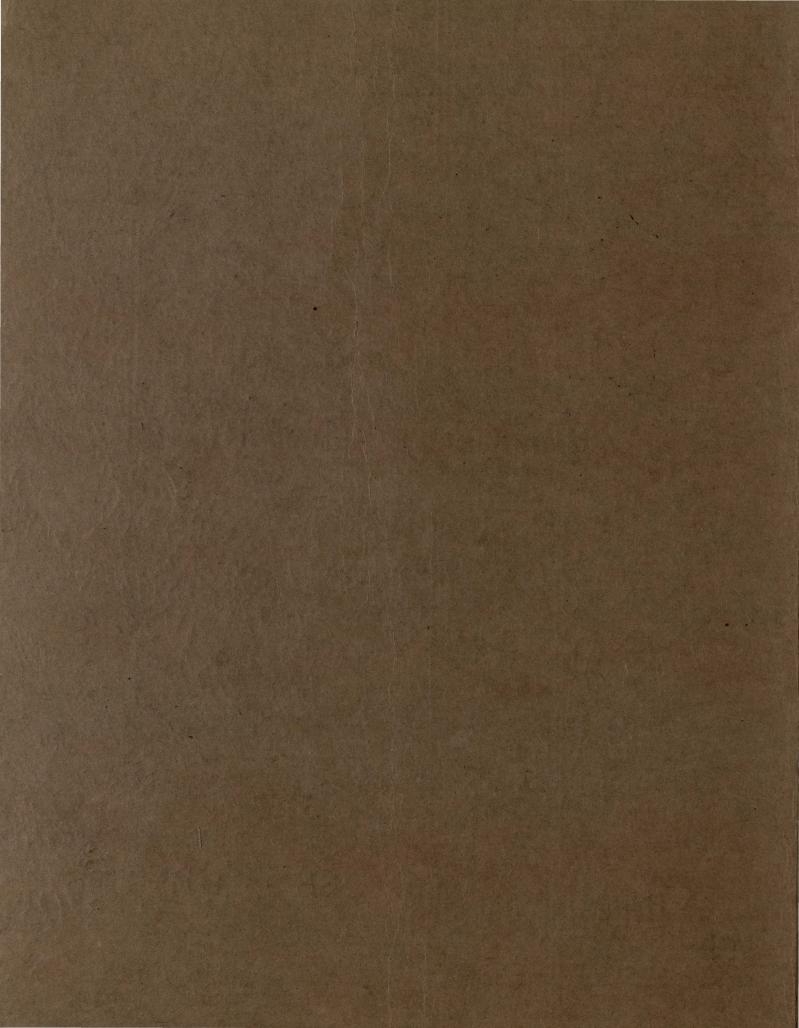


CATALOG D.P. 154

COMMERCIAL REQUIREMENTS



The DUPLEX LIGHTING SYSTEM

As Applied To

COMMERCIAL REQUIREMENTS

HE purpose of this book is to provide assistance to those who appreciate the value of good illumination, and are desirous of securing information by means of which this may be obtained through the Duplex Lighting System.

OF THE MILLER COMPANY

Meriden, Conn.

BOSTON 832 PARK SQUARE BUILDING NEW YORK 68-70 PARK PLACE CHICAGO
190 NORTH STATE STREET

PHILADELPHIA
16TH AND CHESTNUT STREETS

ENGLAND 30'35 DRURY LANE KINGSWAY, LONDON, W. C. 2

сорукіснт, 1926 т. м. со.

PRINTED IN U. S. A.

The Requirements of Good Illumination

HE EXTREME IMPORTANCE OF LIGHT becomes obvious when we consider that without light, the most important of the five human senses—SIGHT—is lost. On the other hand, the manner in which light is used determines the amount of service our eyes may perform. And through improper distribution of light, our eyes may become impaired and defective. Close your eyes, and you will appreciate how much you depend upon light. Look at the sun and you realize how damaging a glaring light may be!

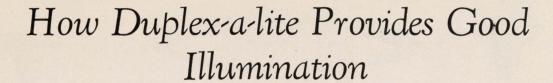
We see an object by the light reflected from its surface to the retina or sensitive plate of our eye. The pupil through which all light passes to the retina may be compared to the shutter of a camera, controlling by its breadth the amount of light entering the eye—that we may enjoy the clearest vision in varying degrees of intensity, while protecting the delicate organism from the strain of too bright a light. The breadth of the pupil is automatically controlled by the brightest light within range of vision. If we increase the brightness of source within range of vision, to increase the light on our work, the breadth of pupil is automatically reduced so that actually no more and possibly less light from the work enters the eye than before. By this action, we not only fail to improve vision, but set up a cause for strain on the eye due to increased contrast in brightness or glare.

Good illumination is the result of the correct use of the proper amount of light. Progress toward perfection of lighting installations parallels the development of ability to control light distribution. Intensity or quantity of light is dependent upon the type of lamp and current consumption. Correct use of light depends upon the control and direction of light to secure even distribution, with an absence of contrast in brightness yet with just enough shadow to define the form and distance of objects.

Having well-controlled light, we can read comfortably with three or thirty foot candles. While quantity or intensity of light determines the speed of vision its correct distribution not only assures accuracy of vision but enables the eye to hold its efficiency over a continuous period of time.

