	120	59G740♦
	2-17.5		59G741♦
	25	200	59G742♦
	2-25		59G743♦
	32.5	300	59G744♦
	2-32.5		59G745♦
48T12	21.5	200	59G742♦
	2-21.5		59G743♦
	38	425	89G363♦
	38		89G507
	2-38		89G528
	2-38		89G400♦
	2-38		59G386
64T6	25.5	120	59G770
	2-25.5		59G771♦
	37	200	89G382♦
	2-37		89G773♦
	48	300	59G774♦
	2-48		59G775♦
72T8	24.5	120	59G770
	2-24.5		59G771♦
	36.5	200	89G382♦
	2-36.5		59G773♦
	48.4	300	59G774♦
	2-48.5		59G775♦
72T12	31.6	200	89G382♦
	2-31.6		59G773♦
	55	425	89G361♦
	2-55		59G949♦
	2-55		89G496♦
96T8	32	120	59G790♦
	2-32		89G391♦
	49	200	59G792♦
	2-49		59G793♦
	65	300	59G794♦
	2-65		59G795♦
96T12	42	200	89G382♦
	2-42		59G773♦
	74	425	89G362♦
	74		89G493
	2-74		89G490♦
	2-74		89G496♦
	2-74		89G399♦

♦ Certified Ballasts.

G-E FLUORESCENT LAMP OPERATING

There are a number of different methods by which fluorescent lamps may be started and operated. Each method requires the selection of a particular combination of fluorescent lamp and auxiliary equipment. The choice depends upon lamp characteristics, application requirements, and cost versus convenience factors. For example, if lamps are to be operated outdoors in cold weather, only a few types will perform with best results.

There are five principal methods of operation. Some lamps may be operated by only one method; some lamps may be operated by more than one. The following describes these five operating methods and lists the lamp sizes appropriate to each.

1. *Preheat or Switch Starting (with starters or manual starting switches)*

   If fluorescent lamp cathodes are preheated before the lamp is started, relatively inexpensive ballasts may be used. Such preheating is readily accomplished by means of manual switches (used in desk lamps and portable lamps) or by automatic starters (where fixtures are controlled from a wall switch). Starters are available in either standard or no-blink types. The latter are obtainable in either the manual reset (Watch Dog) or automatic reset designs and in the range of sizes needed for the different lamps. The "Watch Dog" is recommended in most instances because it eliminates "flashing" or "blinking" at the end of lamp life, saves ballast wear, and lasts much longer.

   These are the lamps which may be operated with starters: 4-, 6-, 8-, and 13-watt T-5; 15- and 30-watt T-8; 14-, 15-, 20-, 25-, and 40-watt T-12; 90- and 100-watt T-17.

2. *Trigger Start (no starters)*

   This newer method permits operation of some smaller preheat-start fluorescent lamps without starters, yet gives practically instant starting. Although lamp life is a little shorter and thus lamp cost a little higher, maintenance is greatly simplified and convenience of use much improved. No special lamp is required, but the lighting fixture must be equipped with the proper size of Trigger Start ballast. This automatically provides cathode preheat without starters. Trigger-Start ballasts are currently available for 14, 15, 20, and 30-watt General Line fluorescent lamps and for 8″ and 12″ circline lamps.

3. *Rapid Start (no starters)*

   This newest of systems combines the simplicity of Trigger Start with the low cost of conventional switch starting. It requires the use of a Rapid Start lamp which uses special low-loss triple-coiled cathodes to reduce cathode heating losses, and is coated with Dri-Film to assure rapid starting even under adverse conditions. Rapid-Start lamps will give good performance in fixtures employing glow-type starters. The lamps should be used with Rapid Start ballasts designed to automatically provide adequate preheat with low losses. Lamps glow as soon as turned on and come up to uniform full brightness in approximately two seconds.

FS-5	FS-2	FS-20	FS-25	FS-4	FS-4DC	FS-30	FS-12	FS-4AR	FS-40	FS-400	FS-64	FS-850	FS-6	FS-850S
4, 6, 8 Watts	14, 15, 20 Watts	14, 15, 20 Watts	22, 25 Watts	13, 30, 40 Watts	13, 30, 40 Watts	30 Watt	32 Watt	40 Watt	40 Watt	40 Watt	90 or 100 Watt	90 or 100 Watt	90 or 100 Watt	90 or 100 Watt

The function of the starter switch is to complete a separate circuit so a preheat current can flow through the filament cathodes and heat them momentarily; after a few seconds the starter circuit automatically opens and the lamp lights. The design of a starter switch is influenced by the starting and operating voltage of the lamp. Since the range between starting and operating voltages varies for different sizes of lamps, several sizes of switches are necessary. Above are starting switches recommended for each size of lamp.

General Electric Lamp Division's Bulletin LS-101 lists technical data on fluorescent lamps, ballasts, starters, and lampholders.

While lamp and ballast prices are slightly higher, these are offset by elimination of the starter and starter maintenance costs. Rapid-Start lamps are available in the 40-watt T-12 size, 16″ circline and in lamps designed for greater current to secure higher light output. They are marked "Rapid Start" for positive identification. The same 16″ circline lamp may also be used on switch start circuits.

4. *Instant Start* (*no starters*)

Through the use of higher-voltage ballasts, these lamps may be started without preheat. They are equipped with triple-coiled cathodes that afford in general the same long life obtained from the popular sizes of general line switch-start lamps. While they look just like switch-start lamps of the same wattage, instant-start lamps are not electrically interchangeable with them, for the cathode leads are short-circuited inside the lamp base to insure safety in use. Therefore instant-start lamps cannot be preheated in starter-type circuits. Further, general line lamps should not be used on instant-start ballasts or much shorter lamp life will result.

Instant-start lamps are available in 40-watt T-12 and 40-watt T-17 sizes. They are also available, on special order, in the 30-watt T-8 size.

5. *Slimline* (*instant start without starters*)

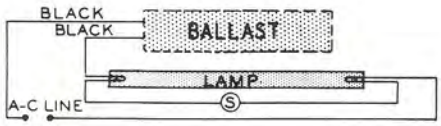
Slimline lamps combine all the advantages of the instant-start lamp with much greater convenience in handling and easier maintenance. The lamps are equipped with extra-strong single-pin bases that fit easily and solidly in rugged push-pull sockets. This combination makes lamp installation fast and easy.

In the longer eight foot sizes, slimlines are the most efficient lamps made. In addition to increased efficiency, the longer length reduces the number of lamps and fixtures required in a given installation. This, together with the elimination of starters, reduces the amount of maintenance required in a fluorescent lighting system.

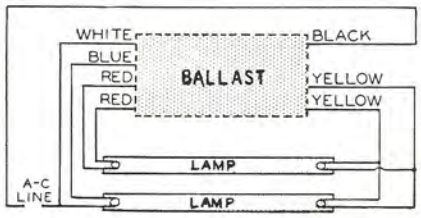
These advantages, together with the long trouble-free life offered by G-E slimline lamps assure continuing growth in popularity.

Slimline fluorescent are available in 42″ and 64″ lengths in the T-6 bulb size, in 72″ and 96″ lengths in T-8, and in 48″, 72″ and 96″ lengths in the most popular T-12 diameter.

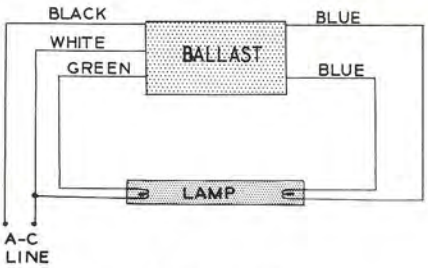
WIRING DIAGRAMS



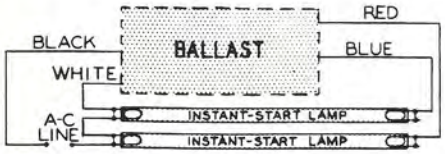
1. *Preheat or Switch Starting* (*with Starters or manual starting switches*)



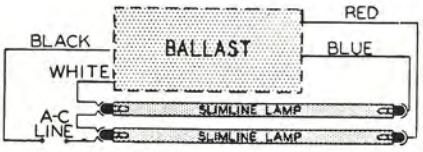
2. *Trigger Start* (*No Starters*)



3. *Rapid Start* (*no starters*)



4. *Instant Start* (*no starters*)



5. *Slimline* (*instant start without starters*)

G-E FLUORESCENT LAMP COLORS

G-E Fluorescent Lamps are available in a range of strong colors and in several different "whites." The saturated colors — red, pink, gold, green and blue — are used for decorative effects while the whites serve for both decorative and general lighting purposes. All fluorescent lamps except gold and red are white when unlighted. Different phosphors produce the different colors when lamps are lighted.

White fluorescent lamps are designed to combine three elements important in lighting effects — (1) efficiency — most light per dollar; (2) color-rendering properties — the ability to bring out the beauty of colored materials and objects and (3) "Whiteness" — their appearance in relation to either natural outdoor daylight or the traditional artificial illumination such as filament lamps.

The choice among fluorescent "whites" always involves compromise among these three elements. Obtaining best color rendering properties necessitates reduction in efficiency. Choice of whiteness affects both efficiency and color rendering properties. The descriptions below outline the effects obtained from the most popular whites.

Standard Cool White combines high efficiency with reasonably good color rendition. It is the most widely used fluorescent lamp color in factories, offices and schools. It blends well with natural daylight.

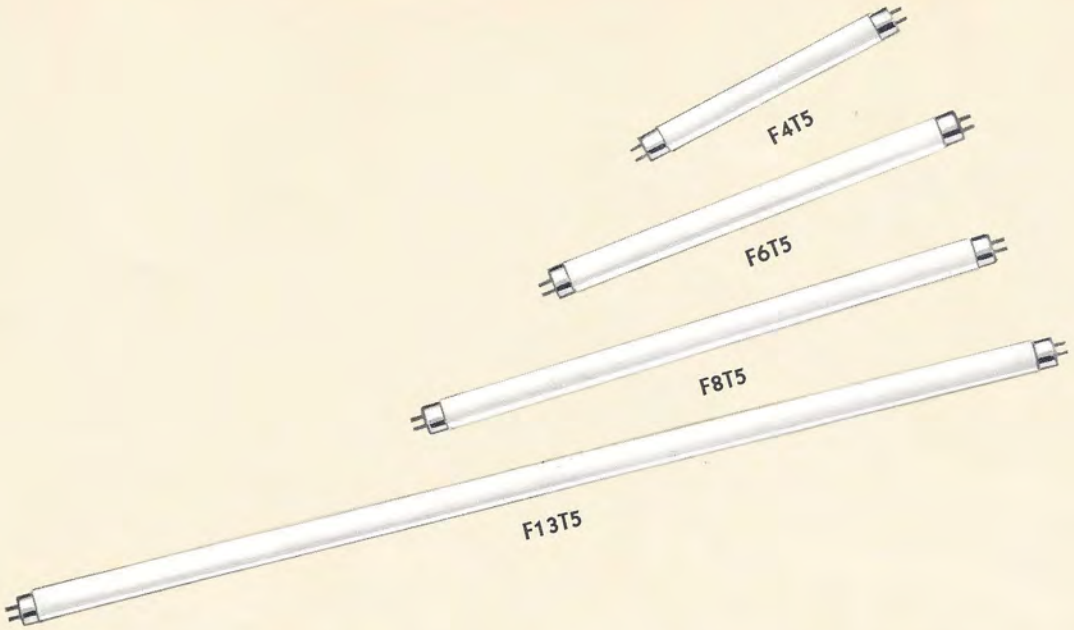
Standard Warm White provides the highest efficiency in white fluorescent lamps, it emphasizes orange, yellow and yellow-green at the expense of other colors. Generally used where highest efficiency is more important than color rendition.

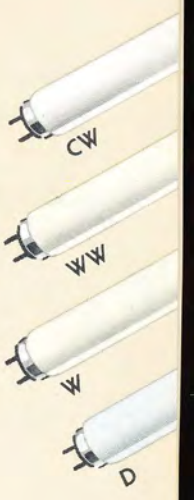
De Luxe Cool White most closely simulates the appearance and color-rendering properties of natural daylight. It is widely used in stores such as supermarkets, florists, men's wear shops and other places where excellent color rendition of natural daylight is needed. Also used in factory and office installations where best appearance of colors is important.

De Luxe Warm White simulates the warm friendly effects of filament lighting in both "whiteness" and color rendering. Usually first choice in residence, restaurants, beauty parlors, department stores, bakeries and other places where "homelike" lighting affects are wanted.

Daylight, Soft White, White, are still available for replacement purposes in existing installations and for new installations where their appearance or color-rendering properties are particularly suitable.

G-E FLUORESCENT LAMPS



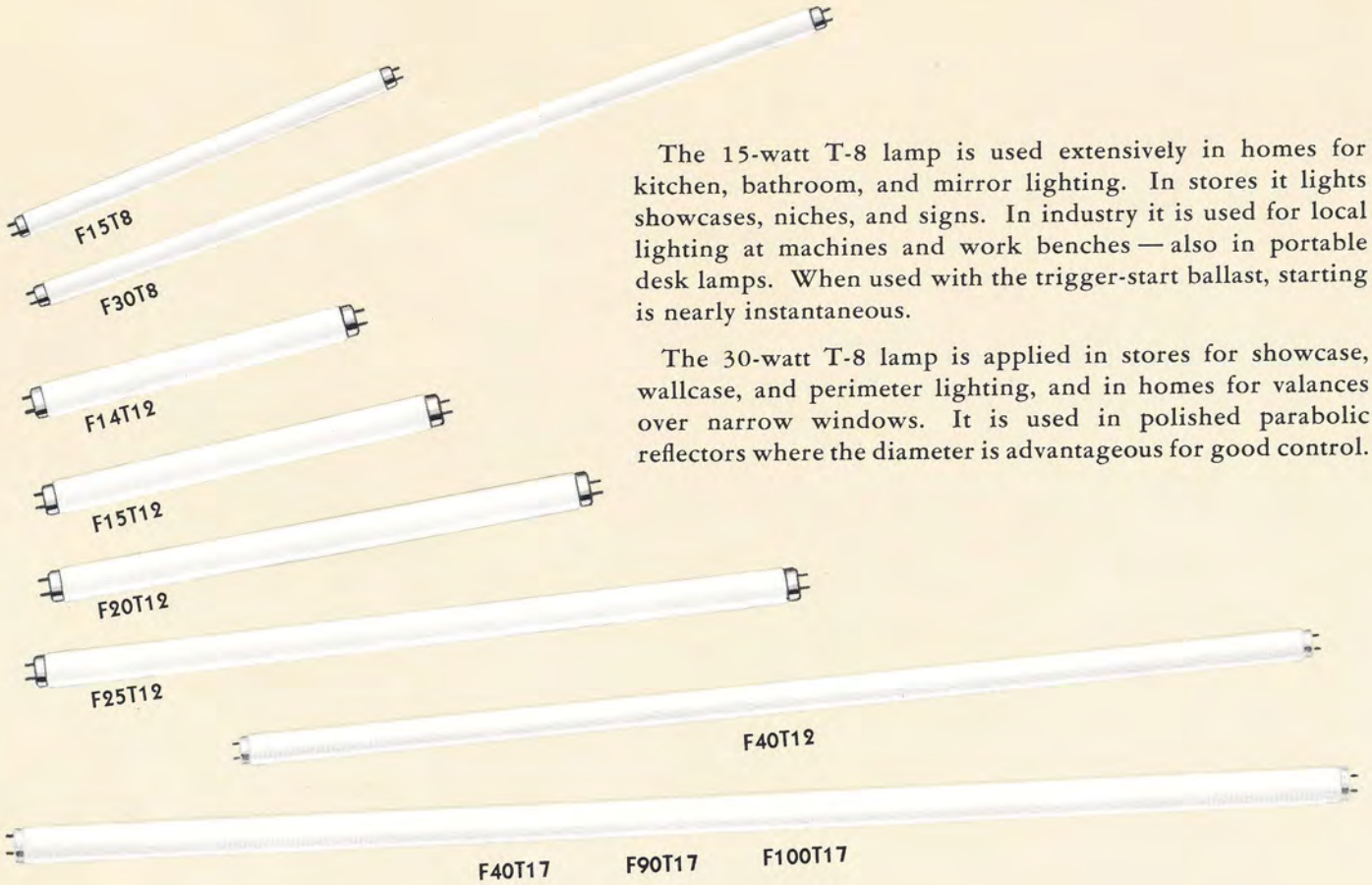


The 4-, 6-, 8-, and 13-watt T-5 lamps are useful where space for lamps is limited and where the inherent cool light and color quality of fluorescent is desired. They are applied in niches, showcases, and shelving in stores. They enhance the function and appearance of miniature displays, signs and models. They supply light locally for machine work, fine assembly, inspection, and other supplementary lighting applications. They are built into business machines and similar devices for increased visibility of dials, scales, and keyboards.

Lamp Ordering Abbreviation	Nominal Lamp Watts	Bulb	Length, Inches	Base	Description	Standard Package Quantity	Approx. Hours Life ①	Approx. Initial Lumens ②
F4T5/CW	4	T-5	6	Min. Bip.	Standard Cool White	24	4000	100
F4T5/W	4	T-5	6	Min. Bip.	White	24	4000	105
F4T5/CWX	4	T-5	6	Min. Bip.	De Luxe Cool White	24	4000	75
F6T5/D	6	T-5	9	Min. Bip.	Daylight	24	6000	195
F6T5/W	6	T-5	9	Min. Bip.	White	24	6000	220
F6T5/CW	6	T-5	9	Min. Bip.	Standard Cool White	24	6000	210
F8T5/D	8	T-5	12	Min. Bip.	Daylight	24	6000	305
F8T5/W	8	T-5	12	Min. Bip.	White	24	6000	340
F8T5/CW	8	T-5	12	Min. Bip.	Standard Cool White	24	6000	330
F8T5/WW	8	T-5	12	Min. Bip.	Standard Warm White	24	6000	340
F13T5/W	13	T-5	21	Min. Bip.	White	24	6000	710
F13T5/CW	13	T-5	21	Min. Bip.	Standard Cool White	24	6000	700

① Life under specified test conditions with lamps turned off and restarted no oftener than once every 3 burning hours. ② Approximate initial lumens after 100 hours operation.

G-E FLUORESCENT LAMPS



The 15-watt T-8 lamp is used extensively in homes for kitchen, bathroom, and mirror lighting. In stores it lights showcases, niches, and signs. In industry it is used for local lighting at machines and work benches — also in portable desk lamps. When used with the trigger-start ballast, starting is nearly instantaneous.

The 30-watt T-8 lamp is applied in stores for showcase, wallcase, and perimeter lighting, and in homes for valances over narrow windows. It is used in polished parabolic reflectors where the diameter is advantageous for good control.

FLUORESCENT LAMPS (FOR USE WITH STARTERS)

Lamp Ordering Abbreviation	Nominal Lamp Watts	Bulb	Length, Inches	Base	Description	Standard Package Quantity	Approx. Hours Life ①	Approx. Initial Lumens ②
F15T8/D	15	T-8	18	Med. Bip.	Daylight	24	7500	680
F15T8/W	15	T-8	18	Med. Bip.	White	24	7500	760
F15T8/CW	15	T-8	18	Med. Bip.	Standard Cool White	24	7500	730
F15T8/WW	15	T-8	18	Med. Bip.	Standard Warm White	24	7500	760
F15T8/CWX	15	T-8	18	Med. Bip.	De Luxe Cool White	24	7500	500
F15T8/WWX	15	T-8	18	Med. Bip.	De Luxe Warm White	24	7500	500
F15T8/SW	15	T-8	18	Med. Bip.	Soft White	24	7500	470
F15T8/B	15	T-8	18	Med. Bip.	Blue	24	7500	....
F15T8/G	15	T-8	18	Med. Bip.	Green	24	7500	....
F15T8/GO	15	T-8	18	Med. Bip.	Gold	24	7500	....
F15T8/PK	15	T-8	18	Med. Bip.	Pink	24	7500	....
F15T8/R	15	T-8	18	Med. Bip.	Red	24	7500	....
F30T8/D	30	T-8	36	Med. Bip.	Daylight	24	7500	1710
F30T8/W	30	T-8	36	Med. Bip.	White	24	7500	1930
F30T8/CW	30	T-8	36	Med. Bip.	Standard Cool White	24	7500	1890
F30T8/WW	30	T-8	36	Med. Bip.	Standard Warm White	24	7500	1930
F30T8/CWX	30	T-8	36	Med. Bip.	De Luxe Cool White	24	7500	1200
F30T8/WWX	30	T-8	36	Med. Bip.	De Luxe Warm White	24	7500	1200
F30T8/SW	30	T-8	36	Med. Bip.	Soft White	24	7500	1150
F30T8/B	30	T-8	36	Med. Bip.	Blue	24	7500	....
F30T8/G	30	T-8	36	Med. Bip.	Green	24	7500	....
F30T8/GO	30	T-8	36	Med. Bip.	Gold	24	7500	....
F30T8/PK	30	T-8	36	Med. Bip.	Pink	24	7500	....
F30T8/R	30	T-8	36	Med. Bip.	Red	24	7500	....

① Life under specified test conditions with lamps turned off and restarted no oftener than once every 3 burning hours.

② Approximate initial lumens after 100 hours operation.

The 14-watt T-12 lamp is used for supplementary lighting in stores and industry. It is applied where space does not permit use of the longer 15-watt lamp. It has been employed in portable lamps using a low-wattage filament lamp for a ballast.

The 15-watt T-12 lamp has a lower bulb-brightness than the 15T8 lamp for about the same amount of light. It is preferred over the T-8 lamp if used without shielding as is sometimes done for bathroom mirror lighting and some other applications. Its many uses paralled those of the 15-watt T-8.

The 20-watt T-12 lamp is one of the most widely used fluorescent lamps. It is employed in home fixtures for lighting in kitchens, bathrooms, basements, and recreation rooms. It is used in window valances and under shelving and cupboards for decorative and utilitarian lighting. It may be used to light closets, washrooms and small areas. It is also employed for supplementary lighting in offices and factories. In stores it lights fitting mirrors, niches, and wallcase displays. It may be operated by trigger-start ballasts.

The 25-watt T-12 33-inch lamp is the longest T-12 lamp which can be operated from 120 volts a-c with a simple choke ballast. It is principally used in homes, either in general lighting fixtures or built into window valances and kitchen work spaces.

FLUORESCENT LAMPS (FOR USE WITH STARTERS)

Lamp Ordering Abbreviation	Nominal Lamp Watts	Bulb	Length, Inches	Base	Description	Standard Package Quantity	Approx. Hours Life ①	Approx. Initial Lumens ②
F14T12/D	14	T-12	15	Med. Bip.	Daylight	24	6000	500
F14T12/W	14	T-12	15	Med. Bip.	White	24	6000	570
F14T12/CW	14	T-12	15	Med. Bip.	Standard Cool White	24	6000	540
F14T12/WW	14	T-12	15	Med. Bip.	Standard Warm White	24	6000	570
F14T12/CWX	14	T-12	15	Med. Bip.	De Luxe Cool White	24	6000	390
F14T12/WWX	14	T-12	15	Med. Bip.	De Luxe Warm White	24	6000	390
F14T12/SW	14	T-12	15	Med. Bip.	Soft White③	24	6000	370
F14T12/W/1	14	T-12	15	Med. Bip.	White③	24	6000	570
F14T12/B	14	T-12	15	Med. Bip.	Blue	24	....	....
F14T12/G	14	T-12	15	Med. Bip.	Green	24	6000	....
F14T12/GO	14	T-12	15	Med. Bip.	Gold	24	6000	....
F14T12/PK	14	T-12	15	Med. Bip.	Pink	24	6000	....
F14T12/R	14	T-12	15	Med. Bip.	Red	24	6000	....
F15T12/D	15	T-12	18	Med. Bip.	Daylight	24	7500	570
F15T12/W	15	T-12	18	Med. Bip.	White	24	7500	650
F15T12/CW	15	T-12	18	Med. Bip.	Standard Cool White	24	7500	620
F15T12/WW	15	T-12	18	Med. Bip.	Standard Warm White	24	7500	650
F15T12/CWX	15	T-12	18	Med. Bip.	De Luxe Cool White	24	7500	435
F15T12/WWX	15	T-12	18	Med. Bip.	De Luxe Warm White	24	7500	435
F15T12/SW	15	T-12	18	Med. Bip.	Soft White	24	7500	420
F15T12/B	15	T-12	18	Med. Bip.	Blue	24	7500	....
F15T12/G	15	T-12	18	Med. Bip.	Green	24	7500	....
F15T12/GO	15	T-12	18	Med. Bip.	Gold	24	7500	....
F15T12/PK	15	T-12	18	Med. Bip.	Pink	24	7500	....
F15T12/R	15	T-12	18	Med. Bip.	Red	24	7500	....
F20T12/D	20	T-12	24	Med. Bip.	Daylight	24	7500	910
F20T12/W	20	T-12	24	Med. Bip.	White	24	7500	1030
F20T12/CW	20	T-12	24	Med. Bip.	Standard Cool White	24	7500	980
F20T12/WW	20	T-12	24	Med. Bip.	Standard Warm White	24	7500	1030
F20T12/CWX	20	T-12	24	Med. Bip.	De Luxe Cool White	24	7500	690
F20T12/WWX	20	T-12	24	Med. Bip.	De Luxe Warm White	24	7500	690
F20T12/SW	20	T-12	24	Med. Bip.	Soft White	24	7500	640
F20T12/B	20	T-12	24	Med. Bip.	Blue	24	7500	....
F20T12/G	20	T-12	24	Med. Bip.	Green	24	7500	....
F20T12/GO	20	T-12	24	Med. Bip.	Gold	24	7500	....
F20T12/PK	20	T-12	24	Med. Bip.	Pink	24	7500	....
F20T12/R	20	T-12	24	Med. Bip.	Red	24	7500	....
F20T12/CW/1	20	T-12	24	Med. Bip.	Standard Cool White③	24	....	....
F20T12/D/1	20	T-12	24	Med. Bip.	Daylight③	24	....	....
F25T12/W	25	T-12	33	Med. Bip.	White	24	7500	1660
F25T12/D	25	T-12	33	Med. Bip.	Daylight	24	7500	1450
F25T12/CW	25	T-12	33	Med. Bip.	Standard Cool White	24	7500	1600
F25T12/WW	25	T-12	33	Med. Bip.	Standard Warm White	24	7500	1660
F25T12/CWX	25	T-12	33	Med. Bip.	De Luxe Cool White	24	7500	1130
F25T12/WWX	25	T-12	33	Med. Bip.	De Luxe Warm White	24	7500	1130

① Life under specified test conditions with lamps turned off and restarted no oftener than once every 3 burning hours.

② Approximate initial lumens after 100 hours operation.

③ D. C. Operation.

All G-E Fluorescent lamps should be used only with auxiliary equipment designed to produce proper electrical values. Unless otherwise noted, ratings apply to operation in a-c circuits. Lamps may be burned in any position.

G-E FLUORESCENT LAMPS

The 40-watt T-12 preheat lamp is used extensively for general lighting in every field of application. It is employed in strips or channels for lighting valances in homes and stores, for display fixtures, show windows, and hundreds of other services. Specially designed low temperature lamps are recommended for use in temperatures from 50°F to 0°F. Also available are instant-start types which reduce maintenance and insure more reliable starting when used outdoors in cold weather.

The 40-watt T-17 lamp has a comparatively low surface brightness. It is used for high-quality lighting installations in schools and offices and for special industry applications where it is important to minimize direct and reflected glare.

The 90-watt and 100-watt T-17 lamps produce more light per foot than any others in the line. The light output of the 90-watt Cool White lamp is 5150 lumens, the light output of the 100-watt is 4850 lumens. The 90-watt lamp is used in industry for general lighting and also in offices, stores, and show windows. The 100-watt lamp maintains its light output well in cold surroundings and is used for outdoor applications (with thermal starters) or in areas with low ambient temperature.

The life and light output ratings of fluorescent lamps are based on their use with ballasts providing proper operating characteristics. Ballasts that do not provide proper electrical values may substantially reduce either lamp life or light output, or both.

Ballasts certified as built to the specifications adopted by the Certified Ballast Manufacturers (CBM) do provide values that meet or exceed minimum requirements. This certification assures the user, without individual testing, that lamps will operate at values close to their ratings.

Lumen Output and efficiency values apply at the end of 100 hours operation, where measured at 80°F ambient temperature and under specified test conditions.

Lamp Life — All life ratings are based on three burning hours per start. Less frequent starting tends to increase lamp life. When lamps are operated at six or twelve burning hours per start, average life is increased by 25% or 60% respectively. For continuous burning, average life is 2½ times the rated value. Since light output depreciates steadily as lamps are burned, greatest lighting value usually results when lamps are replaced before they reach their average life.

