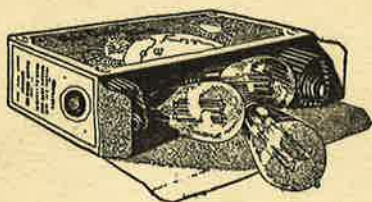


EDISON MAZDA
AND GEM
INCANDESCENT LAMPS

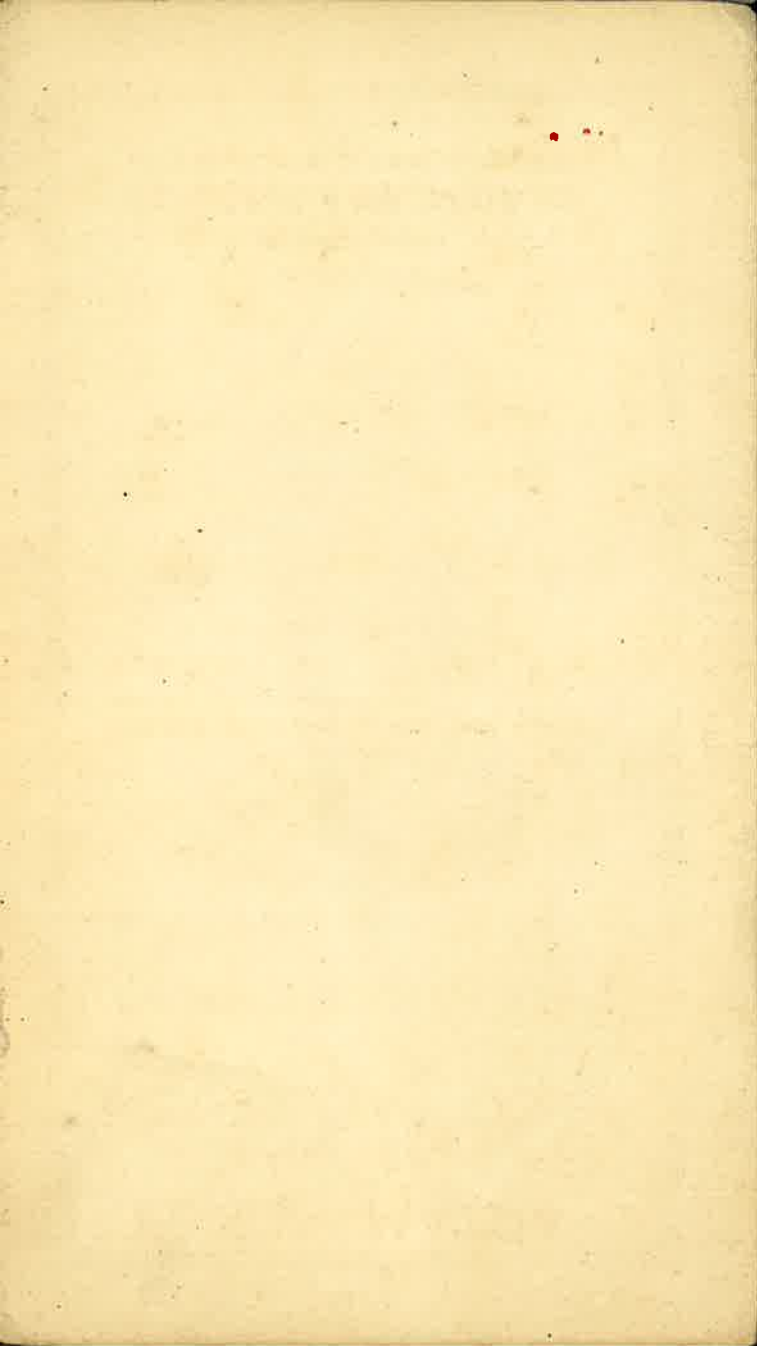


"Buy them by the Carton"

JANUARY 1, 1916

EDISON LAMP WORKS
OF GENERAL ELECTRIC COMPANY

Superseding Sept. 1, 1915

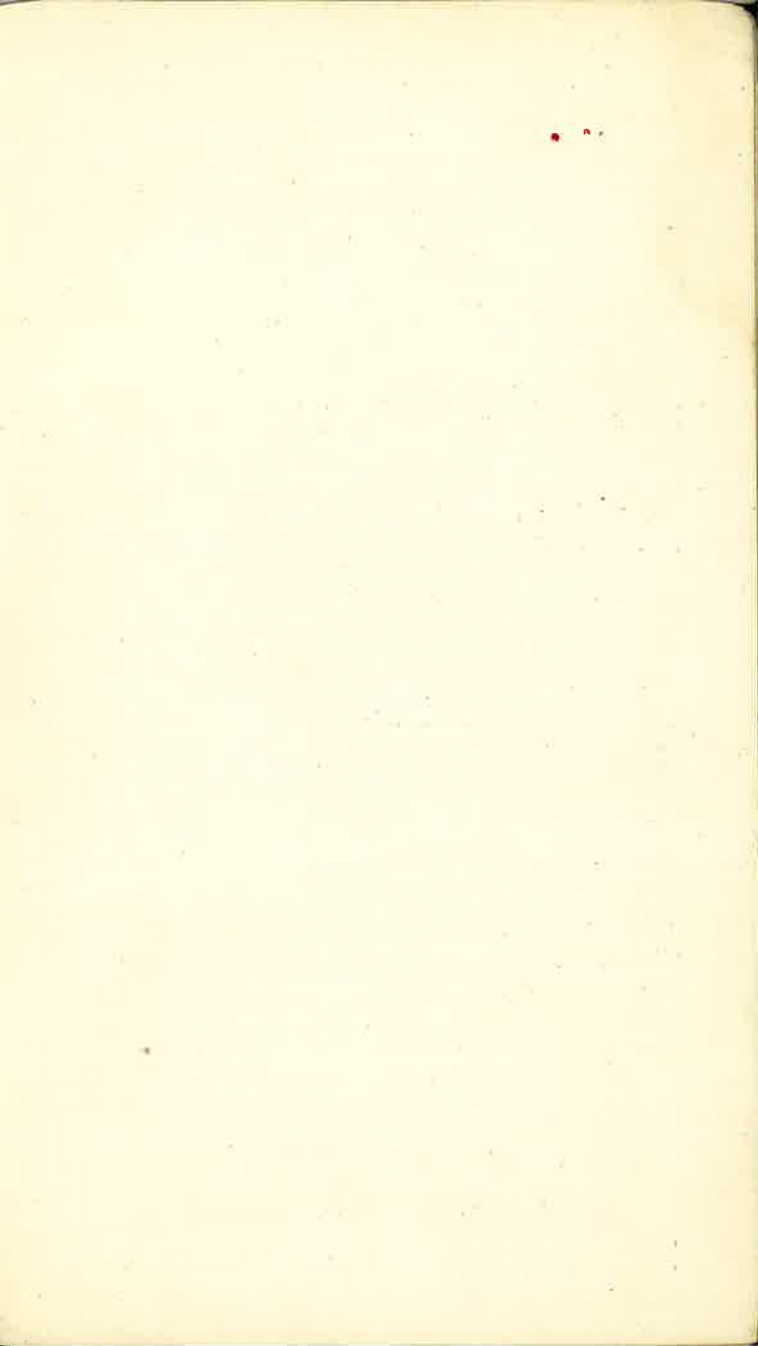


EDISON MAZDA AND GEM INCANDESCENT LAMPS

Bold face type indicates changes and additions
since last issue.