Therefore, the efficiency of a lighting system should not be measured by total light output of any special fixture. Rather, it should be measured by the ability of the eye to function. Low intensity with good distribution is often better than high intensity when accompanied by increased surface brightness of the light source.

No system of lighting will long maintain its initial usefulness unless it is kept clean. And, obviously, the cost of regular maintenance of a good lighting system is more than offset by the continued health and unimpaired efficiency of employees and by the absence of waste of electric current.



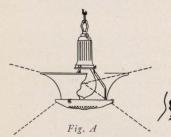
HE DUPLEX-A-LITE was designed to conform to the theory of best lighting practice based on the law of optics, and for the particular use of the most efficient of modern lamps in all sizes from 100 to 1500 watts. The construction is such that an even distribution of light is provided with just sufficient shadow to insure a clear and distinct vision over a continuous period of time.

Duplex-a-lite has a very low surface brightness which makes it inconspicuous in a room. Yet, being self-illuminated, it satisfies the psychological demand for an apparent source of light. The light is distributed in so perfect a balance that its actual accomplishment is not immediately obvious—and appreciation grows with its use.

The construction is extremely simple and the mechanical details are handled with minute care and precision. Because our extensive manufacturing facilities include foundries and brass rolling mill, formula, gauge and weight of metal are controlled to meet exacting requirements.

The standard Duplex-a-lite fastens to a ceiling with a specially designed Z hickey, 3/8" running thread, nipple and brass hook with screw ring supporting canopy. This construction simplifies installation and assures perfect alignment of fixtures.

(See Page 16)



The length of chain pendant may be adjusted to support the fixture in the proper relation to ceiling. Properly focused around the lamp is a steel deflector, finished inside in white and outside in

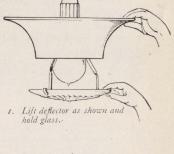
cream vitreous enamel, which forms a circular eyeshield totally insulating the eye from the direct rays of the lamp which are diffused in useful directions. (See Fig. A)

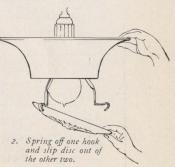
The dense glass disc at the bottom of deflector, acting as a filter for downward light, also diffuses light over the exterior of the deflector, thus avoiding contrast in brightness.

Both the deflector and disc are supported from three flat metal hooks. The disc is easily removed for relamping and cleaning.

The porcelain deflector may be dusted or wiped out with a damp cloth while in position; or, it may easily be removed and washed without touching any screws. Duplex-a-lites are most economical from standpoint of upkeep and maintenance with lowest cleaning costs and minimum number of breakable parts.

Duplex-a-lites of special design, as shown on some of the following pages, embody all the lighting principles of the standard Duplex-a-lite.





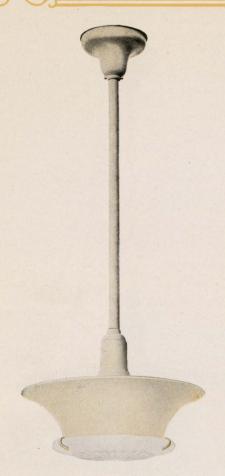


This is the Standard D-61 Series Duplex-a-lite. For use in offices and other places where a plain Duplex-a-lite is desired. The deflector is of porcelain enamel, polished white inside and mat Ivory outside. Dense white glass diffusing disc.

The Standard Duplex a lite shown with R-800 ring and tassel.

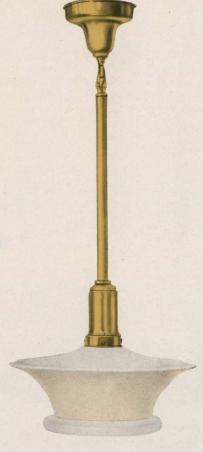
CATALOG No.	LAMP WATTAGE	DIAMETER	Overall Length	STANDARD FINISH	STANDARD PACKAGE QUANTITY	PACKAGE WEIGHTS
D161 D261 D561 D1061	100–150 200 300–500 750–1500	12 in. 14 in. 16 in. 22½ in.	36 in. 36 in. 48 in. 60 in.	Antique Brass "" "" ""	5 5 5 1	34 lbs. 40 lbs. 55 lbs. 80 lbs.
R800 to fir R800 " " R800 " " R800 " "	200 " 300–500 " 750–1500 "	« «	" " "	1 Duplex-a-lites	5	16 lbs. 21 lbs. 26 lbs. 10 lbs.

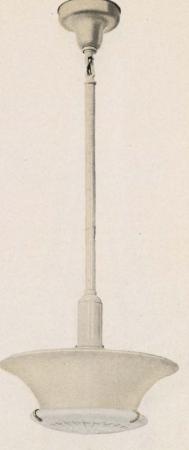




The D-21 series is made with a rigid stem.

Duplex-a-lites for Hospital Lighting





The D-21½ series is made with a semi-rigid stem.

When furnished with a stem as on the D-21 series, the enclosed type Duplex-a-lite is known as the D-29 series.

The D-29½ series is made with a rigid stem and loops as shown. This type is furnished complete with enclosing glass that fits tight over the top and on bottom of the deflector. The enclosing glass is only supplied in the 200 and 500 watt sizes of Duplex-a-lites.

When furnished with a stem as on the D-61 series, the enclosed type Duplex-a-lite is known as the D-69 series.