Lamp Ordering Abbreviation	Nominal Lamp Watts	Bulb	Length, Inches	Base	Description	Standard Package Quantity	Approx. Hours Life ①	Approx. Initial Lumens ②
F40T12/D	40	T-12	48	Med. Bip.	Daylight	24	7500	2300
F40T12/W	40	T-12	48	Med. Bip.	White	24	7500	2600
F40T12/CW	40	T-12	48	Med. Bip.	Standard Cool White	24	7500	2500
F40T12/WW	40	T-12	48	Med. Bip.	Standard Warm White	24	7500	2600
F40T12/CWX	40	T-12	48	Med. Bip.	De Luxe Cool White	24	7500	1840
F40T12/WWX	40	T-12	48	Med. Bip.	De Luxe Warm White	24	7500	1840
F40T12/SW	40	T-12	48	Med. Bip.	Soft White	24	7500	1670
F40T12/B	40	T-12	48	Med. Bip.	Blue	24	7500	....
F40T12/G	40	T-12	48	Med. Bip.	Green	24	7500	....
F40T12/GO	40	T-12	48	Med. Bip.	Gold	24	7500	....
F40T12/PK	40	T-12	48	Med. Bip.	Pink	24	7500	....
F40T12/R	40	T-12	48	Med. Bip.	Red	24	7500	....
F40T12/W/LT	40	T-12	48	Med. Bip.	White	24	6000	2600
F90T17/D	90	T-17	60	Mog. Bip.	Daylight	12	7500	4800
F90T17/W	90	T-17	60	Mog. Bip.	White	12	7500	5300
F90T17/CW	90	T-17	60	Mog. Bip.	Standard Cool White	12	7500	5150
F90T17/CWX	90	T-17	60	Mog. Bip.	De Luxe Cool White	12	7500	3650
F90T17/WW	90	T-17	60	Mog. Bip.	Standard Warm White	12	7500	5300
F90T17/WWX	90	T-17	60	Mog. Bip.	De Luxe Warm White	12	7500	3650
F90T17/SW	90	T-17	60	Mog. Bip.	Soft White	12	7500	3500
F100T17/CW	100	T-17	60	Mog. Bip.	Standard Cool White	12	7500	4800
F100T17/W	100	T-17	60	Mog. Bip.	White	12	7500	5150
INSTANT START FLUORESCENT LAMPS (NO STARTERS USED)								
F40T12/D/IS	40	T-12	48	Med. Bip.	Daylight	24	7500	2200
F40T12/W/IS	40	T-12	48	Med. Bip.	White	24	7500	2500
F40T12/CW/IS	40	T-12	48	Med. Bip.	Standard Cool White	24	7500	2450
F40T12/WW/IS	40	T-12	48	Med. Bip.	Standard Warm White	24	7500	2500
F40T12/CWX/IS	40	T-12	48	Med. Bip.	De Luxe Cool White	24	7500	1760
F40T12/WWX/IS	40	T-12	48	Med. Bip.	De Luxe Warm White	24	7500	1760
F40T12/SW/IS	40	T-12	48	Med. Bip.	Soft White	24	7500	1600
F40T17/W/IS	40	T-17	60	Mog. Bip.	White	12	6000	2500
F40T17/CW/IS	40	T-17	60	Mog. Bip.	Standard Cool White	12	6000	2400
F40T17/WW/IS	40	T-17	60	Mog. Bip.	Standard Warm White	12	6000	2500
F40T17/CWX/IS	40	T-17	60	Mog. Bip.	De Luxe Cool White (78)	12	6000	1700
F40T17/WWX/IS	40	T-17	60	Mog. Bip.	De Luxe Warm White (78)	12	6000	1700

① Life under specified test conditions with lamps turned off and restarted no oftener than once every 3 burning hours.

② Approximate initial lumens after 100 hours operation.

③ The pins of these lamps are short circuited inside the end caps and lamp will not operate on preheat ballast circuits.

G-E RAPID START FLUORESCENT LAMPS

Rapid Start 40-watt T-12 fluorescent lamps simplify lighting maintenance for the user and give, in effect, instant starting at costs comparable to those of the 40-watt preheat lamp. Starters are eliminated from the electrical circuit. This is accomplished with a cathode design in the lamp somewhat different from that of the preheat lamp and with a ballast having low-voltage windings which apply heating to the cathodes at starting and during operation. Rated lamp life and light output are the same as for the preheat.

It is desirable to operate the Rapid Start lamps close to metal which runs the length of the lamp. The fixture or wiring channel which holds the lamp will serve this purpose.

It is expected that the Rapid Start lamp will be used instead of the preheat type in most new lighting installations where 40-watt fluorescent lamps are chosen.

The 100-watt Rapid Start 72T12 lamp is especially designed for street lighting and other outdoor services.

Lamp Ordering Abbreviation	Nominal Lamp Watts	Bulb	Length, Inches	Base	Description	Standard Package Quantity	Approx. Hours Life	Approx. Initial Lumens
RAPID START LAMPS								
F40T12/CW/RS	40	T-12	48	Med. Bip.	Standard Cool White ①②	24	7500	2500
F40T12/WW/RS	40	T-12	48	Med. Bip.	Standard Warm White ①②	24	7500	2600
F40T12/CWX/RS	40	T-12	48	Med. Bip.	De Luxe Cool White ①②	24	7500	1840
F40T12/WWX/RS	40	T-12	48	Med. Bip.	De Luxe Warm White ①②	24	7500	1840
F40T12/D/RS	40	T-12	48	Med. Bip.	Daylight	24	7500	2300
F40T12/W/RS	40	T-12	48	Med. Bip.	White	24	7500	2600
F96T12/CW/RS	100	T-12	96	Recessed Double Contact	Standard Cool White ①	12	7500	6800
F100T12/CW/RS	100	T-12	72	Mog. Bip.	Standard Cool White ①③	12	7500	5350

① This lamp is designed and rated for operation in supplementary cathode preheat circuits, for which specifications are available from the lamp manufacturers.

② 40-watt rapid start lamps may be used in Starter-operated fixtures designed for 40-watt general line lamps. When used, their starting and performance will be similar to that of general line lamps. They will deliver rated life and light output, and will operate at rated watts.

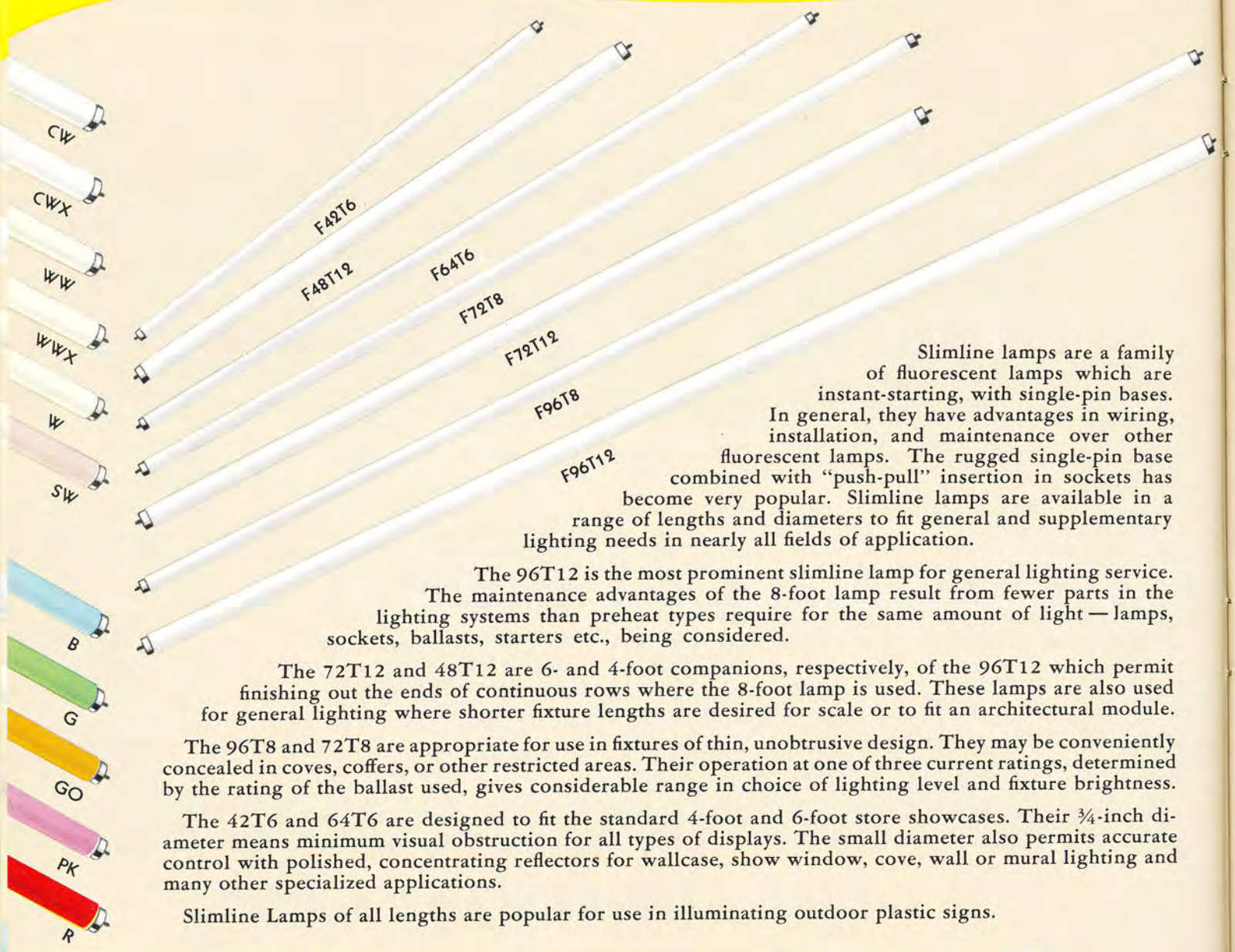
③ Life under specified test conditions with lamps turned off and re-started no oftener than once every 10 burning hours.

G-E RF FLUORESCENT LAMPS

RF lamps have special bases and are available for replacement in RF equipment.

Lamp Ordering Abbreviation	Nominal Lamp Watts	Bulb	Base	Description	Standard Package Quantity	Approx. Hours Life	Approx. Initial Lumens
RF FLUORESCENT LAMPS							
F85T10/BW	85	T-10	3 & 2 prong	Blue White	24	7500	3650
F85T10/IW	85	T-10	3 & 2 prong	Industrial White	24	7500	3650

G-E SLIMLINE FLUORESCENT LAMPS



Slimline lamps are a family of fluorescent lamps which are instant-starting, with single-pin bases. In general, they have advantages in wiring, installation, and maintenance over other fluorescent lamps. The rugged single-pin base combined with "push-pull" insertion in sockets has become very popular. Slimline lamps are available in a range of lengths and diameters to fit general and supplementary lighting needs in nearly all fields of application.

The 96T12 is the most prominent slimline lamp for general lighting service. The maintenance advantages of the 8-foot lamp result from fewer parts in the lighting systems than preheat types require for the same amount of light — lamps, sockets, ballasts, starters etc., being considered.

The 72T12 and 48T12 are 6- and 4-foot companions, respectively, of the 96T12 which permit finishing out the ends of continuous rows where the 8-foot lamp is used. These lamps are also used for general lighting where shorter fixture lengths are desired for scale or to fit an architectural module.

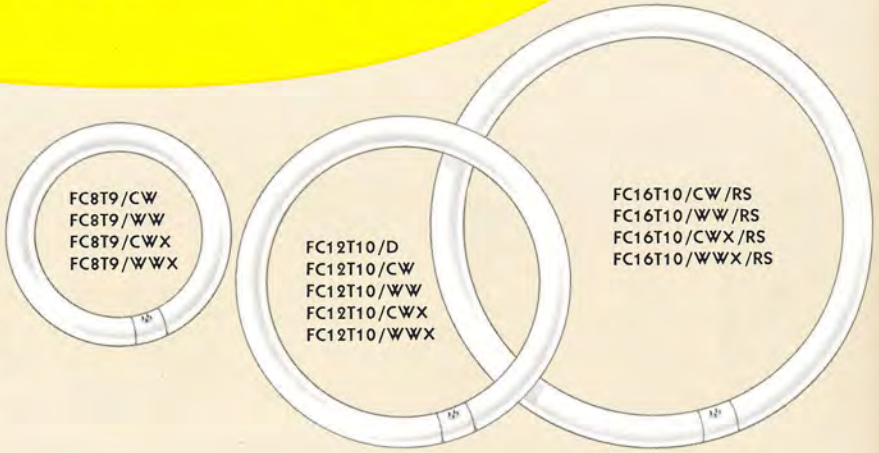
The 96T8 and 72T8 are appropriate for use in fixtures of thin, unobtrusive design. They may be conveniently concealed in coves, coffers, or other restricted areas. Their operation at one of three current ratings, determined by the rating of the ballast used, gives considerable range in choice of lighting level and fixture brightness.

The 42T6 and 64T6 are designed to fit the standard 4-foot and 6-foot store showcases. Their ¾-inch diameter means minimum visual obstruction for all types of displays. The small diameter also permits accurate control with polished, concentrating reflectors for wallcase, show window, cove, wall or mural lighting and many other specialized applications.

Slimline Lamps of all lengths are popular for use in illuminating outdoor plastic signs.

G-E CIRCLINE FLUORESCENT LAMPS

Circline fluorescent lamps are now available in three diameters. They are widely used in home lighting fixtures and portable lamps. They are also used for decorative lighting in restaurants, theatres, lobbies, lounges, and other commercial areas. They are adapted for some inspection processes in industry. The 8- and 12-inch diameter lamps may be operated on trigger-start ballasts. The 16-inch diameter lamp is designed for rapid-start operation.



SLIMLINE FLUORESCENT LAMPS (INSTANT START)

T-6 Approx. 3/4" Diameter

Lamp Ordering Abbreviation	Nominal Lamp Watts	Bulb Inches	Length	Base	Description	Standard Package Quantity	Approx. Hours Life ①	Approx. Initial Lumens ②③
F42T6/W	17.5–32.5	T-6	42	Single Pin	White	24	6000	1570
F42T6/CW	17.5–32.5	T-6	42	Single Pin	Standard Cool White	24	6000	1480
F42T6/WW	17.5–32.5	T-6	42	Single Pin	Standard Warm White	24	6000	1570
F42T6/CWX	17.5–32.5	T-6	42	Single Pin	De Luxe Cool White	24	6000	1050
F42T6/WWX	17.5–32.5	T-6	42	Single Pin	De Luxe Warm White	24	6000	1050
F42T6/SW	17.5–32.5	T-6	42	Single Pin	Soft White	24	6000	1000
F64T6/W	25.5–48	T-6	64	Single Pin	White	24	6000	2550
F64T6/CW	25.5–48	T-6	64	Single Pin	Standard Cool White	24	6000	2450
F64T6/WW	25.5–48	T-6	64	Single Pin	Standard Warm White	24	6000	2550
F64T6/CWX	25.5–48	T-6	64	Single Pin	De Luxe Cool White	24	6000	1740
F64T6/WWX	25.5–48	T-6	64	Single Pin	De Luxe Warm White	24	6000	1740
F64T6/SW	25.5–48	T-6	64	Single Pin	Soft White	24	6000	1650

T-8 Approx. 1" Diameter

F72T8/W	24.5–48.5	T-8	72	Single Pin	White	24	6000	2650
F72T8/CW	24.5–48.5	T-8	72	Single Pin	Standard Cool White	24	6000	2550
F72T8/WW	24.5–48.5	T-8	72	Single Pin	Standard Warm White	24	6000	2650
F72T8/CWX	24.5–48.5	T-8	72	Single Pin	De Luxe Cool White	24	6000	1810
F72T8/WWX	24.5–48.5	T-8	72	Single Pin	De Luxe Warm White	24	6000	1810
F96T8/D	32–65	T-8	96	Single Pin	Daylight	24	6000	3300
F96T8/W	32–65	T-8	96	Single Pin	White	24	6000	3600
F96T8/CW	32–65	T-8	96	Single Pin	Standard Cool White	24	6000	3550
F96T8/WW	32–65	T-8	96	Single Pin	Standard Warm White	24	6000	3600
F96T8/CWX	32–65	T-8	96	Single Pin	De Luxe Cool White	24	6000	2550
F96T8/WWX	32–65	T-8	96	Single Pin	De Luxe Warm White	24	6000	2550

③ Approximate initial lumens for F42T6 and F72T8 lamps are for operation at 200 ma.

T-12 Approx. 1 1/2" Diameter

F48T12/D	38	T-12	48	Single Pin	Daylight	24	7500	2150
F48T12/W	38	T-12	48	Single Pin	White	24	7500	2400
F48T12/CW	38	T-12	84	Single Pin	Standard Cool White	24	7500	2300
F48T12/WW	38	T-12	48	Single Pin	Standard Warm White	24	7500	2400
F48T12/CWX	38	T-12	48	Single Pin	De Luxe Cool White	24	7500	1700
F48T12/WWX	38	T-12	48	Single Pin	De Luxe Warm White	24	7500	1700
F72T12/CW	55	T-12	72	Single Pin	Standard Cool White	12	7500	3600
F72T12/W	55	T-12	72	Single Pin	White	12	7500	3700
F72T12/WW	55	T-12	72	Single Pin	Standard Warm White	12	7500	3700
F72T12/CWX	55	T-12	72	Single Pin	De Luxe Cool White	12	7500	2600
F72T12/WWX	55	T-12	72	Single Pin	De Luxe Warm White	12	7500	2600
F96T12/D	74	T-12	96	Single Pin	Daylight	12	7500	4650
F96T12/W	74	T-12	96	Single Pin	White	12	7500	5100
F96T12/CW	74	T-12	96	Single Pin	Standard Cool White	12	7500	5050
F96T12/WW	74	T-12	96	Single Pin	Standard Warm White	12	7500	5100
F96T12/CWX	74	T-12	96	Single Pin	De Luxe Cool White	12	7500	3750
F96T12/WWX	74	T-12	96	Single Pin	De Luxe Warm White	12	7500	3750
F96T12/SW	74	T-12	96	Single Pin	Soft White	12	7500	3400

FLUORESCENT CIRCLINE LAMPS T-9 Approx. 1 1/8" Diameter AND T-10 Approx. 1 1/4" Diameter

Lamp Ordering Abbreviation	Nominal Lamp Watts	Bulb Inches	Length	Base	Description	Standard Package Quantity	Approx. Hours Life ①	Approx. Initial Lumens ②
FC8T9/CW	22	T-9	Outside Dia. 8 1/4 inches	4-Pin	Standard Cool White	12	7500	930
FC8T9/WW	22	T-9		4-Pin	Standard Warm White	12	7500	960
FC8T9/CWX	22	T-9		4-Pin	De Luxe Cool White	12	7500	....
FC8T9/WWX	22	T-9		4-Pin	De Luxe Warm White	12	7500	....
FC12T10/D	32	T-10	Outside Dia. 12 inches	4-Pin	Daylight	12	7500	....
FC12T10/CW	22	T-10		4-Pin	Standard Cool White	12	7500	1550
FC12T10/WW	32	T-10		4-Pin	Standard Warm White	12	7500	1600
FC12T10/CWX	32	T-10		4-Pin	De Luxe Cool White	12	7500	1100
FC12T10/WWX	32	T-10		4-Pin	De Luxe Warm White	12	7500	1100
FC16T10/CW/RS	40	T-10	Outside Dia. 16 inches	4-Pin	Standard Cool White Rapid Start*	12	7500	2200
FC16T10/WW/RS	40	T-10		4-Pin	Standard Warm White Rapid Start*	12	7500	2250
FC16T10/CWX/RS	40	T-10		4-Pin	De Luxe Cool White Rapid Start*	12	7500	....
FC16T10/WWX/RS	40	T-10		4-Pin	De Luxe Warm White Rapid Start*	12	7500	....

* This lamp is designed and rated for operation in supplementary cathode preheat circuits, for which specifications are available from the lamp manufacturer. It will operate in conventional starter type circuits but is not expected to attain full rated performance. It is recommended for use only with single lamp ballasts or two lamp lead-lag ballasts and with fixtures and circuits properly grounded.

① Life under specified test conditions with lamps turned off and restarted no oftener than once every 3 burning hours.

② Approximate initial lumens after 100 hours operation

G-E INSIDE FROSTED LAMPS

These lamps, which are recommended for most general lighting applications, have an inside frosting which diffuses the light, eliminates striations and helps soften shadows. The outer bulb surfaces are smooth, easy to clean, and the frosting absorbs very little light.

The range of wattages and lumen values is comprehensive. These lamps, combined with the many types of good equipments now available, provide tools to meet the many and diverse needs for residential, commercial and industrial lighting. There are small units for local lighting and low mounting heights and larger ones for higher mounting and wider spacing. The right lamp in combination with the right reflector is essential for effective and comfortable lighting.

The standard 150-watt lamp is now made in the A-23 bulb, replacing the former PS-25 bulb.

The short bulb, medium screw, 250-watt lamp is made for use in indirect torchieres and similar portables.

Three lamps — in 500, 750, and 1000 watts — are listed with tubular bulbs of heat-resistant glass and medium bipost bases. These lamps make possible the design of commercial and industrial lighting equipments smaller in size than would be necessary if designed for equal wattages in standard PS bulbs.

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Lumens	Light Cntr. Lgth.	Max. Ovrl. Lgth.
15A15	15	A-15	Med.	Std.	120	B	C-9	1200	141	$2\frac{3}{8}$	$3\frac{1}{2}$
25A	25	A-19	Med.	Std.	120	B	C-9	1000	265	$2\frac{1}{2}$	$3\frac{15}{16}$
40A	40	A-19	Med.	Std,	120	C	C-9	1000	460	$2\frac{7}{8}$	$4\frac{1}{4}$
50A	50	A-19	Med.	Std.	120	C	CC-6	1000	660	$3\frac{1}{8}$	$4\frac{7}{16}$
60A	60	A-19	Med.	Std.	120	C	CC-6	1000	835	$3\frac{1}{8}$	$4\frac{7}{16}$
75A	75	A-19	Med.	Std.	120	C	CC-6	750	1150	$3\frac{1}{8}$	$4\frac{7}{16}$
100A	100	A-21	Med.	Std.	120	C	CC-6	750	1630	$3\frac{7}{8}$	$5\frac{5}{16}$
150A	150	A-23	Med.	Std.	60	C	CC-6	750	2700	$4\frac{5}{8}$	$6\frac{5}{16}$
150	150	PS-25	Med.	Std.	60	C	C-9	750	2550	$5\frac{1}{4}$	$6\frac{13}{16}$
200/IF	200	PS-30	Med.	Std.	60	C	C-9	750	3700	6	$8\frac{1}{16}$
250G301L①	250	G-30	Med.	Std.	60	C	C-7A	500	4700	$3\frac{1}{2}$	$6\frac{1}{2}$
300M/IF	300	PS-30	Med.	Std.	60	C	C-9	750	5900	6	$8\frac{1}{16}$
300/IF	300	PS-35	Mog.	Std.	24	C	C-9	1000	5650	7	$9\frac{3}{8}$
300MS/IF	300	PS-35	Md. Skt.	Std.	24	C	C-9	1000	5650	$7\frac{1}{2}$	$9\frac{7}{8}$
500/IF	500	PS-40	Mog.	Std.	24	C	C-9	1000	9850	7	$9\frac{3}{4}$
500T20/50②③	500	T-20	Md. Bip.	Std.	12	C	C-13	1000	9400	4	$6\frac{1}{2}$
750/IF	750	PS-52	Mog.	Std.	6	C	C-7A	1000	14200	$9\frac{1}{2}$	$13\frac{1}{16}$
750T24②③	750	T-24	Md. Bip.	Std.	24	C	C-13	1000	14200	$5\frac{1}{2}$	$9\frac{1}{8}$
1M/T24②③	1000	T-24	Md. Bip.	Std.	24	C	C-13	1000	20000	$5\frac{1}{2}$	$9\frac{1}{8}$
1000/IF	1000	PS-52	Mog.	Std.	6	C	C-7A	1000	21500	$9\frac{1}{2}$	$13\frac{1}{16}$
1500/IF④	1500	PS-52	Mog.	Std.	6	C	C-7A	1000	33000	$9\frac{1}{2}$	$13\frac{1}{16}$

①Burn base down. ②Burn base up. ③Special glass bulb — Heat-resistant.
④Recommended burning position any within 60° vertically base up or base down but lumen maintenance is best when burned vertically base up.

G-E "GA" LAMPS

50GA

100GA

The GA lamp — "The lamp with the built-in shade" — is a complete lighting device in itself and is ready to use in open-type single and cluster ceiling fixtures now using bare lamps. Designed for base-up burning, the lamp has an enameled bowl of a warm pleasing tint for homes and similar interiors which directs approximately 2/3 of the light upward and 1/3 downward.

The 50-watt GA lamp is especially appropriate for two. three, four and five light fixtures. The 100-watt size is recommended for single socket fixtures. The graceful contours and unusual style of these lamps appeal to the decorative tastes of many users such as homes, hotels, clubs, restaurants and public buildings.

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Description	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Lumens	Max. Ovrl. Lgth.
50GA	50	GA-25	Med.	Std.	Semi Indirect① I. F. Decorated Enamel Bowl	60	C	C-9	1000	580	$4\frac{7}{16}$
100GA	100	GA-30	Med.	Std.	Semi Indirect① I. F. Decorated Enamel Bowl	60	C	C-9	1000	1430	$6\frac{3}{16}$

① Burn Base Up.

G-E YELLOW LAMPS

25A/Y

40A/Y

60A/Y

100A21/61Y

150PS25/Y

G-E Enameled Yellow Lamps, excellent for decorative lighting, are designed primarily for outdoor lighting during the season of night-flying insects. They have less attraction for insects than lamps of other colors.

Yellow lamps are used on open porches, outdoor recreation areas, filling stations, camps, roadside stands, carnivals — any place where people enjoy outdoor activities under lights.

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Max. Ovrl. Lgth.
25A/Y	25	A-19	Med.	Std.	120	B	C-9	1000	$3\frac{15}{16}$
40A/Y	40	A-21	Med.	Std.	120	B	C-9	1000	$4\frac{7}{16}$
60A/Y	60	A-19	Med.	115-125①	120	C	CC-6	1000	$4\frac{7}{16}$
100A21/61Y	100	A-21	Med.	115-125①	120	C	CC-6	1000	$5\frac{5}{16}$
150PS25/Y	150	PS-25	Med.	115-125①	60	C	C-9	1000	$6\frac{15}{16}$

① Design volts 120.

G-E "Q" COATED LAMPS

These white lamps have a fine coating of silica on the inside of the bulb. This "Q" coating gives a high degree of diffusion which softens shadows and reduces shiny reflection. The light output of white lamps is approximately the same as that of inside frosted lamps of the same wattage. Since bulb blackening is not apparent through this new diffuse coating the lamps appear clean and white throughout life. The 50/150M/W lamp is for base down burning in floor, table or wall lamps.

The 60A/W and 100A/W lamps are especially suitable for use in residential fixtures and portable lamps.

The 150R/W and 50/150R/W have a special bulb shape and diffusing coatings with a variation in density which produces a controlled distribution of light when used in portable floor, table and wall lamps without diffusing bowls.

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Description	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Lumens	Light Cntr. Lgth.	Max. Ovrl. Lgth.
60A/W	60	A-19	Med.	Std.	White	120	C	CC-6	1000	835	....	$4\frac{7}{16}$
100A/W	100	A-21	Med.	Std.	White	120	C	CC-6	750	1630	$3\frac{7}{8}$	$5\frac{5}{16}$
150R/W	150	R-40	Med.	Std.	White Indirect①	24	C	C-9	1000	2200	....	$6\frac{1}{8}$
50/150R/W	50-100-150	R-40	3C. Med.	Std.	White Indirect① Three Lite	24	C	2C-2R	1000	.....	....	$6\frac{1}{8}$
50/150M/W	50-100-150	PS-25	3C. Med.	Std.	White Indirect①	60	C	2C-2R	750	.....	$3\frac{7}{8}$	$5\frac{15}{16}$
100/300	100-200-300	G-30	3C. Mog.	Std.	White Indirect Three Lite①	60	C	2C-2R	1000	.....	$3\frac{3}{4}$	$6\frac{3}{4}$

① Burn Base Down

G-E SILVERED AND SEMI-SILVERED BOWL

60A/SB

100A/1SBIF

100A/SB

150/SB

200/SBIF

Silvered bowl lamps have long been popular for efficient indirect lighting of schools, offices, homes and commercial buildings. They are also used in direct lighting equipment such as dome-type reflectors, spotlight and floodlight reflectors, and in recent designs of large-area louvered equipment. The mirrored reflecting surface is sealed against dust and dirt. The opaque bowl shields the glaring lamp filament from view; this in turn allows fixture design in which the lamp bowl is exposed so that lamp replacement is simple and direct.

Semi-silvered bowl lamps have a small open area at the bottom to provide direct downlighting emphasis over counter or display areas in stores.

200/SBIF/1

300MS/SBIF

300/SBIF

300/SBIF/1

LAMPS

500/SBIF

500/SBIF/1

750/SBIF
1000/SBIF

The process by which G-E Silvered Bowl lamps are silvered assures a high quality reflecting surface which does not dull, tarnish or deteriorate throughout the life of the lamp. The bulb is first chemically cleaned and sensitized to receive a coating of pure silver. A protective copper layer is then electrolytically deposited over the silver to prevent oxidation due to filament heat. To this is added, further, a surface of overlapping aluminum flakes. These metallic deposits, approximately 1/5000th of an inch in thickness, are firmly sealed to the glass to create a highly efficient, mirror-like reflector.

Silvered Bowl and Semi-Silvered Bowl lamps should be burned base up. Sizes from 150-watt and up should be burned in porcelain sockets.

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Description	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Light Cntr. Lgth.	Max. Ovrl. Lgth.
60A/SB	60	A-19	Med.	Std.	I. F. Silvered	120	C	CC-6	1000	$3\frac{1}{8}$	$4\frac{7}{16}$
100A/SB	100	A-23	Med.	Std.	I. F. Silvered	120	C	CC-6	750	$4\frac{3}{8}$	$6\frac{1}{16}$
100A/1SB①	100	A-21	Med.	Std.	I. F. Silvered	120	C	CC-6	1000	$3\frac{7}{8}$	$5\frac{5}{16}$
100A/1SBIF①	100	A-21	Med.	Std.	I. F. Silvered	120	C	CC-6	1000	$3\frac{7}{8}$	$5\frac{5}{16}$
150/SB	150	PS-25	Med.	Std.	I. F. Silvered	60	C	C-9	1000	$5\frac{1}{4}$	$6\frac{15}{16}$
200/SBIF	200	PS-30	Med.	Std.	I. F. Silvered	60	C	C-9	1000	6	$8\frac{1}{16}$
200/SBIF/1	200	PS-30	Mog.	Std.	I. F. Semi-Silv.	60	C	C-9	1000	6	$8\frac{1}{16}$
300MS/SBIF	300	PS-35	Md. Skt.	Std.	I. F. Silvered	24	C	C-9	1000	$7\frac{1}{2}$	$9\frac{7}{8}$
300/SBIF	300	PS-35	Mog.	Std.	I. F. Silvered	24	C	C-9	1000	7	$9\frac{3}{8}$
300/SBIF/1	300	PS-35	Mog.	Std.	I. F. Semi-Silv.	24	C	C-9	1000	7	$9\frac{3}{8}$
500/SBIF	500	PS-40	Mog.	Std.	I. F. Silvered	24	C	C-9	1000	7	$9\frac{3}{4}$
500/SBIF/1	500	PS-40	Mog.	Std.	I. F. Semi-Silv.	24	C	C-9	1000	7	$9\frac{3}{4}$
750/SBIF	750	PS-52	Mog.	Std.	I. F. Silvered	6	C	C-7A	1000	$9\frac{1}{2}$	$13\frac{1}{16}$
1000/SBIF	500	PS-52	Mog.	Std.	I. F. Silvered	6	C	C-7A	1000	$9\frac{1}{2}$	$13\frac{1}{16}$

① For use only in porcelain sockets and in fixtures so designed that the temperatures of the lamp and fixture do not exceed limits for satisfactory operation.

