

LAMP BUSINESS GUIDE
1939-1940

MAZDA

THE
NATION'S LIGHT



MADE IN ENGLAND

Prices apply only in Gt. Britain & Northern Ireland.

SEPTEMBER, 1939

Why you should sell MAZDA Lamps

- (1) **MAZDA LAMPS** are the product of the great scientific skill and patient experimental work of the BTH Mazda Lamp Research Laboratories in Rugby, England.
 - (2) **MAZDA LAMPS** for general lighting service have the wonderful Mazda Non-Sag Filament, which ensures maintenance of candle-power and uniform service throughout life. The 40, 60, 75, 100 w. Mazda Gas-filled Lamps are made with the Coiled-Coil filaments. These lamps give up to 20% more light than the ordinary gasfilled lamps.
 - (3) **MAZDA LAMPS** are contained in attractive cartons which facilitate stocking and handling. The cartons are eminently suitable for display and protect the lamps in transit.
 - (4) **MAZDA LAMPS** are made from materials produced within the British Empire.
-

MAZDA SERVICE DEPOTS

LONDON - - - **Crown House, Aldwych, W.C.2**

Telephone : Temple Bar 8040. Telegrams : Asteroidal, Estrand, London

TRADE COUNTERS AND STORES :

Crown House, Aldwych, W.C.2. - Temple Bar 1343

3-7, Wenlock Road, City Road, N.1 Clerkenwell 2822

BELFAST	..	12 Alfred Street	..	..	Belfast 24523
BIRMINGHAM	..	10 and 11 Snow Hill	..	..	Central 8301
BLACKBURN	..	"Old Bank," Old Bank Street, King Street	..	..	Blackburn 7093
BLACKPOOL	..	4 and 5 Cedar Square	..	..	Blackpool 2853
BOURNEMOUTH	..	7 Haviland Road, Boscombe	..	..	Boscombe 2038
BRADFORD	..	7 Millergate	..	..	Bradford 1205
BRISTOL	..	119 Victoria Street	..	..	Bristol 20111
CAMBRIDGE	..	58 King Street	..	..	Cambridge 54370
CARDIFF	..	Jotham's Buildings, 26-27 St. Mary Street	..	..	Cardiff 7171/3
CHELTENHAM	..	17 Grosvenor Street	..	..	Cheltenham 2776
CHESTER	..	5 Boughton	..	..	Chester 2746
COLCHESTER	..	Culver Street	..	..	Colchester 2843
CROYDON, South	..	54 Selsdon Road.	..	..	Croydon 5633
DUBLIN	..	Mazda House, 25 Suffolk Street	..	..	Dublin 21379
DUNDEE	..	17 Baltic Street	..	..	Dundee 5600
EDINBURGH	..	130 George Street	..	..	Edinburgh 30896
GLASGOW	..	53 Pitt Street	..	..	Central 4331
GUILDFORD	..	Bedford House, Bedford Road	..	..	Guildford 2788
HASTINGS	..	17 Dorset Place	..	..	Hastings 2734
HUDDERSFIELD	..	7 Brook Street	..	..	Huddersfield 3291
HULL	..	2 Prince's Dock Chambers, Prince's Dock Street	..	..	Hull 36241
ILFORD	..	23 & 25 Green Lane	..	..	Ilford 2561
LEEDS	..	46 Wellington Street	..	..	Leeds 31541
LEICESTER	..	5 Campbell Street	..	..	Leicester 22811
LIVERPOOL	..	27-29 Stanley Street	..	..	Bank 5700
MANCHESTER	..	King's House, 42 King St. West	..	..	Blackfriars 2691/6
MIDDLES- BROUGH	..	Post Office Buildings, Marton Road	..	..	Middlesbrough 2476
NEWCASTLE- ON-TYNE	..	Ellison Buildings, Ellison Place	..	..	Newcastle 25040
NORTHAMPTON	..	College Street	..	..	Northampton 2981
NORWICH	..	Cambridge House, 26 Tombland	..	..	Norwich 2541
NOTTINGHAM	..	King's Place, Stoney Street	..	..	Nottingham 2061
OXFORD	..	90, St. Aldates	..	..	Oxford 4170
PLYMOUTH	..	Farley Chambers, Station Road, Millbay	..	..	Plymouth 4837
PORTSMOUTH	..	54, St. Vincent Street	..	..	Portsmouth 4383
READING	..	74 Oxford Road	..	..	Reading 2700
SHEFFIELD	..	Mazda Buildings, Campo Lane	..	..	Sheffield 23086
SOUTHAMPTON	..	6 West Street	..	..	Southampton 6209
STOKE-ON- TRENT	..	King's Chambers, Kingaway	..	..	Stoke-on-Trent 48768
SWANSEA	..	5 Northampton Gardens	..	..	Swansea 2151
TREFOREST	..	Treforest Trading Estate, nr. Pontypridd.	..	..	Taffs Well 165
WATFORD	..	Bridle Path, Watford Junction	Watford 5885

USE MAZDA ELECTRIC LAMPS

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THEY STAY BRIGHTER LONGER

EXTRA CHARGES Groups I and II

The following extra charges will be made in all cases where the item specified is not already included in the price tabulations.

GROUP I		Extra		
COLOURING:		Vacuum	Gasfilled	Carbon
For superficial colouring, or varnishing		10%	10%	—
For outside spraying (including black) leaving a clear disc on the crown up to 100 watts ..		6d. each	6d. each	—
SILVERING		<i>Prices on Application</i>		
CAPS:				
For S.B.C., S.E.S., S.C.C., in place of B.C., E.S., C.C., except for Sign Lamps		2d. each	2d. each	2d. each
Do. Do. for Sign Lamps ..		1d. each	—	—
Applicable up to and including 40 watts Metal Filament or 8 c.p. Carbon.				
For S.B.C., S.E.S., and S.C.C. in place of A.S.B.C. or A.S.C.C. American Intermediate Screw Caps		No extra		—
For G.E.S., in place of E.S., and B.C., or vice versa including G.E.S. clamp Cap for 1000 and 1500 watt General Lighting Service Lamps		6d. each	6d. each	—
Medium Pre-focus Cap for Projector Lamps ..		—	1/- each	—
Goliath Pre-focus Caps for Projector Lamps		—	1/- each	—
For all other special caps up to and including 100 watts ..		—	2/6 each	—
		1/- each	1/- each	—
GROUP II		Extra		
FROSTING:				
For outside frosting or shadow etching				1d. each
COLOURING:				
For superficial colouring or varnishing, including spraying				10%
For outside spraying (including black) leaving a clear disc on the crown				6d. each
METAL SPRAYING:				
For metal spraying top half of crown of single Filament Headlights				6d. each
SILVERING				<i>On Application</i>
FILAMENTS:				
For U Shape or Coiled-Coil Filament on Headlights ..				3d. each
CAPS:				
For S.B.C., A.S.B.C. and A.S.C.C.				1d. each
For B.C., E.S., and S.E.S.				1d. each
For 3 pin (B.C.) centre and double contact ..				1½d. each
For Bosch Caps				3d. each
For M.E.S. Cap (to be fitted only to 15 m/m and 19 m/m bulbs)				1d. each
For Hollow and Cartridge Caps				4d. each
For Pre-focus Caps				6d. each

USE MAZDA ELECTRIC LAMPS

MAZDA PEARL LAMPS

The inside frosting diffuses the light and prevents glare while the amount of light obscured by the frosting is negligible. As the outside surfaces of the bulbs are of smooth glass, they are as easy to clean as clear lamps.

The range below covers most normal lighting requirements of industrial, commercial, and domestic users.

Watts	Cap regularly supplied	Voltages									
		25 & 30		35, 40, 45, 50, 55		60, 65, 70, 75, 80, 85		150		100, 105, 110, 115, 120, 125, 130, 200, 210, 220, 230, 240, 250, 260	
		s.	d.	s.	d.	s.	d.	s.	d.	s.	d.
15	B.C.	2	1	2	1	2	1	2	1	1	6
25		2	1	2	1	2	1	2	1	1	6
40		2	6	2	6	2	6	2	2	1	7*
60		3	0	3	0	3	0	2	2	1	7*
75		—	—	—	—	—	—	—	—	1	10*
100		—	—	4	6	4	6	3	6	2	0*
150		—	—	—	—	—	—	—	—	3	6

* Supplied with Coiled-Coil Filaments.

BTH PEARL LAMPS (Type "B")

BTH Pearl Lamps (Type "B") are good quality lamps with single filaments which, although not as efficient as Mazda Coiled-Coil Lamps, are very much superior to many other low-priced lamps.

Watts	Cap	Voltages	
		100, 105, 110, 115, 120, 125, 130, 200, 210, 220, 230, 240, 250, 260	
25	B.C.	s.	d.
40		1	0
60		1	0
100		1	6

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CLEAR GASFILLED LAMPS

Watts	Cap regularly supplied	Voltages											
		25 & 30		35, 40, 45, 50, 55		60, 65, 70, 75, 80, 85		100, 105, 110, 115, 120, 125, 130		150		200, 210, 220, 230, 240, 250, 260	
		s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.
15	B.C.	2	1	—	—	—	—	—	—	—	—	—	—
25		2	1	2	3	2	3	1	8	—	—	—	—
40		2	9	2	9	2	9	1	9*	2	4	1	9*
60		3	3	3	3	3	3	1	9*	2	4	1	9*
75		—	—	—	—	—	—	2	0*	—	—	2	0*
100	E.S.	—	—	5	0	5	0	2	3*	4	0	2	3*
150		—	—	7	9	9	0	3	6	6	3	3	6
200		—	—	9	6	10	6	5	6	8	9	5	6
300	G.E.S.	—	—	12	3	13	3	9	0	11	6	9	0
500		—	—	15	6	16	6	11	6	14	0	11	6
750		—	—	19	3	20	0	15	0	19	0	15	0
1000		—	—	—	—	—	—	16	0	19	0	16	0
1500		—	—	—	—	—	—	22	6	26	3	22	6

* Supplied with Coiled-Coil Filaments.

CLEAR VACUUM LAMPS

Watts	Cap regularly supplied	Voltages		
		100, 105, 110, 115, 120, 125, 130	150	200, 210, 220, 230, 240, 250, 260
15	B.C.	s. d.	s. d.	s. d.
25		1 8	2 3	1 8
		—	2 3	1 8

OPAL LAMPS (Type "O"—Gasfilled)

Watts	Cap regularly supplied	Voltages												
		25 & 30		35, 40, 45, 50, 55		60, 65, 70, 75, 80, 85		100, 105, 110, 115, 120, 125, 130		150		200, 210, 220 230, 240, 250, 260		
		s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	
15	B.C.	2	4	2	4	—	—	—	—	—	—	—	—	
25		2	4	2	4	2	4	1	9	—	—	—	—	
40		2	10	2	10	2	10	1	10*	2	7	1	10*	
60		3	6	3	6	3	6	1	10*	2	7	1	10*	
75		—	—	—	—	—	—	2	2*	—	—	2	2*	
100	E.S.	—	—	5	3	5	3	2	4*	4	6	2	4*	
150		—	—	8	9	10	0	4	0	7	0	4	0	
200		—	—	10	8	12	6	6	6	9	10	6	6	
300		G.E.S.	—	—	13	9	15	0	10	3	12	11	10	3
500			—	—	17	6	18	6	13	0	15	9	13	0

* Supplied with Coiled-Coil Filaments.