12 in. 14 in. 16 in. 12 in. 14 in. 16 in. 22½ in.	36 in. 36 in. 48 in. 36 in. 36 in. 48 in. 60 in.	Ivory, "" "" "" "" "" "" "" "" "" "" "" "" ""	« « «	Enamel,	Bronze	e or	Antique " " " " "	Brass " " "	Packed Bulk " " " " "	5 lbs. 8½ lbs. 9 lbs. 8 lbs. 8½ lbs.
16 in. 12 in. 14 in. 16 in.	48 in. 36 in. 36 in. 48 in.	« « « « « « « « « « « « « « « « « « «	« « «	" " " " " " " " " " " " " " " " " " "	"	"	« « «	« « «	« « «	9 lbs. 8 lbs. 8½ lbs.
12 in. 14 in. 16 in.	36 in. 36 in. 48 in.	"	« «	"	"	"	"	"	« «	8 lbs. 8½ lbs.
14 in. 16 in.	36 in. 48 in.	"	"	"	"	"	"	"	"	8½ lbs.
16 in.	48 in.	"	"							8½ 1bs.
				"	"	"	"	"		
22½ in.	60 in						**	**	"	9 1bs.
		**	"	"	"	"	"	"	"	10 lbs.
14 in.	36 in.	"	"	"	"	"	"	"	"	8½ 1bs.
16 in.	48 in.	"	и	"	"	"	"	"	"	9 1bs.
14 in.		"	"	"	"	"	"	"	"	8½ lbs.
16 in.	48 in.	K	"	"	"	"	"	"	"	9 lbs.
				7			19 19 19	Vita Just		PKG. WT.
			Antiqu	ie Brass					5	42 lbs.
16 in.	48 in.		"	"	"	"	"	"	5	57 lbs.
	16 in. 14 in. 16 in.	16 in. 48 in. 14 in. 36 in. 16 in. 48 in.	14 in. 48 in. " 14 in. 36 in. 16 in. 48 in. "	14 in. 36 in. " " 14 in. 36 in. Antiqu 16 in. 48 in. " 17 In. 48 in. " "	14 in. 48 in. " " " 14 in. 36 in. Antique Brass "	16 in. 48 in. " " " " 14 in. 36 in. Antique Brass "	14 in. 36 in. " " " " " " " " " " " " " " " " " " "	14 in. 36 in. 48 in. " " " " " " " " " " " " " " " " " " "	14 in. 36 in. " " " " " " " " " " " " " " " " " " "	14 in. 36 in. 48 in. " " " " " " " " " " " " " " " " " " "



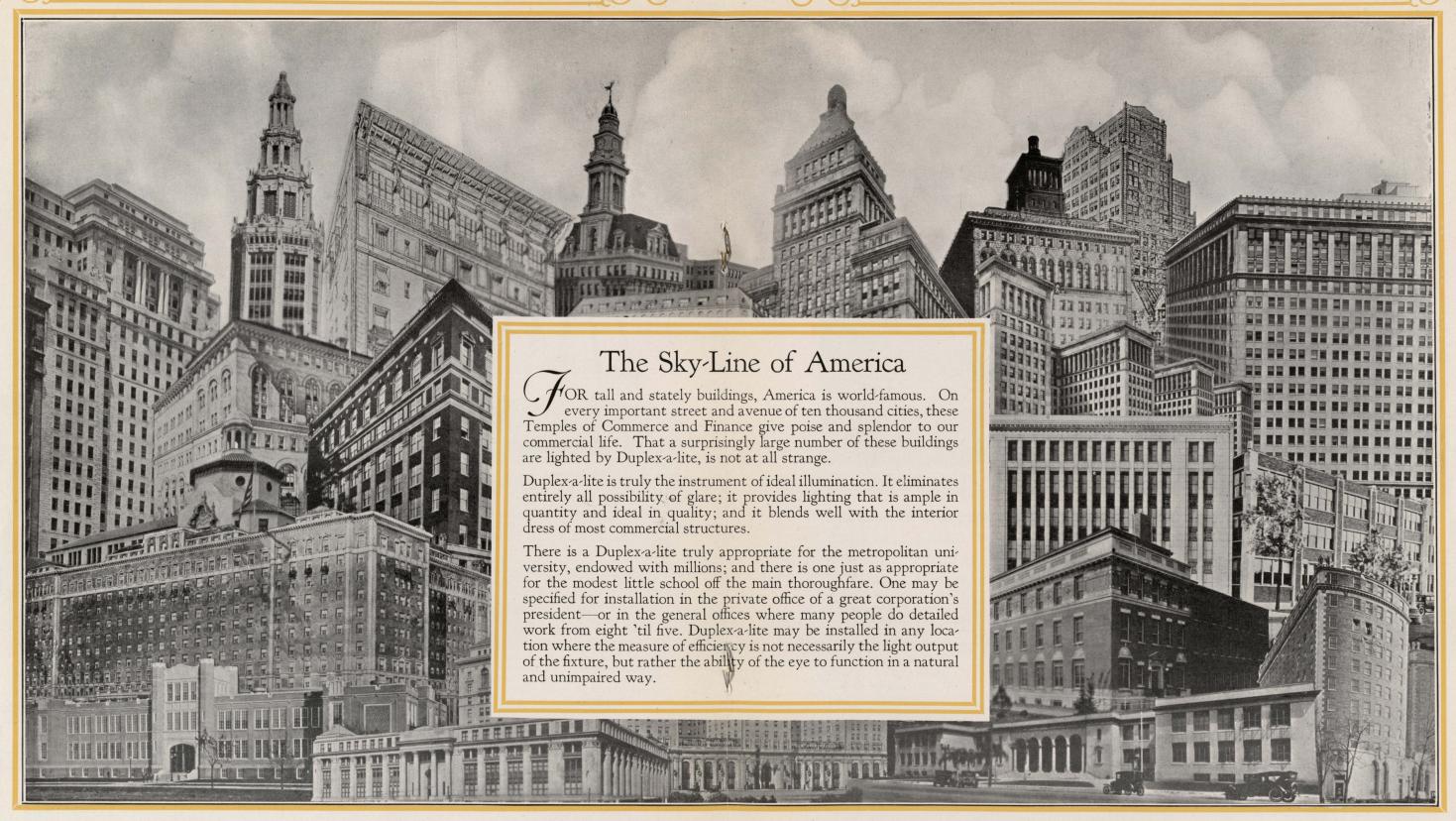
The D-1052 Duplex-a-lite was especially designed for banks, large stores, etc., and will harmonize with more decorative interiors as well as do a real lighting job. The regular ivory deflector is overlaid with an attractive metal design and the Ivrine disc is also overlaid with metal.