G-E DAYLIGHT LAMPS

Daylight lamps give a somewhat "whiter" color quality of light than regular filament lamps. The use of either frosted or clear daylight lamps is usually simply a matter of choice. However, the frosting diffuses light and helps reduce glare and sharp shadows. The clear lamps give more sparkle and shine to merchandise, such as jewelry.

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Description	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Lumens	Light Cntr. Lgth.	Max. Ovrl. Lgth.
25A/D	25	A-19	Med.	115–125	Inside Frosted	120	B	C-9	1000	.....	$2\frac{1}{2}$	$3\frac{15}{16}$
60A/D	60	A-19	Med.	115–125	Inside Frosted	120	C	CC-6	1000	500	$3\frac{1}{8}$	$4\frac{7}{16}$
100A/D	100	A-23	Med.	115–125	Inside Frosted	120	C	CC-6	750	980	$4\frac{3}{8}$	$6\frac{1}{16}$
150/D	150	PS-25	Med.	115–125	Inside Frosted	60	C	C-9	1000	1470	$5\frac{1}{4}$	$6\frac{15}{16}$
150/DCL	150	PS-25	Med.	115–125	Clear	60	C	C-9	1000	1470	$5\frac{1}{4}$	$6\frac{15}{16}$
200/D	200	PS-30	Med.	115–125	Clear	60	C	C-9	1000	2000	6	$8\frac{1}{16}$

G-E WHITE BOWL LAMPS

White Bowl lamps are designed principally for use in open type direct lighting fixtures. They have a white enamel coating on the inside of the bowl which redirects about 80% of the light upward. About 20% of the light is diffused downward through the bowl. This redirection and diffusion improves the quality of illumination by softening shadows and reducing glare.

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Description	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Light Cntr. Lgth.	Max. Ovrl. Lgth.
150/WB	150	PS-25	Med.	Std.	Inside White	60	C	C-9	750	$5\frac{1}{4}$	$6\frac{15}{16}$
200/WB	200	PS-30	Med.	Std.	Inside White	60	C	C-9	750	6	$8\frac{1}{16}$
300/WB	300	PS-35	Mog.	Std.	Inside White	24	C	C-9	1000	7	$9\frac{3}{8}$
500/WB	500	PS-40	Mog.	Std.	Inside White	24	C	C-9	1000	7	$9\frac{3}{4}$

G-E THREE-LITE LAMPS

Three-lite lamps with their two filaments provide three levels of lighting. Each filament is of a different wattage and may be lighted individually or in combination with the other.

The lower wattage is for decorative or casual effects. The combined wattage of the two filaments is for use where seeing requirements are important.

The 150-watt and 300-watt sizes are particularly applicable to floor, table and wall lamps having diffusing bowls. However, the 50/150R/W is especially for use in portable lamps without diffusing bowls because of its shape and special white diffusing coating. The 30/100 finds much use in vanity and dresser lamps.

Three-lite lamps are designed for base down operation with the exception of the mogul base 50/150-watt size.

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Light Center Length	Max. Ovrl. Length	Approx. Initial Lumens
30/100	30 70 100	A-21	3c Med.	Std.	120	C	2C-9	750	3¾	5 5/16	300, 980, 1280
50/150M	50 100 150	PS-25	3c Med.	Std.	60	C	2C-2R	750	3⅞	5 15/16	600, 1510, 2110
50/150	50 100 150	PS-25	3c Mog.	Std.	60	C	2C-2R	1000	5	6 13/16	590, 1430, 2020
50/150M/W	50 100 150	PS-25	3c Med.	Std.	60	C	2C-2R	750	3⅞	5 15/16	....
50/150R/W	50 100 150	R-40 ①	3c Med.	Std.	24	C	2C-2R	1000	....	6⅛	570, 1400, 1970
100/300	100 200 300	G-30 ①	3c Mog.	Std.	60	C	2C-2R	1000	3¾	6¾	1410, 3250, 4660
200/500	200 300 500	PS-40	3c Mog.	Std.	24	C	2C-7A	1000	7	9¾	3200, 5200, 8400

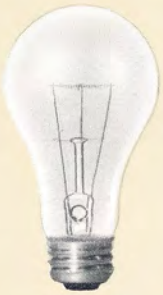
① Burn Base Down.

G-E CLEAR LAMPS

10S14

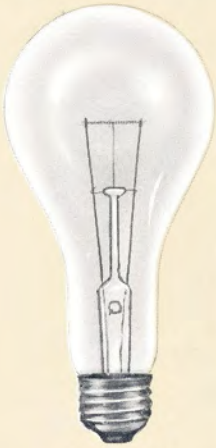
25A/CL

40A/CL

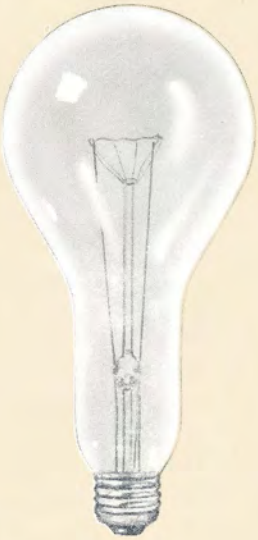


50A/CL
60A/CL
75A/CL

100A/CL

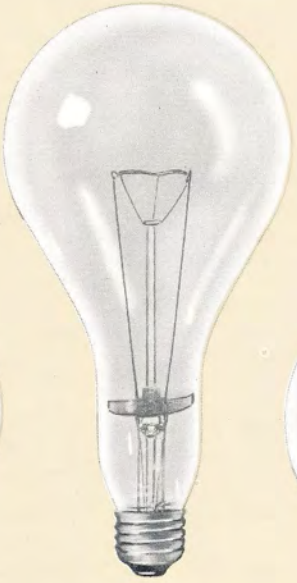


150A/CL

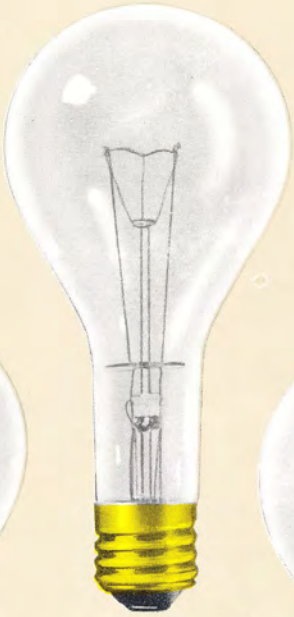


200

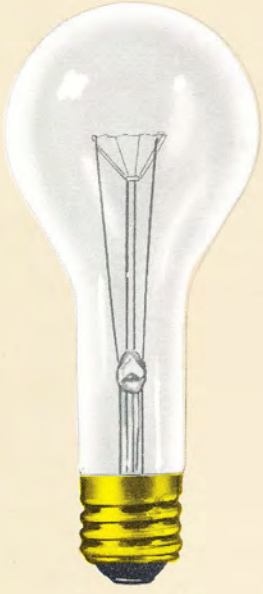
15A15/CL



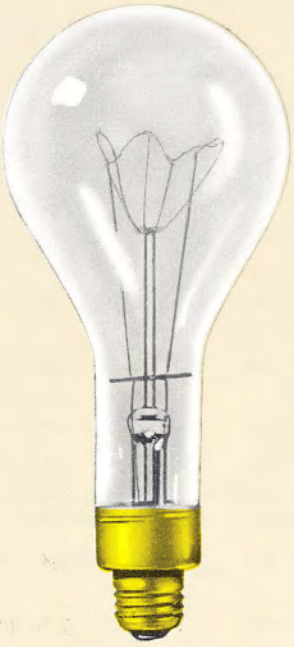
300M



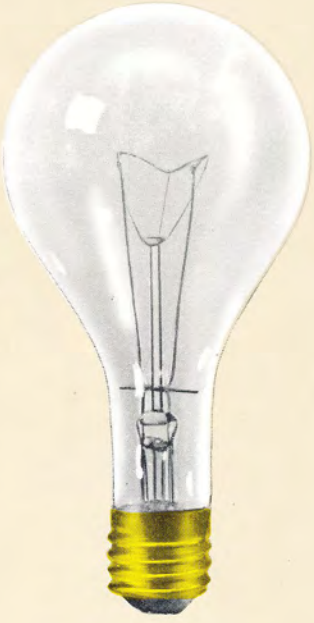
300



200PS30/12



300MS



500

750
1000
1500

1M/PS52/44
1500PS52/46

Clear lamps are suitable for general lighting where the bright filaments are modified by diffusing equipments or are adequately shielded by reflectors.

Gala lighting for amusement and festive areas can be obtained with clear, low-wattage lamps, unshielded. Or the lamps may be partially shielded by prisms, beads, and spangles.

Some reflecting or refracting units, designed for defined beam patterns, need clear lamps for a control more accurate than is obtainable with frosted lamps.

Available are 200-watt lamps, normally medium base, with mogul bases; and two 300-watt lamps, normally mogul base, with medium screw bases.

Two lamps, in wattages of 1000 and 1500, are made with bulbs of heat-resistant glass. They are intended for use in open floodlights for lighting outdoor sports, gas stations and parking areas.

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Approx. Initial Lumens	Light Cntr. Lgth.	Max. Ovrl. Lgth.
10S14	10	S-14	Med.	Std.	120	B	C-9	1500	79	$2\frac{1}{2}$	$3\frac{1}{2}$
15A15/CL	15	A-15	Med.	Std.	120	B	C-9	1200	.....	$2\frac{3}{8}$	$3\frac{1}{2}$
25A/CL	25	A-19	Med.	Std.	120	B	C-9	1000	265	$2\frac{1}{2}$	$3\frac{15}{16}$
40A/CL	40	A-19	Med.	Std.	120	C	C-9	1000	460	$2\frac{7}{8}$	$4\frac{1}{4}$
50A/CL	50	A-19	Med.	Std.	120	C	CC-6	1000	660	$3\frac{1}{8}$	$4\frac{7}{16}$
60A/CL	60	A-19	Med.	Std.	120	C	CC-6	1000	835	$3\frac{1}{8}$	$4\frac{7}{16}$
75A/CL	75	A-19	Med.	Std.	120	C	CC-6	750	1150	$3\frac{1}{8}$	$4\frac{7}{16}$
100A/CL	100	A-21	Med.	Std.	120	C	CC-6	750	1630	$3\frac{7}{8}$	$5\frac{5}{16}$
150A/CL	150	A-23	Med.	Std.	120	C	CC-6	750	2700	$4\frac{5}{8}$	$6\frac{5}{16}$
150/CL	150	PS-25	Med.	Std.	60	C	C-9	750	2550	$5\frac{1}{4}$	$6\frac{15}{16}$
200	200	PS-30	Med.	Std.	60	C	C-9	750	3700	6	$8\frac{1}{16}$
200PS30/12	200	PS-30	Mog.	Std.	60	C	C-9	750	3650	$6\frac{3}{8}$	$8\frac{7}{16}$
300M	300	PS-30	Med.	Std.	60	C	C-9	750	5900	6	$8\frac{1}{16}$
300MS	300	PS-35	Md. Skt.	Std.	24	C	C-9	1000	5650	$7\frac{1}{2}$	$9\frac{7}{8}$
300	300	PS-35	Mog.	Std.	24	C	C-9	1000	5650	7	$9\frac{3}{8}$
500	500	PS-40	Mog.	Std.	24	C	C-9	1000	9850	7	$9\frac{3}{4}$
750	750	PS-52	Mog.	Std.	6	C	C-7A	1000	15600	$9\frac{1}{2}$	$13\frac{1}{16}$
1500②	1500	PS-52	Mog.	Std.	6	C	C-7A	1000	33000	$9\frac{1}{2}$	$13\frac{1}{16}$
1000	1000	PS-52	Mog.	Std.	6	C	C-7A	1000	21500	$9\frac{1}{2}$	$13\frac{1}{16}$
1M/PS52/44①	1000	PS-52	Mog.	Std.	6	C	C-7A	1000	21500	$9\frac{1}{2}$	$13\frac{1}{16}$
1500PS52/46①②	1500	PS-52	Mog.	Std.	6	C	C-7A	1000	33000	$9\frac{1}{2}$	$13\frac{1}{16}$

① Special glass bulb — heat-resistant.

② Recommended burning position any within 60° of vertically base up or base down but lumen maintenance is best when burned vertically, base up.

G-E PROJECTOR AND REFLECTOR LAMPS

75PAR/SP

75PAR/FL

150PAR/3FL

150PAR/SP

200PAR/3FL

200PAR/3SP

300PAR56/FL

75R30/SP
75R30/FL

150R/SP
150R/FL
300R/SP
300R/FL
300R/FL/1
300R/SP/1

300R/3FL
500R/3FL
300R/3SP
500R/3SP

500R52
750R52

General Electric projector and reflector lamps are self-contained spotlighting and floodlighting units. They are widely used in commercial, industrial, and home applications. Principal advantages are compactness, convenience, and elimination of reflector deterioration due to dirt.

PAR-38 projector lamps may be used outdoors in exposed locations; other projector lamps require shielding from moisture. External devices such as color roundels, louvers, and shields can be clipped directly to the PAR-38 bulbs. The PAR-38 spots and floods with side-prong base are 1″ shorter in over-all length than the corresponding screw-base lamps. These side-prong lamps are designed to be supported by the bulb rim or metal shell of base and used with a heat resistant flexible connector. This offers ease of aiming along with minimum space requirements, for such applications as store and show-window lighting.

Heat-resistant glass although more expensive, allows higher wattage in the same bulb size and will withstand greater thermal shocks such as from moisture on the hot bulb. A noteworthy General Electric development has provided a method for applying light frost *uniformly* to bulbs of heat-resistant glass.

The R-52 lamps, in 500- and 750-watts, are especially designed for high-bay lighting in industrial plants. The contour of the silvered portion of the bulb, and the filament position, are designed for favorable light distribution and shielding. Substantially even illumination results when spacing between units does not exceed mounting height. These lamps are widely used in plants where there is rapid collection of dirt on lighting equipment. They are of special advantage where lighting units can be reached for maintenance only at high cost, or where production may be interrupted by tying up a crane. Typical applications are in foundries, railroad car shops, steel mills, and welding shops. Almost no dirt collects on the bottom face of the R-52, where the light is emitted. The bulb should be protected from moisture.

Lamp No's. 150R/SP, 150R/FL, 300R/SP, 300R/FL, should not be used in equipment when the base temperature will exceed 500°F.

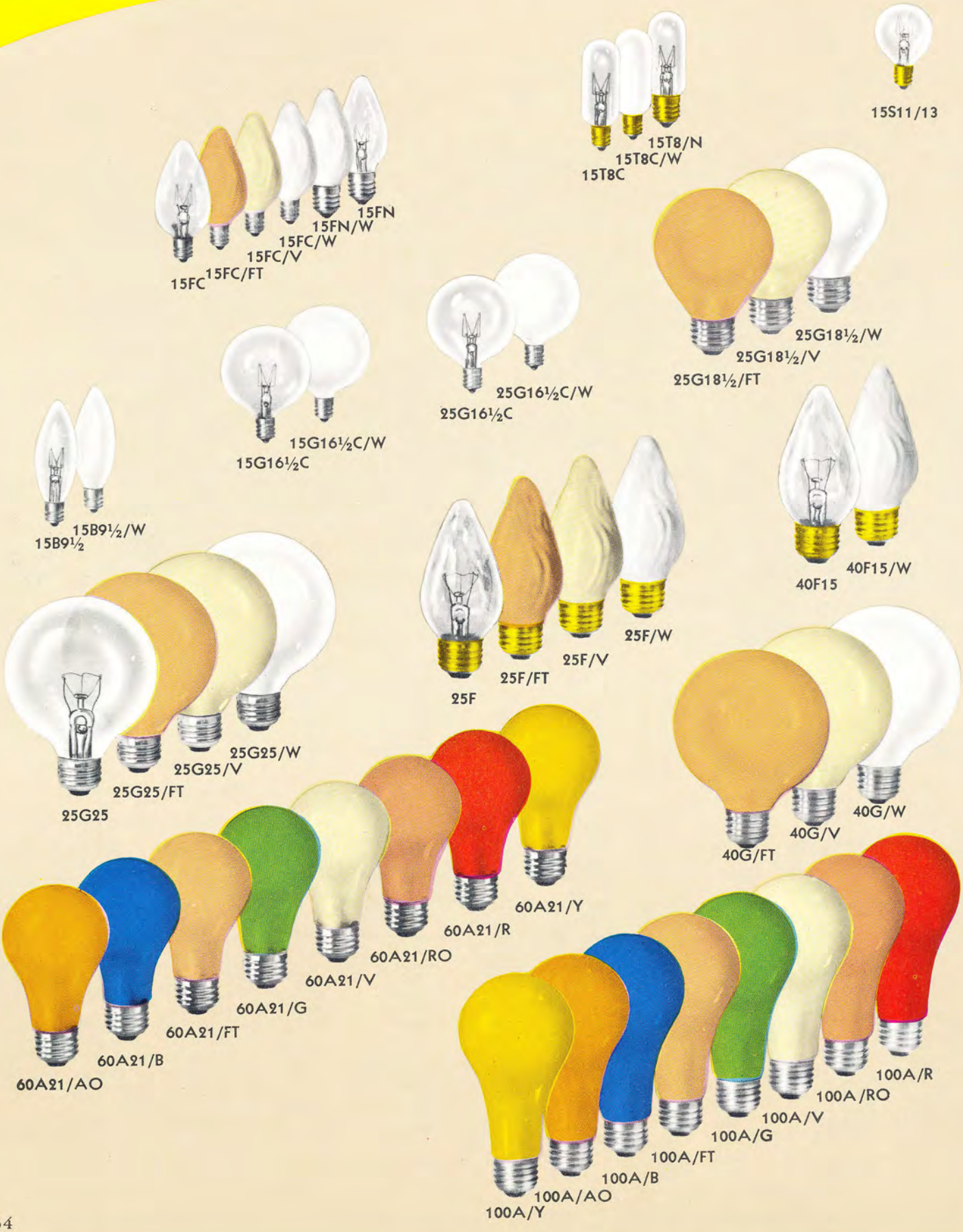
Approximate Initial Cone Lumens*			Approximate Initial Candle Power* in 10° Cone at 10 feet	
75PAR/SP	220	(30°)	75PAR/SP	1800
75PAR/FL	270	(60°)	75PAR/FL	430
150PAR/SP	1100	(30°)	150PAR/SP	10,500
150PAR/FL	1350	(60°)	150PAR/FL	3400
150PAR/3SP	1100	(30°)	75R30/SP	1800
150PAR/3FL	1350	(60°)	75R30/FL	430
75R30/SP	200	(30°)	150R/SP	6000
75R30/FL	270	(60°)	150R/FL	1250
150R/SP	660	(30°)	300R/SP	13,500
150R/FL	810	(60°)	300R/FL	2400
300R/SP	1450	(30°)		
300R/FL	1500	(60°)		

Individual lamps may vary somewhat. Maximum candlepower is somewhat greater. 30° cone same as 0–15° zone, 60° cone same as 0–30° zone.

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Description	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Max. Ovrl. Lgth.
75PAR/FL	75	PAR-38	Med. Skt.	Std.	Flood②	12	C	CC-6	2000	$5\frac{5}{16}$
75PAR/SP	75	PAR-38	Med. Skt.	Std.	Spot②	12	C	CC-6	2000	$5\frac{5}{16}$
150PAR/FL	150	PAR-38	Med. Skt.	Std.	Flood②③	12	C	CC-6	2000	$5\frac{5}{16}$
150PAR/SP	150	PAR-38	Med. Skt.	Std.	Spot②③	12	C	CC-6	2000	$5\frac{5}{16}$
150PAR/FL/R	150	PAR-38	Med. Skt.	Std.	Flood②③ Red Lens Cover	12	C	CC-6	2000	$5\frac{5}{16}$
150PAR/3FL	150	PAR-38	Med. Side Prong	Std.	Flood②	12	C	CC-6	2000	$4\frac{5}{16}$
150PAR/3SP	150	PAR-38	Med. Side Prong	Std.	Spot②	12	C	CC-6	2000	$4\frac{5}{16}$
200PAR/3SP	200	PAR-46	Med. Side Prong	Std.	Narrow Beam②	8	C	CC-13	2000	4
200PAR/3FL	200	PAR-46	Med. Side Prong	Std.	Flood②	8	C	CC-13	2000	4
300PAR56/SP	300	PAR-56	Mog. End Prong	Std.	Narrow Beam②	8	C	CC-13	2000	5
300PAR56/FL	300	PAR-56	Mog. End Prong	Std.	Flood②	8	C	CC-13	2000	5
75R30/SP	75	R-30	Med.	Std.	Spot	60	C	C-11	2000	$5\frac{3}{16}$
75R30/FL	75	R-30	Med.	Std.	Flood	60	C	C-11	2000	$5\frac{3}{16}$
150R/FL	150	R-40	Med.	Std.	Flood	24	C	C-11	2000	$6\frac{1}{2}$
150R/SP	150	R-40	Med.	Std.	Spot	24	C	C-11	2000	$6\frac{1}{2}$
300R/FL	300	R-40	Med.	Std.	Flood③	24	C	CC-2V	2000	$6\frac{1}{2}$
300R/SP	300	R-40	Med.	Std.	Spot③	24	C	CC-2V	2000	$6\frac{1}{2}$
300R/FL/1	300	R-40	Med.	Std.	Flood②③	24	C	CC-2V	2000	$6\frac{7}{8}$
300R/SP/1	300	R-40	Med.	Std.	Spot②③	24	C	CC-2V	2000	$6\frac{7}{8}$
300R/3SP	300	R-40	Mog.	Std.	Spot②	24	C	CC-2V	2000	$7\frac{1}{4}$
300R/3FL	300	R-40	Mog.	Std.	Flood②	24	C	CC-2V	2000	$7\frac{1}{4}$
500R/3SP	500	R-40	Mog.	Std.	Spot②	24	C	CC-2V	2000	$7\frac{1}{4}$
500R/3FL	500	R-40	Mog.	Std.	Flood②	24	C	CC-2V	2000	$7\frac{1}{4}$
500R52	500	R-52	Mog.	Std.	Light I. F.①	6	C	C-7A	2000	$11\frac{3}{4}$
750R52	750	R-52	Mog.	Std.	Light I. F.①	6	C	C-7A	2000	$11\frac{3}{4}$

① Burn Base Up. ② Special glass bulb — heat-resistant. ③ Burn only in porcelain sockets.

G-E DECORATIVE LAMPS



These lamps are designed for interior applications such as cove lighting, decorative designs, and special effects in homes, theatres, public buildings, restaurants, lobbies, and foyers. Outside coated lamps are not recommended for outdoor use.

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Description	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Lumens	Light Cntr. Length	Max. Ovrl. Length
15FC	15	F-10	Cand.	Std.	Clear	60	B	C-7A	750	145	....	3 1/16
15FC/FT	15	F-10	Cand.	Std.	OC-Flametint	60	B	C-7A	750	....	....	3 1/16
15FC/V	15	F-10	Cand.	Std.	OC-Ivory	60	B	C-7A	750	....	....	3 1/16
15FC/W	15	F-10	Cand.	Std.	OC-White	60	B	C-7A	750	....	....	3 1/16
15FN	15	F-10	Inter.	Std.	Clear	60	B	C-7A	750	141	....	3 1/8
15FN/W	15	F-10	Inter.	Std.	White	60	B	C-7A	750	....	....	3 1/8
15S11/13	15	S-11	Cand.	115-125	Clear①	120	B	C-7A	750	145	1 5/8	2 1/4
15T8C	15	T-8	Cand.	115-125	Clear①	60	B	C-7A	750	145	....	3 1/16
15T8C/W	15	T-8	Cand.	115-125	OC-White①	60	B	C-7A	750	....	....	3 1/16
15T8/N	15	T-8	Inter.	115-125	Clear①	60	B	C-7A	750	141	....	3 1/8
15B9 1/2	15	B-9 1/2	Cand.	Std.	Clear	60	B	C-7A	750	145	....	3 5/16
15B9 1/2/W	15	B-9 1/2	Cand.	Std.	OC-White	60	B	C-7A	750	....	....	3 5/16
15G16 1/2C	15	G-16 1/2	Cand.	Std.	Clear	60	B	C-7A	750	145	....	3
15G16 1/2C/W	15	G-16 1/2	Cand.	Std.	OC-White	60	B	C-7A	750	....	....	3
25F	25	F-15	Med.	115-125	Clear①	120	B	C-9	750	270	....	4 1/2
25F/FT	25	F-15	Med.	115-125	OC-Flametint①	120	B	C-9	750	....	....	4 1/2
25F/V	25	F-15	Med.	115-125	OC-Ivory①	120	B	C-9	750	....	....	4 1/2
25F/W	25	F-15	Med.	115-125	OC-White①	120	B	C-9	750	....	....	4 1/2
25G16 1/2C	25	G-16 1/2	Cand.	Std.	Clear	60	B	C-7A	750	260	....	3
25G16 1/2C/W	25	G-16 1/2	Cand.	Std.	White	60	B	C-7A	750	....	....	3
25G18 1/2/FT	25	G-18 1/2	Med.	Std.	OC-Flametint	120	B	C-9	750	....	....	3 9/16
25G18 1/2/V	25	G-18 1/2	Med.	Std.	OC-Ivory	120	B	C-9	750	....	....	3 9/16
25G18 1/2/W	25	G-18 1/2	Med.	Std.	OC-White	120	B	C-9	750	....	....	3 9/16
25G25	25	G-25	Med.	Std.	Clear	60	B	C-9	750	270	....	4 7/16
25G25/FT	25	G-25	Med.	Std.	OC-Flametint	60	B	C-9	750	....	....	4 7/16
25G25/V	25	G-25	Med.	Std.	OC-Ivory	60	B	C-9	750	....	....	4 7/16
25G25/W	25	G-25	Med.	Std.	OC-White	60	B	C-9	750	....	....	4 7/16
40F15	40	F-15	Med.	Std.	Clear	120	C	C-9	750	440	....	4 1/2
40F15/W	40	F-15	Med.	Std.	White	120	C	C-9	750	....	....	4 1/2
40G/FT	40	G-25	Med.	Std.	OC-Flametint	60	B	C-9	750	....	....	4 7/16
40G/V	40	G-25	Med.	Std.	OC-Ivory	60	B	C-9	750	....	....	4 7/16
40G/W	40	G-25	Med.	Std.	OC-White	60	B	C-9	750	....	....	4 7/16
60A21/AO	60	A-21	Med.	Std.	OC-Amber Orange	120	C	C-9	1000	....	3 3/8	4 15/16
60A21/B	60	A-21	Med.	Std.	OC-Blue	120	C	C-9	1000	....	3 3/8	4 15/16
60A21/FT	60	A-21	Med.	Std.	OC-Flametint	120	C	C-9	1000	....	3 3/8	4 15/16
60A21/G	60	A-21	Med.	Std.	OC-Green	120	C	C-9	1000	....	3 3/8	4 15/16
60A21/V	60	A-21	Med.	Std.	OC-Ivory	120	C	C-9	1000	....	3 3/8	4 15/16
60A21/RO	60	A-21	Med.	Std.	OC-Old Rose	120	C	C-9	1000	....	3 3/8	4 15/16
60A21/R	60	A-21	Med.	Std.	OC-Red	120	C	C-9	1000	....	3 3/8	4 15/16
60A21/Y	60	A-21	Med.	Std.	OC-Yellow	120	C	C-9	1000	....	3 3/8	4 15/16
100A/Y	100	A-23	Med.	Std.	Yellow	120	C	CC-6	750	....	....	6 1/16
100A/AO	100	A-23	Med.	Std.	Amber Orange	120	C	CC-6	750	....	....	6 1/16
100A/B	100	A-23	Med.	Std.	Blue	120	C	CC-6	750	....	....	6 1/16
100A/FT	100	A-23	Med.	Std.	Flametint	120	C	CC-6	750	....	....	6 1/16
100A/G	100	A-23	Med.	Std.	Green	120	C	CC-6	750	....	....	6 1/16
100A/V	100	A-23	Med.	Std.	Ivory	120	C	CC-6	750	....	....	6 1/16
100A/RO	100	A-23	Med.	Std.	Orange	120	C	CC-6	750	....	....	6 1/16
100A/R	100	A-23	Med.	Std.	Red	120	C	CC-6	750	....	....	6 1/16

① Design volts 120.

G-E SIGN AND DECORATIVE LAMPS

These lamps are used for outdoor signs, Christmas and other decorations, carnivals, fairs, and festoon lighting as well as many interior applications. The color is a fired-on, glass-like material that will not scratch, chip, peel, or come off when exposed to the weather. Colors are clear and bright, and they are designed for maximum appeal both in combination and alone.