JANUARY 1, 1916

EDISON LAMP WORKS
OF GENERAL ELECTRIC COMPANY



EDISON LAMP WORKS OF GENERAL ELECTRIC COMPANY

GENERAL SALES OFFICE, *HARRISON, N. J.

SALES OFFICE (address nearest office):

- | | |
|---|---|
| <p>*ATLANTA, GA., Third National Bank Building.
BALTIMORE, MD., Munsey Building.
BIRMINGHAM, ALA., Brown-Marx Building.
*BOSTON, MASS., 84 State Street.
BUFFALO, N. Y., Electric Building.
BUTTE, MONT., Electric Building.
CHARLESTON, W. VA., Charleston National Bank Building.
CHARLOTTE, N. C., Commercial National Bank Building.
CHATTANOOGA, TENN., James Building.
*CHICAGO, ILL., Monadnock Building.
*CINCINNATI, OHIO, Provident Bank Building.
CLEVELAND, OHIO, Illuminating Building.
COLUMBUS, OHIO, Columbus Savings & Trust Building.
DAYTON, OHIO, Schwind Building.
*DENVER, COLO., First National Bank Building.
DES MOINES, IOWA, Hippee Building.
DETROIT, MICH., Dime Savings Bank Building.
DULUTH, MINN., Fidelity Building.
ELMIRA, N. Y., Hulett Building.
ERIE, PA., Marine National Bank Building.
FT. WAYNE, IND., Ft. Wayne Electric Works.
INDIANAPOLIS, IND., Traction Terminal Building.
JACKSONVILLE, FLA., Heard National Bank Building.
JOPLIN, MO., Miners' Bank Building.
*KANSAS CITY, MO., Dwight Building.
KNOXVILLE, TENN., Bank & Trust Building.
*LOS ANGELES, CAL., Corporation Building, 724 S. Spring Street.
LOUISVILLE, KY., Starks Building.
MEMPHIS, TENN., Randolph Building.
MILWAUKEE, WIS., Public Service Building.
*MINNEAPOLIS, MINN., 410 Third Avenue, North.</p> | <p>NASHVILLE, Tenn., Stahlman Building.
NEW HAVEN, CONN., Second National Bank Building.
*NEW ORLEANS, LA., Maison-Blanche Building.
*NEW YORK, N. Y., 30 Church Street.
NIAGARA FALLS, N. Y., Gluck Building.
OMAHA, NEB., Union Pacific Building.
*PHILADELPHIA, PA., Wither-
spoon Building.
*PITTSBURGH, PA., Oliver Building.
*PORTLAND, ORE., Electric Building.
*PROVIDENCE, R. I., Turks Head Building.
RICHMOND, VA., Virginia Railway and Power Building.
ROCHESTER, N. Y., Granite Building.
*SALT LAKE CITY, UTAH, Newhouse Building.
*SAN FRANCISCO, CAL., Rialto Building.
SCHENECTADY, N. Y., G. E. Works.
SEATTLE, WASH., Colman Building.
SPOKANE, WASH., Paulsen Building.
SPRINGFIELD, MASS., Massachusetts Mutual Building.
*ST. LOUIS, MO., Pierce Building.
SYRACUSE, N. Y., Onondaga County Savings Bank Building.
TOLEDO, OHIO, Spitzer Building.
WASHINGTON, D. C., Evans Building.
YOUNGSTOWN, OHIO, Wick Building.</p> |
|---|---|

For Texas, Oklahoma and Arizona business, refer to SOUTHWEST GENERAL ELECTRIC COMPANY (formerly Hobson Electric Co.).
DALLAS, TEXAS, 1701 N. Market Street.
EL PASO, TEXAS, 500 San Francisco Street.
HOUSTON, TEXAS, Third and Washington Streets.
OKLAHOMA CITY, OKLA., Insurance Building.

* Stock of lamps at these points.

EDISON LAMP FACTORIES

HARRISON, N. J.
EAST BOSTON, MASS.
FT. WAYNE, IND.

NEWARK, N. J.
LYNN, MASS.
AMPERE, N. J.

INSTRUCTIONS FOR ORDERING LAMPS

In order to facilitate the work of our office and to avoid misinterpretation of orders we would request that customers mention the following facts on each order:

1. **QUANTITY** (number of lamps desired).
2. **SIZE OF LAMPS** (in watts, whether 40 watt, 60 watt, etc. In ordering street series lamps give amperes and candle-power).
3. **CLASS** (for example, MAZDA).
4. **CIRCUIT VOLTAGE** (voltage at the lamp socket).
5. **STYLE AND SIZE OF BULB** (for example, S-19, G-25, etc.).
6. **FINISH OF BULB** (Clear, Bowl Frosted, or all Frosted. If colored lamps are desired, state color and whether lamps are to be superficially colored or made of natural colored glass).
7. **STYLE OF BASE** (for example, Style 100, for Medium Screw Sockets; Style 400, for Mogul Screw Sockets, etc. If a lamp is scheduled as being supplied with either skirted or unskirted base, the order should distinctly specify which is desired).

Order Standard Packages

When ordering lamps, customers should bear in mind that the Manufacturer stores large lamps in standard package quantities. An order for less than standard package quantities incurs delays and needless expense on account of repacking which necessarily has to be done in order to supply other than standard quantities.

It is also to the customer's advantage to adhere to regular lamps listed in the schedules. The large variety of lamps and voltage ranges which are listed should permit the selection of lamps that will give satisfactory results under any conditions.

Whenever it becomes necessary to order special lamps, the Manufacturer reserves the right to fill all such orders either short or in excess of the exact quantity ordered within the limits of 10 per cent. This is necessary on account of the fact that it is impossible to always produce an exact quantity of any special lamp.

If the above directions are carefully followed when orders are placed, needless errors and delays will be avoided.

DEFINITIONS

TERMS USED IN THE INCANDESCENT LAMP INDUSTRY

Purchaser

The term "Purchaser" is intended to mean an individual, firm or corporation such as a Central Station Lighting Company, Street Railway Company, Steam Railroad Company, Steamship Line or Isolated Plant purchasing lamps for use on lighting circuits located in buildings or on property owned, occupied or leased by it or on circuits supplied with current by it exclusively.

Agent

The term "Agent" is intended to mean an individual, firm or corporation engaged in selling incandescent lamps for the Company.

Domestic Territory

Domestic territory is considered to embrace the United States, its territories and dependencies, including the Hawaiian Islands and the Panama Canal Zone but not to include Porto Rico and the Philippine Islands.

Future Delivery Contracts

The term "Future Delivery Contract" refers to a contract wherein the purchaser agrees to purchase lamps from us over a period of time not more than one year; shipments to be made as ordered.

Standard Package

The term "Standard Package" is an arbitrarily established quantity of lamps considered as a unit for convenience in packing and shipping large and miniature lamps. In the case of large style lamps, it is also used as a unit for the purpose of determining discounts, and consists of the number of lamps given as the standard package quantity in each schedule.

Unit Package

The term "Unit Package" is an arbitrarily established quantity of lamps, considered as a unit for convenience in making up a standard package or in handling, and in the case of miniature MAZDA lamps it is also used as a unit for the purpose of determining discounts, and consists of the number of lamps given as the unit package quantity in each schedule.