This Duplex-a-lite accommodates 750, 1000 and 1500 watt lamps which, with their greater efficiency, develop twice as much light as a group of smaller units of equal current consumption.

CATALOG No.	LAMP WATTAGE	DIAMETER	OVERALL LENGTH	STANDARD FINISHES	STANDARD PACKAGE QUANTITY	PACKAGE WEIGHTS
D171	100-150	12 in.	36 in.	Antique Brass, Silver & Black or Old Ivory " " " " " " " " " " Antique Brass, Silver & Black or Bronze " " " " " " " " "	5	34 lbs.
D271	200	14 in.	36 in.		5	40 lbs.
D571	300-500	16 in.	48 in.		5	55 lbs.
D1052	750-1500	26 in.	60 in.		1	80 lbs.
D551	300-500	19 in.	48 in.		1	22 lbs.
D1051	750-1500	26 in.	60 in.		1	80 lbs.



CATALOG No.	LAMP WATTAGE	DIAMETER	Overall Length			STAI	NDARI	D FIN	ISHES			STANDARD PACKAGE QUANTITY	PACKAGE WEIGHTS
D555	300-500	22 in.	48 in.	Antiqu					old&B Bronze		,Silver	1	100 lbs.
D1055	750-1500	26 in.	60 in.	"	"	"	"	"	"	"	"	1	125 lbs.
D1056	750-1500	40 in.	60 in.	"	"	"	"	"	"	"	"	1	150 lbs.
D1057	750-1500	49 in.	60 in.	"	"	"	"	"	"	"	"	1	150 lbs.
D729	100-150	Projection Backplate	9 in. 6x18½ in.	"	"	"	"	"	"	"	"	2	15 lbs.
D730	100–150	Spread Backplate	11 ³ / ₄ in. 6x18 ¹ / ₂ in.	"	"	"	"	"	"	"	"	2	18 lbs.

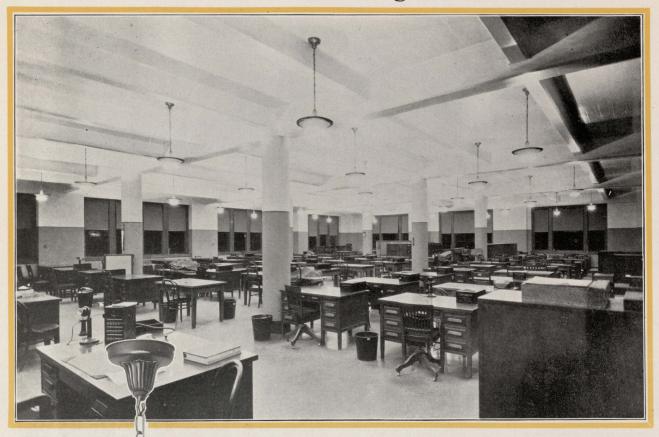


HERSHEY HIGH SCHOOL	Hershey, Pa.
ATLANTA BILTMORE HOTEL	ATLANTA, GA.
AUTOMOBILE CLUB OF SOUTHERN CALIFORNIA	
PHOENIX MUTUAL LIFE INSURANCE COMPANY	HARTFORD, CONN.
CUNARD BUILDING	New York
BUFFALO GENERAL ELECTRIC COMPANY	Buffalo, N.Y.
JOHN HANCOCK MUTUAL LIFE INSURANCE BUILDING	Boston, Mass.

INDEPEND	ENCE INDEMNITY BUILDING	PHILADELPHIA, PA.
	ILTMORE HOTEL	
INTERNAT	TIONAL MERCANTILE MARINE BUILDIN	IG New York
CITY SAV	INGS BANK BUILDING	ALBANY, N.Y.
LOS ANGE	ELES BILTMORE HOTEL	Los Angeles, Calif.
STRAUSS I	BUILDING	
ALHAMBR	RA HIGH SCHOOL	Alhambra, Calif.
MASONIC	MEMORIAL HOSPITAL	UTICA, N.Y.