USE MAZDA ELECTRIC LAMPS

COLOUR SPRAYED LAMPS

Available in the following colours : Blue, Yellow, Orange or Amber, Green, Red, Flame, Pink, Ivory, and White.

Watts	Cap regularly supplied	Voltages					
		25 & 30	100, 105, 110, 115, 120, 125, 130			200, 210, 220, 230, 240, 250, 260	
		Gasfilled	Gasfilled	Vacuum	Gasfilled	Vacuum	Gasfilled
		s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
15	B.C.	2 3	—	—	—	—	—
25		2 3	1 9	—	—	1 9§	—
40		—	1 10*	2 0†	1 10*	2 0†	—
60		—	1 10*	—	1 10*	—	—
75		—	2 2*	—	2 2*	—	—
100	E.S.	—	2 4*	—	2 4*	—	—
150		—	4 0	—	4 0	—	—
200	G.E.S.	—	6 6	—	6 6	—	—
300†		—	10 3	—	10 3	—	—
500†		—	13 0	—	13 0	—	—
750†		—	17 9	—	17 9	—	—

NOTE.—For special "EMERGENCY" lighting purposes these lamps (up to and including 100 watts) can be sprayed any standard colour (and also black) with a clear disc on the crown at 6d. each extra on Clear prices.

§ Also supplied inside sprayed in 40 watt bulbs only at same price.

† Also supplied inside sprayed at same price. † White Sprayed only.

* Supplied with Coiled-Coil Filaments.

NATURAL COLOUR LAMPS

Watts	Cap regularly supplied	Colours :— Green, Blue and Amber		Colours :— Red, Ruby, and other Tints	
		Voltages			
		100, 105, 110, 115, 120, 125, 130, 200, 210, 220, 230, 240, 250, 260			
		Gasfilled	Vacuum	Gasfilled	Vacuum
15	} B.C. }	s. d.	s. d.	s. d.	s. d.
†25		—	2 3	—	2 6
40		2 3	2 3	2 6	2 6
60		2 4	—	2 7	—
75		2 4	—	2 7	—
100		3 0	—	3 6	—
		3 3	—	3 9	—

† 25 watt Gasfilled Lamps supplied only in 100/130 volts.

15, 25, and 40 watt lamps are in same size bulb as 25 watt clear.

DAYLIGHT LAMPS

(GASFILLED)

Watts	Cap	Voltages	
		100, 105, 110, 115, 120, 125, 130	200, 210, 220, 230, 240, 250, 260
		s. d.	s. d.
40	B.C.	2 3	2 3
60		2 3	2 3
100		3 3	3 3
150		4 9	4 9
300	G.E.S.	11 6	11 6

THEY STAY BRIGHTER LONGER

DUAL-PURPOSE LAMP (OPAL)

This opal lamp has two filaments, either of which can be operated at will. It is specially recommended for use in Hospitals, Nursing Homes, Hotels, and Nurseries.

The change from one filament to the other is effected by means of a cord-operated switch.

The Mazda Dual-Purpose Lamp can be used on either alternating or direct current.

Volts	Approx. Watts	Cap	Price
100, 105, 110, 115 120, 125, 130, 200, 210, 220, 230, 240, 250, 260	4 and 25	B.C.	s. d. 4 3

GOTHIC LAMP (Vacuum) FLAME AND PARCHMENT SPRAYED

Watts	Cap	Voltages	
		100, 105, 110, 115, 120, 125, 130	200, 210, 220, 230, 240, 250, 260
25	B.C. or E.S.	s. d. 4 6	s. d. 4 6

S.B.C. or S.E.S. Caps can be supplied at 2d. each extra.

NEWEL LAMP (Vacuum) FLAME AND PARCHMENT SPRAYED

Watts	Cap	Voltages
		200, 210, 220, 230, 240, 250, 260.
40	B.C. or E.S.	s. d. 4 9

S.B.C. or S.E.S. Caps can be supplied at 2d. each extra.

LONGLITE LAMPS (Opal—Vacuum)

Watts	Cap	Voltages			
		100, 105, 110, 115, 120, 125, 130, 200, 210, 220, 230, 240, 250, 260.		150	
		Opal	Colour Sprayed	Opal	Col. Spr'yd.
40 60	B.C., E.S. or C.C.	s. d. 5 0	s. d. 5 6	s. d. 7 6	s. d. 8 0

USE MAZDA ELECTRIC LAMPS

CANDLE LAMPS

Vacuum (25w.) & Gasfilled (40w.)

Vacuum (Low) & General (Low)									
Watts	Type	Cap † regularly supplied	Voltages						
			25, 30	50	60, 65, 70, 75, 80, 85	100, 105, 110, 115, 120, 125, 130	150	200, 210, 220, 230, 240, 250, 260	
PLAIN									
25	{ Clear, Colour- sprayed.	{ B.C., S.B.C. or S.E.S.	—	3 6	4 0	3 0	4 0	3 0	
			—	3 11	4 5	3 4	4 5	3 4	
			—	4 3	4 6	3 6	4 6	3 6	
			—	4 9	5 0	3 11	5 0	3 11	
40	{ Clear, Colour- sprayed.	{ B.C., S.B.C. or S.E.S.	—	—	—	—	—	—	
			—	—	—	—	—	—	
			—	—	—	—	—	—	
			—	—	—	—	—	—	
TWISTED									
25	{ Clear, Colour- sprayed.	{ B.C., S.B.C. or S.E.S.	—	—	—	3 6	4 6	3 6	
			—	—	—	3 11	5 0	3 11	
			—	—	—	—	—	—	
			—	—	—	—	—	—	
40	{ Clear, Colour- sprayed.	{ B.C., S.B.C. or S.E.S.	—	—	5 0	4 0	5 0	4 0	
			—	—	5 6	4 5	5 6	4 5	
			—	—	—	—	—	—	
			—	—	—	—	—	—	
HUNTALITE (Vacuum)									
20	—	—	6 6	6 6	—	6 0	—	6 0	
40	—	—	7 6	7 6	—	6 0	—	6 0	
KINGOLITE (Vacuum)									
20	—	—	6 6	6 6	—	6 6	—	6 6	
40	—	—	7 6	7 6	—	7 6	—	7 6	
60†	—	—	8 0	8 0	—	—	—	8 0	

† C.C., E.S. or S.C.C. Caps 3d. each extra. Colour-Sprayed Candle Lamps are in the following colours: Blue, Yellow, Orange, Green, Red, Flame, Pink, Ivory, White.

‡ Spherical Bulb only. Spare parts for Kingolite lamps—Prices on application.

SINGLE-ENDED TUBULAR LAMPS

(Vacuum)

Watts	Cap regularly supplied	Voltages					
		50	60, 65, 70, 75, 80, 85	100, 105, 110, 115, 120, 125, 130	150	200, 210, 220, 230, 240, 250, 260	
CLEAR							
25*	B.C., S.B.C., or S.E.S.	s. d.	s. d.	s. d.	s. d.	s. d.	
30		3 6	4 0	3 0	4 6	3 0	
40	B.C.	—	—	3 6	—	3 6	
	E.S., B.C. or C.C.	—	—	6 6	—	6 6	
COLOUR-SPRAYED							
25*	B.C., S.B.C. or S.E.S.	4 0	4 7	3 3	5 2	3 3	

*S.C.C., E.S., and C.C. Caps for 25 watts only, 3d. each extra.

THEY STAY BRIGHTER LONGER

DOUBLE-ENDED TUBULAR LAMPS (Vacuum)

Watts	Cap	Voltages									
		100, 105, 110, 115, 120, 125, 130, 200, 210, 220, 230, 240, 250, 260									
		Clear					Colour Sprayed				
30 } *60 } 100	S.C.C.	s.	d.				s.	d.			
		4	0				4	9			
		4	9				5	9			
	C.C.	6	9				7	6			

* 25 m/m × 284 m/m only. 38 m/m × 308 m/m, Clear 5/3, Sprayed 6/4.

"Clip Contact" Caps, 3d. each extra.

NEON LAMPS TYPE "N" (FOR NIGHT LIGHTS)

Watts	Cap	Voltages	
		100, 105, 110, 115, 120, 125, 130 200, 210, 220, 230, 240, 250, 260	
		s.	d.
5	B.C. or E.S.	3	1

TYPE "I" (INDICATOR)

Voltages	Cap	Price	
100, 105, 110, 115, 120, 125, 130 200, 210, 220, 230, 240, 250, 260	B.C., E.S., S.B.C. or S.E.S.	s.	d.
		2	3

CRUCIFORM LAMP

The Mazda "Cruciform" Lamp is the ideal illuminant for the home shrine. The filament is in the form of a crucifix which glows with a soft rosy light. At night the effect is very appealing and significant. This attractive little lamp uses only one unit of electricity in 200 hours, is absolutely safe, produces neither smell nor smoke, and requires no attention of any kind.

Volts	Watts	Cap	Price	
100, 105, 110, 115, 120, 125, 130 200, 210, 220, 230, 240, 250, 260	5	B.C. or E.S.	s.	d.
			3	4

BTH CARBON LAMPS

British C.P.	Cap regularly supplied	Voltages			
		100, 105, 110, 115, 120, 125, 130		200, 210, 220, 230, 240, 250, 260	
		Maximum Total Watts	Price s. d.	Maximum Total Watts	Price s. d.
8	B.C. or E.S.	35.0	1 6	37.0	1 6
16		67.0	1 6	74.0	1 6
32		127.0	1 9	153.0	1 9

USE MAZDA ELECTRIC LAMPS

SIGN LAMPS (Vacuum)

Watts	Cap	Bulb	Voltages							
			25 & 30	50	60, 65, 70, 75, 80, 85,	100, 105, 110, 115, 120, 125, 130	150	200, 210, 220, 230, 240, 250, 260		
STANDARD BULB										
10	E.S. or B.C.	Clear	s. d. 2 0	s. d. 2 6	s. d. 2 6	s. d. 1 9	s. d. —	s. d. —		
15			Clear Sprayed†	2 0 2 3	2 3 2 6	2 3 2 6	1 8 1 9	2 3 2 6	1 8 1 9	
20		Clear Sprayed		2 0 2 3	2 6 2 9	2 6 2 9	2 0 2 3	2 6 2 9	2 2 2 5	
PYGMY BULB										
15		E.S. B.C. S.E.S. or S.B.C.	Clear	s. d. 2 0	s. d. 2 3	s. d. 2 3	s. d. 1 8	s. d. 2 3	s. d. 1 8	
			Sprayed	2 3	2 6	2 6	1 9	2 6	1 9	

† Also supplied inside sprayed at the same price.

15 and 20 watt Sign Lamps can be supplied with daylight glass bulb; prices on application. Natural coloured bulbs are available in the following: 10 watt 100/130 volts; 15 watt 25/30, 50, 60/85, 100/130, and 200/260 volts; 20 watt 100/130 and 200/260 volts only. Green, Blue, Amber 7d. each extra. Red, Ruby or other tints 10d. each extra.