Class

There are two classes of lamps referred to in these schedules; lamps with specially treated metallized carbon filaments and lamps with metal filaments. GEM is a trade mark of the General Electric Company applied to metallized carbon filament lamps manufactured by the General Electric Company. MAZDA is a trade mark applied to those metal filament lamps in the construction of which the manufacturer receives the benefit of the advice and research of the Research Laboratories at Schenectady.

Style

Lamps are divided into two styles, "Large Style" and "Miniature Style," depending upon the sales rules under which they are sold.

Style of Base

The term "Style of Base" refers entirely to the socket in which the base will fit. For example, the Medium Screw Bases (Style 100) fit the Medium Screw Socket, formerly known as "Standard Edison Socket."

Style numbers are used in this way to avoid confusion, to permit orders for bases which will fit certain sockets and to prevent lamps being ordered with bases other than those regularly used on the lamps.

DEFINITIONS (Cont'd)

Adapters

An adapter is an appliance to allow a lamp fitted with one style of base to be used in another style of socket. For example, lamps fitted with medium screw base if used with the proper adapter can be burned in a T-H socket.

Socket Extension

A socket extension is an appliance used to change the position of a lamp relative to its reflector.

Type

The term "Type" refers to the shape of the bulb. For example, "Straight-Side type," are those lamps having straight-side bulbs such as the S-19 or S-21. "Round type," those lamps having round bulbs such as G-18½ or G-25.

Size of Bulb

The "Size of Bulb" is the diameter of the bulb expressed in eighths of an inch and is always used in conjunction with the letter designating the type of bulb, such as the S-19; the "S" indicating that the bulb is a straight-side bulb and the "19" indicating that the bulb is 19/8ths of an inch in diameter, or the G-25 bulb, the "G" indicating a round (globular) bulb and the "25" indicating that the bulb is 25/8ths of an inch in diameter.

Over-All Length

The "Over-All Length" is the length of a lamp from the cap or contact point of base to the end of the tip.

Voltage Range

The "Voltage Range" is the total range of voltage for which lamps can be ordered. Lamps of each individual voltage included within this range are manufactured.

Size of Lamp

The "Size of Lamp" is usually expressed in watts, such as 25 watt lamps, 40 watt lamps, etc. The size is at times expressed in candle-power as in the case of street series and miniature lamps.

Efficiency

The "Efficiency" expressed in watts per candle is the numerical figure obtained by dividing the watts consumed by a lamp by the candle-power it gives. The lower the watts per candle the higher the efficiency, for example: 1.10 watts per candle is a higher efficiency than 1.17 watts per candle. Unless otherwise specified, the watts per candle refer to the watts per mean horizontal candle-power.

Frosting

Frosted lamps are those having the outside surface of the bulb roughened by a sand-blast or acid process so that it is no longer transparent, but is translucent. "All frosted" lamps are those which have the bulb entirely frosted from base to tip. "Bowl frosted" lamps are those which have the bulb frosted from the tip to the maximum diameter of the bulb.

"Bull's Eye frosted" lamps are those which have the bulb all frosted except a clear round spot, about two inches in diameter, usually on the side of the bulb at the point of maximum diameter.

DEFINITIONS (Cont'd)

Natural Color

Natural colored lamps are those having bulbs made of colored glass.

Superficial Color

Superficially colored lamps are those having clear glass bulbs which have been coated with a coloring material.

Etching

The term "Etching" refers to letters, numbers or designs that may be put on a lamp by acid or sand-blast process.

Regular Lamps

Regular lamps are only those lamps of standardized construction listed in the lamp price schedules, and cover both large and miniature lamps.

Special Lamps

Special lamps are those lamps having a combination of bulb and watts, voltage, base, or watts per candle that are not listed in the lamp price schedules or are of special construction.

Standard Lamps

Standard lamps are those lamps which have been seasoned and calibrated for use in photometry.

Light Center Length

The Light Center Length is the distance from the center of the filament to the end or cap contact point of the screw base.

Focus Length

The Focus Length is the distance from the center of the filament to the edge of the shell of the base adjacent to the bulb. It should be at least $\frac{1}{16}$ of an inch less than the focal length of the reflector with which it is to be used.

PRICE SCHEDULE—EXTRA CHARGES

January 1, 1916

All extra percentage charges shall be figured on the basic list price of the clear lamps.

Tipless Lamps

The prices given in schedules cover lamps with a tip unless otherwise indicated; for tipless lamps the additional charge is 10 per cent on GEM and 20 per cent on MAZDA.

For anchoring filaments to the bulb in GEM lamps, except in the case of such lamps as are regularly standardized with bulb anchored filaments, an additional charge of \$0.03 list for each anchor shall be made.

Frosted Lamps

The prices for frosted lamps cover only lamps either bowl frosted or all frosted, except where Bull's Eye frosting is specifically mentioned. The prices of any lamps with special frosting may be obtained on application.

Colored Lamps

For superficial coloring, excepting opal add 15 per cent to list price of clear lamps. For superficial opal coloring (opal dipping) a lamp, the list additional charge to the price of the lamp is the same as the list additional charge for frosting the lamp. When 10,000 or more of any one color of superficially colored lamps, or 10,000 or more frosted lamps (not including a combination of the two) are ordered at one time, the additional charges are two thirds the regular charges. Superficially colored MAZDA C lamps are not recommended. For natural colored lamps add the following percentage charges to the price of clear lamps.

	MAZDA and GEM Lamps (Except S-14 and G-16½ Bulbs)	MAZDA and GEM Lamps (S-14 and G-16½ Bulbs)
Green or Blue.....	50%	25%
Purple.....	75%	35%
Ruby or Opal.....	100%	50%
Amber or Canary.....	150%	60%

Bases

The prices in each schedule cover only lamps fitted with the base or bases stated therein. The price of lamps fitted with other bases may be obtained on application.

Lamps regularly fitted with Medium Screw Unskirted Base, if fitted with Medium Screw Skirted Base, will take an additional charge of \$0.10 to list prices.

There shall be no reduction in the price of lamps which are regularly based when furnished unbased.

Etching Letters

The following charges for etching letters or designs on lamps are net and subject to no discount.

Class of Lamp	Size in Watts (For Street Series Lamps, Size in Candle-Power)	Net Price of Etching per Lamp
MAZDA.....	50 or less	½c.
MAZDA.....	Over 50, to and including 80	¾c.
MAZDA.....	Over 80, to and including 150	1c.
MAZDA.....	Over 150, to and including 250	1¼c.
MAZDA.....	Over 250	1½c.
GEM.....	All sizes	¼c.