THE MACMILLAN COMPANY	New York
GENERAL MOTORS BUILDING.	
MATSON NAVIGATION BUILDING	
NATIONAL ASSOCIATION BUILDING	New York
MAYFLOWER HOTEL	
LA SALLE INSTITUTE	CHICAGO, ILL.
JNION TRUST COMPANY	CLEVELAND, OHIO

Offices and Drafting Rooms



Office of The American Stores Company, Philadelphia, Pa.

JOHN HANCOCK MUTUAL LIFE INSURANCE CO. 3200 Duplex-a-lites PHOENIX MUTUAL LIFE INSURANCE CO. 500 Duplex-a-lites GENERAL MOTORS BUILDING. 4300 Duplex-a-lites UNION TRUST BUILDING. 4300 Duplex-a-lites GENERAL MOTORS BUILDING. 4300 Duplex-a-lites UNION TRUST BUILDING. 4500 Duplex-a-lites GENERAL MOTORS BUILDING. 6400 Duplex-a-lites GEWIN Shirrell Dodge, Architects Chas. C. Hartmann, Techteer N. C. 6400 Duplex-a-lites GEWIN Shirrell Dodge, Architects Chas. C. Hartmann, Techteer N. C. 6400 Duplex-a-lites GEWIN Shirrell Dodge, Architects GEWIN Shirrell Dodge, Architects MATSON NAVIGATION BLDG. 6400 Duplex-a-lites GENERAL MOTORS BUILDING. 6400 Duplex-a-lites GENERAL MOTORS BUILDING. 6400 Duplex-a-lites GEWIN SHIRRELL GO. 6400 Duplex-a-lites GEWIN SHIRREL GO. 6400 Duplex-a-lites GENERAL MOTORS BUILDING. 6400 Duplex-a-lites GENERAL MOTORS BUILDING. 6400 Duplex-a-lites GENERAL SHIRREL GO. 6400 Duplex-a-lites GEWIN SHIRREL GO. 6400 Duplex-a-lites GEWIN SHIRREL GO. 6400 Duplex-a-lites GENERAL LIFE INSURANCE CO. 6400 Duplex-a-lites GENERAL GO. 6400 Duplex-a-lites GENERAL LIFE INSURANCE CO. 6400 Duplex-a-lites GENERAL LIFE GO. 6400 Duplex-a-lites GENERAL LIFE GO. 6400 Duplex-a-lites GENERAL LIFE INSURANCE CO. 6400 Duplex-a-lites GENERAL GO. 6400 Duplex-a-lites GENERAL LIFE GO. 6400 Duplex-a-lites GENERAL LIFE GO. 6400 D	A Partial List of P	rominent Installations
500 Duplex-a-lites MATSON NAVIGATION BLDG. MATSON NAVIGATION BLDG. 1000 Duplex-a-lites Bliss & Faville, Architects San Francisco, Calif. Bliss & Faville, Architects Pos Duplex-a-lites Watter B. Chambers, Architect New York City Soo Duplex-a-lites Watter B. Chambers, Architect New York City Watter B. Chambers, Architect New York City Carrere & Hastings, Architects ARMSTRONG CORK CO. Henry Boettcher, Architects ARMSTRONG COFK N. STANDA Duplex-a-lites STANDA Duplex-a-lites Well Duplex-a-lites New York City Henry Boettcher, Architects New York City Active	JOHN HANCOCK MUTUAL LIFE INSUR 3200 Duplex-a-lites PHOENIX MUTUAL LIFE INSURANCE (500 Duplex-a-lites GENERAL MOTORS BUILDING 4300 Duplex-a-lites	ANCE CO Boston, Mass. Parker, Thomas & Rice, Architects CO Hartford, Conn. Benjamin Wister Morris, Architect Detroit, Mich. Albert Kahn, Architect
500 Duplex-a-lites MATSON NAVIGATION BLDG. MATSON NAVIGATION BLDG. 1000 Duplex-a-lites Bliss & Faville, Architects San Francisco, Calif. Bliss & Faville, Architects Pos Duplex-a-lites Watter B. Chambers, Architect New York City Soo Duplex-a-lites Watter B. Chambers, Architect New York City Watter B. Chambers, Architect New York City Carrere & Hastings, Architects ARMSTRONG CORK CO. Henry Boettcher, Architects ARMSTRONG COFK N. STANDA Duplex-a-lites STANDA Duplex-a-lites Well Duplex-a-lites New York City Henry Boettcher, Architects New York City Active	UNION TRUST BUILDING. Grah. HARTFORD FIRE INSURANCE CO 800 Duplex-a-lites JEFFERSON STANDARD LIFE INSURAN 400 Duplex-a-lites	im, Anderson, Probst and White, Architectand, Onio Architect CEC CO. Chas. C. Hartman, Architect Chas. C. Hartman, Architect
NEW ORLEANS PUBLIC SERVICE CO	500 Duplex-a-lites MATSON NAVIGATION BLDG	Benjamin Wister Morris, Architect San Francisco, Calif. Bliss & Faville, Architects Now York, Chicago Milwankoo
NEW ORLEANS PUBLIC SERVICE CO	INTERNATIONAL MERCANTILE MARI 800 Duplex-a-lites MacMILLAN PUBLICATION CO 400 Duplex-a-lites ARMSTRONG CORK CO	NE BLDG
NEW ORLEANS PUBLIC SERVICE CO	250 Duplex-a-lites STANDARD OIL CO. OF N. Y. 450 Duplex-a-lites. CUNARD BLDG. 4200 Duplex-a-lites NATIONAL LIFE INSURANCE CO	Henry Boettener, Arentect Albany, N. Y. H. I. Best Company, Architects New York City Benjamin Wister Morris, Architect Montpelier, Vt.
NEW ORLEANS PUBLIC SERVICE CO	500 Duplex-a-lites STRAUSS BLDG. 3000 Duplex-a-lites GFE INDEPENDENCE INDEMNITY BLDG 500 Duplex-a-lites ALABAMA POWER CO. BLDG	Cram & Ferguson, Architects Chicago, Ill. tham, Anderson, Probst & White, Architects Philadelphia, Pa. Ritter & Shay, Architects Rirmingham Alabama
1000 Duplex-a-lites	NEW ORLEANS PUBLIC SERVICE CO 300 Duplex-a-lites	New York Classical Chicago Cabacatala Fita
HANNA BLDG. 2000 Duplex-a-lites SEURITY INSURANCE CO. BLDG. Charles A. Platt, Architect New Haven, Conn. 200 Duplex-a-lites COLUMBUS DISPATCH BLDG. 200 Duplex-a-lites CHAMBER OF COMMERCE BLDG 1000 Duplex-a-lites CONN, GENERAL LIFE INSURANCE CO 800 Duplex-a-lites PACIFIC BUILDING 900 Duplex-a-lites A. E. Doyle, Architect A. E. Doyle, Architect	1000 Duplex-a-lites BOARD OF TRADE BLDG	
CHAMBER OF COMMERCE BLDG Indianapolis, Ind. 1000 Duplex-a-lites Robert Frost Daggett, Architect CONN, GENERAL LIFE INSURANCE CO 800 Duplex-a-lites James Gamble Rodgers, Architect PACIFIC BUILDING Portland, Oregon 900 Duplex-a-lites A. E. Doyle, Architect	HANNA BLDG. 2000 Dunlex-a-lites SECURITY INSURANCE CO. BLDG	Cleveland, Ohio Charles A. Platt, Architect New Haven, Conn. Henry Killam Murphy, Architect, Columbus, Ohio Snyder & Babbitt, Architects
	CHAMBER OF COMMERCE BLDG 1000 Duplex-a-lites CONN, GENERAL LIFE INSURANCE CO 800 Duplex-a-lites PACIFIC BUILDING 900 Duplex-a-lites	. Indianapolis, Ind. Robert Frost Daggett, Architect Hartford, Conn. James Gamble Rodgers, Architect Portland, Oregon A. E. Doyle, Architect