SERIES BURNING FITTED WITH SHORT-CIRCUITING DEVICE

Volts	Watts	Cap	Clear	Sprayed	Natural Colour
14	7	S.E.S.	s. d. 1 3	s. d. 1 5	s. d. 1 8

SPECIAL DECORATION TYPE LAMPS

For seasonal and temporary outdoor and indoor decorative illuminations.

Supplied in the following standard colours: Blue, Yellow, Orange, Green, Red, Pink, Flame, Ivory and White.

Voltages	Watts	Caps regularly Supplied	Price each s. d.
200, 210, 220, 230, 240, 250, 260	{ 15 25	{ E.S. or B.C.	{ 1 1† 1 1†
14 (Series burning fitted with short circuiting device)	{ 5 7	{ S.E.S.	{ 1 9* 1 0‡

† Supplied with either inside or outside sprayed bulbs. ‡ Outside sprayed only
* Clear only. Outside Sprayed 1/11 each.

THEY STAY BRIGHTER LONGER

SWITCHBOARD INDICATOR

Cap	Voltages					
	25 & 30	50	60, 65, 70, 75, 80, 85	100, 105, 110, 115, 120, 125, 130	150	200, 210, 220, 230, 240, 250, 260
B.C.	s. d. 2 6	s. d. 2 9	s. d. 2 9	s. d. 2 2	s. d. 2 9	s. d. 2 2

This lamp is similar in every respect to the 15 watt Pygmy Sign Lamp, but fitted with a resistance in the bulb.

TRACTION LAMPS (Series Burning)

Gasfilled

Vacuum

Watts	Amps.	Voltages					Watts	Amps.	Voltages
		100, 110, 120, 130							100, 110, 120, 130
		Pearl	Clear	Opal	Sprayed	Day-light			Clear or Pearl
40	0.35	s. d. 1 8	s. d. 1 10	s. d. 1 11	s. d. 1 11	s. d. 2 4	30	0.27	s. d. 1 10
60	0.52	1 8	1 10	1 11	1 11	2 4	40	0.35	1 10

Caps regularly supplied B.C. or E.S.

TRACTION (Gasfilled) WITH FUSIBLE CUTOUT

Watts	Voltages			
	40 and 50			
	Pearl	Clear	Opal	Daylight
40	s. d. 1 9	s. d. 1 11	s. d. 2 0	s. d. 2 5
60	1 9	1 11	2 0	2 5

Cap regularly supplied E.S.

MAZDA-VITE LAMPS (GASFILLED)

FOR THE LIGHTING OF FLOWER BEDS, ROCKERIES, ETC.

Description	Volts	Watts	Price
Special Blue, inside frosted bulb. E.S. Cap, fitted with asbestos ring inserted between the thread and the skirt.	200, 210,	{ 150 300 500	s. d. 22 6
	220, 230,		27 6
	240, 250,		35 0*
	260		

*Also 100/130 volts.

The Ultra-Violet and Infra-Red rays from the Mazda-Vite Lamp are valuable in the treatment of certain diseases.

These lamps may also be used (with suitable reflectors) for the night-time illumination of flowers and foliage in their true colours.

USE MAZDA ELECTRIC LAMPS

MAZDA DECORATION LIGHTS

"SNOW WHITE"

The eight lively characters of this fairy drama have been reproduced in charming pictures on the shades of Mazda "Snow White" Lights—the most attractive outfit of its kind ever produced. It comprises flexible cord, lamp-holders, combination plug adaptor, berry bead device, and Mazda Lamps.

Volts : 200/260
12-Lamp Set
14/- Extra Lamps Clear 4d. each.

"MICKEY MOUSE"

These attractive sets fitted with tinted translucent shades bearing pictures of Mickey Mouse characters and comprise flexible cord, lamp-holders, combination plug-adaptor, and Mazda Lamps, berry bead device enables each lamp-holder to be separately secured to branch of Christmas tree.

Volts : 200/260		Volts : 100/130
16-Lamp Set (with two spare lamps)	12-Lamp Set	8-Lamp Set (with one spare lamp)
24/- Extra Lamps Clear 1/- each.	12/6 Extra Lamps Clear 4d. each.	16/6 Extra Lamps Clear 1/- each.

"FAIRY" (Series Burning)

These sets are ideal for the festooning of lounge, dining room, or hall, and, of course for the lighting of Christmas trees.

The 5/- set is a simple outfit without shades, comprising flexible cord, lamp-holder adaptor, and coloured Mazda Lamps (White, Green, Red, Blue, Orange, and Yellow). The 7/6 set is similar, but embodies a separate extension lampholder for a second set of lamps, berry beads, and a longer flexible cord of better quality.

Volts : 200/260	
12-Lamp Set	12-Lamp Set with berry beads, etc.
5/- Extra Lamps as supplied with complete Set 4d. each. Large Size 6d. each.	7/6

When ordering extra lamps for above, give full particulars of set as "Mickey Mouse 12-Lamp Set." In the case of Fairy Lights, state colour and size of lamps.

THEY STAY BRIGHTER LONGER

MAZDA DECORATION LIGHTS

"Fairy" (Parallel-Burning)

Mazda "Fairy" Lights (Parallel-Burning) are a new departure in the field of decorative and festive illumination. They are wired in parallel so that each lamp burns independently and the failure of one lamp does not extinguish the others as happens when they are wired in series. Searching for a faulty lamp is therefore never necessary and a replacement can be inserted in the set immediately.

The 15-watt coloured lamps are more attractive than the small lamps normally used in series sets. Another great feature is that, as they provide adequate light for all normal purposes, other lighting is unnecessary.

The eight-lamp sets are fitted with a separate extension lampholder, which enables a second set of lamps to be connected at the end of the first set. This extension lampholder is covered by a neat screw-cap when not in use.

Mazda "Fairy" Lights (Parallel-Burning) are supplied in Indoor and Outdoor Types—the latter being specially water-proofed and suitable for permanent outdoor use. The Indoor set has 8 lamps, while the Outdoor sets can be supplied with 8 lamps or 20 lamps.

All sets are fitted with Berry Beads, which enable the lamps to be fixed in any position required.

VOLTAGES 200/260		
Indoor Type	Outdoor Type	
8-Lamp Set	8-Lamp Set	20-Lamp Set
12/-	16/-	35/-

EXTRA LAMPS.—These can be supplied at 1s. 0d. each. When ordering state colour (White, Green, Red, Blue, Orange, and Yellow) and whether for Indoor or Outdoor Sets.

USE MAZDA ELECTRIC LAMPS

MAZDA "CLUSTALITE" NEW 3-PURPOSE LIGHTING UNIT COMPLETE WITH 12 LAMPS.

The Mazda "Clustalite" comprises an artistic metal fitting with twelve white or coloured lamps wired up in series. The fitting is finished in Florentine Bronze, and completely wired and ready for immediate use. It is supplied complete with lamps of any of the following colours: CLEAR, WHITE, YELLOW, GREEN, AMBER, or MIXED COLOURS. The "Clustalite" can be used either as a ceiling fitting, table standard, or for pendent use.

MAZDA "CLUSTALITE" complete with twelve 19 volt, 3 watt Mazda Decoration Lamps, wired in series and fitted with Adaptor, 36 watts, 200/260 volts ..
(State colour of lamps)

10/6

Extra Lamps 4d. each
When ordering extra lamps for replacement, please specify LAMPS for MAZDA "CLUSTALITE" stating number and colour required.

MAZDA "NEWELITE" A COMPLETE LIGHTING UNIT INCLUDING LAMP, FITTING AND FIXING SCREWS.

This new unit, while particularly suitable for mounting on a staircase newel-post, may also be used as a ceiling light of unusual decorative character in hall or porch. An attractive "period" effect can be achieved by the use of several Mazda "Newelite" units on the ceiling of a panelled room.

The unit consists of a Mazda Newel Lamp with a specially designed lampholder fitting. The lamp is available in two finishes—Parchment or Flame, with moulded corners picked out in black lacquer. The fitting is made in a rich dark brown moulded composition. Inside the fitting is a rubber gasket which holds the Mazda Newel Lamp rigid—and the unit is supplied ready for installation.

PRICES

MAZDA NEWEL LAMP (40 watt, 200/260 volt) .. **4/9**
FITTING **1/3**

MAZDA "NEWELITE" UNIT COMPLETE .. **6/-**

When ordering, please state whether Flame or Parchment Lamp is required and voltage of supply.

THEY STAY BRIGHTER LONGER

MAZDA LIGHT TUBES

ARCHITECTURAL SERIES

Mazda Light Tubes are supplied in a number of lengths of straight tube, in curved sections of three different radii, and in right-angle sections.

In the home, theatres, dance halls, hotels, shops, etc., extensive use can be made of Mazda Light Tubes for unusual and attractive lighting effects. They are also highly effective for the illumination of display windows and the outlining of advertising signs.

Voltages: 100, 105, 110, 115, 120, 125, 130, 200, 210, 220, 230, 240, 250, 260									
† Overall Lgth.		Diameter, 30 m/m				Diameter 40 m/m			
m/m	Nom. inches	Nom. Watts	White Opal	Col. Opal	Col. Spryd	Nom. Watts	White Opal	Col. Opal	Col. Spryd
STRAIGHT LENGTHS									
150	6	20	a. d. 7 6	s. d. 8 6	—	—	s. d. —	s. d. —	s. d. —
254	10	30	6 6	7 6	—	—	—	—	—
273	10½	30	10 6	12 0	—	—	—	—	—
305	12	35	8 0	9 6	9 0	60	14 9	16 3	16 0
500	20	40	14 6*	16 9	15 6	100	20 3	22 3	21 9
		60	10 6	12 6	11 6				
		100	21 9	—	—				
610	24	75	16 0	18 6	17 0	120	22 6	24 9	23 9
914	36	110	21 0	24 6	23 0	180	29 6	33 6	32 6
1219	48	150	25 6	29 3	27 6	240	35 9	39 3	38 6
CURVES—½, ⅓, or ¼ CIRCLES									
500	20	{ 40 60 }	20 0	23 0	22 0	100	28 0	30 9	30 9
RIGHT-ANGLE—CENTRE BEND									
500	20	{ 40 60 }	23 6	27 0	25 6	100	33 0	36 3	35 9

Mazda Light Tubes of over 2 feet in length can only be supplied in 200/260 volts.

* Can also be supplied Clear, White Sprayed, or Outside Frosted at same price.

† In the case of curved or angle lamps, "overall length" is measured along the centre line of the curve or angle.

Colour Sprayed Mazda Light Tubes are supplied in the following standard colours: Blue, Yellow, Orange, Green, Red, Pink, Flame, and Ivory.