PRICE SCHEDULE—EXTRA CHARGES (Cont'd)

January 1, 1915

The net price of etching letters or designs on lamps given on the preceding page applies only to the following:

The area to be etched on a lamp may be occupied by a standard design made up of heavy face Gothic letters, such letters not to be less than $\frac{3}{32}$ in. nor more than $\frac{5}{8}$ in. in height. The design or letters may be etched any place on the side of the bulb between the maximum diameter and base, but on MAZDA lamps it must not be nearer to the base than the MAZDA sand-blasted design. The etching area of designs to be placed on the side of the bulb shall not be greater than that given on the following table:

Size of Bulb	ETCHED AREA TO BE NOT GREATER THAN	
	Length in In.	Height in In.
S-14 up to S-17	1	$\frac{1}{2}$
S-17 up to S-21	$1\frac{1}{2}$	$\frac{3}{4}$
S-21 up to S-30	$1\frac{3}{4}$	1
S-30 up to S-40	$2\frac{1}{2}$	$1\frac{1}{4}$
S-40 and over	$2\frac{1}{2}$	$1\frac{1}{4}$
G-18½ up to G-25	$1\frac{1}{2}$	$\frac{1}{2}$
G-25 up to G-30	$1\frac{3}{4}$	$\frac{3}{4}$
G-30 up to G-40	$2\frac{1}{4}$	1
G-40 and over	$2\frac{1}{2}$	1
T- 8 up to T-10	$\frac{3}{4}$	$\frac{1}{2}$
T-10 up to T-14	1	$\frac{1}{2}$
T-14 and over	$1\frac{1}{4}$	1

Tip etching must be limited to a design or lettering made up of heavy face Gothic letters, as given above, design or lettering having a diameter not greater than $1\frac{1}{8}$ in. for a lamp whose bulb is $3\frac{1}{8}$ in. or smaller diameter, and limited to a diameter of 2 in. for larger bulbs.

The additional charge for any etching not in accordance with the above may be obtained on application.

Special Lamps

Any lamp requiring a change in construction from the standard, such as shape of bulb, number of loops in filament, number of anchors, wattage, voltage, etc., will take a special price, which may be obtained upon application.

As it is impossible to always produce an exact quantity of any special lamps ordered, or of any lamps to be made tipless (when listed as tipped), or of any lamps to be furnished with natural colored bulbs, all such orders may be filled either short or in excess, within the limits of 10 per cent, and not more than two lamps short or excess on orders for 20 lamps or less.

LAMP PRICE SCHEDULE T-1

MAZDA CLASS—LARGE STYLE—STRAIGHT SIDE AND PEAR-SHAPE TYPES

January 1, 1916

Fitted with Medium Screw Base (Style 100), or Mogul Screw Base (Style 400), as indicated.

Volts	Size of Lamp in Watts	Efficiency W.P.C.	Type and Size Bulb	Diam. Bulb, Incher	Max. Over All Length, Inches	Base Regularly Supplied	Standard Package Quantity	LIST PRICE	
								Clear	Frosted
STRAIGHT SIDE									
105 to 125	10	1.30	S-17	2½	4½	Med. screw	100	\$0.27	\$0.30
	15	1.15							
	20	1.10	S-19	2¾	5¼	Med. screw	100	.27	.30
	25	1.05							
	40	1.03	S-21	2⅝	5½	Med. screw	100	.36	.40
	60	1.00							
100	0.95	S-30	3¾	7½	Med. sc. sk.	24	.65	.72	
†PEAR-SHAPE									
105 to 125	100	*1.00	PS-25	3½	7½	Med. screw	24	\$1.00	\$1.05
	200	*0.90	PS-30	3¾	8¾	Med. sc. sk.	24	2.00	2.07
	300	*0.82	PS-35	4¾	9¾	†Mog. screw	24	3.00	3.10
	400	*0.82	PS-40	5	10	Mog. screw	12	4.00	4.15
	500	*0.78	PS-40	5	10	Mog. screw	12	4.50	4.65
	750	*0.74	PS-52	6½	13¾	Mog. sc. sk.	8	6.00	6.25
	1000	*0.70	PS-52	6½	13¾	Mog. sc. sk.	8	7.00	7.25

*Watts per spherical candle-power.

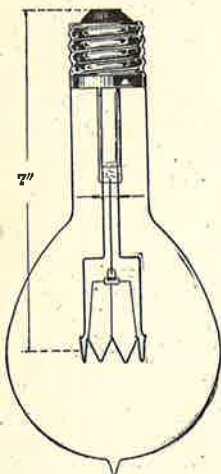
†These are MAZDA C lamps and are not recommended "all frosted." Where frosting is necessary, bowl frosting is to be preferred and it is particularly recommended for lamps of 300 watts or less which are to be used in interior lighting where the glare would otherwise be objectionable. Orders should specifically state if lamps are to be burned in other than pendent position.

†Mogul Screw Base (Style 400) regularly supplied and recommended. Medium Screw Skirted Base (Style 100) can be supplied at same price when specially ordered but is not recommended and attention is called to the fact that it is contrary to the Underwriters' Rules to use MAZDA C lamps of this wattage in Medium Screw Sockets. With the Medium Screw Skirted Base the maximum overall length of this lamp is 10¼ inches, and the light center length is 7½ inches.

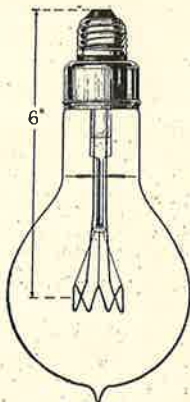
Standard package discounts on all large style MAZDA lamps can be given only on orders for exact standard package quantities or multiples thereof. It is allowable, however, to combine in one standard package all sizes of large style MAZDA lamps having the same standard package quantity. Such lamps may be of different voltages and finish of bulb.

SCHEDULE T-1

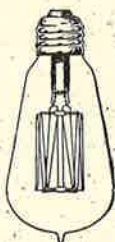
(LAMPS ¼ SCALE)



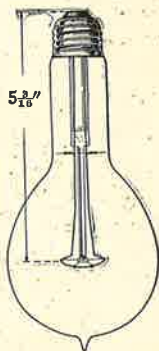
PS-35
300 WATTS
105-125 VOLTS



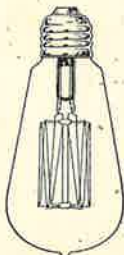
PS-30
200 WATTS
105-125 VOLTS



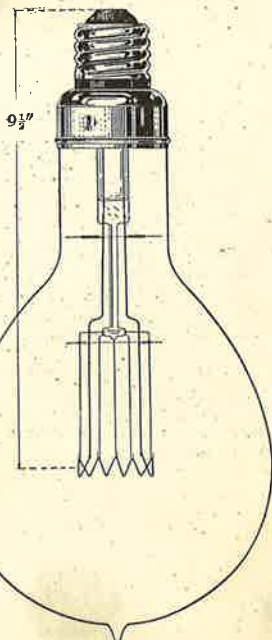
S-17
10, 15 AND 20
WATTS
105-125
VOLTS



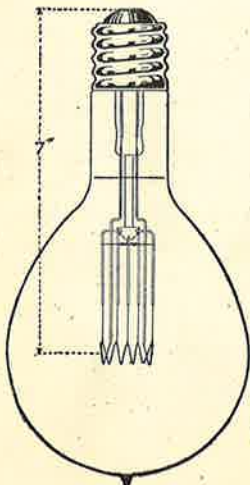
PS-25
100 WATTS
105-125 VOLTS



S-19
25 AND 40
WATTS
105-125 VOLTS



PS-52
750 AND 1000 WATTS
105-125 VOLTS



PS-40
400 AND 500 WATTS
105-125 VOLTS



S-21
60 WATTS
105-125 VOLTS

LAMP PRICE SCHEDULE T-1 (Cont'd)

MAZDA CLASS—LARGE STYLE—STRAIGHT SIDE AND
PEAR-SHAPE TYPES

September 1, 1915

Fitted with Medium Screw (Style 100), or Mogul Screw Base (Style 400)
as indicated.