Banks and Public Buildings



BANK OF MANHATTAN, NEW YORK CITY

UNION TRUST CO. BRANCH	Cleveland, Ohio
PACIFIC FINANCE CO	
BRISTOL TRUST CO	
TITLE GUARANTEE & TRUST CO.	
TITLE GUARANTEE & TRUST CO.	Jamaica, N. Y.
MUTUAL BANK & TRUST CO	
MUNICIPAL BLDG	Akron, Ohio
MASONIC TEMPLE	North Akron, Ohio
BANK OF AMERICA	
PRUDENCE BONDS CORP	
BANK OF MANHATTAN	
HALL OF RECORDS	
METROPOLITAN MUSEUM	New York, N.Y.
BANK OF ITALYLos At	



Hotels and Clubs



BEDROOM IN THE PALMER HOUSE, CHICAGO, ILL.

A Partial List of Prominent Installations

WESTCHESTER BILTMORE COUNTRY	CLUB Westchester, N. Y.
400 Duplex-a-lites	Warren & Wetmore, Architects
LOS ANGELES BILTMORE HOTEL 1100 Duplex-a-lites HOTEL CLEVELAND 1000 Duplex-a-lites Graham, RITZ CARLTON HOTEL 1600 Duplex-p-lites	Schultze & Weaver Architects
HOTEL CLEVELAND	
1000 Duplex-a-lites Graham,	Anderson, Probst & White, Architects
RITZ CARLTON HOTEL	New York City, Philadelphia, Atlantic City
MAVELOWER HOTEL	Warren & Wetmore, Architects
1600 Duplex-a-lites MAYFLOWER HOTEL 350 Duplex-a-lites NEW WILLARD HOTEL 300 Duplex-a-lites ATLANTA BILTMORE HOTEL	Warren & Wetmore, Architects
NEW WILLARD HOTEL	
300 Duplex-a-lites	Walter G. Peter, Architect
700 Duplex-a-lites	Schultze & Weaver Architects
AUTOMOBILE CLUB OF SOUTHERN CA	LIFLos Angeles, Calif.
200 Duplex-a-lites	Hunt & Burns, Architects
700 Duplex-a-lites AUTOMOBILE CLUB OF SOUTHERN CA 200 Duplex-a-lites LOTOS CLUB	New York City
HOTEL BOND	Hartford Conn
600 Duplex-a-lites THE COPLEY-PLAZA HOTEL	Pennington & Lewis, Architects
THE COPLEY-PLAZA HOTEL	Boston, Mass.
THE DI AZA HOTEL	H. J. Hardenbergh, Architect New York City
250 Dunlex-a-lites THE PLAZA HOTEL 250 Duplex-a-lites BOOK CADILLAC HOTEL	H. I. Hardenbergh, Architect
BOOK CADILLAC HOTEL	Detroit, Mich.
1485 Duplex-a-lites CLIFT HOTEL	Louis Camper, Architect
300 Duplex-a-lites	Schultze & Weaver, Architects
300 Duplex-a-lites PALMER HOUSE. 2500 Duplex-a-lites MIAMI BILTMORE HOTEL.	
2500 Duplex-a-lites	Holabird & Roche, Architects
MIAMI BILTMORE HOTEL	Miami, Florida
WHITEHALL HOTEL	Schultze & Weaver, Architects Palm Beach, Florida
MIAMI BILTMORE HOTEL 500 Duplex-a-lites WHITEHALL HOTEL 205 Duplex-a-lites	Martin L. Hampton, Architect
RONEY PLAZA HOTEL	Schultze & Weaver, Architects
300 Duplex-a-lites	Schultze & Weaver, Architects
1000 Duplex-a-lites	McKim, Meade & White, Architects
ANSONIA HOTEL	New York City
400 Duplex-a-lites THE BREAKERS HOTEL 850 Duplex-a-lites THE BREAKERS HOTEL	Herbert R. Stone, Decorator
850 Duplex-a-lites	Schultze & Weaver Architects
THE BREAKERS HOTEL	Long Beach, Calif.
325 Duplex-a-lites MARK-HOPKINS HOTEL	Walker & Eisen, Architects
MARK-HOPKINS HOTEL	Weeks & Day, Architects
370 Duplex-a-lites	weeks & Day, Architects