SIGN AND DECORATIVE LAMPS

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Description	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Lumens	Light Cntr. Lgth.	Max. Ovrl. Lgth.
5S14	5	S-14	Med.	12	Sign	120	B	C-6	1500	45	2½	3½
6S14	6	S-14	Med.	Std.	Clear	120	B	C-9	1500	41	2½	3½
6S14/IF	6	S-14	Med.	Std.	Inside Frosted	120	B	C-9	1500	41	2½	3½
6S14/CB	6	S-14	Med.	Std.	Blue	120	B	C-9	1500	.....	....	3½
6S14/CG	6	S-14	Med.	Std.	Green	120	B	C-9	1500	.....	....	3½
6S14/CV	6	S-14	Med.	Std.	Ivory	120	B	C-9	1500	.....	....	3½
6S14/CO	6	S-14	Med.	Std.	Orange	120	B	C-9	1500	.....	....	3½
6S14/CR	6	S-14	Med.	Std.	Red	120	B	C-9	1500	.....	....	3½
6S14/CW	6	S-14	Med.	Std.	White	120	B	C-9	1500	.....	....	3½
6S14/CY	6	S-14	Med.	Std.	Yellow	120	B	C-9	1500	.....	....	3½
7½S	7½	S-11	Med.	Std.	Clear	120	B	C-7A	1400	52	....	2¼
7½S/CO	7½	S-11	Med.	Std.	Orange	120	B	C-7A	1400	.....	....	2¼
7½S/CB	7½	S-11	Med.	Std.	Blue	120	B	C-7A	1400	.....	....	2¼
7½S/CG	7½	S-11	Med.	Std.	Green	120	B	C-7A	1400	.....	....	2¼
7½S/CR	7½	S-11	Med.	Std.	Red	120	B	C-7A	1400	.....	....	2¼
7½S/CW	7½	S-11	Med.	Std.	White	120	B	C-7A	1400	.....	....	2¼
10A17	10	A-17	Med.	Std.	Flashing Sign	120	C	C-9	1000	40	2⅜	3⅝
10S11N	10	S-11	Inter.	Std.	Clear	120	B	C-7A	1500	80	1⅝	2 5/16
10S11N/CB	10	S-11	Inter.	Std.	Blue	120	B	C-7A	1500	.....	....	2 5/16
10S11N/CG	10	S-11	Inter.	Std.	Green	120	B	C-7A	1500	.....	....	2 5/16
10S11N/CR	10	S-11	Inter.	Std.	Red	120	B	C-7A	1500	.....	....	2 5/16
10S11N/CO	10	S-11	Inter.	Std.	Orange	120	B	C-7A	1500	.....	....	2 5/16
10S11N/CFT	10	S-11	Inter.	Std.	Flametint	120	B	C-7A	1500	.....	....	2 5/16
10S11N/CY	10	S-11	Inter.	Std.	Yellow	120	B	C-7A	1500	.....	....	2 5/16
10S11N/CW	10	S-11	Inter.	Std.	White	120	B	C-7A	1500	.....	....	2 5/16
10S14/IF	10	S-14	Med.	Std.	Inside Frosted	120	B	C-9	1500	78	2½	3½
10S14/D	10	S-14	Med.	115-125 ①	Clear Daylight	120	B	C-9	1500	47	2½	3½
10S14/CB	10	S-14	Med.	Std.	Blue	120	B	C-9	1500	.....	....	3½
10S14/CG	10	S-14	Med.	Std.	Green	120	B	C-9	1500	.....	....	3½
10S14/CR	10	S-14	Med.	Std.	Red	120	B	C-9	1500	.....	....	3½
10S14/CO	10	S-14	Med.	Std.	Orange	120	B	C-9	1500	.....	....	3½
10S14/CY	10	S-14	Med.	Std.	Yellow	120	B	C-9	1500	.....	....	3½
10S14/CW	10	S-14	Med.	Std.	White	120	B	C-9	1500	.....	....	3½
10S14/CFT	10	S-14	Med.	Std.	Flametint	120	B	C-9	1500	.....	....	3½
10S14/CV	10	S-14	Med.	Std.	Ivory	120	B	C-9	1500	.....	....	3½
10S14/CR2	10	S-14	Med.	Std.	Rose	120	B	C-9	1500	.....	....	3½
15A17/AO	15	A-17	Med.	Std.	Amber-Orange	120	B	C-9	1200	.....	2⅜	3⅝
15A17/B	15	A-17	Med.	Std.	Blue	120	B	C-9	1200	.....	2⅜	3⅝
15A17/FT	15	A-17	Med.	Std.	Flametint	120	B	C-9	1200	.....	2⅜	3⅝
15A17/G	15	A-17	Med.	Std.	Green	120	B	C-9	1200	.....	2⅜	3⅝
15A17/V	15	A-17	Med.	Std.	Ivory	120	B	C-9	1200	.....	2⅜	3⅝
15A17/RO	15	A-17	Med.	Std.	Old Rose	120	B	C-9	1200	.....	2⅜	3⅝
15A17/R	15	A-17	Med.	Std.	Red	120	B	C-9	1200	.....	2⅜	3⅝
15A17/W	15	A-17	Med.	Std.	White	120	B	C-9	1200	.....	2⅜	3⅝
15A17/Y	15	A-17	Med.	Std.	Yellow	120	B	C-9	1200	.....	2⅜	3⅝
20A17/5	20	A-17	Med.	Std.	Clear	120	C	C-9	1000	150	2⅜	3⅝
25A/O	25	A-19	Med.	Std.	Orange	120	B	C-9	1000	.....	....	3 15/16
25A/FT	25	A-19	Med.	Std.	Flametint	120	B	C-9	1000	.....	....	3 15/16
25A/Y	25	A-19	Med.	Std.	Yellow	120	B	C-9	1000	.....	....	3 15/16
25A/R2	25	A-19	Med.	Std.	O. Rose	120	B	C-9	1000	.....	....	3 15/16
25A/B	25	A-19	Med.	Std.	Blue	120	B	C-9	1000	.....	....	3 15/16
25A/G	25	A-19	Med.	Std.	Green	120	B	C-9	1000	.....	....	3 15/16
25A/R	25	A-19	Med.	Std.	Red	120	B	C-9	1000	.....	....	3 15/16
25A/W	25	A-19	Med.	Std.	White	120	B	C-9	1000	.....	....	3 15/16
25A/V	25	A-19	Med.	Std.	Ivory	120	B	C-9	1000	.....	....	3 15/16
40A/O	40	A-21	Med.	Std.	Orange	120	B	C-9	1000	.....	2⅞	4 7/16
40A/B	40	A-21	Med.	Std.	Blue	120	B	C-9	1000	.....	2⅞	4 7/16
40A/FT	40	A-21	Med.	Std.	Flametint	120	B	C-9	1000	.....	2⅞	4 7/16
40A/G	40	A-21	Med.	Std.	Green	120	B	C-9	1000	.....	2⅞	4 7/16
40A/V	40	A-21	Med.	Std.	Ivory	120	B	C-9	1000	.....	2⅞	4 7/16
40A/R	40	A-21	Med.	Std.	Red	120	B	C-9	1000	.....	2⅞	4 7/16
40A/R2	40	A-21	Med.	Std.	Rose	120	B	C-9	1000	.....	2⅞	4 7/16
40A/Y	40	A-21	Med.	Std.	Yellow	120	B	C-9	1000	.....	2⅞	4 7/16

① Design volts 120.

G-E NATURAL COLORED LAMPS

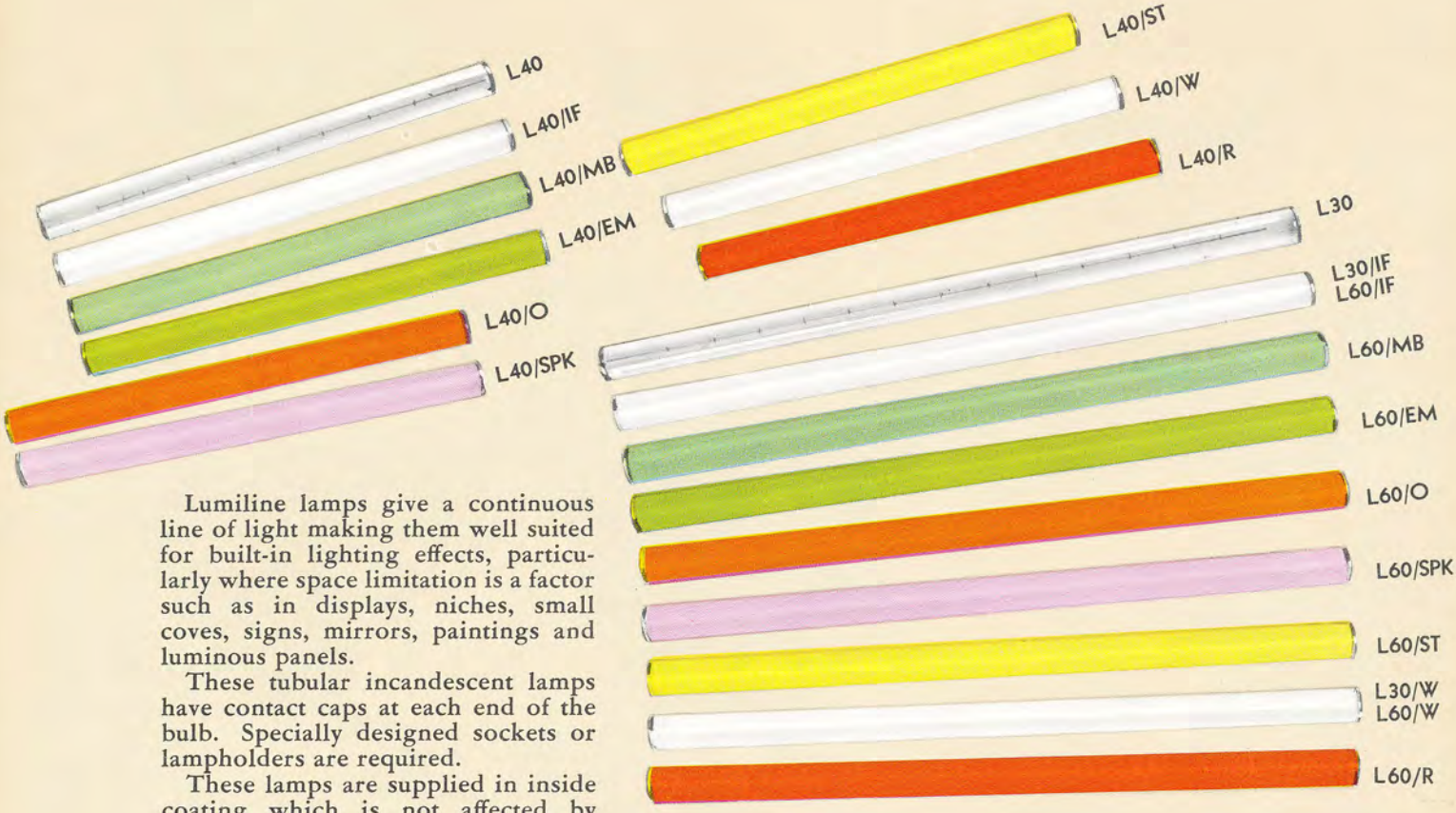
Lamps with natural colored glass bulbs are recommended for use where it is important to achieve color with a non-diffusing bulb. They are used more for specialized applications than for ordinary sign and decorative color effects.

These lamps are primarily for indoor applications. If the 60-watt gas filled lamps are used outdoors it is best to protect them from moisture.

Natural ruby and natural amber lamps are regularly furnished in the lighter shade. Dark ruby and dark amber lamps used in photographic work will be furnished only when definitely specified, at the same price.

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Description	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Max. Over-all Length
10S14/NA	10	S-14	Med.	Std.	Amber	6-120	B	C-9	1500	$3\frac{1}{2}$
10S14/NB	10	S-14	Med.	Std.	Blue	6-120	B	C-9	1500	$3\frac{1}{2}$
10S14/NG	10	S-14	Med.	Std.	Green	6-120	B	C-9	1500	$3\frac{1}{2}$
10S14/NR	10	S-14	Med.	Std.	Ruby	6-120	B	C-9	1500	$3\frac{1}{2}$
25A/NA	25	A-19	Med.	Std.	Amber	6-120	B	C-9	1000	$3\frac{15}{16}$
25A/NB	25	A-19	Med.	Std.	Blue	6-120	B	C-9	1000	$3\frac{15}{16}$
25A/NG	25	A-19	Med.	Std.	Green	6-120	B	C-9	1000	$3\frac{15}{16}$
25A/NR	25	A-19	Med.	Std.	Ruby	6-120	B	C-9	1000	$3\frac{15}{16}$
40A/NA	40	A-21	Med.	Std.	Amber	6-120	B	C-9	1000	$4\frac{7}{16}$
40A/NB	40	A-21	Med.	Std.	Blue	6-120	B	C-9	1000	$4\frac{7}{16}$
40A/NG	40	A-21	Med.	Std.	Green	6-120	B	C-9	1000	$4\frac{7}{16}$
40A/NR	40	A-21	Med.	Std.	Ruby	6-120	B	C-9	1000	$4\frac{7}{16}$
60A21/NA	60	A-21	Med.	Std.	Amber	6-120	C	C-9	1000	$4\frac{15}{16}$
60A21/NB	60	A-21	Med.	Std.	Blue	6-120	C	C-9	1000	$4\frac{15}{16}$
60A21/NG	60	A-21	Med.	Std.	Green	6-120	C	C-9	1000	$4\frac{15}{16}$
60A21/NR	60	A-21	Med.	Std.	Ruby	6-120	C	C-9	1000	$4\frac{15}{16}$

G-E LUMILINE LAMPS



Lumiline lamps give a continuous line of light making them well suited for built-in lighting effects, particularly where space limitation is a factor such as in displays, niches, small coves, signs, mirrors, paintings and luminous panels.

These tubular incandescent lamps have contact caps at each end of the bulb. Specially designed sockets or lampholders are required.

These lamps are supplied in inside coating which is not affected by moisture and weather conditions. However, the lamps are generally considered for interior use.

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Description	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Lumens	Max. Ovrl. Lgth.
L30	30	T-8	Disc	Std.	Clear	24	B	C-8	1500	250	17¾
L30/IF	30	T-8	Disc	Std.	Inside Frosted	24	B	C-8	1500	245	17¾
L30/W	30	T-8	Disc	Std.	White	24	B	C-8	1500	.....	17¾
L40	40	T-8	Disc	Std.	Clear	24	B	C-8	1500	370	11¾
L40/IF	40	T-8	Disc	Std.	Inside Frosted	24	B	C-8	1500	365	11¾
L40/MB	40	T-8	Disc	Std.	Moonlight Blue	24	B	C-8	1500	.....	11¾
L40/EM	40	T-8	Disc	Std.	Emerald	24	B	C-8	1500	.....	11¾
L40/O	40	T-8	Disc	Std.	Orange	24	B	C-8	1500	.....	11¾
L40/SPK	40	T-8	Disc	Std.	Surprise Pink	24	B	C-8	1500	.....	11¾
L40/ST	40	T-8	Disc	Std.	Straw	24	B	C-8	1500	.....	11¾
L40/W	40	T-8	Disc	Std.	White	24	B	C-8	1500	.....	11¾
L40/R	40	T-8	Disc	Std.	Red	24	B	C-8	1500	.....	11¾
L60	60	T-8	Disc	Std.	Clear	24	B	C-8	1500	560	17¾
L60/IF	60	T-8	Disc	Std.	Inside Frosted	24	B	C-8	1500	550	17¾
L60/MB	60	T-8	Disc	Std.	Moonlight Blue	24	B	C-8	1500	.....	17¾
L60/EM	60	T-8	Disc	Std.	Emerald	24	B	C-8	1500	.....	17¾
L60/O	60	T-8	Disc	Std.	Orange	24	B	C-8	1500	.....	17¾
L60/SPK	60	T-8	Disc	Std.	Surprise Pink	24	B	C-8	1500	.....	17¾
L60/ST	60	T-8	Disc	Std.	Straw	24	B	C-8	1500	.....	17¾
L60/W	60	T-8	Disc	Std.	White	24	B	C-8	1500	.....	17¾

G-E REFLECTOR COLOR LAMPS

150R/R

150R/PK

150R/G

150R/Y

150R/BW

150R/B

G-E reflector color lamps provide dramatic display and lighting effects. The four basic colors, red, green, yellow and blue are ideal for lighting backgrounds to accentuate merchandise on display.

Pink and blue-white provide general illumination as well as color effects. Pink is used for warmth and blue-white for cool highlights.

Intermediate hues are obtained by mixing appropriate pairs of the basic colors in various combinations.

Reflector color lamps fit in regular sockets and holders. The silvered reflector is built right into the lamps, — cannot get dirty or tarnish. Color is fused onto the glass so it cannot fade, chip or peel.

When used outdoors these lamps should be sheltered or housed in suitable fixtures to protect them from rain or snow.

Lamp Ordering Abbreviation	Watts	Bulb	Base	Std. Pkg. Qty.	Max. Over-all Length Inches
150R/R(Red)	150	R-40	Medium	12	6 7/8
150R/PK(Pink)	150	R-40	Medium	12	6 7/8
150R/G(Green)	150	R-40	Medium	12	6 7/8
150R/Y(Yellow)	150	R-40	Medium	12	6 7/8
150R/BW(Blue-White)	150	R-40	Medium	12	6 7/8
150R/B(Blue)	150	R-40	Medium	12	6 7/8

G-E STREET RAILWAY LAMPS

36A/RYH

94P25

150/P25/15

36A/RY
56A21
1.6A/A21

1A/A19

101A23

Headlight lamps are designed for operation in series with four lamps of corresponding wattage and voltage used elsewhere in the car.

Car Lighting, 5-in-series, lamps are of the vacuum type. The 36-watt and 56-watt lamps provide more satisfactory performance when operated in the vertical base-up position.

The 30-volt cut-out lamps are of the gas-filled type and are provided with a cut-out feature which short circuits the individual lamp upon burnout.

Shop and Yard Lighting—Arc-resisting lamps are provided with a feature built into the stem of the lamp to minimize the tendency to arc when a lamp in the 5-in-series circuit burns out They are chiefly used in the lighting of shops and yards.

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Description	Std. Pkg. Qty.	Class	Fila.	Approx. Hours Life	Lumens	Light Cntr. Lgth.	Max. Ovrl. Lgth.
36A/RYH	36	A-19	Med.	Std.	Headlight	120	B	C-5	1000	375	$2\frac{3}{16}$	$3\frac{15}{16}$
94P25	94	P-25	Med.	Std.	Headlight	60	B	C-5	1000	920	$2\frac{1}{16}$	$4\frac{3}{4}$
150P25/15	150	P-25	Med.	Std.	Headlight	60	C	C-5	500	1900	3	$4\frac{3}{4}$
CAR LIGHTING (5-in-Series)												
36A/RY①	36	A-21	Med.	Std.	.....	120	B	C-9	2000	365	$2\frac{7}{8}$	$4\frac{7}{16}$
56A21②	56	A-21	Med.	Std.	.....	120	B	C-9	2000	585	$2\frac{7}{8}$	$4\frac{7}{16}$
① Design Amps. .342 ② Design Amps. .519												
CAR LIGHTING (Cutout Lamps 30-Volt)												
1A/A19	1 amp.	A-19	Med.	30	.....	120	C	C-2R	2000	400	$2\frac{1}{2}$	$3\frac{15}{16}$
1.6A/A21	1.6 amp.	A-21	Med.	30	.....	120	C	C-2R	2000	710	$2\frac{7}{8}$	$4\frac{7}{16}$
SHOP AND YARD LIGHTING (Arc Resisting)												
101A23	101	A-23	Med.	Std.	.....	120	C	C-9	1500	1150	$4\frac{3}{8}$	$6\frac{1}{16}$

G-E TRAFFIC SIGNAL LAMPS

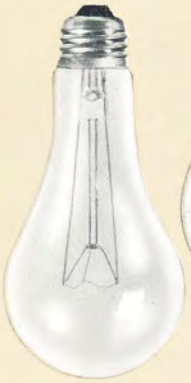
The traffic-signal beam candlepowers recommended by the Institute of Traffic Engineers are based on the light output of the standard 60-watt traffic signal lamp. The 67-watt lamp is equivalent in light output to the 60-watt lamp and has longer life for group replacement which usually reduces maintenance expense and signal outages due to lamp burnouts.

The 100-watt and 111-watt lamps are used where there is high background brightness or where a special hazard may call for a signal having unusually high attention-value.

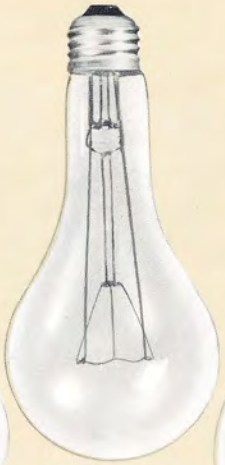
40A/TS
60A21/TS
67A21/40
100A21/TS
111A21/TS

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Burning Position	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Lumens	Light Cntr. Lgth.	Max. Ovrl. Lgth.
40A/TS	40	A-21	Med.	Std.	Burn	120	C	C-9	2000	360	$2\frac{7}{16}$	$4\frac{7}{16}$
60A21/TS	60	A-21	Med.	Std.	Base	120	C	C-9	2000	665	$2\frac{7}{16}$	$4\frac{7}{16}$
67A21/40	67	A-21	Med.	Std.	Down	120	C	C-9	3000	715	$2\frac{7}{16}$	$4\frac{7}{16}$
100A21/TS	100	A-21	Med.	Std.	To	120	C	C-9	2000	1260	$2\frac{7}{16}$	$4\frac{7}{16}$
111A21/TS	111	A-21	Med.	Std.	Horizontal	120	C	C-9	3000	1380	$2\frac{7}{16}$	$4\frac{7}{16}$

G-E STREET LIGHTING LAMPS



85A23/48
92A23/49



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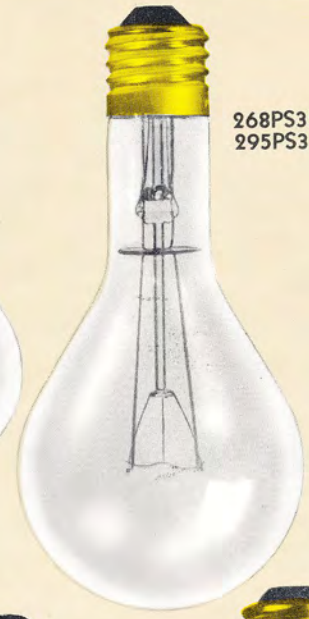
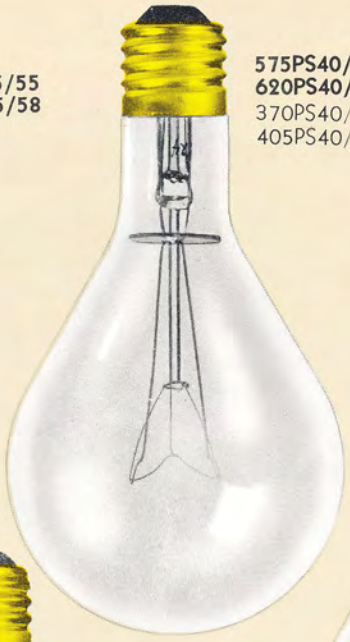
189PS25/64



268PS35/55
295PS35/58



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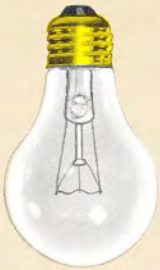
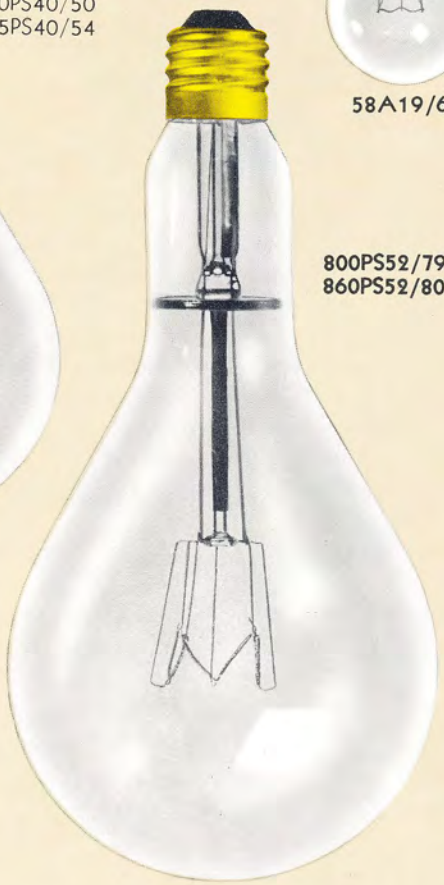
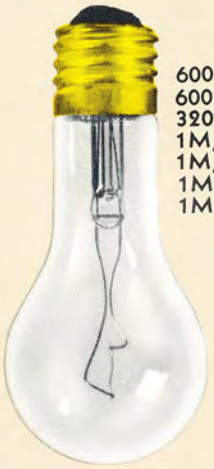
620PS40/53
370PS40/50
405PS40/54



58A19/62

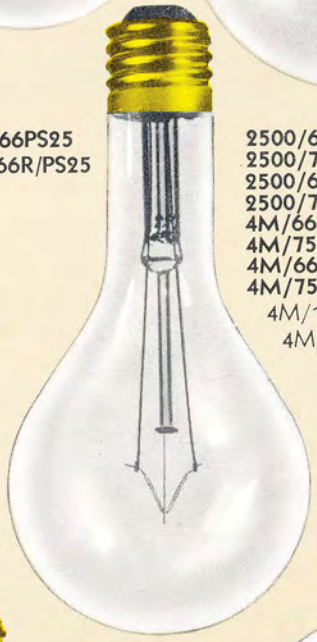


800PS52/79
860PS52/80

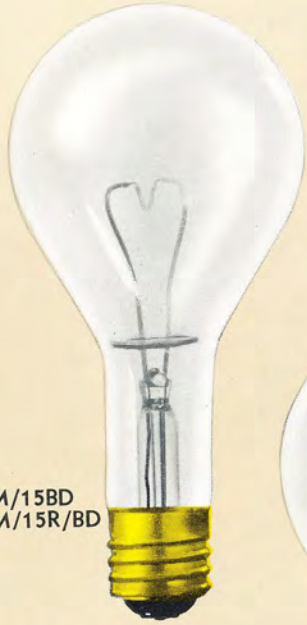


600/66
600/66R
320/66
1M/66
1M/75
1M/66R
1M/75R

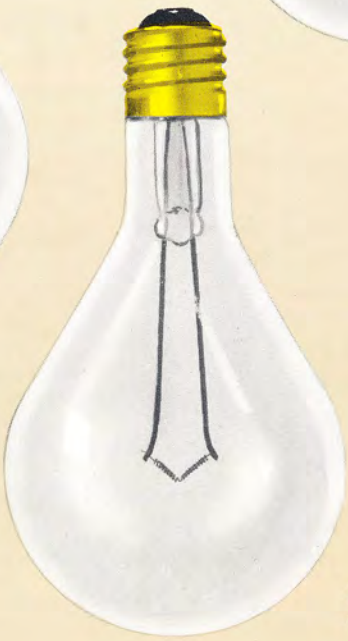
2500/66PS25
2500/66R/PS25



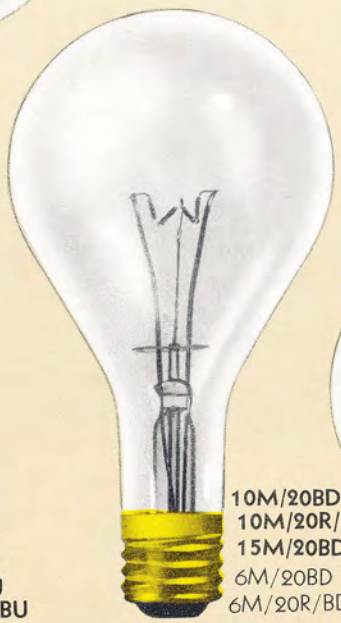
2500/66
2500/75
2500/66R
2500/75R
4M/66
4M/75
4M/66R
4M/75R
4M/15BU
4M/15R/BU



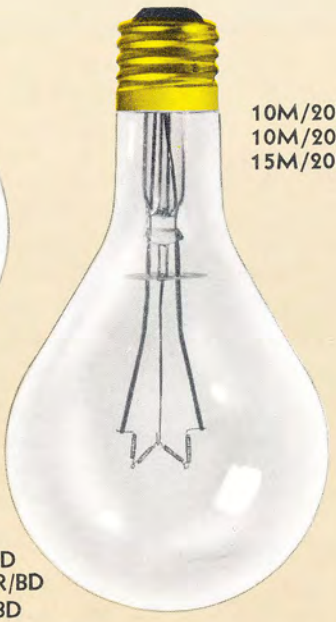
4M/15BD
4M/15R/BD



6M/20BU
6M/20R/BU



10M/20BD
10M/20R/BD
15M/20BD
6M/20BD
6M/20R/BD



10M/20BU
10M/20R/BU
15M/20BU

Filament forms and support constructions of lamps in light face type are not exactly as illustrated but differ only slightly.

Use of multiple lamps in street lighting is steadily increasing. A multiple street lamp having a certain value of nominal lumens is designed to deliver the same average light output throughout life as the series lamp of corresponding lumen rating.

Street series lamps, operated on constant-current series circuits, have a slow increase in wattage and filament temperature throughout life. Hence the light output is maintained throughout life at a high percentage of initial value.

Current variations affect sharply the performance of street series lamps. The current in street series circuits should therefore be adjusted as nearly as possible to rated value.

The 3000-hour street lighting lamps are intended for group replacement twice a year. The "standard" (2000-hour series and 1500-hour multiple) street lighting lamps are widely used for group replacement three times a year. Reference: General Electric Lamp Division Bulletin LS-106A, "Analysis of Street Lighting Costs as Affected by Group Replacement."