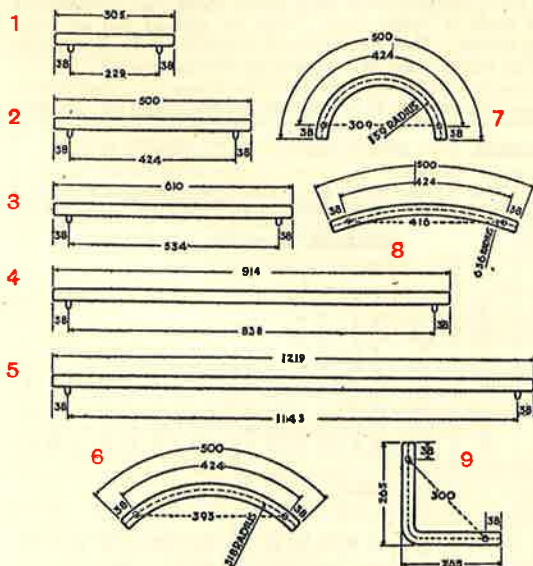
Coloured Opal Mazda Light Tubes are supplied in the following standard colours: Pink, Orange, Yellow, Green, Red, and Flame.

All Mazda Light Tubes can be supplied at the same prices with either round peg type or flat sided caps with a distance between cap centres and end of lamp of 38 m/m and 29 m/m respectively. Please specify which cap is required when ordering.

Prices for other lengths and curves—available on application.

MAZDA LIGHT TUBES

DIMENSIONS IN MILLIMETRES
OUTLINES



1 to 5—Straight Type. 6— $\frac{1}{2}$ Curved Type. 7— $\frac{1}{2}$ Curved Type.
8— $\frac{1}{2}$ Curved Type. 9—Right Angle Type.

CONVERSION TABLE

m/m	Inches	m/m	Inches	m/m	Inches
29	1.14	318	12.52	636	25.04
38	1.50	424	16.69	838	32.99
159	6.26	442	17.40	914	35.98
229	9.02	500	19.69	1143	45.00
265	10.43	534	21.02	1219	47.99
305	12.00	610	24.00		

All Mazda Light Tubes can be supplied alternatively with 30 or 40 m/m dia. tubes.

NOTE:—All dimensions given are subject to manufacturing tolerances.

THEY STAY BRIGHTER LONGER

MAZDA LIGHT TUBES—ALPHABET SERIES

Mazda Alphabet Series Light Tubes are supplied in two sizes—12in. and 20in. letters. Used for sign and fascia lettering, they provide a most novel and attractive effect. In addition to white opal they can be supplied in yellow, green, orange, pink, red, and flame opal.

12 INCH LETTERS

LETTER	Code Nos.	Quantity	Watts		Opal Price each	Total £ s. d.	Col. Opal Price each	Total £ s. d.
			Section	Total				
A ^{A16} A _{A1 A4}	A.1	1	20	} 104	7/6	} 2 0 6	8/6	} 2 6 9
	A.4	1	36		8/-		9/6	
	A.16	1	48		25/-		28/9	
B ^{A15} A _{A9}	A.4	1	36	} 117	8/-	} 2 18 0	9/6	} 3 7 0
	A.9	1	36		25/-		28/9	
	A.15	1	45		25/-		28/9	
C ^{A23}	A.23	1	63	63	26/3	1 6 3	30/-	1 10 0
D ^{A15} A _{A4}	A.4	1	36	} 99	8/-	} 1 14 3	9/6	} 1 19 6
	A.25	1	63		26/3		30/-	
E ^{A1} A _{A1 A1}	A.1	3	20	} 96	7/6	} 1 10 6	8/6	} 1 15 0
	A.4	1	36		8/-		9/6	
F ^{A1} A _{A1}	A.1	2	20	} 76	7/6	} 1 3 0	8/6	} 1 6 6
	A.4	1	36		8/-		9/6	
G ^{A21} A _{A1}	A.1	1	20	} 80	7/6	} 1 13 9	8/6	} 1 18 6
	A.21	1	60		26/3		30/-	
H ^{A4} A _{A1}	A.1	1	20	} 92	7/6	} 1 3 6	8/6	} 1 7 6
	A.4	2	36		8/-		9/6	
I ^{A4}	A.4	1	36	36	8/-	8 0	9/6	9 6
J ^{A16}	A.18	1	51	51	25/-	1 5 0	28/9	1 8 9
K ^{A1} A _{A2 A2}	A.1	1	20	} 86	7/6	} 1 2 0	8/6	} 1 5 6
	A.2	1	30		6/6		7/6	
	A.4	1	36		8/-		9/6	
L ^{A4} A _{A1}	A.1	1	20	} 56	7/6	} 15 6	8/6	} 18 0
	A.4	1	36		8/-		9/6	
M ^{A2} A _{A2 A2}	A.2	2	30	} 132	6/6	} 1 9 0	7/6	} 1 14 0
	A.4	2	36		8/-		9/6	

USE MAZDA ELECTRIC LAMPS

MAZDA LIGHT TUBES ALPHABET SERIES—12 INCH LETTERS

LETTER	Code Nos	Quantity	Watts		Opal Price each	Total		Col. Opal Price each	Total	
			Section	Total		£	s. d.		£	s. d.
N A41 A44	A.4	3	36	108	8/-	1	4 0	9/6	1	8 6
O A14	A.14	2	45	90	25/-	2	10 0	28/9	2	17 6
P A4 A15	A.4 A.15	1 1	36 45	} 81	8/- 25/-	} 1 13 0		9/6 28/9	} 1 18 3	
Q A1 A13 A15	A.1 A.13 A.14	1 1 1	20 39 45	} 104	7/6 25/- 25/-	} 2 17 6		8/6 28/9 28/9	} 3 6 0	
R A1 A15	A.1 A.4 A.15	1 1 1	20 36 45	} 101	7/6 8/- 25/-	} 2 0 6		8/6 9/6 28/9	} 2 6 9	
S A10	A.10	2	39	78	25/-	2	10 0	28/9	2	17 6
T A2 A3	A.2 A.3	1 1	30 32	} 62	6/6 10/6	} 17 0		7/6 12/-	} 19 6	
U A32	A.32	1	81	81	33/9	1	13 9	38/9	1	18 9
V A4 A43	A.4	2	36	72	8/-	16 0		9/6	19 0	
W A2 A3 A4	A.2 A.4	2 2	30 36	} 132	6/6 8/-	} 1 9 0		7/6 9/6	} 1 14 0	
X A12	A.12	2	39	78	25/-	2	10 0	28/9	2	17 6
Y A1 A11	A.1 A.11	1 1	20 39	} 59	7/6 25/-	} 1 12 6		8/6 28/9	} 1 17 3	
Z A2 A4 A43	A.2 A.4	2 1	30 36	} 96	6/6 8/-	} 1 1 0		7/6 9/6	} 1 4 6	

Two lampholders are required for each section of letter. Holders are not included in the above prices.

THEY STAY BRIGHTER LONGER

MAZDA LIGHT TUBES ALPHABET SERIES—20 INCH LETTERS

LETTER	Code Nos.	Quantity	Watts		Opal Price each	Total £ s. d.	Col. Opal Price each	Total £ s. d.
			Section	Total				
A _{A4}	A.4	1	36	177	8/-	2 12 3	9/6	3 0 9
	A.7	1	60		10/6		12/6	
	A.34	1	81		33/9		38/9	
B _{A22}	A.7	1	60	201	10/6	3 10 6	12/6	4 1 3
	A.22	1	60		26/3		30/-	
	A.33	1	81		33/9		38/9	
C _{A19}	A.19	1	54	108	25/-	2 10 0	28/9	2 17 6
	A.20	1	54		25/-		28/9	
D _{A16}	A.7	1	60	168	10/6	2 15 6	12/6	3 4 3
	A.36	1	108		45/-		51/9	
E _{A1}	A.1	1	20	140	7/6	1 11 0	8/6	1 16 0
	A.2	2	30		6/6		7/6	
	A.7	1	60		10/6		12/6	
F _{A1}	A.1	1	20	110	7/6	1 4 6	8/6	1 8 6
	A.2	1	30		6/6		7/6	
	A.7	1	60		10/6		12/6	
G _{A1}	A.1	1	20	125	7/6	2 17 6	8/6	3 6 0
	A.17	1	51		25/-		28/9	
	A.19	1	54		25/-		28/9	
H _{A7}	A.2	1	30	150	6/6	1 7 6	7/6	1 12 6
	A.7	2	60		10/6		12/6	
I _{A7}	A.7	1	60	60	10/6	10 6	12/6	12 6
J _{A35}	A.35	1	84	84	37/6	1 17 6	43/-	2 3 0
K _{A4}	A.4	1	36	138	8/-	1 14 6	9/6	2 0 6
	A.5	1	42		16/-		18/6	
	A.7	1	60		10/6		12/6	
L _{A2}	A.2	1	30	90	6/6	17 0	7/6	1 0 0
	A.7	1	60		10/6		12/6	
M _{A7}	A.7	4	60	240	10/6	2 2 0	12/6	2 10 0

Two lampholders are required for each section of letter. Holders are not included in the above prices.

USE MAZDA ELECTRIC LAMPS

MAZDA LIGHT TUBES ALPHABET SERIES—20 INCH LETTERS

LETTER	Code Nos.	Quantity	Watts		Opal Price each	Total £ s. d.		Col. Opal Price each	Total £ s. d.	
			Section	Total						
N A7 A8 A3	A.7 A.8	2 1	60 62	} 182	10/6 16/-	} 1 17 0		12/6 18/6	} 2 3 6	
O A31	A.31	2	78	156	33/9	3 7 6		38/9	3 17 6	
P A7 A33	A.7 A.33	1 1	60 81	} 141	10/6 33/9	} 2 4 3		12/6 38/9	} 2 11 3	
Q A29 A31	A.1 A.29 A.31	1 1 1	20 72 78	} 170	7/6 30/- 33/9	} 3 11 3		8/6 34/6 38/9	} 4 1 9	
R A7 A2	A.2 A.7 A.33	1 1 1	30 60 81	} 171	6/6 10/6 33/9	} 2 10 9		7/6 12/6 38/9	} 2 18 9	
S A30	A.30	2	72	144	30/-	3 0 0		34/6	3 9 0	
T A5 A6	A.5 A.6	1 1	42 56	} 98	16/- 16/-	} 1 12 0		18/6 18/6	} 1 17 0	
U A27 A28	A.27 A.28	1 1	69 69	} 138	30/- 30/-	} 3 0 0		34/6 34/6	} 3 9 0	
V A7 A7	A.7	2	60	120	10/6	1 1 0		12/6	1 5 0	
W A7 A7	A.7	4	60	240	10/6	2 2 0		12/6	2 10 0	
X A26 A26	A.26	2	66	132	30/-	3 0 0		34/6	3 9 0	
Y A4 A24	A.4 A.24	1 1	36 63	} 99	8/- 26/3	} 1 14 3		9/6 30/-	} 1 19 6	
Z A7 A4	A.4 A.7	2 1	36 60	} 132	8/- 10/6	} 1 6 6		9/6 12/6	} 1 11 6	

Two lampholders are required for each section of letter. Holders are not included in the above prices.

NOTE:—Metal Mounts for all letters are available. Particulars on application. See page 21 for special lampholders—Type "D"—to be used with Alphabet Series Light Tubes.

THEY STAY BRIGHTER LONGER

HOLDERS for MAZDA LIGHT TUBES

Type "B" for Flat-sided Caps.

Single contact holder in black moulded composition with special ball clips at either side, both being fitted with locking screws which hold the lamp safely and securely in position without the use of external wire clips.