[PAGE 12]

Stores and Fine Shops



SHOWROOM OF ILLINOIS POWER CO., SPRINGFIELD, ILL.

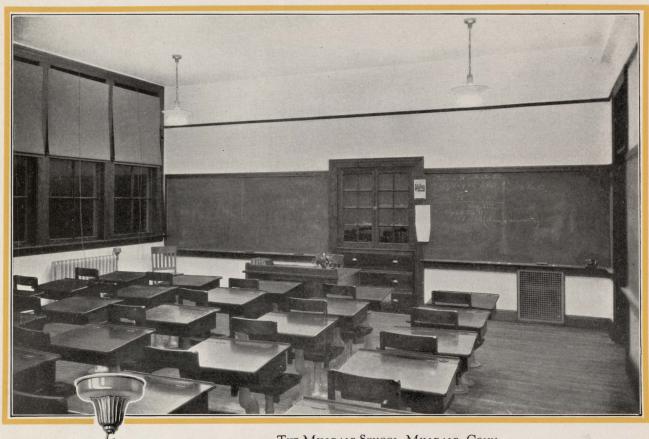
A Partial List of Prominent Installations

BEST & CO New York City
250 Decelor a litar
PASADENÀ FURNITURE CO
400 Duplex-a-lites Curlett & Beelman, Architects
BARKER BROSLos Angeles, Calif.
PASADENA FURNITURE CO. Pasadena, Calif. 400 Duplex-a-lites Curlett & Beelman, Architects BARKER BROS. Los Angeles, Calif. 300 Duplex-a-lites Curlett & Beelman, Architects
McNeal Swasey, Associate Architect
MONTGOMERY & WARD CO Chicago—Kansas City—Baltimore
2500 Duplex-a-lites Portland—Fort Worth—Oakland
ROCHESTER GAS & ELEC. CORPRochester, N. Y.
600 Duplex-a-lites Gordon & Kaelber, Architects
EDISON ELECTRIC ILL. CO Boston, Mass.
500 Duplex-a-lites Parker, Thomas & Rice, Architects
BUFFALO GENERAL ELEC. CO
600 Duplex-a-lites Edw. B. Green & Son, Architects WURLITZER CO. New York City
WURLITZER CO New York City
FURNITURE EXHIBITION BLDGGrand Rapids, Mich.
FRENCH, SHRINER & URNER Chicago, Detroit, Kansas City
DES MOINES ELEC. LIGHT CO Des Moines, Iowa
DES MOINES ELEC. LIGHT CO. Des Moines, Iowa LORD & TAYLOR New York City
WALK-OVER SHOE CO
1. WILDER SHOE CO
OHIO PUBLIC SERVICE CO., Alliance, Warren and Cleveland, Ohio
McCREERY'S DEPT. STOREPittsburgh, Pa.
W. P. SOUTHWORTH CO
DAVID SPENCER & CO., Ltd.,
McCarter & Nairn, Architects

ILLINOIS POWER COMPANY......Springfield, Ill.



Schools and Libraries



THE MILLDALE SCHOOL, MILLDALE, CONN.

GLENDALE HIGH SCHOOL	
700 Duplex-a-lites COLUMBIA UNIVERSITY	New York City
OREGON STATE COLLEGE	Corvallis, Oregon
EDISON HIGH SCHOOLBABSON STATISTICAL LABORATORY	Wellesley, Mass.
NEWTON VOCATIONAL SCHOOLPOLYTECHNIC INSTITUTE	Brooklyn, N. Y.
UNIVERSITY OF WISCONSINJOHN CRERAR LIBRARY	Madison, Wis.
HERSHEY HIGH SCHOOL	Hershey, Pa.
LA SALLE EXTENSION UNIVERSITY	Chicago, Ill.
350 Duplex-a-lites WEST HARTFORD SCHOOLS	West Hartford, Conn.
550 Duplex-a-lites NEW YORK UNIVERSITY	New York City
800 Duplex-a-lites SOUTHINGTON SCHOOLS	
PUBLIC SCHOOLS	New York City
ALHAMBRA HIGH SCHOOL 500 Duplex-a-lites	
SANTA MARIA HIGH SCHOOL 500 Duplex-a-lites	
SELMA HIGH SCHOOL	
REEDLEY HIGH SCHOOL	Reedley, Calif.
SANTA ANA HIGH SCHOOLS	Santa Ana, Calif.