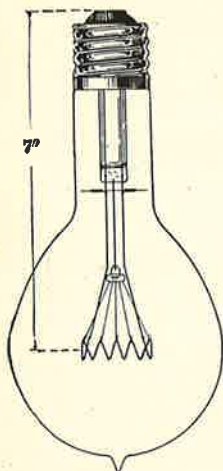
Volts	Size of Lamp in Watts	Efficiency W.P.C.	Type and Size Bulb	Diam. Bulb, Inches	Maximum Over All Length, Inches	Base Regularly Supplied	Standard Package Quantity	LIST PRICE	
								Clear	Frosted
STRAIGHT SIDE									
220 to 250	25	1.20	S-19	2 $\frac{3}{8}$	5 $\frac{1}{4}$	Med. screw	100	\$0.33	\$0.36
	40	1.12	S-19	2 $\frac{3}{8}$	5 $\frac{1}{4}$	Med. screw	100	.33	.36
	60	1.10	S-21	2 $\frac{5}{8}$	5 $\frac{7}{8}$	Med. screw	100	.45	.49
	100	1.00	S-30	3 $\frac{3}{4}$	7 $\frac{7}{8}$	Med. sc. sk.	24	.80	.87
	150	1.00	S-35	4 $\frac{3}{8}$	8 $\frac{3}{4}$	Med. sc. sk.	24	1.20	1.30
	250	0.95	S-40	5	10	Med. sc. sk.	12	2.00	2.15
†PEAR-SHAPE									
220 to 250	200	*1.00	PS-30	3 $\frac{3}{4}$	8 $\frac{3}{8}$	Med. sc. sk.	24	\$2.20	\$2.27
	300	*0.92	PS-35	4 $\frac{3}{8}$	9 $\frac{3}{4}$	Mog. screw	24	3.60	3.70
	400	*0.90	PS-40	5	10	Mog. screw	12	4.80	4.95
	500	*0.85	PS-40	5	10	Mog. screw	12	5.40	5.55
	750	*0.82	PS-52	6 $\frac{1}{2}$	13 $\frac{3}{8}$	Mog. sc. sk.	8	7.20	7.45
	1000	*0.78	PS-52	6 $\frac{1}{2}$	13 $\frac{3}{8}$	Mog. sc. sk.	8	8.40	8.65

* Watts per spherical candle-power.

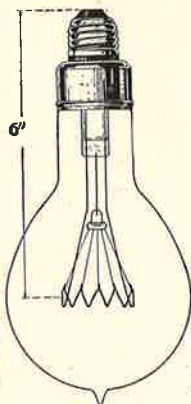
† These are MAZDA C lamps and are not recommended "all frosted." Where frosting is necessary, bowl frosting is to be preferred and it is particularly recommended for lamps of 300 watts or less which are to be used in interior lighting where the glare would otherwise be objectionable. Orders should specifically state if lamps are to be burned in other than pendent position.

Standard package discounts on all large style MAZDA lamps can be given only on orders for exact standard package quantities or multiples thereof. It is allowable, however, to combine in one standard package all sizes of large style MAZDA lamps having the same standard package quantity. Such lamps may be of different voltages and finish of bulb.

Page 11
SCHEDULE T-1 (Cont'd)
 (LAMPS $\frac{1}{4}$ SCALE)



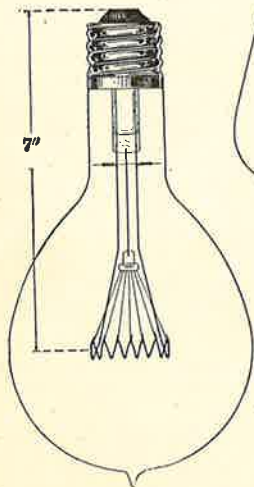
PS-35
 300 WATTS
 220-250 VOLTS



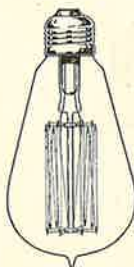
PS-30
 200 WATTS
 220-250 VOLTS



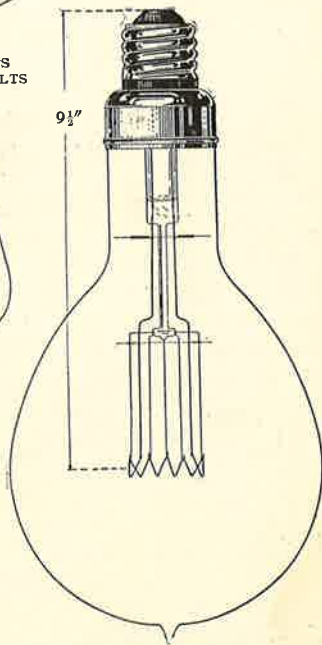
S-19
 25 AND 40
 WATTS
 220-250 VOLTS



PS-40
 400 AND 500 WATTS
 220-250 VOLTS



S-21
 60 WATTS
 220-250
 VOLTS



PS-52
 750 and 1000 WATTS
 220-250 VOLTS

LAMP PRICE SCHEDULE T-2

MAZDA CLASS—LARGE STYLE—ROUND AND TUBULAR TYPES

September 1, 1915

Fitted with Medium Screw Base (Style 100) as indicated.

Volts	Size of Lamp in Watts	Efficiency W.P.C.	Type and Size Bulb	Diam. Bulb, Inches	Maximum Over All Length, Inches	Base Regularly Supplied	Standard Package Quantity	LIST PRICE	
								Clear	Frosted
ROUND									
105 to 125 {	15	1.15	*G-25	3 1/8	4 3/4	Med. screw	50	\$0.45	\$0.50
	25	1.05	*G-25						
	40	1.03	G-25	3 3/4	5 1/2	Med. screw	24	.65	.72
	60	1.00	G-30						
	100	0.95	G-35							4 3/8	7 1/4	Med. sc. sk.	24	.95	1.05
220 to 250 {	25	1.20	G-25	3 1/8	4 3/4	Med. screw	50	.55	.60
	40	1.12	G-25	3 1/8	4 3/4	Med. screw	50	.55	.60
TUBULAR									
105 to 125 {	25	1.05	T-10	1 1/4	5 7/8	Med. screw	100	\$0.50	\$0.55
	25 to 40 }	....	T- 8	1	12	Med. screw	50	.95	1.05
ROUND—STEREOPTICON									
105 to 125 {	100	....	G-30	3 3/4	5 1/2	Med. screw	24	\$1.35	{ Bull's Eye \$1.79
	+250	....	G-30	3 3/4	5 1/2	Med. screw	24	2.70	

* The 15 and 25 watt 105 to 125 volt round bulb MAZDA lamps are regularly supplied in G-25 bulb. These lamps can be supplied in G-18 1/2 bulb (Standard Package Quantity 100) at \$0.45 clear and \$0.48 frosted, but the 25 watt G-18 1/2 bulb lamp is not recommended.

† MAZDA C lamp. This lamp may be supplied without extra charge fitted with Unskirted Mogul Screw Base (Style 400), giving a light center length of 3 1/2 inches and a maximum overall length of 5 1/2 inches. Can be burned in any position except vertically, base up.