Price 4/- per pair

Type "C" for Peg Caps.

(Patent No. 451773)

Black moulded composition single contact holder, with special sliding locking device. Single fixing hole at actual cap centre point, consisting of a loose sleeve which makes permanent yet non-rigid fixture. No attempt should be made to drive fixing screw right home.

Price 3/6 per pair

Type "D" for Peg Caps.

(Patent No. 476577)

This holder of Black moulded composition, is of neat appearance and has a single fixing hole. The cap is secured in holder by an internal projection which is forced into position by the ring on the outside of the holder. Where it is desired to conceal the base of the holder, this ring can be used like an ordinary shade ring to secure the holder in position.

Price 3/- per pair



Type "B"



Type "C"



Type "D"

The above lampholders can be supplied colour sprayed in any standard colour at 4d. per pair extra.

Type "E" for Peg Caps.

(Patent applied for).

A new pattern lampholder with single central fixing hole. When top section carrying contacts is slid into its locking position it gives perfect electrical contact, absolutely secure holding for lamp, complete freedom from strain on lamp cap, and simple release action for lamp replacements. Black moulded composition.

Price 3/6 per pair

White, Red, Green, Brown, Yellow, Blue, Orange, and Stone can be supplied at 4d. per pair extra.



Type "E"

USE MAZDA ELECTRIC LAMPS

MERCRA LAMPS

FOR USE ON ALTERNATING CURRENT ONLY

250 and 400 watts.

Mercra Lamps are mercury vapour electric discharge lamps, and find their principal applications in street lighting, floodlighting and industrial lighting.

The lamp consists of two glass envelopes, the space between the inner and outer envelope being for heat retention purposes. The electrodes, which require no separate heating transformers, are mounted one at each end of the inner tube and are heavily coated to give a high electronic emission when incandescent.

A third electrode situated close to one of the main electrodes and connected to the mains through a series resistance serves to stimulate conduction at starting.

Each lamp requires a choke in series with it, to control the current passing, since the lamp has no electrical resistance of its own, and in some cases certain other auxiliary equipment is desirable, such as a condenser connected across the mains where power-factor correction is required.

Full technical details will be supplied upon application.

Watts	Cap	Voltages	Initial Light Output	Price each
			Lumens	s. d.
250	G.E.S.	{ 100/130 200/260	8,500 9,000	{ 37 6
400	G.E.S.	{ 100/130 200/260	16,000 18,000	{ 40 0

Dimensions on page 55.

IMPORTANT NOTE.—Mercra Lamps are made to operate only with control gear manufactured or approved by The British Thomson-Houston Co., Ltd.

THEY STAY BRIGHTER LONGER

MERCRA LAMPS

FOR USE ON ALTERNATING CURRENT ONLY

80 and 125 watts.

The 80 watt and 125 watt Mercra Lamps have been designed to secure high efficiency combined with compact size, and resemble, in general shape and size, the incandescent filament lamps of normal practice.

The lamp consists of two envelopes, the inner one of which is made of a special grade of transparent quartz. This material withstands adequately the high temperature of the arc light source, which is extremely concentrated. The arc passes between two special activated electrodes, one of which is associated with an auxiliary electrode, in order to ensure reliable starting on all ordinary mains voltages. Whilst the characteristics of the lamps are, in general, similar to those of the higher wattage Mercra Lamps, both the running up time and the cooling time are less.

These lamps can be used at any angle, and may be burned horizontally if required. It is necessary to operate them on alternating current with correctly designed chokes, and if desired, condensers can be used to improve the power factor.

To prevent the accidental insertion of these lamps in any ordinary B.C. holder not connected with a choke, the caps of the lamps have three pins instead of the usual two pins.

The smaller bulbs of these lamps make it possible for them to be used in lighting fittings designed for 150/200 watt standard gasfilled lamps, provided of course that the lampholders are changed to three-pin type, and chokes are used.

Watts	Cap.	A. C. Voltages	Initial Light Output	Price each	
80 125	} 3-Pin B.C.	200, 210, 220, 230, 240, 250, 260	Lumens { 3040 5000	s. 25 30	d. 0 0

Dimensions on page 55.

Specially designed BTH Lanterns, and Floodlight Projectors are manufactured for use in conjunction with Mercra Lamps. Write for latest lists. Mazdalux Fittings listed on pages 44, 45 & 46.

IMPORTANT NOTE.—Mercra Lamps are made to operate only with control gear manufactured or approved by The British Thomson-Houston Co., Ltd.

USE MAZDA ELECTRIC LAMPS

MERCRA FLUORESCENT LAMPS

FOR USE ON ALTERNATING CURRENT ONLY

80, 125 & 400 watts

The light from the ordinary mercury discharge lamp, because of the small emission of red light, has a distorting effect upon certain colours. It is impossible, for instance, to distinguish between reds and various shades of brown. The Mercra Fluorescent Lamp has been developed to meet requirements where some degree of colour rendering is important.

The mercury vapour discharge tube is mounted in an enlarged outer jacket, the inner surface of which is coated with powder which fluoresces under ultra-violet radiation from the inner lamp. This fluorescent radiation provides colour correction, by adding both red and middle blue light.

The electrical characteristics of these lamps are similar to the standard Mercra Lamps in that they require to be operated on alternating current with a standard choke and if desired, a condenser for power factor correction.

These lamps have been designed for industrial lighting. The 400 watt lamp is available in two shapes, pear-shaped (iso-thermal) and tubular. The iso-thermal is slightly more efficient, but the tubular has been designed for situations in which the greater diameter of the former cannot be accommodated.

While the degree of colour correction does not render the light emitted from the lamp equivalent to daylight, it is nevertheless much more pleasing than uncorrected mercury light.

Watts	Cap	A.C. Voltages	Initial Light Output	Price each
80	3-pin B.C.	200, 210, 220, 230, 240, 250, 260	Lumens	s. d.
125	G.E.S.		3040	32 6
400	G.E.S.		5000	40 0
(Iso-thermal)	G.E.S.		15200	55 0
400	G.E.S.	260	14800	55 0
(Tubular)				

Dimensions on pages 55 & 56.

IMPORTANT NOTE.—Merera Lamps are made to operate only with control gear manufactured or approved by The British Thomson-Houston Co., Ltd.

THEY STAY BRIGHTER LONGER

MERCRA LAMP

WITH ULTRA-VIOLET FILTER BULB 125 Watts.

This special lamp has been developed as a highly efficient source of near ultra-violet radiation with a minimum of visible light. The near ultra-violet radiation does not cause sunburning, but has many interesting properties. The most important of these is its power to excite fluorescence and phosphorescence in many substances. Where identification is almost impossible in visible light, many substances can be easily identified by means of such fluorescence. Stains on fabrics often become strikingly evident under this radiation and it is possible to distinguish between apparently similar materials such as natural and artificial gems.

The lamp, with the exception of the outer envelope, may be regarded as similar to the ordinary 125 watt Mercra Lamp. It can be used at any angle and operates on alternating current with a correctly designed choke.

Watts	Cap	A.C. Voltages	Price each
125	3-Pin B.C.	200/260	s. 47 d. 6

MERCRA PROJECTOR LAMPS

500 WATTS. FOR USE ON ALTERNATING CURRENT

This new Mercra Electric Discharge Lamp of the air cooled type has a very concentrated light source and is specially suitable for projection and photographic purposes.

The lamp, which is for base-down burning, can be supplied fitted with either of two caps, both of which are designed for use in projection or camera apparatus pre-set to a definite focus. It must be operated with suitable control gear manufactured or approved by The British Thomson-Houston Co. Ltd.

Life 500 Hours.

Initial Brightness: 20,000 candles per square centimetre.

Watts	Cap	A.C. Voltages	Initial Light Output (Lumens)	Price each
500	Bipost (Round bulb)	200/260	25,000	s. 160 d. 0
500	Prefocus (Tubular bulb)	200/260	25,000	150 0

Dimensions on page 55.

IMPORTANT NOTE.—Mercra Lamps are made to operate only with control gear manufactured or approved by The British Thomson-Houston Co., Ltd.

USE MAZDA ELECTRIC LAMPS

SODRA LAMPS

FOR USE ON ALTERNATING CURRENT ONLY

45, 60, 85, and 140 watts

Sodra lamps are sodium vapour electric discharge lamps primarily designed for street lighting purposes.

The Sodra lamp consists of two separate components, an inner arc tube bent into a "U" shape and an outer envelope which is a double walled vacuum flask. At the end of its guaranteed life (2500 hours) only the arc tube as a rule need be replaced.

The electrodes which require no separate heating transformers are mounted one at each end of the inner "U" tube and are treated to give a high electronic emission when incandescent.

A special 2-ply glass is used for the arc tube. A thin sheet of sodium resistant glass, which withstands attack from sodium vapour at high temperatures, is fused to the inner surface of a glass tube which possesses the mechanical properties required by the arc tube as a whole.

As with all discharge lamps some form of auxiliary gear is necessary to limit and stabilize the current when the lamp is operated. For this purpose a high reactance transformer is necessary.

The light given by the Sodra lamp is monochromatic, and is orange-yellow in colour. It gives a single line spectrum as distinct from the continuous spectrum of the tungsten lamp and the multi-line spectrum of mercury vapour discharge lamps.

STANDARD CAP : B.C. (Ceramic).

Watts	Initial Light Output Lumens	A.C. Voltages 100, 105, 110, 115, 120, 125, 130, 200, 210, 220 230, 240, 250, 260					
		Without Jacket		With Detachable Jacket. Clear		With Detach Jacket Natural Colour Special Filter Glass	
45	2500	s. d.		s. d.		s. d.	
		32	6	41	0	49	6
60	3900	40	0	50	0	60	0
85	6100	50	0	61	6	73	0
140	10,000	65	0	78	6	92	0

IMPORTANT NOTE.—Sodra Lamps are made to operate only with control gear manufactured or approved by The British Thomson-Houston Co., Ltd.

Dimensions on page 56.

THEY STAY BRIGHTER LONGER

PROJECTOR LAMPS (GAS FILLED) CLASS A1—TUBULAR BULB

For base-down burning in Cinema Projectors, Home Cinema Apparatus, Advertising Projectors, Photo-enlarging Apparatus, etc. They can be brought close to the lens and by the use of a short focus condenser, an unusually large proportion of light can be transmitted. For the home cinema, the introduction of the pre-focus cap has reduced focussing difficulties to a minimum.

MAXIMUM LIFE—100 hrs.