MULTIPLE STREET LIGHTING LAMPS

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Burning Position	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Lumens	Light Cntr. Lgth.	Max. Ovrl. Lgth.
58A19/62	58	A-19	Med.	Std.	Any	120	C	C-9	3000	665	2 7/8	4 1/4
85A23/48	85	A-23	Med.	Std.	Any	120	C	C-9	1500	1150	4 3/8	6 1/16
175PS25/63	175	PS-25	Med.	Std.	Any	60	C	C-9	1500	2800	5 1/4	6 15/16
268PS35/55	268	PS-35	Mog.	Std.	Any	24	C	C-9	1500	4600	7	9 3/8
370PS40/50	370	PS-40	Mog.	Std.	Any	24	C	C-9	1500	6650	7	9 3/4
575PS40/51	575	PS-40	Mog.	Std.	Any	24	C	C-7A	1500	11000	7	9 3/4
800PS52/79	800	PS-52	Mog.	Std.	Any	6	C	C-7A	1500	15200	9 1/2	13 1/16

GROUP REPLACEMENT MULTIPLE STREET LIGHTING LAMPS

92A23/49	92	A-23	Med.	Std.	Any	120	C	C-9	3000	1150	4 3/8	6 1/16
189PS25/64	189	PS-25	Med.	Std.	Any	60	C	C-9	3000	2800	5 1/4	6 15/16
295PS35/58	295	PS-35	Mog.	Std.	Any	24	C	C-9	3000	4700	7	9 3/8
405PS40/54	405	PS-40	Mog.	Std.	Any	24	C	C-9	3000	6650	7	9 3/4
620PS40/53	620	PS-40	Mog.	Std.	Any	24	C	C-7A	3000	10800	7	9 3/4
860PS52/80	860	PS-52	Mog.	Std.	Any	6	C	C-7A	3000	15300	9 1/2	13 1/16

STREET SERIES LAMPS

Lamp Ordering Abbreviation	Lumens	Clear Bulb	Base	Volts	Amps.	Burning Position	Std. Pkg. Qty.	Class	Filament	Avg. Life	Avg. Light Center Lgth.	Max. Ovrl. Lgth.
320/66	320	PS-25	Mog.	4.3	6.6	Any	60	C	C-8	2000	5 3/8	7 1/8
600/66	600	PS-25	Mog.	6.4	6.6	Any	60	C	C-8	2000	5 3/8	7 1/8
1M/66	1000	PS-25	Mog.	9.5	6.6	Any	60	C	C-8	2000	5 3/8	7 1/8
1M/75	1000	PS-25	Mog.	9.8	7.5	Any	60	C	C-8	2000	5 3/8	7 1/8
2500/66PS25	2500	PS-25	Mog.	21.5	6.6	Base Up	60	C	C-2V	2000	5 3/8	7 1/8
2500/66	2500	PS-35	Mog.	21.6	6.6	Any	24	C	C-2V	2000	7	9 3/8
2500/75	2500	PS-35	Mog.	19.2	7.5	Any	24	C	C-2V	2000	7	9 3/8
4M/66	4000	PS-35	Mog.	32.8	6.6	Any	24	C	C-2V	2000	7	9 3/8
4M/75	4000	PS-35	Mog.	29.1	7.5	Any	24	C	C-2V	2000	7	9 3/8
4M/15BU	4000	PS-35	Mog.	13.8	15	Base Up	24	C	C-2V	2000	7	9 3/8
4M/15BD	4000	PS-35	Mog.	13.8	15	Base Down	24	C	C-2V	2000	6 1/4	9 3/8
6M/66	6000	PS-40	Mog.	48.4	6.6	Any	24	C	C-2V	2000	7	9 3/4
6M/20BU	6000	PS-40	Mog.	14.9	20	Base Up	24	C	C-2V	2000	7	9 3/4
6M/20BD	6000	PS-40	Mog.	14.9	20	Base Down	24	C	C-2V	2000	6 1/4	9 3/4
10M/20BU	10M	PS-40	Mog.	24.4	20	Base Up	24	C	C-7	2000	7	9 3/4
10M/20BD	10M	PS-40	Mog.	24.4	20	Base Down	24	C	C-7	2000	6 1/4	9 3/4
10M/66	10M	PS-40	Mog.	79.7	6.6	Any	12	C	C-7A	2000	7	9 3/4
15M/20BU	15M	PS-40	Mog.	35.9	20	Base Up	24	C	C-7	2000	7	9 3/4
15M/20BD	15M	PS-40	Mog.	35.9	20	Base Down	24	C	C-7	2000	6 1/4	9 3/4

GROUP REPLACEMENT SERIES LAMPS

600/66R	600	PS-25	Mog.	6.7	6.6	Any	60	C	C-8	3000	5 3/8	7 1/8
1M/66R	1000	PS-25	Mog.	9.8	6.6	Any	60	C	C-8	3000	5 3/8	7 1/8
1M/75R	1000	PS-25	Mog.	8.7	7.5	Any	60	C	C-8	3000	5 3/8	7 1/8
2500/66R/PS25	2500	PS-25	Mog.	22.3	6.6	Base Up	60	C	C-2V	3000	5 3/8	7 1/8
2500/66R	2500	PS-35	Mog.	22.4	6.6	Any	24	C	C-2V	3000	7	9 3/8
2500/75R	2500	PS-35	Mog.	19.8	7.5	Any	24	C	C-2V	3000	7	9 3/8
4M/66R	4000	PS-35	Mog.	34.2	6.6	Any	24	C	C-2V	3000	7	9 3/8
4M/75R	4000	PS-35	Mog.	30.0	7.5	Any	24	C	C-2V	3000	7	9 3/8
4M/15R/BU	4000	PS-35	Mog.	14.6	15	Base Up	24	C	C-2V	3000	7	9 3/8
4M/15R/BD	4000	PS-35	Mog.	14.6	15	Base Up	24	C	C-2V	3000	6 1/4	9 3/8
6M/66R	6000	PS-40	Mog.	50.0	6.6	Any	12	C	C-2V	3000	7	9 3/4
6M/20R/BU	6000	PS-40	Mog.	15.7	20	Base Up	12	C	C-2V	3000	7	9 3/4
6M/20R/BD	6000	PS-40	Mog.	15.7	20	Base Down	12	C	C-2V	3000	6 1/4	9 3/4
10M/66R	10000	PS-40	Mog.	86.6	6.6	Any	24	C	C-7A	3000	7	9 3/4
10M/20R/BU	10000	PS-40	Mog.	25.3	20	Base Up	24	C	C-7	3000	7	9 3/4
10M/20R/BD	10000	PS-40	Mog.	25.3	20	Base Down	24	C	C-7	3000	6 1/4	9 3/4

G-E AVIATION LAMPS

15A15/CL

6.6A/T10P
6.6A/T10/1P

6.6A/T14P

25A/CL

50A/CL/VS

40A21P
100A21P

40T10P

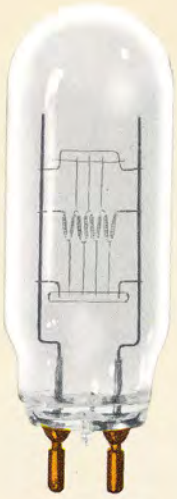
F5000
F3RP12/BL

Airway and airport lamps and airplane landing lamps are generally used in projection type of equipment. In G-E Aviation Lamps for these applications the filaments are accurately positioned to aid in providing the desired beam patterns.

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Description	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Lumens	Light Cntr. Lgth.	Max. Ovrl. Lgth.
500PS40/45	500	PS-40	Mog. Pf.	Std.	Code Beacon	24	C	C-9	1000	9850	$5\frac{11}{16}$	$10\frac{1}{16}$
620PS40P	620	PS-40	Mog. Pf.	Std.	Code Beacon	24	C	C-7A	3000	10800	$5\frac{11}{16}$	$10\frac{1}{16}$
620PS40/1P	620	PS-40	Mog. Pf.	Std.	Code Beacon	24	C	C-7A	3000	10800	$5\frac{11}{16}$	$10\frac{1}{16}$
500T20/13	500	T-20	Med. Bip.	Std.	Airway Beacon ②	12	C	C-13B	500	9500	3	$7\frac{1}{2}$
500T20/24	500	T-20	Mog.	Std.	On Course Bea. ②	12	C	C-13B	800	.....	$4\frac{3}{4}$	$9\frac{1}{16}$
500T20P/AB	500	T-20	Mog. Pf.	Std.	On Course Bea. ②	12	C	C-13B	800	.....	$3\frac{7}{16}$	$9\frac{1}{2}$
1M/T20BP	1000	T-20	Mog. Bip.	30	Airway Beacon ②	12	C	C-13	500	23500	4	$9\frac{1}{2}$
1M/T20BP	1000	T-20	Mog. Bip.	Std.	Airway Beacon ②	12	C	C-13	500	20500	4	$9\frac{1}{2}$
F3RP12/BL	3	RP-12	D.C.Indexing	12–16	U. V. Inst.	120	..	.....	....	.....	....	$2\frac{9}{16}$
F5000	4	RP-12	D.C.Indexing	24–28	U. V. Inst.	120	..	.....	....	.....	....	$2\frac{9}{16}$
250PAR	250	PAR-56	Mog. Prong	12.5	Approach ①	8	C	C-6	100	.....	....	5
399PAR	399	PAR-56	Mog. Prong	115	Approach ①	8	C	CC-13	100	.....	....	5
100A21P	100	A-21	Med. Pf.	Std.	Marker ①	120	C	CC-2V	2000	.....	$2\frac{3}{4}$	$5\frac{5}{16}$
6.6A/T10P	45	T-10	Med. Pf.	6.6A.	Marker ②	60	C	C-2V	1000	740	$1\frac{1}{2}$	$3\frac{15}{16}$
6.6A/T10/1P	30	T-10	Med. Pf.	6.6A.	Marker ②	60	C	C-2V	1000	390	$1\frac{1}{2}$	$3\frac{15}{16}$
6.6A/T14P	200	T-14	Med. Pf.	6.6A.	Marker ②	24	C	C-13	75	4900	$2\frac{3}{16}$	$5\frac{3}{4}$
15A15/CL	15	A-15	Med.	Std.	Wind Direction	120	B	C-9	1200	.....	$2\frac{3}{8}$	$3\frac{1}{2}$
25A/CL	25	A-19	Med.	Std.	Boundary Marker	120	B	C-9	1000	265	$2\frac{1}{2}$	$3\frac{15}{16}$
40T10P	40	T-10	Med. Pf.	Std.	Marker ②	60	C	CC-2V	1000	.....	$1\frac{1}{2}$	$3\frac{15}{16}$
40A21P	40	A-21	Med. Pf.	Std.	Marker	120	C	CC-2V	2000	365	$2\frac{3}{4}$	$5\frac{5}{16}$
50A/CL/VS	50	A-19	Med.	Std.	Obs. Marker	120	B	C-9	1000	555	$2\frac{1}{2}$	$3\frac{15}{16}$
67A21/40	67	A-21	Med.	Std.	Traffic Signal ③	120	C	C-9	3000	715	$2\frac{7}{16}$	$4\frac{7}{16}$
100A21/TS	100	A-21	Med.	Std.	Traffic Signal ③	120	C	C-9	2000	1260	$2\frac{7}{16}$	$4\frac{7}{16}$
111A21/TS	111	A-21	Med.	Std.	Traffic Signal ③	120	C	C-9	3000	1380	$2\frac{7}{16}$	$4\frac{7}{16}$

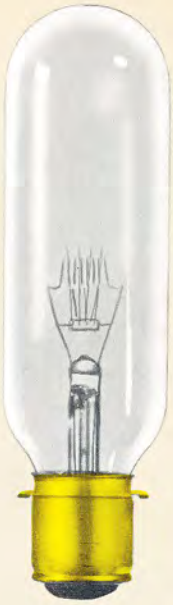
① Burning position 45° base down to horizontal.
② Burn base down.
③ Burn base down to horizontal.

500PS40/45
620PS40P
620PS40/1P



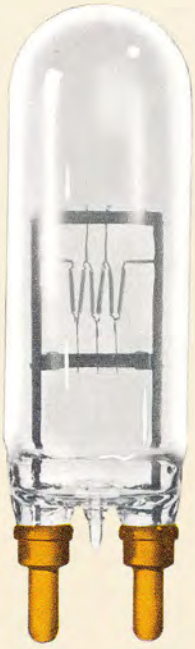
500T20/13

500T20/24



500T20P/AB

250PAR
399PAR



1M/T20BP

Code Beacon Lamps are frequently used as obstruction markers on tall structures. The 500PS40/45 rated at 1000 hours is generally used where lamp replacement is easy. The 3000-hour 620PS40P allows the economy of group replacement especially where maintenance is difficult. The 620PS40/1P has a "hard glass" bulb and is used in units where water leakage would cause breakage of the "soft glass" bulbs such as used on the other two lamps.

Present practice in Airport Approach Lighting uses "line-shaped" fixtures having between 5 and 10 PAR-56 sealed beam type of lamps mounted in a row. Whatever the length of fixture or pattern of fixture arrangement, the three PAR-56 lamps listed are the basic light sources.

Some Airplane Landing Lights use lamps in 10-inch reflectors located in the leading edge of the wing. Sealed beam type of landing lamps are commonly used on newer aircraft. They are listed in General Electric Miniature Lamp Schedules and Catalogs.

Low intensity, semi-flush Airport-Runway Marker lights, about 2 inches high, use A-21 lamps. Medium intensity elevated lights, about 2 feet high, use T-10 lamps. Higher intensity elevated lights, on runways where instrument landings are made, use 6.6A/T14P lamps.

G-E TRAIN AND LOCOMOTIVE LAMPS

TRAIN LIGHTING

Train lighting lamps are specially designed to withstand the intense vibrations and shocks encountered in this service. In general they are available for operation on either 30-, 34- or 60-volt direct current circuits. To insure satisfactory life, voltage regulating devices must be kept adjusted to the proper voltage so that the voltage at the lamp socket corresponds with that shown on the lamp marking.

LOCOMOTIVE HEADLIGHTING

The 200 PAR lamp is of the sealed beam type of the all-glass construction incorporating the filament, reflector and coverglass in a single unit. It is customary to operate one lamp for switching locomotives and two for road locomotives. When applied to Diesel-electric locomotives, fixed resistors are installed in the circuit to reduce the line voltage to 30 volts.

Where separate reflectors and lamps are used, the 100A21/3, 32-volt lamp is recommended

TRAIN LIGHTING LAMPS

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Description	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Lumens	Light Cntr. Lgth.	Max. Ovrl. Lgth.
6S6	6	S-6	Cand.	30	.....	240	B	C-2V	1500	50	....	1 7/8
6S6/B	6	S-6	Cand.	30	Double Coated glossy blue	240	B	C-2V	1500	.....	....	1 7/8
15A	15	A-17	Med.	30	Inside Frosted	120	C	C-9	1000	179	2 3/8	3 5/8
15A	15	A-17	Med.	34	Inside Frosted	120	C	C-9	1000	200	2 3/8	3 5/8
15A	15	A-17	Med.	60	Inside Frosted	120	B	C-9	1000	150	2 3/8	3 5/8
15A	15	A-17	Med.	75	Inside Frosted	120	B	C-9	1000	145	2 3/8	3 5/8
25A	25	A-19	Med.	30	Inside Frosted	120	C	C-9	1000	350	2 1/2	3 15/16
25A	25	A-19	Med.	34	Inside Frosted	120	C	C-9	1000	400	2 1/2	3 15/16
25A	25	A-19	Med.	60	Inside Frosted	120	C	C-9	1000	285	2 1/2	3 15/16
25A	25	A-19	Med.	75	Inside Frosted	120	C	C-9	1000	240	2 1/2	3 15/16
25T8½/IF	25	T-8½	Med.	30	Inside Frosted	60	C	C-8	1000	350	....	5 3/8
30S11/100	30	S-11	D. C. Bay.	32	Train Marker	120	C	C-7A	500	420	1 1/4	2 3/8
30S11DC	30	S-11	D. C. Bay.	64	Train Marker	120	C	C-7A	500	365	1 1/4	2 3/8
40A	40	A-19	Med.	30	Inside Frosted	120	C	C-9	1000	600	2 7/8	4 1/4
40A	40	A-19	Med.	60	Inside Frosted	120	C	C-9	1000	535	2 7/8	4 1/4
50A21	50	A-21	Med.	30	Inside Frosted	120	C	C-9	1000	810	3 3/8	4 15/16
50A21	50	A-21	Med.	34	Inside Frosted	120	C	C-9	1000	920	3 3/8	4 15/16
50A21	50	A-21	Med.	60	Inside Frosted	120	C	C-9	1000	720	3 3/8	4 15/16
50A21	50	A-21	Med.	75	Inside Frosted	120	C	C-9	1000	690	3 3/8	4 15/16
100A	100	A-23	Med.	60	Inside Frosted	120	C	C-9	1000	1650	4 3/8	6 1/16
100A	100	A-23	Med.	34	Inside Frosted	120	C	C-9	1000	2100	4 3/8	6 1/16

250P25

250P25/22

200PAR

300P25P

for switching service. In similar equipment used on road locomotives the 250-watt P-25 lamp is recommended.

LOCOMOTIVE CAB LIGHTING

The 34-volt lamps are intended for use in steam locomotive cabs. The 60-volt lamps are for Diesel-electric locomotives equipped with voltage regulators, whereas the 75-volt lamps are for use in Diesel-electric locomotives not thus equipped.

The 6S6 lamps are used either as indicators or for instrument lighting. The 25- and 50-watt lamps are for use in the engine compartment as well as for cab lighting.

The 30-watt S-11 lamp is mainly a marker or classification lamp, operated in series with a resistance on Diesel-electric locomotives.

DIESEL ELECTRIC LOCOMOTIVE LAMPS

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Description	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Lumens	Light Cntr. Lgth.	Max. Ovrl. Lgth.
6S6/5SC	6	S-6	S. C. Bay.	60	Indicator	120	B	C-1	1500	.....	$1\frac{1}{16}$	$1\frac{13}{16}$
15S11/3DC	15	S-11	D. C. Bay.	75	Train	120	B	C-1	1000	135	$1\frac{1}{4}$	$2\frac{3}{8}$
15S14/IF	15	S-14	Med.	34	Loco. Cab	120	B	C-9	1000	141	$2\frac{1}{2}$	$3\frac{1}{2}$
25A17/RS	25	A-17	Med.	75	I. F. Train	120	B	C-9	1000	245	$2\frac{3}{8}$	$3\frac{5}{16}$
30S11/DC	30	S-11	D. C. Bay.	64	Rough Serv. Marker	120	C	C-7A	500	365	$1\frac{1}{4}$	$2\frac{3}{8}$
50A/RS	50	A-19	Med.	34	Rough Service I. F.	120	B	C-9	1000	590	$2\frac{1}{2}$	$3\frac{15}{16}$
50A19/RS	50	A-19	Med.	60	I. F. Train Rough Serv.	120	B	C-9	1000	535	$2\frac{1}{2}$	$3\frac{15}{16}$
50A19/RS	50	A-19	Med.	75	I. F. Train Rough Serv.	120	B	C-9	1000	535	$2\frac{1}{2}$	$3\frac{15}{16}$

DIESEL ELECTRIC LOCOMOTIVE HEADLIGHTING LAMPS

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Burning Position	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Lumens	Light Cntr. Lgth.	Max. Ovrl. Lgth.
100A21/3	100	A-21	Med.	32	Base Down to Horiz.①	120	C	C-5	500	1550	3	$4\frac{7}{16}$
100A21/4	100	A-21	Med.	60	Base Down to Horiz.①	120	C	C-5	500	1200	3	$4\frac{7}{16}$
200PAR	200	PAR-56	Screw Term.	30	Horizontal	8	C	C-13	500	.....	....	$4\frac{1}{2}$
250P25	250	P-25	Med.	32	Base Down to Horiz.①	60	C	C-5A	500	4500	3	$4\frac{3}{4}$
250P25/22	250	P-25	Med. Pf.	32	Base Down to Horiz.①	60	C	C-5A	500	4500	$2\frac{3}{16}$	5
300P25P	300	P-25	Med. Pf.	60	Base Down to Horiz.	60	C	C-5	500	.....	$2\frac{3}{16}$	5

STEAM LOCOMOTIVE LAMPS (Cab and Headlighting)

15S14/IF	15	S-14	Med.	34	Any	120	B	C-9	1000	141	$2\frac{1}{2}$	$3\frac{1}{2}$
50A/RS	50	A-19	Med.	34	Any	120	B	C-9	1000	590	$2\frac{1}{2}$	$3\frac{15}{16}$
100A21/3	100	A-21	Med.	32	Base Down to Horiz.①	120	C	C-5	500	1550	3	$4\frac{7}{16}$
200PAR	200	PAR-56	Screw Term.	30	Horizontal	8	C	C-13	500	.....	....	$4\frac{1}{2}$
250P25	250	P-25	Med.	32	Base Down to Horiz.①	60	C	C-5A	500	4500	3	$4\frac{3}{4}$
250P25/22	250	P-25	Med. Pf.	32	Base Down to Horiz.①	60	C	C-5A	500	4500	$2\frac{3}{16}$	5

① Unsatisfactory lamp operation is likely to occur in burning positions between horizontal and base up, particularly between 45° from base up and base up.

G-E LOW VOLTAGE LAMPS

(6-Volt, 12-Volt And 30-Volt Lamps)

6- and 12-volt lamps are used on battery-generator outfits, for automobiles, boats, airplanes and places where electric service is not available.

30-volt lamps are for operation on battery-generator sets such as used in rural areas and are the same as used in 30-volt train lighting systems.

Low voltage lamps, because of their higher current for a given wattage, are more rugged, and in general more efficient.

6- AND 12-VOLT LAMPS

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Description	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Lumens	Light Cntr. Lgth.	Max Ovrl. Lgth.
5S14	5	S-14	Med.	6	Clear	120	C	C-6	1000	48	....	$3\frac{1}{2}$
15A	15	A-17	Med.	6	Inside Frosted	120	C	C-6	1000	190	$2\frac{3}{8}$	$3\frac{5}{8}$
25A	25	A-19	Med.	6	Inside Frosted	120	C	C-6	1000	350	$2\frac{1}{2}$	$3\frac{15}{16}$
50A21	50	A-21	Med.	6	Inside Frosted	120	C	C-6	1000	780	$3\frac{3}{8}$	$4\frac{15}{16}$
5S14	5	S-14	Med.	12	Sign	120	B	C-6	1500	45	$2\frac{1}{2}$	$3\frac{1}{2}$
6S6	6	S-6	Cand.	12	Clear	240	B	C-2V	1500	50	....	$1\frac{7}{8}$
15A	15	A-17	Med.	12	Inside Frosted	120	C	C-6	1000	190	$2\frac{3}{8}$	$3\frac{5}{8}$
25A	25	A-19	Med.	12	Inside Frosted	120	C	C-6	1000	370	$2\frac{1}{2}$	$3\frac{15}{16}$
50A21	50	A-21	Med.	12	Inside Frosted	120	C	C-6	1000	830	$3\frac{3}{8}$	$4\frac{15}{16}$

30-VOLT LAMPS PAGE 48

5S14	5	S-14	Med.	30	Clear	120	B	C-9	1000	45	....	$3\frac{1}{2}$
6S6	6	S-6	Cand.	30	Clear	240	B	C-2V	1500	50	....	$1\frac{7}{8}$
15A	15	A-17	Med.	30	Inside Frosted	120	C	C-9	1000	179	$2\frac{3}{8}$	$3\frac{5}{8}$
25A	25	A-19	Med.	30	Inside Frosted	120	C	C-9	1000	350	$2\frac{1}{2}$	$3\frac{15}{16}$
50A21	50	A-21	Med.	30	Inside Frosted	120	C	C-9	1000	810	$3\frac{3}{8}$	$4\frac{15}{16}$
100A	100	A-23	Med.	30	Inside Frosted	120	C	C-9	1000	1850	$4\frac{3}{8}$	$6\frac{1}{16}$

G-E MARINE LAMPS

General Electric marine lamps are especially designed to meet the exacting requirements of marine services. Included are lamps for running lights, searchlights, signal lights, and for divers' use underwater. Dependable operation is of vital importance. The needs of interior illumination aboard ship are well met with General Electric general service lamps.

50/50P25/28
100/100P25/29

1MG25

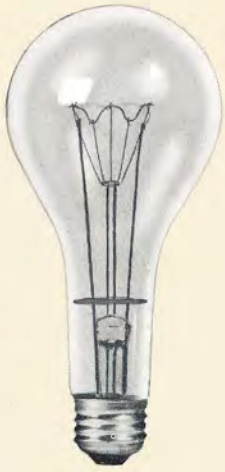
Ordering Abbreviation	Service	Watts or Amps.	Volts	Base	Std. Pkg. Qty.	Class	Fila.	Design Life	Average Light Center Length	Max. Over-all Length
1M/G25	Diving*	1000	115	cable leads	4	C	C-5	50	.....	$10\frac{3}{4}$
50/50P25/28	Running Light†	50	Std.	3c mog.	60	C	C-5			
		50					C-9	750	$3\frac{5}{16}$	$5\frac{1}{16}$
100/100P25/29	Running Light†	100	Std.	3c mog.	60	C	C-5			
		100					C-9	750	$3\frac{5}{16}$	$5\frac{1}{16}$

* To be burned only under water. Withstands 300 pounds per square inch water pressure. † Burn base down.

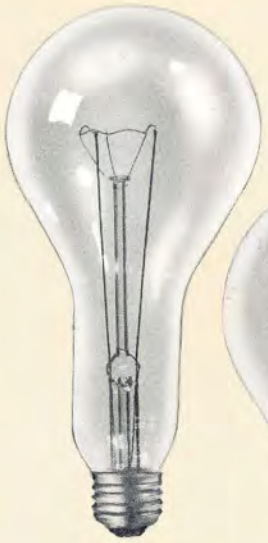
G-E HIGH VOLTAGE LAMPS (230-250 Volts) FOR GENERAL LIGHTING SERVICE

50A19/37
50A19/38

100A/CL
100A/RS

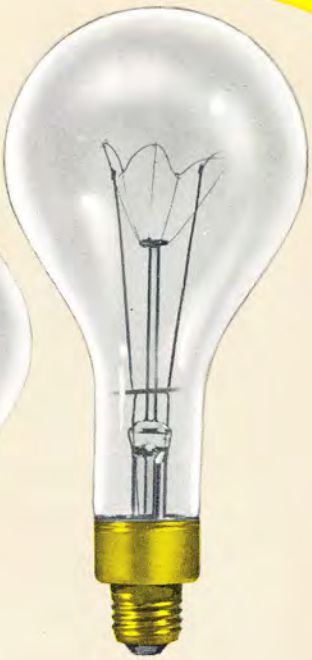


150PS25



200

300



300MS

These lamps, which are somewhat less rugged and less efficient than 115-125-volt lamps, are made available for use in the relatively few locations where only the higher voltage is available.

The filaments in high voltage lamps are thinner and longer than those in standard voltage lamps. This results in a lower efficiency as compared with standard voltage lamps.

The 750 watt R-52 lamp is for base up burning. Should be shielded against moisture falling on the bulb.

Due to lack of space only clear lamps are illustrated.

Lamp Ordering Abbreviation	Watts	Bulb	Base	Description	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Lumens	Light Cntr. Lgth.	Max. Ovrl. Lgth.
15A	15	A-17	Med.	Inside Frosted	120	B	C-9	1000	120	2 3/8	3 5/8
25A	25	A-19	Med.	Inside Frosted	120	B	C-17	1000	220	2 1/2	3 15/16
25A/R	25	A-19	Med.	Red	120	B	C-17	1000	.....	....	3 15/16
50A	50	A-19	Med.	Inside Frosted	120	B	C-17A	1000	475	2 1/2	3 15/16
50A/RS	50	A-19	Med.	Rough Service	120	B	C-22	1000	450	2 1/2	3 15/16
50A19/37	50	A-19	Med.	Clear	120	B	C-17A	1000	480	2 1/2	3 15/16
50A19/38	50	A-19	Med.	Com. Oven	120	B	C-17	1000	480	2 1/2	3 15/16
60A21	60	A-21	Med.	Inside Frosted	120	B	C-17	1000	580	2 7/8	4 7/16
100A	100	A-21	Med.	Inside Frosted	120	C	C-7A	1000	1260	3 7/8	5 5/16
100A/CL	100	A-21	Med.	Clear	120	C	C-7A	1000	1260	3 7/8	5 5/16
100A/RS	100	A-21	Med.	Rough Service	120	C	C-17	1000	900	3 7/8	5 5/16
150PS25	150	PS-25	Med.	Clear	60	C	C-7A	1000	2050	5 1/4	6 15/16
200	200	PS-30	Med.	Clear	60	C	C-9	1000	3700	6	8 1/16
200/IF	200	PS-30	Med.	Inside Frosted	60	C	C-9	1000	3700	6	8 1/16
300MS	300	PS-35	Med. Skt.	Clear	24	C	C-7A	1000	4700	7 1/2	9 7/8
300	300	PS-35	Mog.	Clear	24	C	C-7A	1000	4700	7	9 3/8
300/IF	300	PS-35	Mog.	Inside Frosted	24	C	C-7A	1000	4700	7	9 3/8
500	500	PS-40	Mog.	Clear	24	C	C-7A	1000	8850	7	9 3/4
500/IF	500	PS-40	Mog.	Inside Frosted	24	C	C-7A	1000	8850	7	9 3/4
750	750	PS-52	Mog.	Clear	6	C	C-7A	1000	14200	9 1/2	13 1/16
750/IF	750	PS-52	Mog.	Inside Frosted	6	C	C-7A	1000	14200	9 1/2	13 1/16
750R52	750	R-52	Mog.	Reflector High Bay	6	C	C-7A	2000	.....	.....	11 3/4
1000	1000	PS-52	Mog.	Clear	6	C	C-7A	1000	19900	9 1/2	13 1/16
1000/IF	1000	PS-52	Mog.	Inside Frosted	6	C	C-7A	1000	19900	9 1/2	13 1/16
1500	1500	PS-52	Mog.	Clear ①	6	C	C-7A	1000	28500	9 1/2	13 1/16

① Recommended burning position any within 60° of vertically base up or base down but lumen maintenance is best when burned vertically base up.