Standard package discounts on all large style MAZDA lamps can be given only on orders for exact standard package quantities or multiples thereof. It is allowable, however, to combine in one standard package all sizes of large style MAZDA lamps having the same standard package quantity. Such lamps may be of different voltages and finish of bulb.

SCHEDULE T-2

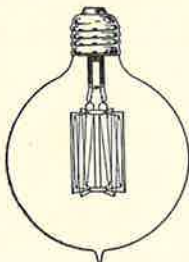
(LAMPS ¼ SCALE)



G-25
15, 25 AND 40
WATTS
105-125 VOLTS



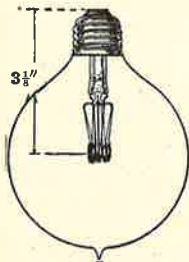
T-10
25 WATTS
105-125 VOLTS



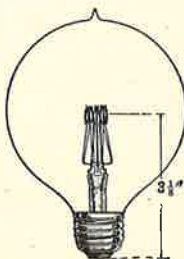
G-30
60 WATTS
105-125 VOLTS



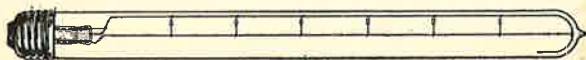
G-35
100 WATTS
105-125 VOLTS



G-30
100 WATTS STEREOPTICON
105-125 VOLTS



G-30
250 WATTS STEREOPTICON
105-125 VOLTS
CAN BE BURNED IN ANY
POSITION EXCEPT VERTICALLY,
BASE UP



T-8
25 AND 40 WATTS
105-125 VOLTS

LAMP PRICE SCHEDULE T-3 **MAZDA CLASS—LARGE STYLE—STRAIGHT SIDE TYPE**

January 1, 1916

Fitted with Medium Screw Base (Style 100) as indicated.

Volts	Size of Lamp in Watts	Efficiency W.P.C.	Type and Size Bulb	Diam. Bulb, Inches	Maximum Over All Length, Inches	Base Regularly Supplied	Standard Package Quantity	LIST PRICE	
								Clear	Frosted
STRAIGHT SIDE—SIGN									
10½ to 12½	2½	1.20 } 1.15 }	S-14	1¾	4	Med. screw	100	\$0.25	\$0.28
50 to 65	5	1.35	S-14	1¾	4	Med. screw	100	.27	.30
105 to 125	7½ } 10 }	1.50 } 1.35 }	S-14	1¾	4	Med. screw	100	.27	.30
STRAIGHT SIDE (MAZDA B COIL)									
105 to 125	25 } 40 } 60 }	.... .... ....	S-19 S-19 S-21	2¾ 2¾ 2¾	5¼ 5¼ 5½	Med. screw Med. screw Med. screw	50 50 50	\$0.32 .32 .41	\$0.35 .35 .45

Standard package discounts on all large style MAZDA lamps can be given only on orders for exact standard package quantities or multiples thereof. It is allowable, however, to combine in one standard package all sizes of large style MAZDA lamps having the same standard package quantity. Such lamps may be of different voltages and finish of bulb.

SCHEDULE T-3

(LAMPS $\frac{1}{4}$ SCALE)

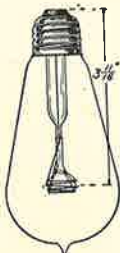


S-14
2½ AND
5 WATTS
10½-12½ VOLTS



S-14
5 WATTS,
50-65 VOLTS
7½ AND 10 WATTS,
105-125 VOLTS

SIGN LAMPS



S-19
25 AND 40 WATTS
105-125 VOLTS



S-21
60 WATTS
105-125 VOLTS

MAZDA B COIL LAMPS

LAMP PRICE SCHEDULE T-5 **MAZDA CLASS—LARGE STYLE—STRAIGHT SIDE TYPE** **FOR ELECTRIC STREET RAILWAY SERVICE**

April 1, 1915

Fitted with Medium Screw Base (Style 100)

Voltage Groups	Nominal Watts	Amperes	Efficiency W.P.C.	Type and Size Bulb	Diameter Bulb, Inches	Maximum Over All Length, Inches	Base Regularly Supplied	Standard Package Quantity	LIST PRICE	
									Clear	Frosted
105 } 110 } 115 }	23	0.214	1.11	S-19	2 3/8	5 1/4	Med. screw	100	\$0.27	\$0.30
120 } 125 } 130 }	36	0.342	1.09	S-19	2 3/8	5 1/4	Med. screw	100	.27	.30
	56	0.519	1.02	S-21	2 3/8	5 1/2	Med. screw	100	.36	.40
	94	0.863	0.97	S-24 1/2	3 1/8	7 1/8	Med. sc. sk.	50	.65	.72

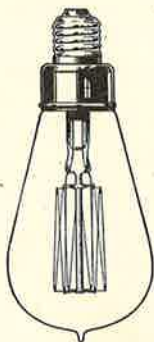
All the lamps listed above are selected for amperes and are labeled for use, five in series, on 525, 550, 575, 600, 625 and 650 volts. They are rated in the following voltage groups:

- 105 volts for use 5 in series on 525 volts.
- 110 volts for use 5 in series on 550 volts.
- 115 volts for use 5 in series on 575 volts.
- 120 volts for use 5 in series on 600 volts.
- 125 volts for use 5 in series on 625 volts.
- 130 volts for use 5 in series on 650 volts.

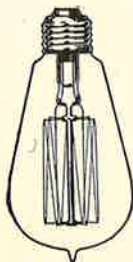
Standard package discounts on all large style MAZDA lamps can be given only on orders for exact standard package quantities or multiples thereof. It is allowable, however, to combine in one standard package all sizes of large style MAZDA lamps having the same standard package quantity. Such lamps may be of different voltages and finish of bulb.

SCHEDULE T-5

(LAMPS $\frac{1}{4}$ SCALE)



S-24 $\frac{1}{2}$
94 WATTS
105-130 VOLTS



S-21
56 WATTS
105-130 VOLTS



S-19
23 AND 36 WATTS
105-130 VOLTS

LAMP PRICE SCHEDULE T-6 **MAZDA C CLASS—LARGE STYLE—STRAIGHT SIDE AND PEAR-SHAPE TYPES**

FOR STREET SERIES SERVICE

January 1, 1916

* Fitted with Mogul Screw Base (Style 400)

Amperes	Nominal Rated Candle-Power	Average Volts	Type and Size Bulb	Diam. Bulb, Inches	Maximum Over All Length, Inches	Base Regularly Supplied	Standard Package Quantity	LIST PRICE	
								Clear	†Frosted
5.5	60	8.5	S-24½	3½	7¼	Mog. screw	50	\$1.00	\$1.05
	80	10.8	S-24½	3½	7¼	Mog. screw	50	1.20	1.25
	100	13.0	PS-35	4¾	9¾	Mog. screw	24	2.35	2.45
	250	29.7	PS-40	5	10	Mog. screw	12	4.00	4.15
	400	47.4							
6.6	60	7.1	S-24½	3½	7¼	Mog. screw	50	1.00	1.05
	80	9.1	S-24½	3½	7¼	Mog. screw	50	1.20	1.25
	100	10.9	PS-35	4¾	9¾	Mog. screw	24	2.35	2.45
	250	23.5	PS-40	5	10	Mog. screw	12	4.00	4.15
	400	37.1	PS-40	5	10	Mog. screw	12	5.00	5.15
7.5	60	6.4	S-24½	3½	7¼	Mog. screw	50	1.00	1.05
	80	8.0	S-24½	3½	7¼	Mog. screw	50	1.20	1.25
	100	9.6	PS-35	4¾	9¾	Mog. screw	24	2.35	2.45
	250	19.6	PS-40	5	10	Mog. screw	12	4.00	4.15
	400	30.5	PS-40	5	10	Mog. screw	12	5.00	5.15
15.0	400	13.2	PS-40	5	12½	Mog. sc. sk.	12	4.00	4.15
20.0	600	14.1	PS-40	5	12½	Mog. sc. sk.	12	5.00	5.15
	1000	22.3	PS-40	5	12½	Mog. sc. sk.	12	6.00	6.15

Orders for lamps of 250 c-p. and higher should specifically state if they are to be burned in other than pendent position.