Rating		Standard Cap	Type of Filament	Price each	
Volts	Watts			s.	d.
15b	750a	G.E.S.	Vert. Grid	43	0
15d	750a	G.E.S.	"	50	0c
30	100	Prefocus	"	11	9
	250	E.S.	"	22	6
	600	G.E.S.	"	35	0
	900	G.E.S.	"	35	0
	200	Prefocus	"	22	0
50	250	Prefocus	"	22	0
	250†	Prefocus	Coiled-Coil	22	0
	500	E.S. or G.E.S.	Vert. Grid.	26	0
52	260†	Prefocus	"	22	0
60	100	E.S.	"	12	6
	180	E.S.	Coiled-Coil	17	6
75	375†	E.S.	"	29	0
	50	A.S.C.C.	"	6	6
100	100	A.S.C.C.	"	11	9
	100	E.S.	"	10	9
	200†	A.S.C.C.	"	16	9
	200	E.S.	"	16	9
	250	E.S.	"	20	0
	300†	A.S.C.C.	"	25	0
	300†	E.S.	"	25	0
	300	E.S.	Vert.-Grid	25	0
	400†	Prefocus	"	35	0
	500	Prefocus	Coiled-Coil	25	0
110	500	E.S. or G.E.S.	"	24	0
	500†	Prefocus	Vert.-Grid	33	9
	750†	Prefocus	"	38	9
	1000	G.E.S.	"	30	0
	1000†	Prefocus	"	55	0
	100	A.S.C.C.	"	11	9
	100	E.S.	"	10	9
	200	A.S.C.C.	Coiled-Coil	16	9
	250	Prefocus	Vert.-Grid	21	0
	500	Prefocus	"	25	0
200	500	E.S. or G.E.S.	"	24	0
210	1000	G.E.S.	"	30	0

- (a) If required for cinema use, these lamps may be fitted with special lead attached to the centre contact of the cap.
 (b) Diameter 64 m/m, length 225 m/m, l.c.l. 115 m/m.
 (c) If silvered, 265 m/m overall length at 55/- each.
 (d) For base-up burning, maximum diameter 60 m/m, length 260 m/m, l.c.l. 115 m/m.

† Life 25 hours. These lamps are designed for use in apparatus providing adequate forced ventilation.

Where E.S. caps are specified, extra charge for Medium Prefocus 1/-.

Where G.E.S. caps are specified, extra charge for Goliath Prefocus 2/6.

PROJECTOR LAMPS (GASFILLED)

CLASS A2—ROUND BULB

Suitable for Stage Limes, Spotlights, etc., and should be burned vertically with cap below. **MAXIMUM LIFE—300 hours.**

Rating		Standard Cap	Type of Filament	Price each	
Volts	Watts			s.	d.
20	80	E.S. or S.B.C.	Vert. Grid	8	6
100, 110 115	100	E.S.	"	10	9
	250	E.S.	"	20	0
	500	G.E.S.	"	27	6
	1000	G.E.S.	"	38	0
	1500	G.E.S.	"	52	6
	2000	G.E.S.	"	76	0
200, 210, 220, 230, 240, 250, 260	3000	G.E.S.	"	105	0
	100	E.S.	"	10	9
	250	E.S.	"	20	0
	500	G.E.S.	"	27	6
	1000	G.E.S.	"	38	0
	1500	G.E.S.	"	55	0
	2000	G.E.S.	"	86	0
	3000	G.E.S.	"	115	0

CLASS A3—ROUND BULB

Designed for horizontal burning and are suitable for SPOTLIGHTS, STAGE LIMES, ADVERTISING PROJECTORS, ETC. **MAXIMUM LIFE—300 hrs.**

Rating		Standard Cap	Type of Filament	Price each	
Volts	Watts			s.	d.
100, 110, 115	100	E.S.	Horizontal Grid	10	9
	250	E.S.		20	0
	500	G.E.S.		27	6
	1000	G.E.S.		38	0
	1500	G.E.S.		52	6
200, 210, 220, 230, 240, 250, 260	100	E.S.		10	9
	250	E.S.		20	0
	500	G.E.S.		27	6
	1000	G.E.S.		38	0
	1500	G.E.S.		55	0

CLASS B1—ROUND BULB

For the floodlighting of buildings, hoardings, signs, etc., or for theatre and cinema spotlighting. Can be used in any position except with cap uppermost at an angle of 45° or less from vertical.

FLOODLIGHTING LAMPS.

MAXIMUM LIFE—800 hrs.

Rating		Standard Cap	Type of Filament	Price each	
Volts	Watts			s.	d.
100, 105, 110, 115,	100	E.S.	Bunch	9	0
120, 125, 130, 200,	250	E.S.	"	17	6
210, 220, 230, 240,	500	G.E.S.	"	23	0
250, 260	1000	G.E.S.	"	30	0

THEY STAY BRIGHTER LONGER

PROJECTOR LAMPS (Gasfilled)

CLASS B2—PEAR SHAPE BULB

These lamps can be burned in any position including cap up.

FLOODLIGHTING LAMPS.

MAXIMUM LIFE—800 hrs.

Rating		Standard Cap	Type of Filament	Price each s. d.	
Volts	Watts				
200, 210, 220, 230, 240, 250, 260	500 1000	G.E.S.	Bunch	23	0
		G.E.S.	Bunch	30	0

CLASS E—ROUND BULB

Epidiascope

Suitable also for spotlight and shop window projectors which have to be rotated through wide angles. Can be used in any position up to 45° from vertical cap downwards.

MAXIMUM LIFE—100 hrs.

Rating		Standard Cap	Type of Filament	Price each s. d.	
Voltage	Watts				
100 to 115 { 200 to 260	250	E.S.	Grid	25	0
	500	E.S.	"	30	0

Class E lamps can also be supplied with G.E.S. cap.

CLASS F—MICRO-PROJECTION (Below 20 volts)

Designed for the smaller forms of home cinemas, delicate surgical and ophthalmic work. Intended primarily for use with batteries.

MAXIMUM LIFE—100 hrs.

Rating		Standard Cap	Type of Bulb	Type of Filament	Price each s. d.	
Volts	Watts					
4	8	S.E.S.	Round	Hor-Helix	3	9
6	24	E.S.	"	"	3	9
6	54§	E.S.	Tubular	Hor-Tungsten Ribbon	20	0
6*	108§	E.S.	"	"	30	0
12	24	S.B.C.	Round	Hor-Helix	3	9
12	48	E.S.	"	Twin Pillar	3	9
12	100	E.S.	Tubular†	"	10	9
12	300	G.E.S.	Tubular	"	32	6

§ Made in U.S.A. * Also with vertical filament. † Also Round Bulb at 12/- each.

CLASS G EXCITER LAMPS FOR SOUND FILM APPARATUS

These lamps must be burnt vertically cap down. **MAXIMUM LIFE—100 hrs.**

Volts	Watts	Cap	Type of Filament	Price each s. d.	
8	32	A.S.C.C.	Hor-Helix	5	6
8.5	34	A.S.C.C.	"	6	0
10	50	A.S.C.C.	"	7	6
10	75	A.S.C.C.	"	7	6

USE MAZDA ELECTRIC LAMPS

PROJECTOR LAMPS (GAS FILLED)

LAMPS FOR FILM STUDIO SPOTLIGHTS

The construction of the filament of these high wattage lamps enables them to burn under the most exacting conditions, and they are absolutely silent in operation.

LIFE—500 & 1000 w., Medium Bipost 100 hours; 1000 & 2000 w. 200 hours; 3000, 5000, & 10,000 w., 100 hours.

Volts	Watts	Standard Cap	Type of Filament	Price each s. d.	
100, 105, 110, 115, 120, 125, 130	500	Medium Bipost	Grid	32	6
	1000	Bipost	"	55	0
	1000	Medium Bipost	"	55	0
	2000	G.E.S. or Bipost	"	85	0
	±500	Medium Bipost	"	32	6
200, 210, 220, 230, 240, 250, 260	1000	Bipost	"	55	0
	1000	Medium Bipost	"	55	0
	2000	G.E.S. or Bipost	"	85	0
	3000	G.E.S.	"	115	0
	5000	Bipost	"	300	0
100, 105, 110, 115, 120, 125, 130	3000	G.E.S.	"	105	0
	±5000	Prong or Bipost	"	300	0
	±10000	Prong	"	490	0

‡ These lamps are manufactured in U.S.A.

BROADSIDE LAMPS FOR FILM STUDIOS

These lamps burn at any angle, including cap up.

LIFE—1000 hours.

Volts	Watts	Standard Cap	Type of Filament	Price each s. d.	
100, 105, 110, 115, 120, 125, 130	1500	G.E.S.	Staggered Spiral	22	6
	2500§	G.E.S.		60	0

§ Made in U.S.A.

"LINE" FILAMENT TUBULAR LAMPS

Suitable for vertical or horizontal burning.

MAXIMUM LIFE 800 hours.

Volts	Watts	Cap	Price each s. d.	
100, 105, 110, 115, 120, 125, 130, 200, 210, 220, 230, 240, 250, 260	250	E.S.	30	0
	500	G.E.S.	35	0
	1000	G.E.S.	45	0
	1500	G.E.S.	55	0
	2000†	G.E.S.	60	0
	3000	G.E.S.	100	0

† 200/260 volts only.

MERCRA PROJECTOR (Electric Discharge) LAMPS

For base-down burning.

Watts	Cap	A.C. Voltage	Initial Light Output (Lumens)	Price each s. d.
500	Bipost (Round bulb)	200/260	25,000	160 0
500	Prefocus (Tubular bulb)	200/260	25,000	150 0

Initial brightness 20,000 candles per square centimetre.

THEY STAY BRIGHTER LONGER

PHOTOGRAPHIC LAMPS

Rating		Life Hours	Standard Cap	Price each	
Volts	Watts			s.	d.
PHOTO FLOOD					
100-130 and 200-260	250	2	} B.C. with fuse E.S. with Fuse G.E.S.	2	6
	275	2		2	0
	500	6		6	0
	1000	10		15	0
PHOTO PEARL					
100-130 and 200-260	500	100	E.S.	20	0
PHOTO ENLARGERS					
100-130 and 200-260	75	300	B.C. or E.S.	2	8
	100	300		2	10
DARK ROOM					
100-130 and 200-260	15	—	B.C. or E.S.	4	6*
	40 & 40	—	B.C.	9	6†
	40 & 17	—	B.C.	9	6‡

* Outside varnished green, yellow, orange, or red.

† Red bulb inside. ‡ Yellow bulb inside.

NOTE.—The marking on Photo Flood and Photo Pearl Lamps is on the side of the bulbs, thus making them suitable for use with photographic enlarging apparatus.

AEROPLANE LANDING LAMPS

These lamps have been specially designed to meet the exacting requirements of the Air Ministry.

Volts	Watts	Pre-focus Cap	Dimensions			Fila- ment	Price	
			Dia.	Overall Length	L.C.L.		s.	d.
12	144	D'ble Contact	60	95	41	T/P	18	6
24	240	Medium	80	125	57	C/C	24	6
10	240	Medium	60	92.5	37	C/C	25	0
10	350	Goliath	75	123	50	T/P	30	0
22	240	D'ble Contact	60	92.5	37	C/C	24	6
22	350	Goliath	75	123	50	C/C	30	0

T/P = Twin Pillar.

C/C = Coiled Coil.

USE MAZDA ELECTRIC LAMPS

CAR BULBS—SIMPLIFIED SERIES

Listed on this and the next page are the bulbs in most frequent demand for the vast majority of cars used in this country. For convenience of ordering, each bulb is designated by a catalogue number. Full information on the complete range of Mazda Car Bulbs is given on other pages.

MAZDA REGULATION BULBS

Mazda Regulation Bulbs, when correctly set, focussed, and maintained in an ordinary non-dipping headlamp, provide a flat beam complying with the law and giving ample light for the average motorist. The Single "U" Filament Bulb gives a safe light without dipping or manipulation. The Double Filament Bulb provides, in addition, an alternative beam covering the tree tops, etc., for occasional use at high speeds. The "Regulation" U filament is covered by Pat. No. 352063.