G-E HOME APPLIANCE LAMPS AND NIGHT LIGHT LAMPS

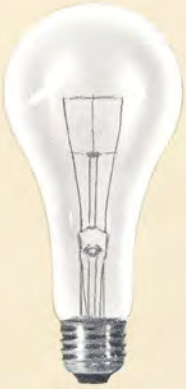
40A15/1

40A15/22

50A19/31

50A19/38

15S11/102


100A23/20

7C7

10C7

10C7DC

15T7DC

15T7DC/IF

15T7C

15T7N

25T8DC

25T8DC/IF

25T8/N

40T6½/2

Lamps intended for use under conditions where they may be subjected to vibration or shock have special features such as filament wire, mount construction or filament windings, which assure their efficient operation in service.

The 15T7 lamps are for use in sewing machines and other appliances when vibration is a factor. The 25T8 lamps for vacuum cleaners withstand shock and vibration.

7C7 lamps are available in various colors for night lights.

Lamps intended for service under extremely high temperatures have a special basing cement and other special features which assure improved operation and longer life.

The 40A15/22 withstands range oven temperatures up to 475°F. The bake oven lamps are tested at 550°F.

The 15S11/102 and 40A15/1 lamps are used in refrigerators and appliances when small sized lamps are required.

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Description	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Lumens	Light Center Length	Max. Ovrl. Length
7C7	7	C-7	Cand.	115-125①	Night Light	240	B	C-7A	3000	45	....	2 1/8
7C7/W	7	C-7	Cand.	115-125①	Night Light	240	B	C-7A	3000	....	....	2 1/8
7C7/B	7	C-7	Cand.	115-125①	Night Light	240	B	C-7A	3000	....	....	2 1/8
7C7/G	7	C-7	Cand.	115-125①	Night Light	240	B	C-7A	3000	....	....	2 1/8
7C7/O	7	C-7	Cand.	115-125①	Night Light	240	B	C-7A	3000	....	....	2 1/8
7C7/R	7	C-7	Cand.	115-125①	Night Light	240	B	C-7A	3000	....	....	2 1/8
15T7DC	15	T-7	D. C. Bay.	115-125①	Appliance	60	B	C-1	....	115	....	2 5/8
15T7DC/IF	15	T-7	D. C. Bay.	115-125①	Appliance	60	B	C-1	....	113	....	2 5/8
15T7C	15	T-7	Cand.	Std.	Appliance	60	B	C-1	1000	118	....	2 5/8
15T7N	15	T-7	Inter.	115-125①	Appliance	60	B	C-1	....	115	....	2 5/8
25T8DC	25	T-8	D. C. Bay.	Std.	Appliance	60	B	C-1	....	240	....	2 5/8
25T8DC/IF	25	T-8	D. C. Bay.	Std.	Appliance	60	B	C-1	....	235	....	2 5/8
25T8/N	25	T-8	Inter.	115-125①	Appliance	60	B	C-1	....	240	...	2 5/8
40T6½/2	40	T-6½	Inter.	115-125①	Refrigerator	60	C	C-8	750	460	...	5 1/2
40A15/22	40	A-15	Med.	115-125①	Home Oven	120	C	C-9	750	435	2 7/8	4
50A19/31	50	A-19	Med.	115-125①	Comm. Oven	120	B	C-9	1000	500	2 1/2	3 15/16
50A19/38	50	A-19	Med.	High	Comm. Oven	120	B	C-17	1000	480	2 1/2	3 15/16
100A23/20	100	A-23	Med.	Std.	Comm. Oven	120	C	CC-6	1000	1550	4 3/8	6 1/16
10C7	10	C-7	Cand.	115-125①	Pilot	240	B	C-7A	②	40	....	2 1/8
10C7DC	10	C-7	D. C. Bay.	115-125①	Pilot	120	B	C-7A	②	39	....	2 1/16
15S11/102	15	S-11	Med.	115-125①	Refrigerator	120	B	C-7A	400	137	....	2 1/4
40A15/1	40	A-15	Med.	115-125①	Appliance	120	C	C-9	1000	450	2 5/8	3 3/4

① Design volts 120. ② Indefinitely long life.

G-E ROUGH SERVICE LAMPS AND VIBRATION LAMPS

ROUGH SERVICE

Rough Service lamps are used in extension cords in garages, industrial plants and similar locations where they are subjected to excessive shock in service. The special construction of the filament enables these lamps to withstand sudden bumps and other forms of rough treatment.

VIBRATION LAMPS

Vibration lamps are particularly designed for use on or near rotating machinery and other places where relatively high-frequency vibration exists. Certain of these lamps are equipped with a special type of filament wire designed to operate suitably under vibration conditions.

ROUGH SERVICE LAMPS

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Description	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Lumens	Light Cntr. Lgth.	Max. Ovrl. Lgth.
25A17/RS	25	A-17	Med.	75	I. F. Train	120	B	C-9	1000	245	2 3/8	3 5/8
25A/RS	25	A-19	Med.	Std.	Inside Frosted	120	B	C-17	1000	225	2 1/2	3 15/16
50A/RS	50	A-19	Med.	Std.	Inside Frosted	120	B	C-22	1000	460	2 1/2	3 15/16
50A19/RS	50	A-19	Med.	60	I. F. Train	120	B	C-9	1000	535	2 1/2	3 15/16
50A19/RS	50	A-19	Med.	75	I. F. Train	120	B	C-9	1000	535	2 1/2	3 15/16
50A/RS	50	A-19	Med.	30	Inside Frosted	120	B	C-9	1000	535	2 1/2	3 15/16
50A19/5	50	A-19	Med.	Std.	Clear	120	B	C-22	1000	465	2 1/2	3 15/16
50A/RS	50	A-19	Med.	High	Inside Frosted	120	B	C-22	1000	450	2 1/2	3 15/16
50A19/3	50	A-19	Med.	Std.	Inside Frosted	120	B	C-22	1000	460	2 1/2	3 15/16
75A21/RS	75	A-21	Med.	Std.	Inside Frosted	120	B	C-22	1000	710	2 7/8	4 7/16
100A/RS	100	A-21	Med.	Std.	Inside Frosted	120	C	C-17	1000	1220	3 7/8	5 5/16
100A/RS	100	A-21	Med.	High	Inside Frosted	120	C	C-17	1000	900	3 7/8	5 5/16
100R30/FL/RS	100	R-30	Med.	Std.	I. F. Flood	60	C	C-17	1000	.....	....	5 3/16
150/RS	150	PS-25	Med.	Std.	Inside Frosted	60	C	C-17	1000	2050	5 1/4	6 15/16
200PS30/23	200	PS-30	Med.	Std.	Inside Frosted	60	C	C-9	1000	3350	6	8 1/16
200PS30/24	200	PS-30	Med.	Std.	Clear	60	C	C-9	1000	3350	6	8 1/16
300/RS	300	PS-35	Mog.	Std.	Clear	24	C	C-9	1000	5350	7	9 3/8
500/RS	500	PS-40	Mog.	Std.	Clear	24	C	C-9	1000	9400	7	9 3/4

VIBRATION LAMPS

25A/VS	25	A-19	Med.	Std.	Inside Frosted	120	B	C-9	1000	250	2 1/2	3 15/16
25A/CL/VS	25	A-19	Med.	Std.	Clear	120	B	C-9	1000	255	2 1/2	3 15/16
50A/VS	50	A-19	Med.	Std.	Inside Frosted	120	B	C-9	1000	550	2 1/2	3 15/16
50A/CL/VS	50	A-19	Med.	Std.	Clear	120	B	C-9	1000	555	2 1/2	3 15/16
100A23/28	100	A-23	Med.	Std.	Inside Frosted	120	C	C-9	1000	1350	4 3/8	6 1/16
150/VS	150	PS-25	Med.	Std.	Inside Frosted	60	C	C-9	1000	2250	5 1/4	6 15/16

G-E PILOT LAMPS AND INDICATOR LAMPS

S6-bulb lamps have many uses in homes and industry but are not designed to withstand vibration or shock. The 6T4½ lamp is used where space requires a small lamp. The 10S11 lamps are used where more light is needed. 15T6 lamps are used in central station power switchboards. The 11A/T4C is used on power switchboards in a G. E. receptacle containing voltage reducing resistors.

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Lumens	Light Cntr. Lgth.	Max. Ovrl. Lgth.
3S6/5	3	S-6	Cand.	Std.	240	B	C-7A	3000	12	....	1 7/8
6S6	6	S-6	Cand.	12	240	B	C-2V	1500	50	....	1 7/8
6S6	6	S-6	Cand.	135, 145 & 155	240	B	C-7A	1500	36	....	1 7/8
6S6	6	S-6	Cand.	Std.	240	B	C-7A	1500	41	....	1 7/8
6S6/5SC	6	S-6	S.C.Bay	60	120	B	C-1	1500	.....	1 1/16	1 13/16
6S6/R	6	S-6	Cand.	Std.	240	B	C-7A	1500	.....	....	1 7/8
6S6/W	6	S-6	Cand.	Std.	240	B	C-7A	1500	.....	....	1 7/8
6S6DC	6	S-6	D.C.Bay.	Std.	120	B	C-7A	1500	40	1 1/16	1 13/16
6S6/7	6	S-6	Inter.	Std.	120	B	C-7A	1500	40	....	1 13/16
6T4½/1	6	T-4½	Cand.	Std.	100	B	C-7A	1500	41	....	1 7/8
10C7	10	C-7	Cand.	115–125 ①	240	B	C-7A	....	40	....	2 1/8
10C7DC	10	C-7	D.C.Bay	115–125 ①	120	B	C-7A	....	39	....	2 3/16
10S6/10	10	S-6	Cand.	High	240	B	C-1	1500	65	....	1 7/8
10S6/13	10	S-6	Inter.	High	120	B	C-1	1500	63	....	1 13/16
10S11/79	10	S-11	Cand.	115-125	120	B	C-7A	1500	81	1 5/8	2 1/4
15T6	15	T-6	Cand.	Std.	60	B	C-1	2000	119	....	3 1/16
15T6	15	T-6	Cand	140	60	B	C-1	2000	114	....	3 1/16
11A/T4C	.11A	T-4	Cand.	18	100	B	C-2F	2000	9	15/16	1 1/2

① Design volts 120.

G-E SOUND REPRODUCER LAMPS

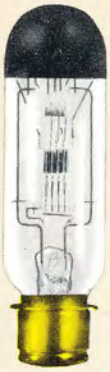
Illustrated here and described below are the most popular lamps used for theatre movie film sound reproduction. Each was pioneered by General Electric to meet the exact requirements of the optical system with which it is used. Similar lamps for 16 mm. projectors are also available.

SOUND REPRODUCER LAMPS (Burn Base Down)—

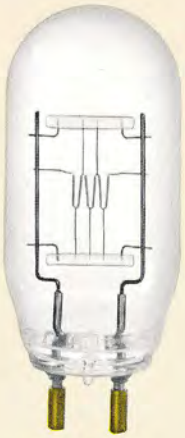
Lamp Ordering Abbreviation	Amps.	Bulb	Base	Volts	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Lumens	Light Cntr. Lgth.	Max. Ovrl. Lgth.
4A/T8/25	4	T-8	S. C. Bay.	8.5	24	C	C-6	100	670	1 3/4	3 1/8
4A/T8SCP	4	T-8	S. C. Pf.	9	24	C	C-6	500	580	1 15/32	3 1/8
5A/T8SC	5	T-8	S. C. Bay.	10	24	C	C-6	100	1000	1 19/32	3 1/8
5A/T8SCP	5	T-8	S. C. Pf.	10	24	C	C-6	100	1000	1 15/32	3 1/8
7.5A/T8SC	7.5	T-8	S. C. Bay.	10	24	C	C-6	100	1580	1 19/32	3 1/8
7.5A/T8SCP	7.5	T-8	S. C. Pf.	10	24	C	C-6	100	1580	1 15/32	3 1/8

G-E PROJECTION LAMPS AND PHOTOGRAPHIC STUDIO LAMPS

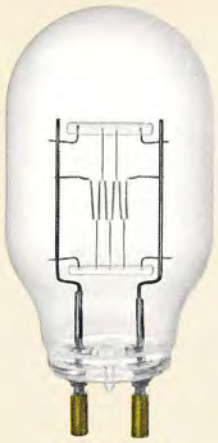
150T8/2SC



750T12/34

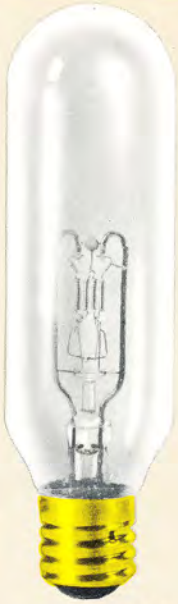


500T20/63



750T24/13
750T24/16

1500T24/15



900T20

The majority of General Electric lamps for picture projection are described in the Photographic Lamp Catalog. A few projection lamps normally supplied by non-photographic sources are listed herein. All are characterized by the newest and most exacting techniques of lamp manufacture. The dimensions and form of each light source are chosen to fit the particular requirement of some specific group of optical systems. General Electric Lamp Agents have a complete directory of the proper lamps to use in projectors — General Electric Lamp Division Bulletin LD-19, "Lamps for Picture Projectors."

The first two lamps listed are designed for advertising devices. Theatre projection lamps are used in smaller theatres and school auditoriums.

5MT64/1

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Description	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Lumens	Light Cntr. Lgth.	Max. Ovrl. Lgth.
150T8/2SC	150	T-8	S. C. Bay.	Std.	Adv. ①	24	C	2CC-8	200	.....	$1\frac{3}{8}$	$3\frac{5}{8}$
750T12/34	750	T-12	Med. Pf.	Std.	Adv. ①	24	C	C-13D	200	.....	$2\frac{3}{16}$	$5\frac{3}{4}$
500T20/63	500	T-20	Med. Bip.	Std.	3200 °K	12	C	C-13	35	13500	$2\frac{1}{2}$	$6\frac{1}{2}$
750T24/16	750	T-24	Med. Bip.	Std.	3200 °K	24	C	C-13	50	20500	$2\frac{1}{2}$	$6\frac{1}{2}$
750T24/13	750	T-24	Med. Bip.	Std.	3200 °K	24	C	C-13	12	24000	$2\frac{1}{2}$	$6\frac{1}{2}$
900T20	900	T-20	Mog.	30	Theatre ①	12	C	C-13	100	23500	$4\frac{3}{4}$	$9\frac{1}{16}$
1500T24/15	1500	T-24	Med. Bip.	Std.	3200 °K ②	24	C	C-13	60	43500	$5\frac{1}{2}$	$9\frac{1}{8}$
5M/T64/1	5000	T-64	Mog. Bip.	Std.	3350 °K ③	1	C	C-13	75	165M	$6\frac{1}{2}$	$13\frac{3}{8}$

① Burn base down. ② Copy Board. Intermittent burning base up collector grid. ③ Black and white photography.

G-E SHOWCASE LAMPS AND OTHER TUBULAR LAMPS

Tubular bulb lamps are for use in showcases, in displays of shallow depth, and in small trough type reflectors.

The reflector-type lamp has an inside reflectorized surface covering one side of the bulb. The conventional screw base and a spring contact on the base allow desired positioning.

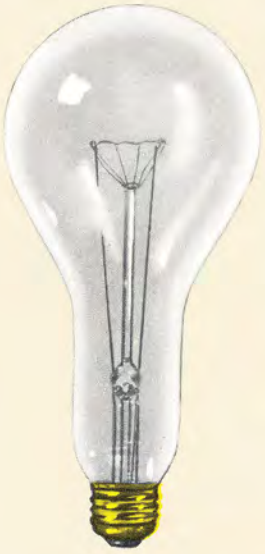
Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Description	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Lumens	Max. Ovrl. Lgth.
25T6½	25	T-6½	Inter.	Std.	Clear	60	B	C-8	1000	240	5½
25T6½/IF	25	T-6½	Inter.	Std.	I. F. Showcase	60	B	C-8	1000	240	5½
40T8	40	T-8	Med.	Std.	Clear	24	B	C-23	1000	410	11⅞
40T8/AF	40	T-8	Med.	Std.	All Frosted Showcase	24	B	C-23	1000	.....	11⅞
40T8/IF	40	T-8	Med.	Std.	I. F. Showcase	24	B	C-23	1000	405	11⅞
25T8½/IF	25	T-8½	Med.	30	Inside Frosted	60	C	C-8	1000	350	5⅜
25T10	25	T-10	Med.	Std.	Clear	60	B	C-8	1000	260	5⅝
25T10	25	T-10	Med.	High	Showcase	60	B	C-20	1000	215	5⅝
25T10/AF	25	T-10	Med.	Std.	All Frosted Showcase	60	B	C-8	1000	.....	5⅝
25T10/IF	25	T-10	Med.	Std.	I. F. Showcase	60	B	C-8	1000	255	5⅝
25T10/RFL	25	T-10	Med.	Std.	Refl. Showcase	60	C	CC-8	1000	215	5⅝
40T10	40	T-10	Med.	Std.	Clear	60	B	C-8	1000	430	5⅝
40T10/IF	40	T-10	Med.	Std.	Inside Frosted	60	B	C-8	1000	425	5⅝
40T10/AF	40	T-10	Med.	Std.	All Frosted Showcase	60	B	C-8	1000	.....	5⅝
40T10/RFL	40	T-10	Med.	Std.	All Frosted Showcase	60	C	CC-8	1000	400	5⅝
60T10/64	60	T-10	Med.	Std.	Showcase	60	C	C-8	1000	730	5⅝
75T10/45	75	T-10	Med.	Std.	Showcase	24	B	C-23	1000	800	11⅞

G-E MINE LAMPS

50A19/35

100A

50A19



200

100PAR38/FL

150PAR46/1

150PAR46

Mine lamps, ranging from 50 to 200 watts, are available in either 275 or 300 volts for use in haulageways, pits, shop lighting and other general lighting areas.

The PAR lamps are designed for mine locomotives, loaders, shuttle cars, and other equipment. They will give long service under severe mine conditions because of their resilient filament mounts.

The 100PAR38/FL is especially designed for use on continuous miners. Its low voltage is essential in order to obtain the ruggedness required for this service.

The 150PAR46/1, 32-volt lamp is especially designed for locomotive service. It has rugged filament construction and its concentrated beam closely fits haulage ways.

Proper resistors must be used in series with 32-volt and 115-volt lamps. Resistors to operate 150-watt lamps from nominal 275-volt supply should be selected to provide 4.69 amperes through 32-volt lamps and 1.30 amperes through 115-volt lamps.

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Description	Std. Pgk. Qty.	Class	Fila.	Approx. Hours Life	Lumens	Light Cntr. Lgth.	Max. Ovrl. Lgth.
50A19	50	A-19	Med.	275	Inside Frosted	120	B	C-17	1000	460	$2\frac{1}{2}$	$3\frac{15}{16}$
50A19/35	50	A-19	Med.	275	Clear	120	B	C-17	1000	465	$2\frac{1}{2}$	$3\frac{15}{16}$
50A19	50	A-19	Med.	300	Inside Frosted	120	B	C-17	1000	460	$2\frac{1}{2}$	$3\frac{15}{16}$
100A	100	A-23	Med.	275	Inside Frosted	120	C	C-7A	1000	1150	$4\frac{3}{8}$	$6\frac{1}{16}$
100A	100	A-23	Med.	300	Inside Frosted	120	C	C-7A	1000	1150	$4\frac{3}{8}$	$6\frac{1}{16}$
200	200	PS-30	Med.	275	Clear	60	C	C-9	1000	2650	6	$8\frac{1}{16}$
200	200	PS-30	Med.	300	Clear	60	C	C-9	1000	2650	6	$8\frac{1}{16}$
100PAR38/FL	100	PAR-38	Med. Side Prong	12	Projector Flood	12	C	C-6	1000	.....	....	$4\frac{5}{16}$
150PAR46/1	150	PAR-46	S.C.Term.	32	Locomotive Headlight	8	C	CC-8	800	.....	....	4
150PAR46	150	PAR-46	S.C.Term.	115	Locomotive ① Headlight	8	C	C-13	1000	.....	....	4

① Burning position, plane through lamp axis and base terminals horizontal.

G-E FLOODLIGHT LAMPS AND SPOTLIGHT

250G/FL
400G/FL

500G/FL

1M/G40FL

1500G48/6

These lamps have concentrated filaments and are used in equipments which produce accurately controlled beams of light. There are several "companion listings" of spotlight and floodlight lamps having the same dimensions but differing in life design. Floodlight lamps are used where burning hours are long, such as in building floodlighting and show window lighting. Spotlight lamps are used for stage applications where burning hours are short and higher light output is needed — particularly in the blue and green portions of the visible spectrum.

FLOODLIGHT LAMPS

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Burning Position	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Lumens	Light Cntr. Lgth.	Max. Ovrl. Lgth.
100R30/FL/RS	100	R-30	Med.	Std.	Any	60	C	C-17	1000	.....	....	$5\frac{3}{16}$
250G/FL	250	G-30	Med.	Std.	Base Down To Horizontal	60	C	C-5	800	3750	3	$5\frac{1}{8}$
400G/FL	400	G-30	Med.	Std.		60	C	C-5	800	6700	3	$5\frac{1}{8}$
500G/FL	500	G-40	Mog.	Std.		24	C	C-5	800	9000	$4\frac{1}{4}$	$7\frac{1}{16}$
1M/G40FL	1000	G-40	Mog.	Std.		24	C	C-5	800	19000	$5\frac{1}{4}$	8
1500G48/6	1500	G-48	Mog.	Std.		6	C	C-5	800	30000	$5\frac{1}{4}$	$8\frac{5}{8}$

SPOTLIGHT LAMPS

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Burning Position	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Lumens	Light Cntr. Lgth.	Max. Ovrl. Lgth.
100G16½/29SC	100	G-16½	S. C. Bay.	Std.	Base Down To Horizontal	60	C	CC-13	200	1600	$1\frac{3}{8}$	3
100G16½/29DC	100	G-16½	D. C. Bay.	Std.		60	C	CC-13	200	1600	$1\frac{3}{8}$	3
100A21/SP	100	A-21	Med.	Std.		120	C	C-5	200	1350	3	$4\frac{7}{16}$
100A21/1SP	100	A-21	Med.	Std.	Base Up	120	C	C-5	200	1350	3	$4\frac{7}{16}$
125T10P	125	T-10	Med. Pf.	Std.	Base Down	24	C	C-13B	500	1670	$2\frac{3}{16}$	$5\frac{3}{4}$
150/150G30/32	150	G-30	3C Mog.	Std.	Base Down	60	C	C-5	....	.....	$3\frac{3}{8}$	$5\frac{9}{16}$
	150							C-9				
150P25/10	150	P-25	Med.	Std.	Base Up ②	60	C	C-5	200	2100	3	$4\frac{3}{4}$
250G/SP	250	G-30	Med.	Std.	Base Down To Horizontal	60	C	C-5	200	4700	3	$5\frac{1}{8}$
400G/SP	400	G-30	Med.	Std.		60	C	C-5	200	8000	3	$5\frac{1}{8}$
500G/SP	500	G-40	Mog.	Std.		24	C	C-5	200	10200	$4\frac{1}{4}$	$7\frac{1}{16}$
500T20/64	500	T-20	Med. Pf.	Std.	Horizontal	24	C	C-13	500	9500	$2\frac{3}{16}$	$5\frac{3}{4}$
1M/G40SP4¼	1000	G-40	Mog.	Std.	Base Down To Horizontal	24	C	C-5	200	22500	$4\frac{1}{4}$	$7\frac{1}{16}$
1M/G40SP5¼	1000	G-40	Mog.	Std.		24	C	C-5	200	22500	$5\frac{1}{4}$	8
1M/G40PSP	1000	G-40	Mog. Pf.	Std.	①	24	C	C-5	200	22500	$3\frac{15}{16}$	$8\frac{7}{16}$
1500T24/6	1500	T-24	Mog. Bip.	Std.	Base Up	12	C	C-13D	200	33500	$6\frac{1}{2}$	10
2M/G48/17	2000	G-48	Mog. Bip.	Std.	Base Down	6	C	C-13	200	52000	5	$9\frac{3}{8}$
2M/T30/1	2000	T-30	Mog. Bip.	Std.	Base Up	6	C	C-13D	200	48000	$6\frac{1}{2}$	10

① Not recommended for burning between horizontal and base up. ② Spotlight Light IF hard glass button.

LAMPS

100G16½/29SC

100G16½/29DC

100A21/SP
100A21/1SP

125T10P

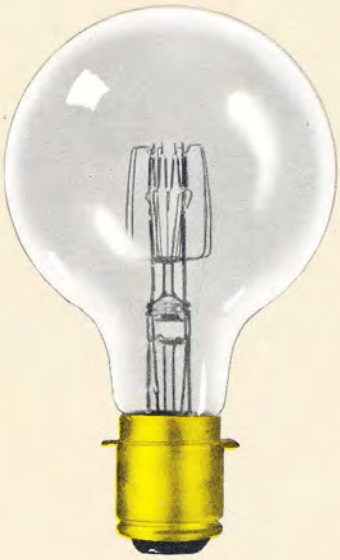
150/150G30/32

250G/SP
400G/SP

500G/SP
1M/G40SP4¼

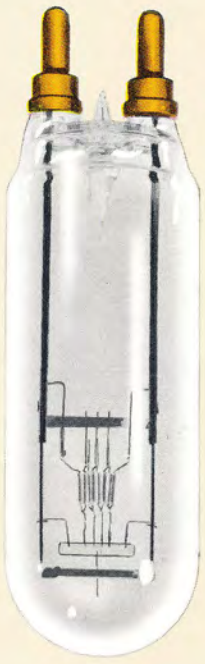
500T20/64

1M/G40SP5¼

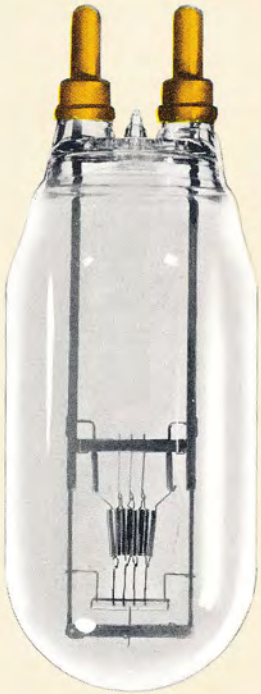


1M/G40PSP

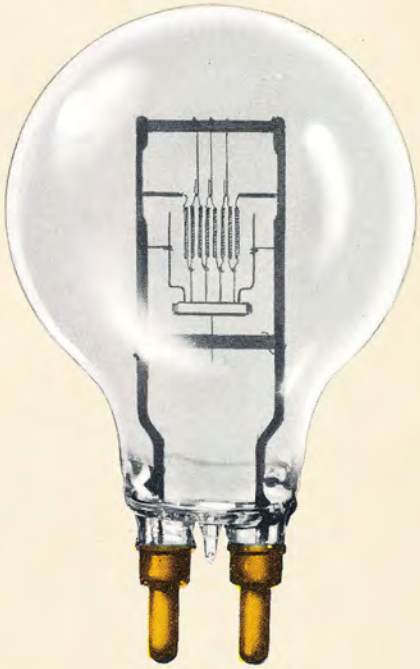
Lamps with round bulbs and C5 filament construction can be operated satisfactorily over a wide range of burning positions — such as from base down to horizontal. The C13-D filament is limited in burning position such as base up to 30°, otherwise the coils may touch and short out. Lamps with tubular bulbs are usually limited in burning position — base down or base up — so that the hot gas can rise a maximum distance above the filament before striking the bulb. Otherwise the glass may soften and bulge.



1MT24/5
1500T24/6

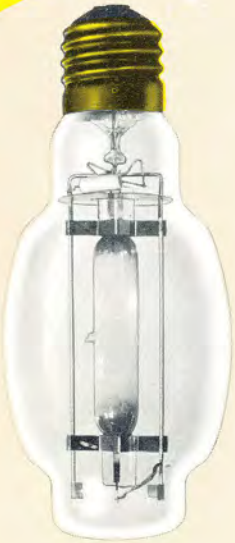


2M/T30/1

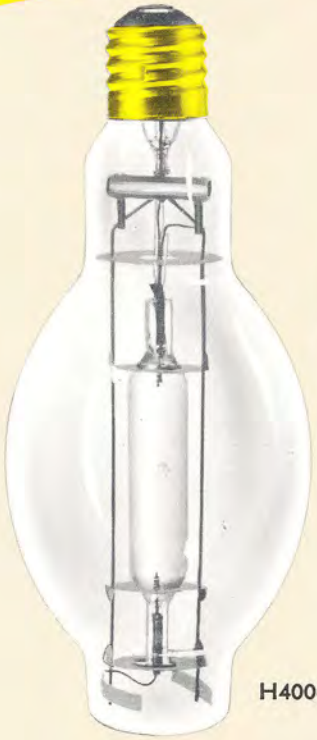


2M/G48/17

G-E MERCURY LAMPS



H250-A5



H400-E1

H250J5

H400-J1

H400-E1T

H400-A1
H400-B1

Mercury lamps are highly versatile sources of radiant energy. They are efficient generators of visible light for general lighting applications for factories, for street lighting and outdoor flood-lighting. They are also common sources of ultraviolet energy used for sunlamps and for black light and photochemical effects.

Mercury lamps require correctly designed ballasts for their operation; all lamps with the same suffix number in the lamp order abbreviation are interchangeable and will operate from the same ballast design.

The characteristic blue-green light from mercury lamps appears as a "white light" but distorts the color appearance of colored objects, and for that reason are often combined with filament lamps for interior illumination.