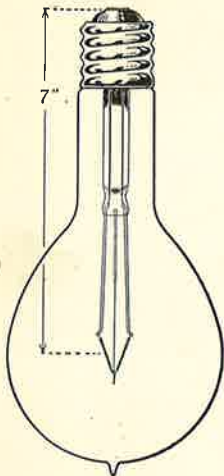
* Medium Screw Skirted Base (Style 100) also supplied at same price, except the 400, 600 and 1000 c-p. lamps, which are supplied only with Mogul Screw Skirted or Unskirted Base (Style 400) as indicated.

† These lamps are not recommended frosted. If frosted lamps are required, bowl frosted lamps are to be preferred.

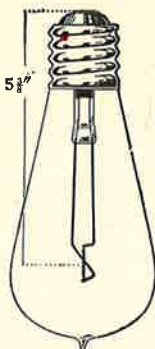
Standard package discounts on all large style MAZDA lamps can be given only on orders for exact standard package quantities or multiples thereof. It is allowable, however, to combine in one standard package all sizes of large style MAZDA lamps having the same standard package quantity. Such lamps may be of different voltages and finish of bulb.

SCHEDULE T-6

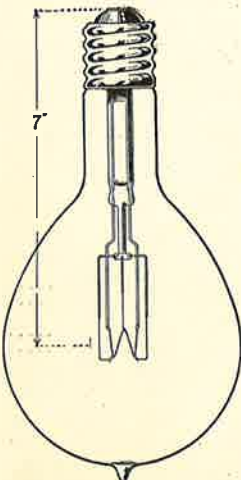
(ALL LAMPS $\frac{1}{4}$ SCALE)



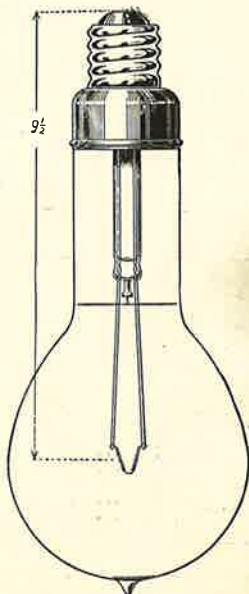
PS-35
250 C-P.
5.5, 6.6 AND 7.5 AMP.



S-24 $\frac{1}{2}$
60, 80 AND 100 C-P.
5.5, 6.6 AND 7.5 AMP.



PS-40
400 C-P.
5.5 AND 6.6 AMP.



PS-40
400 C-P.
15 AMP.
AND
600 C-P.
20 AMP

LAMP PRICE SCHEDULE T-7 **MAZDA CLASS—LARGE STYLE—STRAIGHT SIDE** **AND ROUND TYPES**

FOR TRAIN LIGHTING AND COMPENSATOR SERVICE

September 1, 1915

Fitted with Medium Screw (Style 100) or Mogul Screw Base (Style 400), as indicated.

Volts	Size of Lamp in Watts	Efficiency W.P.C.	Type and Size Bulb	Diam. Bulb, Inches	Maximum Over All Length, Inches	Base Regularly Supplied	Standard Package Quantity	LIST PRICE	
								Clear	Frosted

ROUND

25-34 and 50-65	10	1.17	G-18½	2½	3¾	Med. screw	100	\$0.36	\$0.39
	15	1.12							
	20	1.10							
	25	1.10							
	40	1.00	G-30	3¾	6¼	Med. sc. sk.	24	.65	.72
30-34 and 60-65	75	0.95	G-30	3¾	6¼	Med. sc. sk.	24	.75	.82

STRAIGHT SIDE

25-34 and 50-65	10	1.17	S-17	2½	4⅝	Med. screw	100	\$0.27	\$0.30
	15	1.12							
	20	1.10							
	25	1.10							
	40	1.00	S-19	2¾	5¼	Med. screw	100	.27	.30

† ROUND—LOCOMOTIVE HEADLIGHT

*5½&6	36	...	G-18½	2⅞	3¾	Med. screw	100	\$1.25	.....
	72	...	G-25	3⅞	4¾	Med. screw	50	1.50	.....
	108	...	G-30	3¾	5⅝	Mog. screw	24	1.75	.....
30-34	100	...	G-25	3⅞	4¾	Med. screw	50	1.50	.....
	150	...	G-25	3⅞	4¾	Med. screw	50	2.00	.....
	250	...	†G-30	3¾	5½	Med. screw	24	3.00	.....

* The 36, 72 and 108 watt lamps (nominal ratings) consume 6, 12 and 18 amperes respectively.

† MAZDA C lamps.

‡ Can be burned in any position except vertically, base up.

Standard package discounts on all large style MAZDA lamps can be given only on orders for exact standard package quantities or multiples thereof. It is allowable, however, to combine in one standard package all sizes of large style MAZDA lamps having the same standard package quantity. Such lamps may be of different voltages and finish of bulb.

SCHEDULE T-7

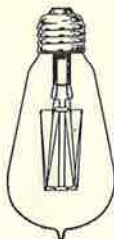
(LAMPS ¼ SCALE)



G-18 1/2
10, 15, 20 & 25 WATTS
25-34 & 50-65 VOLTS



S-17
10, 15 & 20 WATTS
25-34 & 50-65 VOLTS

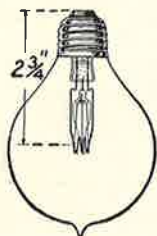


S-19
25 & 40 WATTS
25-34 & 50-65 VOLTS

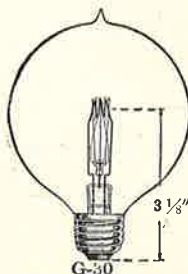


G-30
40 WATTS
25-34 & 50-65 VOLTS
75 WATTS
30-34 & 60-65 VOLTS

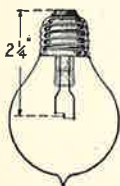
MAZDA C LOCOMOTIVE HEADLIGHT LAMPS



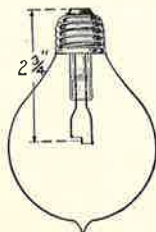
G-25
100 & 150 WATTS
30-34 VOLTS



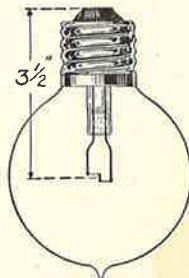
G-30
250 WATTS—30-34 VOLTS
CAN BE BURNED IN ANY POSITION
EXCEPT VERTICALLY, BASE UP



G-18 1/2.
36 watts.
5 1/2 & 6 volts.