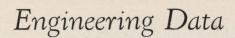
Hospitals and Similar Institutions



Masonic Soldiers and Sailors Memorial Hospital, Utica, N. Y.

SOUTHERN CALIFORNIA-LUTHERAN HOSPITAL.	Los Angeles, Calif.
Providence Hospital	Kansas City, Kansas
DERBY HOSPITAL	Derby, Conn.
STATE HOSPITAL	
CALIFORNIA STATE HOSPITAL	Sacramento, Calif.
Mercy Hospital	Denver, Colo.
MEDINA MEMORIAL HOSPITAL	
Masonic Soldiers & Sailors Memorial Ho	OSPITAL Utica, N. Y.
LAKELAND CITY HOSPITAL	Lakeland, Fla.
HENRY FORD HOSPITAL—NURSES' HOME	Detroit, Mich.
Ellis Hospital	Schenectady, N. Y.
ROCHESTER GENERAL HOSPITAL	
HIGHLAND HOSPITAL	

DUPLEX LIGHTING FOR IDEAL ILLUMINATION

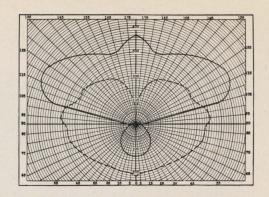


BRIGHTNESS

Location			45°	o°
Millilamberts	100	780	930	1200
Cp. per sq. inch			1.9	2.5

LIGHT DISTRIBUTION

Zone	0-45	45-90	0-90	90-180	0-180
Percentage of clear lamp lumens	6.6	6.1	12.7	62.7	75 · 4



INSTALLATION DATA

The following table indicates the watts per square foot to obtain various intensities with Duplex-a-lite (using average lamp efficiency of 200 watt size).

Foot Candles	Small Rooms (16 ft. x 16 ft.) 9 to 10 ft. Ceilings	Medium Rooms (35 ft. x 100 ft.) 10 to 12 ft. Ceilings			
4	1.16	.86	.72		
5	1.53	1.14	.96		
6	1.72	1.27	1.07		
8	2.32	1.71	1.44		
10	2.88	2.12	1.80		
12	3.44	2.52	2.15		
16	4.60	3.38	2.88		

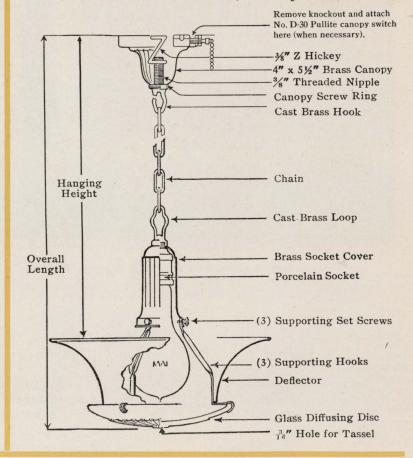
Light Ceilings (70%) Medium Walls (40%)

Sufficient allowance has been made to cover depreciation under average conditions.

THE following table indicates the spacing and mounting heights for Duplex-a-lites.

Ceiling Height	Permissible Distance Between Outlets	Permissible Distance Between Outlets and Sidewalls	Best Hanging Ht. Ceiling to Top of Deflector		
9 Feet	9½ Feet	5 Feet	18 Inches		
10 "	11 "	51/2 "	20 "		
11 "	121/2 "	61/2 "	22 "		
12 "	14 "	7 - "	25 "		
13 "	151/2 "	8 "	28 "		
15 "	181/2 "	91/2 "	32 "		
18 "	23 "	111/2 "	43 "		
20 "	26 "	13 "	54 "		

Construction and Names of Parts



By consulting the following table, you will note the economy of using the Duplex a lite with a large single lamp rather than a fixture with a group of smaller size lamps.

LUMEN OUTPUT AND ACTUAL COST OF LIGHT—(Ratings and Prices as of 1926)

110-115-120 volt standard clear Mazda Lamps

Size of Lamp in Watts	Lumen Output	List Price Cost of Lamp (1000 hrs. life)	Current Cost per Hr. at 5c rate	Total Cost 1 Lumen of Light for 1000 hrs.	Size of Lamp in Watts	Lumen Output	List Price Cost of Lamp (1000 hrs. life)	Current Cost per Hr. at 5c rate	Total Cost 1 Lumen of Light for 1000 hrs.
25	223	\$.27	\$.0013	\$.007	200	3200	\$.80	\$.010	\$.0034
40	380	.27	.002	.006	300	5100	1.25	.015	.0031
60	666	.32	.003	.005	500	9400	2.00	.025	.0029
100	1320	.45	.005	.0041	750	14400	3.50	.038	.0028
150	2200	.60	.0075	.0037	1000	20000	3.75	.05	.0027