In the newer forms some color correction is incorporated in the lamp by the use of fluorescent phosphors within the bulb. Color of light is thereby made comparable in color rendition to an equal wattage mixture of filament and regular mercury.

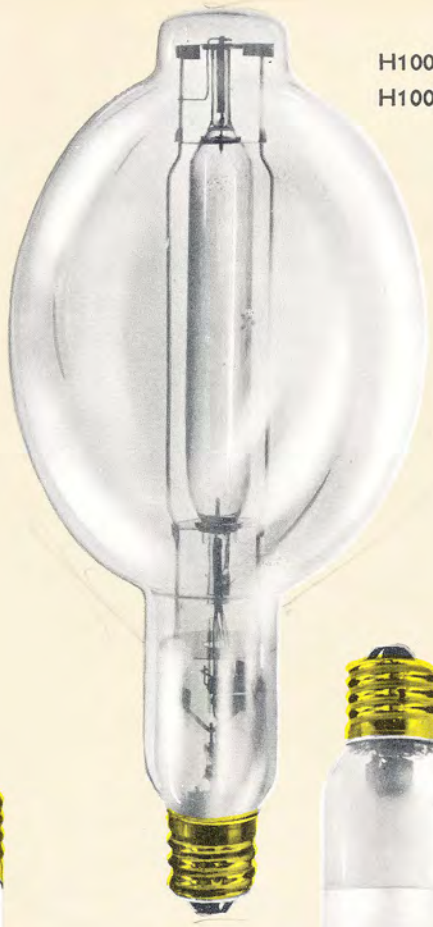
For use only with auxiliary equipment designed to produce proper electrical values. Lamp wattage is approximate. For total, add auxiliary watts. Unless otherwise noted, ratings apply to operate in a-c circuits.

Lamp Ordering Abbreviation	Watts	Bulb	Base	Description See Footnote No.	Std. Pgk. Qty.	Rated Average Life	Approx. Initial Lumens (104)	Light Center Length	Max. Over-all Length
H100-SP4	100	PAR-38	Admed. Skt.	★Black Light (107, 91)‡	12	2000	.....	...	5 7/16
H100-FL4	100	PAR-38	Admed. Skt.	★Black Light (107, 91)‡	12	2000	.....	...	5 7/16
H100-A4	100	T-10	Amed.	★General & Black Light (107, 92)‡	12	4000	3300	3 7/16	5 5/8
H100-L4	100	PS-25	Mog.	Street Ltg. (107)	24	4000	.....	5	7 1/8
H100-M4	100	PS-25	Mog.	General (107)	24	4000	.....	3 7/16	5 5/8
H100-BL4	100	T-16	Admed.	★Black Light (47, 84)	12	1000	.....	3 7/16	5 1/2
H250-A2	250	T-9	Med.	★General Interior Ltg. (84)	12	2000	6800	5	8
H250-A5	250	BT-28	Mog.	★Gen., St. & Black Light (86, 107)‡	12	4M-5M	11000	5	8
H250-J5	250	BT-28	Mog.	Gen. St., (57, 86, 107) Col. Imp.	12	4M-5M	....	5	8 1/4
H400-E1	400	BT-37	Mog.	Gen. St. & Black Ltg. (57, 86, 107)‡	6	6000	20000	7	11 1/2
H400-A1	400	T-16	Mog.	★Gen. & St. Lighting (87, 90, 98)	12	4M-6M	15000	7 3/4	13
H400-B1	400	T-16	Mog.	★Gen. & St. Lighting (90, 94)	12	4M-6M	15000	7 3/4	13
H400-E1T	400	T-20	Mog.	★Gen. & St. Lighting (86, 107)‡	12	4M-5M	19000	7	11
H400-J1	400	BT-37	Mog.	Gen. & St. Lighting (86, 57, 107)§	6	6000	18500	7	11 1/2
H400-R1	400	R-52	Mog.	Reflector High Bay I.F. (57, 107)	6	6000	16000	...	11 3/4
H400-RC1	400	R-52	Mog.	High Bay (57, 107)§	6	6000	19000	...	11 3/4
H1000-A15	1000	BT-56	Mog.	Gen. St. & Industrial Ltg. (57), (84)	6	6000	52000	9 3/8	15 1/16
H1000-C15	1000	BT-56	Mog.	Gen. Ltg. Color Improved (57), (84)	6	6000	48000	9 3/8	15 1/16
H1000-A12	1000	BT-56	Mog.	General (57)	6	....	....	9 3/8	15 1/16
H1000-C12	1000	BT-56	Mog.	General Color Improved (57)	6	....	....	9 3/8	15 1/16
H3000-A9	3000	T-9½	S. C. Term.	★High Bay Industrial Ltg. (96)	1	5M-10M	132000	...	55

‡ Use separate filter. § Color improved. ★ Special glass bulb — heat-resistant.

H1000-C15
H1000-C12

H1000-A15
H1000-A12



H400-R1

L4

H400-RC1

H3000-A9

(57) May not give satisfactory performance if any accessory equipment is attached to, or touches the glass bulb, should be shielded against moisture falling on the bulb.
(84) Life under specified test conditions with lamps turned off and restarted no oftener than once every 5 burning hours.
(85) Initial lumens after 100 hours operation. Life under specified test conditions with lamps turned off and restarted no oftener than once every 5 burning hours.
(86) Horizontal burning approved with or without magnet; so operated, published life ratings apply but watts and lumens are reduced.
(87) Burning position within 10° of vertical base up.
(90) Initial lumens after 100 hours operation. Rated average life under specified test conditions; with 5 burning hours per start, 4000 hours; with 10 burning hours per start, 6000 hours.
(91) Opaque coating on reflecting section of bulb.
(92) When H100-A4 lamps are operated on direct current a polarity reversing switch should be installed to avoid the possibility of electrolysis in the lamps.
(94) Burning position must be within 10° of vertical base down.
(96) Rated average life under specified test conditions with 5 burning hours per start 5,000 hours; with 10 burning hours per start, 6,000 hours; with 144 burning hours per start, 10,000 hours. Initial lumens apply at end of 100 hours operation.
(98) Horizontal burning approved with magnet holding arc approximately centered; so operated, published life ratings apply but watts and lumens are reduced.
(104) Approximate initial lumens after 100 hours operation.
(107) Approximate life under specified test conditions with 5 or more burning hours per start.

G-E MERCURY BLACK LIGHT LAMPS

H100-A4

H100-FL4

H100-SP4

H100-BL4

"Black Light" is a popular name for near ultraviolet energy in the 3200A-4000A band. These invisible rays cause many materials to glow. The process is used for stage and decorative effects, industrial inspection and production, detective work, mineral exploration, medical applications, and advertising.

To be effective visible light emitted by the source must be absorbed by a filter. In the H100-BL4, 250A21/60, and in the F40T12/BLB the lamp bulb itself is the filter made of dark purple glass which absorbs nearly all the visible light and transmits a high percentage of black light. The other lamps require separate filters for most applications.

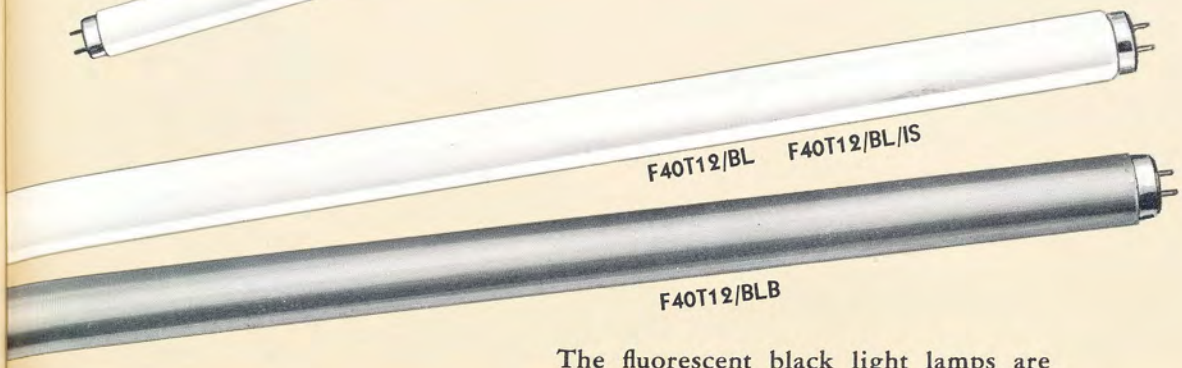
Reflectors are desirable with all lamps (except the H100-SP4 and H100-FL4 which have built-in reflectors) to direct the energy effectively.

BLACK LIGHT LAMPS

Lamp Ordering Abbreviation	Watts	Bulb	Base	Std. Pkg. Qty.	Approx. Hours Life	Lumens	Light Cntr. Lgth.	Max. Ovrl. Lgth.
H100-SP4★⑤⑥	100	PAR-38	Admed. Skt.	12	1000	.....	....	$5\frac{7}{16}$
H100-FL4★⑤⑥	100	PAR-38	Admed. Skt.	12	1000	.....	....	$5\frac{7}{16}$
H100-A4★⑤	100	T-10	Admed.	12	1000	3300	$3\frac{7}{16}$	$5\frac{5}{8}$
H100-BL4★⑤	100	T-16	Admed.	12	1000	.....	$3\frac{7}{16}$	$5\frac{1}{2}$

★ Special glass bulb — heat-resistant.

G-E FLUORESCENT AND FILAMENT BLACK LIGHT LAMPS



F5000
F3RP12/BL

F2T6/BL

250A21/60

The fluorescent black light lamps are much more efficient than the mercury types, but require more space. The 250A21/60 is an incandescent lamp for intermittent burning in a regular socket. It is used where small concentrations of energy are sufficient. The F5000, F2T6/BL and F3RP12/BL are specialized lamps primarily for instrument lighting on aircraft.

FLUORESCENT BLACK LIGHT LAMPS

Lamp Ordering Abbreviation	Nominal Lamp Watts	Bulb	Length, Inches	Base	Standard Package Quantity
F2T6/BL①	2	T-6	$2\frac{3}{8}$	D. C. Indexing	120
F3RP12/BL②	3	RP-12	$2\frac{9}{16}$	D. C. Indexing	120
F4T5/BL	4	T-5	6	Min. Bip.	24
F6T5/BL	6	T-5	9	Min. Bip.	24
F8T5/BL	8	T-5	12	Min. Bip.	24
F15T8/BL	15	T-8	18	Med. Bip.	24
F30T8/BL	30	T-8	36	Med. Bip.	24
F40T12/BL	40	T-12	48	Med. Bip.	24
F40T12/BL/IS③	40	T-12	48	Med. Bip.	24
F40T12/BLB④	40	T-12	48	Med. Bip.	24
F5000①	4	RP-12	$2\frac{9}{16}$	D. C. Indexing	120

① Designed for use on 24-28v D.C. circuits.
② Designed for use on 12-16v D.C. circuits.
③ For instant start service. Will not operate on pre-heat ballast circuits.
④ Integral filter.
⑤ Life under specified conditions with lamps turned off and restarted no oftener than once every 5 burning hours.
⑥ Opaque coating on reflecting section of bulb.

FILAMENT BLACK LIGHT LAMPS

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Description	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Light Cntr. Lgth.	Max. Ovrl. Lgth.
250A21/60	250	A-21	Med.	115–125	Purple X	120	C	C-9	50	$3\frac{3}{8}$	$4\frac{15}{16}$

(Continued on next page)

TRANSFORMERS FOR G-E MERCURY LAMPS

TYPICAL ENCLOSED TRANSFORMER

CORE AND COIL TRANSFORMER

The table below shows the various types of transformers and reactors for the operation of mercury lamps. It will be noted that lamps having the same last numeral in the ordering designation can be operated from the same type of transformer. More complete technical information on mercury lamps, as well as transformer dimensions and wiring diagrams is available in G. E. Lamp Department Bulletin LS-103.

3 KW TRANSFORMER

Lamp Watts	Lamp Type	Type of Transformer	Circuit Voltage	Line Power Factor	Watts Loss	Approx. Line Current (in amperes) Starting	Approx. Line Current (in amperes) Operating	Approx. Weight In Lbs. Net	G-E Cat. No.
H100-	A4	Stabilized Output Transformer	100-130	90	35	.75	1.42	15.6	89G80
	BL4	Core & Coil	118/105	50	20	3.1	2	7	89G140
	SP4	Enc. Single Lamp	118/105	50	20	3.1	2	8	89G142
	FL4	Moisture-Proof Single Lamp	118/105	50	20	3.1	2	9	89G146
		Enc. Single Lamp	118/105	90	20	2	1	14	89G182
H250-	A5	Enc. Tulamp	118/105	95	60	2.75	4.5	36	89G54
		Core & Coil	118/105	50	35	7.5	5	16	89G190
		Enc. Single Lamp	118/105	50	30	7.8	5.2	22	89G191
		Enc. Single Lamp	118/105	90	30	3.7	2.2	27	89G192
H400-	A1	Enc. Single Lamp	118/105	90	55	7.2	4.5	27.5	4G7001
	B1	Enc. Single Lamp	236/210	90	55	3.1	2.2	27.5	4G7002
	E1	Enc. Single Lamp	277/254	90	55	3.1	1.8	27.5	4G7003
	J1	Enc. Single Lamp	480/440	90	55	1.6	1.0	27.5	4G7004
	R1	Pendant Mounted	118/105	90	55	7.2	4.5	26	4G7022
	RC1	Enc. Single Lamp Reactor	230/265	90	30	3	2	15	4G7041
		Enc. Single Lamp Reactor	230/265	60	20	5	3.2	14	4G7042
		Core & Coil Reactor	230/265	60	20	5	3.2	8	4G7043
		Moisture-proof Single Lamp	118/105	90	48	7.2	4.5	37	89G118
		Core & Coil	118/105	60	50	12	7	18	89G160
		Enc. Single Lamp	118/105	60	50	12	7	24	89G162
		Weatherproof Single Lamp	118/105	50	60	11	9	39	89G290
		Weatherproof Single Lamp	118/105	90	65	5.2	4.5	45	89G298
		Enclosed Tulamp	118/105	95	75	6	7.3	39	89G14
		Enclosed Tulamp	236/210	95	60	3	3.65	39	89G15
		Enclosed Tulamp	277/254	90	80	2.6	3.1	39	89G18
		Enclosed Tulamp	460/480	90	60	2	2	45	89G36
H1000-	H-12	Encl. Single Lamp Reactor	220/240/265/277	90	50	9.1	5.3	43.5	89G276
H1000-	A15	Enc. Single Lamp Reactor	460	90	70	4.5	2.5	32	89G271
	C15	Enc. Tulamp Reactor	460	90	100	2	4.5	48	89G272
		Enc. Single Lamp	220/236/277	90	105	8.5	5	50	89G273
		Enc. Single Lamp	118/105	90	105	16.5	10	56	89G274
H3000-	A9	Enc. Single Lamp	220/230/240	90	165	28	15	135	89G231
		Enc. Single Lamp	440/460/480	90	155	14	7.5	110	89G208
		Enc. Single Lamp	545/575/600	90	140	11	6	105	89G202B

G-E OZONE LAMP

OZ4S11

Ultraviolet from the General Electric Ozone Lamp passes through the special glass bulb and acts on the oxygen in the air to form ozone, which has the unique ability to destroy many objectionable odors.

The G-E Ozone Lamp will kill the odors in a small room, banish smells in a short time after cooking, prevent mustiness, and eliminate stale after-odors of tobacco smoke.

Ozone lamps are generally operated in shielded fixtures mounted on the wall just above eye level. They can also be operated inside enclosed air circulating devices. In either application one ozone lamp should be used for each 1000 cubic feet of space served.

A ballast must be used with the ozone lamp — G-E Catalog No. 89G418 is available for operation on 110-125 volt 60-cycle current. A standard 40-watt filament lamp may also be used as a ballast.

Lamp Ordering Abbreviation	Watts	Bulb	Base	Description	Std. Pkg. Qty.	Approx. Hours Life	Max. Ovrl. Lgth.
OZ4S11	4	S-11	Inter.	Clear	120	4000①	$2\frac{3}{8}$

① Approximate life under specified test conditions with continuous burning.

G-E SUNLAMPS

RS

S-1

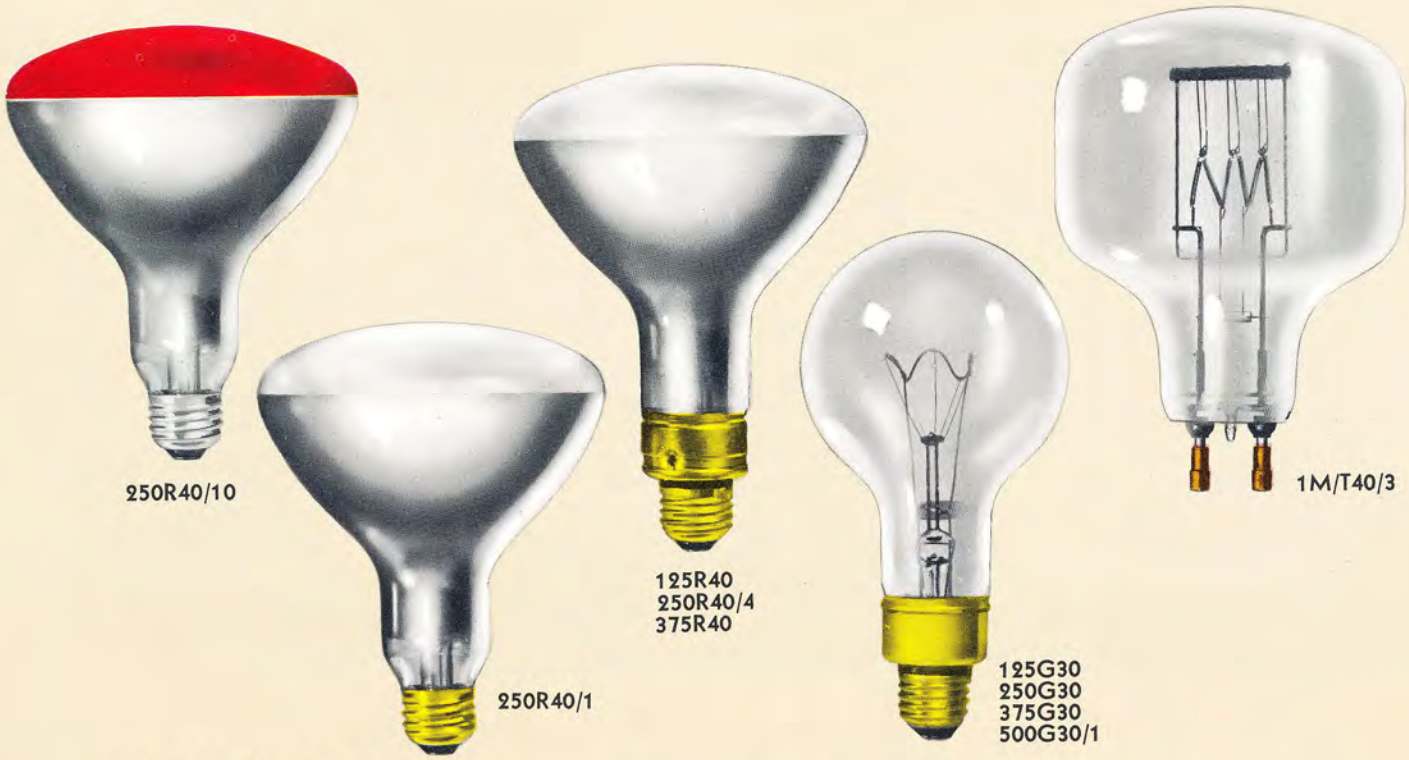
Sunlamps provide ultraviolet, effective in producing sunburning and tanning. They provide the equivalent of vitamin D for prevention and cure of rickets in infants and are also used for irradiating animals and poultry.

Both 400-watt S-1 and 275-watt RS lamps provide sufficient radiant heat along with the ultraviolet to permit their comfortable use in rooms where the air temperature might otherwise be too cool for adequate exposure of the body. The S-1 sunlamp is made available for replacement purposes in the special operating equipment it requires. The RS sunlamp operates on standard 110-125 volts, 50-or 60-cycle alternating current and therefore is the most popular type sunlamp. It can be used in any lampholder but special floor stands or clamp-on type holders are generally more flexible and more convenient.

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Description	Std. Pkg. Qty.	Approx. Hours Life	Max. Ovrl. Lgth.
RS	275	R-40	Med.	110–125	Reflector–I. F.	6	1000①	7
S-1	400	PS-22	Mog.	.....	Inside Frosted	6	500	$6\frac{7}{16}$

① Life under specified conditions with lamps.

G-E HEAT LAMPS AND INDUSTRIAL INFRARED LAMPS



GENERAL PURPOSE LAMPS

Infrared lamps have many uses in the home, in industrial and commercial applications and on the farm for heating, drying and for brooding of poultry and animals.

They also have wide usage as a source of penetrating heat to help relieve muscular aches and pains, the discomfort of neuritis, sinus pains, and arthritis.

The R-40 type lamps have a built-in reflector which efficiently directs the radiant heat to objects or target areas. G-30 and T-40 lamps require separate reflectors. The popular 250R40/10 lamp is made of heat-resistant glass with a built-in red filter. The heat-resistant glass provides protection against breakage by splashing water. The built-in red filter reduces the brightness of the lamp. The 250R40/1 is a low cost general purpose lamp.

INDUSTRIAL INFRARED LAMPS

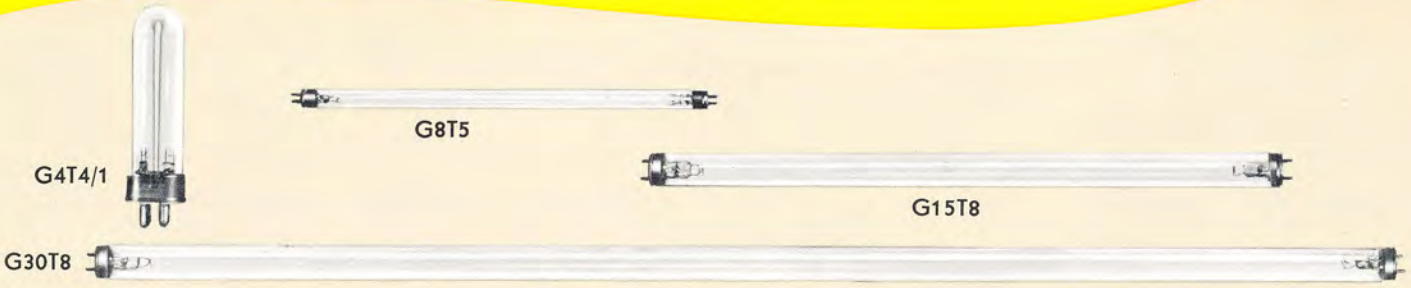
In industry, infrared lamps are used for quick heating of a great variety of products. Advantageous features of these lamps include rapid heat transfer, efficient operation, simple oven construction, low oven first cost, adaptability to conveyorized production, cleanliness and low maintenance.

The line of infrared lamps comprises several wattages in each bulb size; this interchangeability permits a range of temperatures in an oven.

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Description	Std. Pkg. Qty.	Class	Filament	Light Cntr. Lgth.	Max. Ovrl. Lgth.
125G30	125	G-30	Med. Skt.	115–125	①	60	C	C-7A	5	7 1/8
250G30	250	G-30	Med. Skt.	115–125	①②	60	C	C-7A	5	7 1/8
375G30	375	G-30	Med. Skt.	115–125	①②	60	C	C-7A	5	7 1/8
500G30/1	500	G-30	Med. Skt.	115–125	①②	60	C	C-7A	5	7 1/8
125R40	125	R-40	Med. Skt.	115–125	Light I. F.①	24	C	C-9	....	7 1/4
250R40/1	250	R-40	Med.	115–125	Light I. F.①②	24	C	C-9	....	6 1/2
250R40/10	250	R-40	Med.	115–125	Heat Red Bowl①③	24	C	C-9	....	6 7/8
250R40/4	250	R-40	Med. Skt.	115–125	Light I. F.①	24	C	C-9	....	7 1/4
375R40	375	R-40	Med. Skt.	115–125	Light I. F.①	24	C	C-9	....	7 1/4
375R40/1	375	R-40	Med. Skt.	115–125	①③	24	C	C-9	....	7 5/8
1M/T40/3	1000	T-40	Special	115–125	Triangular Fil.①	24	C	.....	3 1/16	7 1/4

① Average Laboratory Life in excess of 5000 hours. ② Burn only in porcelain sockets. ③ Special glass bulb — heat resistant.

G-E GERMICIDAL LAMPS



Germicidal lamps provide 2537°A ultraviolet, effective in destroying molds and bacteria. They have wide application in hospital nurseries, contagious wards and surgeries, as well as in schools, offices, theatres and other places where air sanitation is needed. They also provide product protection for foods, pharmaceuticals and beverages. On farms they offer an important supplement to the usual sanitation methods practiced by poultrymen, dairymen, and stock raisers.

Reference: General Electric Lamp Division Bulletins LD-11, LD-14.

Lamp Ordering Abbreviation	Watts	Bulb	Base	Std. Pkg. Qty.	Approx. Hours Life	Max. Ovrl. Lgth.
G4T4/1	4	T-4★	Oval Small 4-Pin	24	5000①	5⅜
G8T5	8	T-5	Min. Bip.	24	5000②	12
G15T8	15	T-8	Med. Bip.	24	7500②	18
G30T8	30	T-8	Med. Bip.	24	7500②	36

① Life under specified test conditions with lamps turned off and restarted no oftener than once every three burning hours.
② Life under specified test conditions with lamps turned off and restarted no oftener than once every 8 burning hours.
★ Bent tube construction

G-E LAMPS FOR HOSPITALS AND MEDICAL INSTRUMENTS

Microscope lamps, in compact spotlights, are used to illuminate specimens on the microscope stage.

The 200P25/26 lamp, is an inside-frosted daylight bulb. Some X-ray illuminators use daylight fluorescent lamps.

The 15S11/14 lamp has a concentrated filament and clear bulb.

The elongated filaments and small bulb diameter of the 25T6½ lamps are designed to light the dials of scales of weighing equipment. The bayonet base will not vibrate loose.

Lamp Ordering Abbreviation	Watts	Bulb	Base	Volts	Description	Std. Pkg. Qty.	Class	Filament	Approx. Hours Life	Lumens	Light Cntr. Lgth.	Max. Ovrl. Lgth.
100T8½/8	100	T-8½	Med. Pf.	Std.	Micro. ②	24	C	CC-13	50	1850	2 3/16	5¾
100T8½/9	100	T-8½	Med.	Std.	Micro. ②	24	C	CC-13	50	1850	3	5½
200P25/26	200	P-25	Med.	115–125	X-Ray ③	60	C	C-7A	100	.....	3	4¾
25T6½DC	25	T-6½	D.C.Bay.	Std.	Scale	60	B	C-8	1000	240	....	5½
25T6½DC/IF	25	T-6½	D.C.Bay.	Std.	Scale	60	B	C-8	1000	240	....	5½
15S11/14	15	S-11	Cand.	Std.	Headlamp	120	B	C-5	200	145	1⅜	2¼
150/150G30/32	150	G-30	3C. Mog.	Std.	Spot③ Hospital	60	C	C-5,C-9	200	.....	3⅜	5 9/16
150/400	150-250-400	PS-35	3C. Mog.	Std.	Hospital	24	C	2C-7A	200	.....	7	9⅜

② Burn base down. For use in equipment specially designed to maintain bulb and base temperatures within safe limits.
③ Burn base down to horizontal.

PAGE INDEX OF LAMPS BY WATTAGE

Does not include Street Lighting, Train Lighting, Germicidal, Ozone, Sun, Mercury or Black Light Lamps.