Catalogue No.	Volts	Watts	Cap	Price—Clear s. d.
HEADLIGHTS "REGULATION"—Single "U" Filament				
M 15	6	24	S.C.C.	2 3
M 16	12	36		2 3
M 17	12	48		3 3
M 18	12	60		4 3
HEADLIGHTS "REGULATION"—Double Filament "U" & "V"				
M 25	6	18 & 24	S.B.C.	3 3
M 26	12	24 & 36		3 3

HEADLIGHTS—Single "V" Filament

M 35	6	18	S.C.C.	2 0
M 36	6	24		2 0
M 37	6	36		3 0
M 38	12	36		2 0
M 39	12	48		3 0
M 40	12	60		4 0

HEADLIGHTS—Double Filament—with internal reflectors

M 45	6	24 & 18	S.B.C.	3 3
M 46	12	36 & 24		3 3

HEADLIGHTS—Double Filament—Bi-focal

M 50	6	18 & 24	S.B.C.	3 0
M 51	6	24 & 24		2 9
M 52	12	36 & 24		3 0

HEADLIGHTS—Double Filament—12 o/c. Type

M 55	6	18 & 18	S.B.C.	3 0
M 56	6	24 & 24		2 9
M 57	6	36 & 24		2 9
M 58	12	24 & 24		3 9
M 59	12	36 & 24		3 0

THEY STAY BRIGHTER LONGER

CAR BULBS—SIMPLIFIED SERIES

Catalogue No.	Volts	Watts	Cap	Price—Clear s. d.
SIDE, TAIL, AND DASH LIGHTS				
M 65	6	3	} S.C.C. {	1 0
M 66	12	6		1 0
STOPLIGHTS				
M 70	6	18 & 3	} S.B.C. {	2 0
M 71	12	18 & 3		2 6
INDICATOR LIGHTS				
M 75	6	1.8	M.C.C.	1 6
M 76	6	3	} M.E.S. {	1 0
M 77	12	2.4		1 0
M 78	12	3.6	M.C.C.	1 6
FESTOON or TRAFFICATOR LIGHTS				
M 80	6	3	—	1 6
M 81	6	6	—	1 9
M 82	12	3	—	1 6
M 83	12	6	—	1 9

CAR BULBS—COMPLETE RANGE

Volts	Watts	Cap	Clear s. d.	Daylight Blue s. d.
HEADLIGHTS—Single Filament—"Line" or "V"				
4	6*	} S.C.C. }	2 9	—
	8*		2 9	—
	6*		2 8	—
6	12		2 5	—
	18		2 0	—
	24		2 0	2 6
	30		2 6	—
	36		3 0	—
	12		2 11	—
12	24		2 0	—
	36		2 0	2 6
	48		3 0	3 9
	60		4 0	—
13.5	24	} B.C., S.B.C. or S.C.C. }	2 1	—
	36		2 1	—
	24		2 7	—
24	36		2 7	—
	48		3 5	—
"REGULATION" HEADLIGHT Single "U" Filament †				
6	24	} S.C.C. }	2 3	—
6	36		3 3	—
12	36		2 3	—
12	48		3 3	—
12	60		4 3	—
13.5	36		S.B.C. or S.C.C.	2 4

* Line filament only.

† Tip frosting 1d. each extra.

USE MAZDA ELECTRIC LAMPS

CAR BULBS—COMPLETE RANGE

Volts	Watts	Cap	Clear s. d.	Daylight Blue s. d.		
HEADLIGHTS—Double Filament						
6	12 & 3	S.B.C. or A.S.B.C.	3 6	4 4		
	12 & 12		3 6	—		
	18 & 3		3 3	4 1		
	18 & 18		3 0	—		
	24 & 18		3 0	3 9		
	24 & 24		2 9	3 5		
	30 & 30		4 6	—		
	36 & 24		2 9	—		
12	36 & 36		3 0	—		
	24 & 6		3 6	—		
	24 & 24		3 9	—		
	36 & 6		3 6	—		
	36 & 24		3 0	—		
	36 & 36		5 0	—		
	"REGULATION" HEADLIGHTS Double Filament "U" & "V"†					
	6		18 & 24	S.B.C. or A.S.B.C.	3 3	—
24 & 24		3 0	—			
12	24 & 36	3 0	—			
	24 & 36	3 3	—			
HEADLIGHTS—Double Filament with internal reflectors §						
6	6 & 6	Bosch or S.B.C.	4 3	—		
	12 & 12		3 6	—		
	18 & 18		3 6	—		
	24 & 18		3 3	4 1		
	30 & 24		4 0	—		
12	36 & 24		4 0	—		
	24 & 24		3 6	—		
	36 & 24		3 3	4 1		
13.5	24 & 24		3 7	—		
	36 & 24		3 7	—		
24	36 & 24		4 0	—		
HEADLIGHTS—Double Filament with Depressable Beam 12 o/c Type						
6	12 & 12	S.B.C. or A.S.B.C.	3 6	—		
	18 & 18		3 0	—		
	24 & 24		2 9	3 5		
	30 & 30		4 6	—		
	36 & 24		2 9	—		
12	24 & 24		3 9	—		
	36 & 24		3 0	—		
	36 & 36		5 0	—		
HEADLIGHTS—Double Filament—Bi-focal						
6	18 & 24	S.B.C. or A.S.B.C.	3 0	3 9		
	24 & 24		2 9	3 5		
12	36 & 24		3 0	—		

† Tip frosting 1d. extra. § Single Fil. 6v. 24w. or 12v. 36w. (without main fil.) 4/-
Satin Etching—No extra for Dble Fil. Reflector Type. Others 1d. extra.

THEY STAY BRIGHTER LONGER

CAR BULBS—COMPLETE RANGE

Volts	Watts	Cap	Price each s. d.
SIDE, TAIL, AND DASH LIGHTS			
2.4	{ 1.2 1.92 }	{ M.E.S. }	1 8 1 8
3	2	{ S.C.C. }	1 8
4	3		1 8
6	{ 3 6 }		1 0 1 2
8	4		1 8
12	{ 4 6 }		1 3 1 0
24	6	{ B.C., S.B.C. or S.C.C. }	1 8
STOPLIGHTS			
6	{ 12 18 & 3 }	{ S.C.C. }	2 0a 2 0a
12	18 & 3	{ S.B.C. }	2 6a
INDICATOR LIGHTS			
4	2	M.E.S.	1 6
6	1	M.C.C.	1 6
6	1.8	{ M.E.S. or M.C.C. }	1 6
6	2.5	M.C.C.	1 6
6	3	M.E.S.	1 0
8	1.6	M.E.S.	1 6
12	2.4	M.E.S.	1 0
12	2.4	M.C.C.	1 3
12	3.6	{ M.E.S. or M.C.C. }	1 6
16	3	M.E.S.	1 6
FESTOON or TRAFFICATOR LIGHTS			
4	3	—	2 0
6	3	—	1 6
6	6	—	1 9*
12	3	—	1 6
12	6	—	1 9*
TUBULAR			
12	6	{ S.B.C. or S.C.C. }	2 9 3 5
12	12		
DOME LIGHTS			
6	6	{ S.B.C. or S.C.C. }	2 6 2 9
12	9		

(a) A.S.B.C. cap with offset pins, 3d. extra. *38 m/m. only. 44 m/m. 2/- each.
CAPS: Except where specified in the tabulations the following extra charges for alternative caps are made:—For B.C., S.B.C., A.S.B.C., A.S.C.C., E.S. or S.E.S. 1d. each extra. For Bosch 3d. each extra. For Pre-focus 6d. each extra.

USE MAZDA ELECTRIC LAMPS

BUS BULBS

Volts	Watts	Cap	Clear s. d.	Pearl s. d.	Opal s. d.
* SINGLE FILAMENT HEADLIGHTS					
13.5	24	} B.C., S.B.C., or S.C.C. }	2 1*	—	—
13.5	36		2 1*	—	—
24	24		2 7*	—	—
24	36		2 7*	—	—
24	48		3 5*	—	—
* DOUBLE FILAMENT HEADLIGHTS—with internal reflectors.					
13.5	24 & 24	} Bosch or S.B.C. }	3 7*	—	—
13.5	36 & 24		3 7*	—	—
24	36 & 24		4 0*	—	—
SIDE, TAIL, AND DASH LIGHT					
24	6	} B.C., S.B.C. or S.C.C. }	1 8†	—	—
INTERIOR LIGHTS—GASFILLED					
12‡	10	} B.C. or S.B.C. }	2 2	2 2	2 5
12‡	12		1 8	1 8	1 11
24‡	12		2 3	2 3	2 6
24‡	15		2 3	2 3	2 6
24‡	20		2 3	2 3	2 6
12‡	10		1 11	1 11	2 2
12‡	12		1 7	1 7	1 10
24‡	12		2 0	2 0	2 3
24‡	15		2 0	2 0	2 3
24‡	20		2 0	2 0	2 3
INTERIOR LIGHT—VACUUM					
12	12	} B.C. or S.B.C. }	1 9	—	—
REAR, WING, & DESTINATION BOARD LIGHT					
12	6	} B.C. or S.B.C. }	1 4	—	—

* See also standard headlight bulbs on pages 32 to 34.

† 38 m/m dia. 58 m/m overall length. ‡ 50 m/m dia. 70 m/m overall length

‡ See also Side, Tail and Dash Lights on page 35.

BULBS for CYCLE SETS

Volts	Amps.	Cap	Price each s. d.
6	0.5	S.C.C.	1 0
6.5	0.3	M.C.C.	1 0
8	0.05	M.E.S.	1 0
8	0.45	M.E.S.	1 0
8	0.5	M.E.S.	1 0
10	0.05	M.E.S.	1 0
10	0.4	M.E.S.	1 0
10	0.45	M.E.S.	1 0
12	0.23	M.E.S.	1 0

NOTE.—May be supplied with clear or satin etched bulbs as desired.

MOTOR CAR LIGHTING INFORMATION

In the following tabulations are given the names of British, American, and Continental Cars together with particulars of the lamp bulbs used. The list is not necessarily complete, but we should be pleased to supply information on other makes on request.