G-25.
72 watts.
5 1/2 & 6 volts.



G-30.
108 watts.
5 1/2 & 6 volts.

LAMP PRICE SCHEDULE G-1

GEM CLASS—LARGE STYLE—STRAIGHT
SIDE AND ROUND TYPES

July 1, 1914

Fitted with Medium Screw Base (Style 100)

Volts	Size of Lamp in Watts	Efficiency W.P.C.	Type and Size Bulb	Diameter Bulb, Inches	Maximum Over All Length, Inches	Base Regularly Supplied	Standard Package Quantity	LIST PRICE	
								Clear	Frosted
STRAIGHT SIDE									
105 to 125	20	4.00	S-17	2½	4½	Med. screw	200	\$0.20	\$0.22½
	30	3.00							
	40	2.56	S-19	2¾	5½	Med. screw	200	.20	.22½
	50	2.50							
	60	2.50							
STRAIGHT SIDE—MILL TYPE									
105 to 125	60	2.6	S-19	2¾	5½	Med. screw	200	.20	.22½
ROUND									
105 to 125	50	2.5	G-25	3½	4¾	Med. screw	100	.25	.28

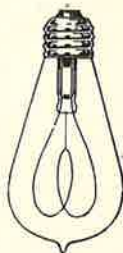
Standard package discounts on all large style GEM lamps can be given only on orders for exact standard package quantities or multiples thereof. It is allowable, however, to combine in one standard package all sizes of large style GEM lamps having the same standard package quantity. Such lamps may be of different voltage and finish of bulb.

SCHEDULE G-1

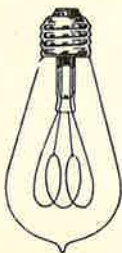
(ALL LAMPS $\frac{1}{4}$ SCALE)



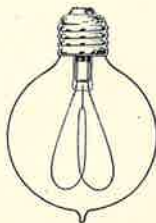
S-17
20 AND 30 WATTS



S-19
40, 50 AND 60 WATTS



MILL TYPE
S-19
60 WATTS



G-25
50 WATTS

DISCOUNT SCHEDULE

Effective only on purchases made on and after
September 1, 1915

* Net Value	Standard Package Quantities	Broken Package Quantities
WITHOUT CONTRACT TO ANYONE		
Any	10%	0%
UNDER CONTRACT FOR A QUANTITY OF LAMPS OF AGGREGATE NET VALUE* OF		
Less than \$150	10%	0%
\$150	17%	7%
\$300	21%	11%
\$600	24%	14%
\$1,200	27%	17%
\$2,500	29%	19%
\$5,000	31%	21%
\$10,000	33%	23%
\$20,000	34%	24%
\$30,000	35%	25%
\$50,000	36%	26%
\$100,000	37%	27%
\$150,000	38%	28%
\$225,000	39%	29%
\$300,000	40%	30%

* Exclusive of freight charges.

Provision is made for contracts on less than the \$150 basis in order that purchasers who may not be entitled to contract on the \$150 basis, but who may have reasonable ground for expecting an increase in business, may have the opportunity of getting the advantage of the maximum discount to which they would be entitled on their collective purchases.

No MAZDA or GEM lamps other than those of the brand specified in the contract to which these schedules are attached shall be considered in arriving at the price which the Purchaser agrees to pay for lamps purchased under said contract.

FREIGHT ALLOWANCES AND CHARGES TO PURCHASERS

April 1, 1914

1. All lamps listed in price schedules may be sold and billed to Purchasers f.o.b. point of shipment, with freight allowed, on shipments consisting of not less than one standard package, to points on or east of the Mississippi River, to all points in the States of Minnesota, Iowa and Missouri, and to all points on the Missouri River south of Sioux City, Iowa.

2. To all other points in Domestic territory except Alaska, Hawaiian Islands and Panama Canal Zone, actual freight on shipments consisting of not less than one standard package must be allowed and the net amount for each type of lamp in each respective State as given in the schedule of freight charges for other than free delivery points must be added to the net billing price of the lamps. Shipments to points in Alaska, Hawaiian Islands and Panama Canal Zone, are f.o.b. nearest point of export covered by the schedule, with the additional charges shown thereon for such points.

3. Lamps in less than standard package quantities for shipment to points in free delivery territory as given in Paragraph 1 shall be sold only f.o.b. the Manufacturer's place of business, storerooms or from those of their Agents, no allowance being made under any circumstances for either freight or express.

4. When lamps in broken package quantities are sold to any Purchaser for shipment to points in non-free delivery territory at prices higher than they would pay in standard package quantities, the net additional charge per lamp for delivery need not be made, no matter from what point shipment is made, except where the transportation charge is prepaid. Where the transportation is prepaid in non-free delivery territory, the additional net charge per lamp covering delivery must be made.

FREIGHT CHARGES

SCHEDULE FOR OTHER THAN FREE DELIVERY POINTS

April 1, 1915

Bulb	Standard Package Quantity	NET ADDITIONAL CHARGE PER LAMP FOR DELIVERY TO ANY POINT IN				
		1st Zone	2nd Zone	3rd Zone	4th Zone	5th Zone
		Ark., La.	Kan., Neb., No. Dak., So. Dak.	Okla., Tex.	Cal., Colo., Mont., N. Mex., Ore., Wash., Wyo.	Ariz., Idaho, Nev., Utah

MAZDA LAMPS

S-14	100	\$0.0014	\$0.0023	\$0.0028	\$0.0056	\$0.0084
S-17	100	.0017	.0028	.0034	.0068	.0102
S-19	100	.0021	.0035	.0042	.0084	.0126
S-21	100	.0023	.0038	.0046	.0092	.0138
S-24½	50	.0042	.0070	.0084	.0168	.0252
S-27½	50	.0047	.0078	.0094	.0188	.0282
S-30	24	.0072	.0120	.0144	.0288	.0432
S-35	24	.0085	.0142	.0170	.0340	.0510
S-40	12	.0132	.0220	.0264	.0528	.0792
G-18½	100	.0017	.0028	.0034	.0068	.0102
G-25	50	.0030	.0050	.0060	.0120	.0180
G-30	24	.0063	.0105	.0126	.0252	.0378
G-35	24	.0075	.0125	.0150	.0300	.0450
G-40	12	.0100	.0167	.0200	.0400	.0600
G-48	8	.0468	.0780	.0938	.1875	.2810
G-56	8	.0291	.0485	.0582	.1164	.1746
G-64	8	.0310	.0517	.0620	.1240	.1860
T-8	50	.0026	.0043	.0052	.0104	.0156
T-10	100	.0017	.0028	.0034	.0068	.0102
PS-25	24	.0063	.0105	.0126	.0252	.0378
PS-30	24	.0072	.0120	.0144	.0288	.0432
PS-35	24	.0085	.0142	.0170	.0340	.0510
PS-40	12	.0132	.0220	.0264	.0528	.0792
PS-52	8	.0291	.0485	.0582	.1164	.1746

GEM LAMPS

S-17, S-19, G-18½	200	\$0.0014	\$0.0023	\$0.0025	\$0.0050	\$0.0082
G-25	100	.0014	.0023	.0025	.0050	.0082