Watts	Bulb	Lamp Order Abbrev.	Lamp Classification	Listed On Page
3	S-6	3S6/5	Indicator	52
5	S-14	5S14	Low Voltage	48
		5S14	Sign	36–37
6	S-6	6S6	Low Voltage	48
		6S6	Indicator	52
		6S6/R	Decorative	34–35
		6S6/W	"	"
		6S6/DC	Indicator	52
		6S6/7	"	"
6	S-14	6S14	Sign	36–37
		6S14/IF	"	"
		6S14/CB	"	"
		6S14/CG	"	"
		6S14/CV	"	"
		6S14/CO	"	"
		6S14/CR	"	"
		6S14/CW	"	"
		6S14/CY	"	"
6	T-4½	6T4½/1	Indicator	52
7	C-7	7C7	Night Light	50
		7C7/B	" "	"
		7C7/G	" "	"
		7C7/O	" "	"
		7C7/R	" "	"
		7C7/W	" "	"
7½	S-11	7½S	Sign	36–37
		7½S/CO	"	"
		7½S/CB	"	"
		7½S/CG	"	"
		7½S/CR	"	"
		7½S/CW	"	"
10	C-7	10C7	Pilot	52
		10C7	Refrigerator	50
		10C7DC	"	"
		10C7	Indicator	52
		10C7DC	"	"
10	S-6	10S6/10	Indicator	52
		10S6/13	"	"
10	S-11	10S11N	Sign	36–37
		10S11N/CB	"	"
		10S11N/CFT	"	"
		10S11N/CG	"	"
		10S11N/CO	"	"
		10S11N/CR	"	"
		10S11N/CW	"	"
		10S11N/CY	"	"
		10S11/79	Indicator	52
10	S-14	10S14	Clear	30–31
		10S14/IF	Sign	36–37
		10S14/D	"	"
		10S14/CB	"	"
		10S14/CG	"	"
		10S14/CR	"	"
		10S14/CO	"	"
		10S14/CY	"	"
		10S14/CW	"	"
		10S14/CFT	"	"
		10S14/CV	"	"
		10S14/CR2	"	"
		10S14/NA	Natural Colored	38
		10S14/NB	" "	"
		10S14/NG	" "	"
		10S14/NR	" "	"
		10A17	Sign	37
15	A-15	15A15	General	22–23
		15A15/CL	Decorative	34–35
		15A15/CL	Aviation	44
15	A-17	15A	Low Voltage	48
		15A	High Voltage	49
		15A17/AO	Sign	36–37
		15A17/B	"	"
		15A17/FT	"	"
		15A17/G	"	"
		15A17/V	"	"
		15A17/RO	"	"
		15A17/R	"	"
		15A17/W	"	"
		15A17/Y	"	"
15	B-9½	15B9½	Decorative	34–35
		15B9½/W	"	"
15	F-10	15FC	"	"
		15FC/FT	"	"
		15FC/V	"	"
		15FC/W	"	"
		15FN	"	"
		15FN/W	"	"
15	G-16½	15G16½C	"	"
		15G16½C/W	"	"
15	S-11	15S11/13	"	"
		15S11/14	Headlamp	65
		15S11/102	Refrigerator	50
15	T-6	15T6	Switchboard	52
15	T-7	15T7DC	Home Appliance	50
		15T7DC/IF	" "	"
		15T7C	" "	"
		15T7N	" "	"
15	T-8	15T8C	Decorative	34–35
		15T8C/W	"	"
		15T8/N	"	"
20	A-17	20A17/5	"	34–35
25	A-17	25A17/RS	Rough Service	51
25	A-19	25A	General	22–23
		25A/CL	"	"
		25A/CL	Aviation	44
		25A	High Voltage	49
		25A	Low Voltage	48
		25A	" "	"
		25A/D	Daylight	28
		25A/R	High Voltage	49
		25A/W	General	22–23
		25A/AO	Sign & Decorative	36–37
		25A/W	" "	"
		25A/B	" "	"
		25A/FT	" "	"
		25A/G	" "	"
		25A/V	" "	"
		25A/O	" "	"
		25A/R2	" "	"
		25A/R	" "	"
		25A/Y	Yellow	24
		25A/NA	Natural Colored	38
		25A/NB	" "	"
		25A/NG	" "	"
		25A/NR	" "	"
		25A/RS	Rough Service	51
		25A/VS	Vibration	"
		25A/CL/VS	"	"

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Watts	Bulb	Lamp Order Abbrev.	Lamp Classification	Listed On Page
25	F-15	25F	Decorative	34–35
		25F/FT	"	"
		25F/V	"	"
		25F/W	"	"
25	G-16½	25G16½C	"	"
		25G16½C/W	"	"
25	G-18½	25G18½/FT	"	"
		25G18½/V	"	"
		25G18½/W	"	"
25	G-25	25G25	"	"
		25G25/FT	"	"
		25G25/V	"	"
		25G25/W	"	"
25	T-6½	25T6½	Tubular & Showcase	54
		25T6½/IF	" "	"
		25T6½DC	Scale Illuminator	65
		25T6½DC/IF	" "	"
25	T-8	25T8DC	Home Appliance	50
		25T8DC/IF	" "	"
		25T8/N	" "	"
25	T-8½	25T8½IF	Showcase	54
25	T-10	25T10	Tubular & Showcase	54
		25T10/70	" "	"
		25T10/AF	" "	"
		25T10/IF	" "	"
		25T10/RFL	" "	"
30	T-8	L30	Lumiline	39
		L30/IF	"	"
		L30/W	"	"
30, 70, 100	A-21	30/100	Three-Lite	29
36	A-19	36A/RYH	Street Railway	41
36	A-21	36A/RY	" "	"
40	A-15	40A15/1	Refrigerator	50
		40A15/22	Oven	"
40	A-19	40A	General	22–23
		40A/CL	Clear	30–31
40	A-21	40A/O	Sign & Decorative	36–37
		40A/B	" "	"
		40A/FT	" "	"
		40A/G	" "	"
		40A/V	" "	"
		40A/R2	" "	"
		40A/R	" "	"
		40A/Y	" "	"
		40A/Y	Yellow	24
		40A/NA	Natural Colored	38
		40A/NB	" "	"
		40A/NG	" "	"
		40A/NR	" "	"
		40A/TS	Traffic Signal	41
		40A21P	Aviation	44
40	F-15	40F15	Decorative	34–35
		40F15/W	"	"
40	G-25	40G/FT	"	"
		40G/V	"	"
		40G/W	"	"
40	T-6½	40T6½/2	Refrigerator	50
40	T-8	40T8	Tubular & Showcase	54
		40T8/AF	" "	"
		40T8/IF	" "	54
		L40	Lumiline	39
		L40/IF	"	"
		L40/MB	"	"
		L40/EM	"	"
		L40/O	"	"
		L40/SPK	"	"
40	T-8	L40/ST	Lumiline	39
		L40/W	"	"
		L40/R	"	"
40	T-10	40T10	Tubular & Showcase	54
		40T10/IF	" "	"
		40T10/AF	" "	"
		40T10/RFL	" "	"
		40T10P	Aviation	44
50	A-19	50A/RS	Rough Service	51
		50A19/RS	" "	"
		50A19/3	" "	"
		50A	High Voltage	49
		50A	General	22–23
		50A/CL	Clear	30–31
		50A19/31	Oven	50
		50A/RS	High Voltage	49
		50A19/37	" "	"
		50A19/38	Oven	50
		50A19	Mine	55
		50A19/35	"	"
		50A19/5	Rough Service	51
		50A/VS	Vibration	"
		50A/CL/VS	"	"
			Aviation	44
50	A-21	50A21	Low Voltage	48
50	GA-25	50GA	General	24
50, 50	PS-25	50/50P25/28	Marine	48
56	A-21	56A21	Street Railway	41
50, 100, 150	PS-25	50/150M	Three-Lite	29
		50/150	" "	"
		50/150M/W	" "	"
50, 100, 150	R-40	50/150R/W	" "	"
60	A-19	60A	General	22–23
		60A/D	"	28
		60A/CL	"	30–31
		60A/SB	"	26–27
		60A/W	"	25
		60A/Y	"	34
		60A/Y	Yellow	24
60	A-21	60A21/AO	Decorative	34–35
		60A21/B	"	"
		60A21/FT	"	"
		60A21/G	"	"
		60A21/V	"	"
		60A21/RO	"	"
		60A21/R	"	"
		60A21/Y	"	"
		60A21/NA	Natural Colored	38
		60A21/NB	" "	"
		60A21/NG	" "	"
		60A21/NR	" "	"
		60A21/TS	Traffic Signal	41
		60A21	High Voltage	49
60	T-8	L60	Lumiline	39
		L60/IF	"	"
		L60/MB	"	"
		L60/EM	"	"
		L60/O	"	"
		L60/SPK	"	"
		L60/ST	"	"
		L60/W	"	"
60	T-10	60T10/64	Showcase	54
67	A-21	67A21/40	Traffic Signal	41
			Aviation	44
75	A-21	75A	General	22–23
		75A/CL	"	30–31
		75A21/RS	Rough Service	51

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Watts	Bulb	Lamp Order Abbrev.	Lamp Classification	Listed On Page
75	PAR-38	75PAR/FL	Projector	32–33
		75PAR/SP	"	"
75	R-30	75R30/SP	Reflector	32–33
		75R30/FL	"	"
75	T-10	75T10/45	Showcase	54
100	A-21	100A21/61Y	Yellow	24
		100A	General	22–23
		100A/CL	"	30–31
		100A21/TS	Traffic Signal	41
			Aviation	44
		100A/W	General	25
		100A/1SB	Silver Bowl	26
		100A/1SBIF	Silver Bowl	26
100	A-23	100A	Mine	55
		100A/D	General	28
		100A/SB	"	26–27
		100A23/20	Oven	50
		100A23/28	Vibration	51
		100A	High Voltage	49
		100A	Low Voltage	48
		100A/RS	Rough Service	51
		100A/RS	High Voltage	49
		100A/AO	Decorative	34–35
		100A/B	"	"
		100A/FT	"	"
		100A/G	"	"
		100A/V	"	"
		100A/RO	"	"
		100A/R	"	"
		100A/Y	"	"
100	G-16½	100G16½/29SC	Spotlight	56–57
		100G16½/29DC	"	"
100	GA-30	100GA	General	24
100	A-21	100A21/SP	Spotlight	56–57
		100A21/1SP	"	"
100	PAR-38	100PAR38/FL	Floodlight	"
100	T-8½	100T8½/8	Microscope	65
		100T8½/9	Microscope	"
100	P-25	100/100P25/29	Marine	48
100				
100, 200, 300	G-30	100/300	Three-Lite	29
101	A-23	101A23	Street Railway	41
111	A-21	111A21/TS	Traffic Signal	41
			Aviation	44
125	G-30	125G30	Infrared	64
125	R-40	125R40	"	"
125	T-10	125T10P	Spotlight	56–57
150	PAR-38	150PAR/SP	Projector Spot	32–33
		150PAR/FL	Projector Flood	"
		150PAR/3FL	" "	"
		150PAR/3SP	Projector Spot	"
150	PAR-46	150PAR46	Mine	55
		150PAR46/1	"	"
150	A-23	150A	Inside Frost	22–23
		150A/CL	Clear	30–31
150	P-25	150P25/15	Street Railway	41
150	PS-25	150	General	22–23
		150/CL	"	30–31
		150/WB	"	28
		150/DCL	"	"
		150/D	"	"
		150/SB	"	26–27
		150PS25/Y	"	24
150	PS-25	150/RS	Rough Service	51
		150/VS	Vibration	"
150	R-40	150R/SP	Reflector Spot	32–33
		150R/FL	Reflector Flood	"
		150R/W	General	25
		150R/B	Reflector Color	40
		150R/BW	" "	"
		150R/G	" "	"
		150R/PK	" "	"
		150R/R	" "	"
		150R/Y	" "	"
150	T-8	150T8/2SC	Projection	53
150	G-30	150/150G30/32	Spotlight	56–57
200	P-25	200P25/26	X-Ray	65
200	PAR-46	200PAR/3SP	Projector	32–33
200	PS-30	200	General	22–23
		200/IF	"	"
		200/WB	"	28
		200/D	"	"
		200/SBIF	"	26–27
		200/SBIF/1	"	"
200	PS-30	200PS30/24	Rough Service	51
		200PS30/23	" "	"
		200PS30/12	General	22–23
		200	High Voltage	49
		200/IF	" "	"
		200	Mine	55
200, 300, 500	PS-40	200/500	Three-Lite	29
250	A-21	250A21/60	Blacklight	60-61
250	G-30	250G/SP	Spotlight	56–57
		250G/FL	Floodlight	"
		250G30IL	General	22–23
		250G30	Infrared	64
250	PAR-56	250PAR	Aviation	44
250	R-40	250R40/1	Infrared	64
		250R40/4	"	"
		250R40/10	"	"
300	PS-30	300M	General	30–31
		300M/IF	"	22–23
300	PS-35	300MS/IF	"	"
		300MS/SBIF	"	26–27
		300MS	"	30–31
		300	"	"
		300/IF	"	22–23
		300MS	High Voltage	49
		300	" "	"
		300/IF	" "	"
		300/WB	General	28
300	PAR-56	300PAR56/SP	Projector	32
300	PS-35	300/SBIF	General	26–27
		300/SBIF/1	"	"
300	R-40	300R/SP	Reflector Spot	32–33
		300R/FL	Reflector Flood	32–33
		300R/FL/1	" "	"
		300/RS	Rough Service	51
		300R/SP/1	Reflector	32–33
		300R/3SP	"	"
		300R/3FL	"	"
375	G-30	375G30	Infrared	64
375	R-40	375R40/1	"	"
		375R40	"	"
399	PAR-56	399PAR	Aviation	44
400	G-30	400G/SP	Spotlight	56–57
		400G/FL	Floodlight	"
500	G-30	500G30/1	Infrared	64

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Watts	Bulb	Lamp Order Abbrev.	Lamp Classification	Listed On Page
500	G-40	500G/FL	Floodlight	56
		500G/SP	Spotlight	56–57
500	PS-40	500	General	26–27
		500/IF	"	"
		500/D	"	"
		500/SBIF	"	"
		500SBIF/1	"	"
		500/WB	"	"
		500/RS	Rough Service	51
		500PS40/45	Aviation	44
		500	High Voltage	49
		500/IF	" "	"
500	R-40	500R/3SP	Reflector	32–33
		500R/3FL	"	"
500	R-52	500R52	"	"
500	T-20	500T20/50	General	22–23
		500T20/64	Spotlight	56–57
		500T20P/AB	Aviation	44
		500T20/13	"	"
		500T20/24	"	"
620	PS-40	620PS40/P	"	"
		620PS40/IP 1	"	"
750	PS-52	750	General	30–31
		750/IF	"	22–23
		750/SBIF	"	26–27
		750	High Voltage	49
		750/IF	" "	"
750	R-52	750R52	Reflector Std. V.	32–33
			High Voltage	49
750	T-12	750T12/9	Spotlight	56–57
		750T12/34	Projection	53
750	T-24	750T24	General	22–23
900	T-20	900T20	Projection	53
1000	G-25	1M/G25	Marine	48
1000	G-40	1M/G40SP4¼	Spotlight	56–57
		1M/G40SP5¼	"	"
		1M/G40PSP	"	"
		1M/G40FL	Floodlight	"
1000	PS-52	1000	General	30–31
		1000/IF	"	22–23
		1000/SBIF	"	26–27
		1000	High Voltage	49
		1M/PS52/44	Special	30–31
1000	T-20	1M/T20BP	Aviation	44
1000	T-24	1M/T24	General	22–23
1000	T-40	1M/T40/3	Infrared	64
1500	G-48	1500G48/6	Floodlight	56
1500	PS-52	1500PS52/46	General	30–31
		1500	"	"
		1500/IF	"	22–23
		1500	High Voltage	49
1500	T-24	1500T24/6	Spotlight	56–57
2000	G-48	2M/G48/17	Spotlight	56–57
2000	T-30	2M/T30/1	Spotlight	"

Nominal Lamp Watts	Bulb	Lamp Ordering Abbreviation	Page
GENERAL LINE FLUORESCENT LAMPS			
4	T-5	F4T5/W	15
4	T-5	F4T5/CW	"
4	T-5	F4T5/CWX	"
6	T-5	F6T5/D	"
6	T-5	F6T5/W	"
6	T-5	F6T5/CW	"
8	T-5	F8T5/D	"
8	T-5	F8T5/W	"
8	T-5	F8T5/CW	"
8	T-5	F8T5/WW	"
13	T-5	F13T5/W	"
13	T-5	F13T5/CW	"
14	T-12	F14T12/D	17
14	T-12	F14T12/W	"
14	T-12	F14T12/CW	"
14	T-12	F14T12/WW	"
14	T-12	F14T12/CWX	"
14	T-12	F14T12/WWX	"
14	T-12	F14T12/SW	"
14	T-12	F14T12/W/1	"
14	T-12	F14T12/B	"
14	T-12	F14T12/G	"
14	T-12	F14T12/GO	"
14	T-12	F14T12/PK	"
14	T-12	F14T12/R	"
15	T-8	F15T8/D	16
15	T-8	F15T8/W	"
15	T-8	F15T8/CW	"
15	T-8	F15T8/WW	"
15	T-8	F15T8/CWX	"
15	T-8	F15T8/WWX	"
15	T-8	F15T8/SW	"
15	T-8	F15T8/B	"
15	T-8	F15T8/G	"
15	T-8	F15T8/GO	"
15	T-8	F15T8/PK	"
15	T-8	F15T8/R	"
15	T-12	F15T12/D	17
15	T-12	F15T12/W	"
15	T-12	F15T12/CW	"
15	T-12	F15T12/WW	"
15	T-12	F15T12/CWX	"
15	T-12	F15T12/WWX	"
15	T-12	F15T12/SW	"
15	T-12	F15T12/B	"
15	T-12	F15T12/G	"
15	T-12	F15T12/GO	"
15	T-12	F15T12/PK	"
15	T-12	F15T12/R	"
20	T-12	F20T12/D	"
20	T-12	F20T12/W	"
20	T-12	F20T12/CW	"
20	T-12	F20T12/WW	"
20	T-12	F20T12/CWX	"
20	T-12	F20T12/WWX	"
20	T-12	F20T12/SW	"
20	T-12	F20T12/B	"
20	T-12	F20T12/G	"
20	T-12	F20T12/GO	"
20	T-12	F20T12/PK	"
20	T-12	F20T12/R	"
25	T-12	F25T12/W	"
25	T-12	F25T12/D	"
25	T-12	F25T12/CW	"
25	T-12	F25T12/WW	"
25	T-12	F25T12/CWX	"
25	T-12	F25T12/WWX	"

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Nominal Lamp Watts	Bulb	Lamp Ordering Abbreviation	Page
GENERAL LINE FLUORESCENT LAMPS (Cont.)			
30	T-8	F30T8/D	16
30	T-8	F30T8/W	"
30	T-8	F30T8/CW	"
30	T-8	F30T8/WW	"
30	T-8	F30T8/CWX	"
30	T-8	F30T8/WWX	"
30	T-8	F30T8/SW	"
30	T-8	F30T8/B	"
30	T-8	F30T8/G	"
30	T-8	F30T8/GO	"
30	T-8	F30T8/PK	"
30	T-8	F30T8/R	"
40	T-12	F40T12/D	18
40	T-12	F40T12/W	"
40	T-12	F40T12/CW	"
40	T-12	F40T12/WW	"
40	T-12	F40T12/CWX	"
40	T-12	F40T12/WWX	"
40	T-12	F40T12/SW	"
40	T-12	F40T12/B	"
40	T-12	F40T12/G	"
40	T-12	F40T12/GO	"
40	T-12	F40T12/PK	"
40	T-12	F40T12/R	"
RAPID START FLUORESCENT LAMPS			
40	T-12	F40T12/W/LT	19
40	T-12	F40T12/CW/RS	"
40	T-12	F40T12/WW/RS	"
40	T-12	F40T12/CWX/RS	"
40	T-12	F40T12/WWX/RS	"
40	T-12	F40T12/D/RS	"
40	T-12	F40T12/W/RS	"
40	T-12	F96T12/CW/RS	"
100	T-12	F100T12/CW/RS	"
INSTANT START FLUORESCENT LAMPS			
40	T-12	F40T12/D/IS	18
40	T-12	F40T12/W/IS	"
40	T-12	F40T12/CW/IS	"
40	T-12	F40T12/WW/IS	"
40	T-12	F40T12/CWX/IS	"
40	T-12	F40T12/WWX/IS	"
40	T-12	F40T12/SW/IS	"
40	T-17	F40T17/W/IS	"
40	T-17	F40T17/CW/IS	"
40	T-17	F40T17/CWX/IS	"
40	T-17	F40T17/WW/IS	"
40	T-17	F40T17/WWX/IS	"
90	T-17	F90T17/D	"
90	T-17	F90T17/W	"
90	T-17	F90T17/CW	"
90	T-17	F90T17/CWX	"
90	T-17	F90T17/WW	"
90	T-17	F90T17/WWX	"
90	T-17	F90T17/SW	"
100	T-17	F100T17/CW	"
100	T-17	F100T17/W	"
CIRCLINE FLUORESCENT LAMPS			
22	T-9	FC8T9/CW	21
22	T-9	FC8T9/WW	"
22	T-9	FC8T9/CWX	"
22	T-9	FC8T9/WWX	"
32	T-10	FC12T10/D	"
32	T-10	FC12T10/CW	"
32	T-10	FC12T10/WW	"
32	T-10	FC12T10/CWX	"
32	T-10	FC12T10/WWX	"
40	T-10	FC16T10/CW/RS	21
40	T-10	FC16T10/WW/RS	"
40	T-10	FC16T10/CWX/RS	"
40	T-10	FC16T10/WWX/RS	"
RF FLUORESCENT LAMPS			
85	T-10	F85T10/BW	19
85	T-10	F85T10/IW	"
SLIMLINE FLUORESCENT LAMPS			
17.5–32.5	T-6	F42T6/W	21
17.5–32.5	T-6	F42T6/CW	"
17.5–32.5	T-6	F42T6/WW	"
17.5–32.5	T-6	F42T6/CWX	"
17.5–32.5	T-6	F42T6/WWX	"
17.5–32.5	T-6	F42T6/SW	"
38	T-12	F48T12/CW	"
38	T-12	F48T12/W	"
38	T-12	F48T12/WW	"
38	T-12	F48T12/CWX	"
38	T-12	F48T12/WWX	"
38	T-12	F48T12/D	"
25.5–48	T-6	F64T6/W	"
25.5–48	T-6	F64T6/CW	"
25.5–48	T-6	F64T6/WW	"
25.5–48	T-6	F64T6/CWX	"
25.5–48	T-6	F64T6/WWX	"
25.5–48	T-6	F64T6/SW	"
24.5–48.5	T-8	F72T8/W	"
24.5–48.5	T-8	F72T8/CW	"
24.5–48.5	T-8	F72T8/WW	"
24.5–48.5	T-8	F72T8/CWX	"
24.5–48.5	T-8	F72T8/WWX	"
55	T-12	F72T12/CW	"
55	T-12	F72T12/W	"
55	T-12	F72T12/WW	"
55	T-12	F72T12/CWX	"
55	T-12	F72T12/WWX	"
32–65	T-8	F96T8/W	"
32–65	T-8	F96T8/D	"
32–65	T-8	F96T8/CW	"
32–65	T-8	F96T8/WW	"
32–65	T-8	F96T8/CWX	"
32–65	T-8	F96T8/WWX	"
74	T-12	F96T12/W	"
74	T-12	F96T12/D	"
74	T-12	F96T12/CW	"
74	T-12	F96T12/WW	"
74	T-12	F96T12/CWX	"
74	T-12	F96T12/WWX	"
FLUORESCENT BLACK LIGHT LAMPS			
4	T-5	F4T5/BL	61
6	T-5	F6T5/BL	"
8	T-5	F8T5/BL	"
15	T-8	F15T8/BL	"
30	T-8	F30T8/BL	"
40	T-12	F40T12/BL	"
40	T-12	F40T12/BL/IS	"
4	RP-12	F5000	"
2	T-6	F2T6/BL	"
40	T-12	F40T12/BLB	"

HOW TO ORDER LAMPS

Purchasers are urged to order in standard packages to expedite service and to assure best discount.

Quantity desired of each type of lamp should be specified.

Lamps should be ordered by the Lamp Ordering Abbreviations provided in this catalog for each type. Each abbreviation is complete for ordering without any other specifications, except that the correct voltage must be specified. Abbreviations which are complete without voltage include the series lamps listed in lumens and amperes, fluorescent lamps, and the lamp numbers for General Electric Sunlamps and General Electric Mercury Lamps.

Orders for lamps not specifically listed herein will require the complete specifications, as to size Volts or Amps, Bulb, Base, Finish and Service.

Voltage limits shown as 115-125 indicate that the lamps are intended for use on circuits with voltages normally falling within these limits and are designed at a voltage suitable for such use.

Standard Voltage, as referred to herein, includes 115-, 120- and 125-volts. High Voltage includes 230- and 250-volts.

LAMP AND LIGHTING PUBLICATIONS

To assist in proper application of General Electric Lamps, the following Application Engineering publications are available from Sales District offices:

LD-1	Lamp Bulletin (filament, mercury, fluorescent and other discharge)
LD-2	Fundamentals of Light and Lighting
LS-135	Lamps and the Spectrum (A section of LD-1)
LS-119	Levels of Illumination
LS-155	Lighting Maintenance — Group Relamping
LS-166	Lighting Maintenance — Cleaning
LS-108	Visual Comfort Index
LS-101	Fluorescent Lamps and Auxiliary Equipments
LS-102	Fluorescent Lamps, Engineering Data on Lamps and Auxiliary Equipments (A section of LD-1)
LS-121	Fluorescent Lamps and Radio Interference
LS-148	Fluorescent Lighting in the Home
LD-17	Circline Fluorescent Lamps
LS-103	Mercury Lamps and Ballasts (A section of LD-1)
LD-11	Germicidal Air Sanitation
LD-14	Ultraviolet Product Sanitation
LS-128	G-E Industrial Infrared Lamps, Data and Application
LS-168	Lighting for Plant Growth
LS-160	Ozone Lamp Applications
LS-152	Reflector and Projector Lamps
LD-4	Planned Lighting For Industry
LD-20	Industrial Lighting Outdoors — for Production — for Protection
LD-10	Lighting for Sports and Recreation
LS-106A	Analysis of Street Lighting Costs as Affected by Lamp Replacement Practice
LS-169	Office Lighting Manual
LS-129	Package of Lighting Ideas for Your School
LS-161	Lighting for Stores
LS-162	Built-in Lighting and Planned Environments
LS-132	New Patterns for Lighting You Have
LS-171	Lighting Outdoors for Family Living
LS-123-R	Ideas For Outdoor Christmas Lighting

General Electric Large Lamp Sales and Service District Offices

CITY	SALES DISTRICTS (To Obtain Sales and Technical Information)	(Zone)		SERVICE DISTRICTS (To Order Lamps and to Obtain Shipping Information. Local Warehouse Stocks maintained at these Points)	(Zone)	
ALBANY, N. Y.	8 Elk Street	7	3-4447	Buffalo Serv. Dist., 98 Hydraulic St., Buffalo 10, N. Y.		
ATLANTA, GA.	187 Spring St., N. W.	3	CYpress 1526	680 Murphy Ave., S. W.	—	AMh'rst 5756-7-8-9
BALTIMORE, MD.	Court Square Bldg.	2	MUlberry 5-7733	1401 Parker Rd.	29	ARbutus 3491
BOSTON, MASS. (Newton Upper Falls, Mass.)	50 Industrial Place	64	DEcatur 2-6200	50 Industrial Place	64	DEcatur 2-6200
BUFFALO, N. Y.	438 Delaware Ave.	2	GArfield 7381	98 Hydraulic St.	10	MOhawk 0800
CHARLOTTE, N. C.	514 Johnston Bldg.	2	EDison 4-8614	634 South Cedar St.	1	EDison 2-2141
CHICAGO, ILL.	231 So. LaSalle St.	4	DEarborn 2-4712	4201 So. Pulaski Rd.	32	CLiffside 4-6161
CINCINNATI, OHIO	36 E. Fourth St.	2	DUnbar 2460	49 Central Ave.	2	GArfield 6810
CLEVELAND, OHIO	1320 Williamson Bldg.	14	CHerry 1-1010	1133 E. 152nd St.	10	LIberty 1-1700
DALLAS, TEXAS	6500 Cedar Springs Rd.	19	ELmhurst 3725	6500 Cedar Springs Rd.	19	ELmhurst 3725
DENVER, COLO.	1863 Wazee St.	2	MAin 3-6141	1863 Wazee St.	2	MAin 3-6141
DETROIT, MICH.	1400 Book Tower	26	WOodward 3-6910	1448 Wabash Ave.	16	WOodward 2-9650
HOUSTON, TEXAS	807 C & I Life Bldg.	2	PReston 4291	1014 Nagle St.	3	CEntral 8891
INDIANAPOLIS, IND.	1115 Circle Tower	4	MElrose 2-2536	Cincinnati Serv. Dist., 49 Central Ave., Cincinnati 2, Ohio		
N. KANSAS CITY, MO.	200 East 16th Ave.	16	NOrclay 3568	200 East 16th Ave.	16	NOrclay 3568
LOS ANGELES, CALIF.	3450 Wilshire Blvd.	5	DUnkirk 5-1681	1855 Industrial St.	21	TUcker 2463
MEMPHIS, TENN.	1179 Morehead St.	7	38-1441	1179 Morehead St.	7	38-1441
MILWAUKEE, WIS.	5032 Plankinton Bldg.	3	BRoadway 1-8580	Chicago Serv. Dist., 4201 So. Pulaski Rd., Chicago 32, Ill.		
MINNEAPOLIS, MINN.	500 Stinson Blvd.	13	GRanville 7286	500 Stinson Blvd.	13	GRanville 7286
NEWARK, N. J.	744 Broad St., Room 606	2	MArket 3-3953	133 Boyd St.	3	BIgelow 3-4500
NEW HAVEN, CONN.	185 Church St.	10	LOcust 2-9828	Boston Serv. Dist., 50 Industrial Place (Newton Upper Falls 64, Mass.)		
NEW ORLEANS, LA.	4800 River Rd.	21	CEdar 6421	4800 River Rd.	21	CEdar 6421
NEW YORK, N. Y.	570 Lexington Ave.	22	PLaza 5-6300	N. Y. Serv., Dist., 75-11 Woodhaven Blvd., Glendale 27, N. Y.		
OAKLAND, CALIF.	999 – 98th Ave.	3	LOckhaven 9-3422	999 – 98th Ave.	3	LOckhaven 9-3422
PHILADELPHIA, PA.	1405 Locust St.	2	KIngsley 5-3336	32nd & Walnut Sts.	4	EVerg'n 6-9600
PITTSBURGH, PA.	238 W. Carson St.	19	GRant 1-9050	238 W. Carson St.	19	GRant 1-9050
PORTLAND, ORE.	2800 N. W. Nela St.	10	BEacon 2101	2800 N. W. Nela St.	10	BEacon 2101
RICHMOND, VA.	Southern States Bldg.	19	3-2893	P. O. Box 7427, Baltimore 27, Md.		
ROCK ISLAND, ILL.	111 Fourth Ave.	—	8-3405	111 Fourth Ave.	—	8-3405
SEATTLE, WASH.	202 Hoge Bldg.	4	SEneca 8300	Portland Serv. Dist., 2800 N. W. Nela St., Portland 10, Ore.		
ST. LOUIS, MO.	710 No. Twelfth Blvd.	1	CHestnut 8920	710 No. Twelfth Blvd.	1	CHestnut 8920
TAMPA, FLA.	505 Twiggs St.	2	2-0115	815 North 26th St.	1	4-4174

In addition to the Sales District Headquarters cities listed above, G-E Lamp salesmen are resident in 79 other cities. Consult your telephone directory under General Electric Company Lamp Division.

General Offices: Nela Park, Cleveland 12, Ohio

LARGE LAMP DEPARTMENT

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