Make of Car	Voltage of Lighting Set	Headlights		Sidelights		Tail-lights		Stoplights		Dashboard Lights		Interior Lights	
		Watts	Cap	Watts	Cap	Watts	Cap	Watts	Cap	Watts	Cap	Watts	Cap
A.C.	12	36	S.C.C.	6	S.C.C.	6	S.C.C.	24	S.C.C.	6	S.C.C.	6	Festoon
ALVIS 12/70 Crested Eagle and Silver Crest	12	36	S.C.C.	6	S.C.C.	6	S.C.C.	6	S.C.C.	2.4	M.E.S.	6	S.C.C.
4.3 litre and Speed Twenty-Five	12	48	S.C.C.	6	S.C.C.	6	S.C.C.	24	S.C.C.	2.4	M.E.S.	6	S.C.C.
ARMSTRONG-SIDDELEY													
14, 17, & 25 H.P.													
Special	12	36	S.C.C.	6	S.C.C.	6	S.C.C.	—	—	6	S.C.C.	6	S.C.C.
AUBURN	12	48	S.C.C.	6	S.C.C.	6	S.C.C.	—	—	6	S.C.C.	6	S.C.C.
AUSTIN, 8 H.P.	6	36/24	Prefocus	3	A.S.C.C.	3	A.S.C.C.	3/18	A.S.B.C.	3	A.S.C.C.	6	S.C.C.
Other Models	6	24	S.C.C.	3	S.C.C.	3	S.C.C.	3	S.C.C.	3	S.C.C.	3	S.C.C.
BENTLEY	12	36	S.C.C.	6	S.C.C.	6	S.C.C.	—	—	2.4	M.E.S.	6	S.B.C.
B.S.A. Scout Series 4	12	48	S.C.C.	3	S.C.C.	3	S.C.C.	—	—	3†	M.E.S.	6	Festoon
Scout Series 5 and 6	12	24	S.C.C.	3	S.C.C.	3	S.C.C.	3	S.C.C.	6†	S.C.C.	3	S.C.C.
BÜCK	6	36	S.C.C.	6	S.C.C.	6	S.C.C.	6	S.C.C.	3†	S.C.C.	2.4	S.C.C.
CADILLAC	6	30/30	Prefocus	2.5	M.C.C.	3	A.S.C.C.	3/18	Special	2.5	M.C.C.	6	A.S.C.C.
CHEVROLET	6	30/30	Prefocus	2.5	M.C.C.	3	A.S.C.C.	3/18	Special	2.5	M.C.C.	6	A.S.C.C.
CHRYSLER	6	36/24	Prefocus	3	A.S.C.C.	6	A.S.C.C.	—	—	1	M.C.C.	6	A.S.C.C.
	12	48/18	Prefocus	6	A.S.C.C.	6	A.S.B.C.	6/24	A.S.B.C.	4	A.S.C.C.	2.4	M.C.C.

† 16 volt. ‡ 12 volt.

MOTOR CAR LIGHTING INFORMATION—(continued)

Make of Car	Voltage of Lighting Set	Headlights		Sidelights		Tail-lights		Stoplights		Dashboard Lights		Interior Lights	
		Watts	Cap	Watts	Cap	Watts	Cap	Watts	Cap	Watts	Cap	Watts	Cap
CITROEN, Popular Models	6	36/24*	Bosch	6	Festoon	6	S.C.C.	6	S.C.C.	6	S.C.C.	6	S.C.C.
CORD	12	36	S.C.C.	6	S.C.C.	6	S.C.C.	6	S.C.C.	6	M.E.S.	6	S.B.C.
CROSSLÉY	12	3/24	Prefocus	3	A.S.C.C.	3	A.S.C.C.	3/18	A.S.B.C.	3	A.S.C.C.	6	A.S.C.C.
DAIMLER Straight 8 Models	12	36	S.B.C.	6	S.B.C.	6	S.B.C.	24	S.C.C.	6	S.B.C.	4	S.B.C.
Other Models	12	48	S.C.C.	6	S.C.C.	6	S.C.C.	24	S.C.C.	6	S.C.C.	—	—
DELAGE	12	36	S.C.C.	6	Festoon	6	Festoon	24	S.C.C.	24	M.E.S.	—	—
DODGE	12	36/36	3-pin B.C.	6	Festoon	6	A.S.B.C.	6/24	A.S.B.C.	6	Festoon	6	Festoon
DONNET-ZEDEL	12	48/18	Prefocus	6	A.S.C.C.	6	A.S.C.C.	—	—	4	A.S.C.C.	24	M.C.C.
FIAT	12	36	3-pin C.C.	6	S.C.C.	6	S.C.C.	—	—	6	A.S.C.C.	6	Festoon
FORD, All except "C" and "Y" Models	12	24/24*	Bosch	6	S.C.C.	6	S.C.C.	—	—	6	S.C.C.	3	—
"C" and "Y" Models	6	36/24	A.S.B.C.	6	A.S.C.C.	6	A.S.B.C.	3/18	A.S.B.C.	3	A.S.C.C.	3	A.S.C.C.
FRAZER-NASH	6	24/18	A.S.B.C.	6	A.S.C.C.	3	A.S.B.C.	3/18	A.S.B.C.	3	A.S.C.C.	—	—
HILLMAN Minx	12	36/24*	S.B.C.	12	S.B.C.	3	S.B.C.	—	—	6	S.B.C.	—	—
Other Models	6	24	S.C.C.	3	S.C.C.	3	S.C.C.	3	S.C.C.	18	M.E.S.	3	S.C.C.
HUDSON	12	36	S.C.C.	6	A.S.C.C.	4	A.S.C.C.	3/18	A.S.B.C.	24	M.E.S.	6	S.C.C.
HUMBER	12	36/36	A.S.B.C.	4	S.C.C.	6	S.C.C.	—	—	4	M.C.C.	18	A.S.C.C.
JOWETT	12	36	S.C.C.	6	S.C.C.	6	S.C.C.	6	S.C.C.	24	M.E.S.	6	Festoon
LAGONDA	12	36	S.C.C.	6	S.C.C.	6	S.C.C.	—	—	24	M.C.C.	6	S.B.C.
LANCHESTER	12	60	S.C.C.	6	S.C.C.	6	S.C.C.	24	S.C.C.	24	M.E.S.	6	S.C.C.
LANCIA APRILIA	12	36	S.C.C.	6	S.C.C.	6	S.C.C.	—	—	4	S.C.C.	6	Festoon
LAMBDA	6	36/36*	Bosch	6	Festoon	3	Festoon	—	—	3	Festoon	—	—
LA SALLE	12	36/24*	Bosch	6	S.C.C.	6	S.C.C.	—	—	6	Festoon	—	—
..	6	30/30	Prefocus	2.5	M.C.C.	3	A.S.C.C.	3/18	Special	2.5	M.C.C.	6	A.S.C.C.

* Headlight with internal reflector.

MOTOR CAR LIGHTING INFORMATION—(continued)

Make of Car	Voltage of Lighting Set	Headlights		Sidelights		Tail-lights		Stoplights		Dashboard Lights		Interior Lights	
		Watts	Cap	Watts	Cap	Watts	Cap	Watts	Cap	Watts	Cap	Watts	Cap
LINCOLN ZEPHYR ..	6	36/36	Prefocus	6	A.S.C.C.	3	A.S.C.C.	3/18	A.S.B.C.	25	M.C.C.	25	M.C.C.
MARMON ..	6	24/24	A.S.B.C.	6	A.S.C.C.	6	A.S.C.C.	—	—	3	A.S.C.C.	6	A.S.C.C.
MARQUETTE ..	6	18/18	A.S.B.C.	3	A.S.C.C.	3	A.S.C.C.	—	—	3	M.C.C.	6	A.S.C.C.
MERCURY ..	6	36/36	Prefocus	6	A.S.C.C.	3	A.S.C.C.	3/18	A.S.B.C.	25	M.C.C.	25	M.C.C.
M.G. Midgets M. & C.	6	12	S.C.C.	3	S.C.C.	3	S.C.C.	—	—	3	S.C.C.	3	S.C.C.
" Midget D.J. Magna F.L., & Magnette K	12	24	S.C.C.	6	S.C.C.	6	S.C.C.	—	—	6	S.C.C.	6	S.B.C.
" Midget P & PB, and Magnette N & KN	12	36	S.C.C.	6	S.C.C.	6	S.C.C.	—	—	4	S.C.C.	6	S.B.C.
" Midget T., Two Litre SA & WA, and 1½ Litre	12	36	S.C.C.	6	S.C.C.	6	S.C.C.	—	—	24	S.B.C.	6	S.C.C.
MINERVA 23 and 32 H.P.	12	36	3-pin C.C.	9	A.S.C.C.	6H	A.S.C.C.	—	—	6H	A.S.C.C.	6	A.S.C.C.
12-18 H.P.	12	36	3-pin C.C.	4	A.S.C.C.	4	A.S.C.C.	—	—	4	A.S.C.C.	6	A.S.C.C.
MORGAN 4/4 ..	12	36	S.C.C.	6	S.C.C.	6	S.C.C.	6	S.C.C.	6	S.C.C.	6	S.C.C.
MORRIS 8 Series I and II	6	24/18*	S.B.C.	3	S.C.C.	3	S.C.C.	3	S.C.C.	3	S.C.C.	—	—
8 Series E ..	6	24	S.C.C.	3	S.C.C.	3	S.C.C.	3	S.C.C.	3	S.C.C.	—	—
" Other Models	12	36	S.C.C.	6	S.C.C.	6	S.C.C.	6	S.C.C.	6	S.C.C.	6	S.C.C.
NASH ..	6	36/24	Prefocus	3	A.S.C.C.	3	A.S.C.C.	3/18	A.S.B.C.	3	A.S.C.C.	6	S.C.C.
OPEL ..	6	36/24*	Bosch	3	S.C.C.	6	S.C.C.	18	S.C.C.	1	M.C.C.	3	S.C.C.
PACKARD 1700, 1701, 1702 ..	12	36/36	Prefocus	4	S.C.C.	4	A.S.C.C.	18	A.S.C.C.	24	M.C.C.	6	A.S.C.C.
1703, 1705 ..	12	36/36	Prefocus	24	M.C.C.	4	A.S.C.C.	18	A.S.C.C.	24	M.C.C.	6	A.S.C.C.
RENAULT ..	12	36	S.C.C.	6	S.C.C.	6	S.C.C.	—	—	6	S.C.C.	—	—
RILEY ..	12	36	S.C.C.	6	S.C.C.	6	S.C.C.	—	—	6	S.C.C.	6	S.C.C.
ROLLS-ROYCE Phantom and 20-25 H.P.	12	48	S.C.C.	4	S.C.C.	4	S.C.C.	—	—	4	S.C.C.	—	—
" Silver Ghost	12	36	S.B.C.	6	S.B.C.	6	S.B.C.	—	—	6	S.B.C.	—	—

* Headlight with internal reflector.

† 6 volt.

MOTOR CAR LIGHTING INFORMATION—(continued)

Make of Car	Voltage of Lighting Set	Headlights		Sidelights		Tail-lights		Stoplights		Dashboard Lights		Interior Lights	
		Watts	Cap	Watts	Cap	Watts	Cap	Watts	Cap	Watts	Cap	Watts	Cap
ROVER	12	36	S.C.C.	6	C.C.	6	S.C.C.	—	—	6	S.C.C.	—	—
SINGER, 10 and 12 H.P.	12	36	S.C.C.	6	S.C.C.	6	S.C.C.	6	—	6	M.E.S.	6	Feetoon
Bantam and Roadster	12	36	S.C.C.	6	S.C.C.	6	S.C.C.	6	S.C.C.	6	M.E.S.	6	S.C.C.
S.S., 20 H.P. and 25 H.P.	12	60	S.C.C.	6	S.C.C.	6	S.C.C.	6	S.C.C.	6	S.C.C.	6	S.B.C.
S.TANDARD, 8 H.P.	12	36	S.C.C.	6	S.C.C.	6	S.C.C.	6	S.C.C.	6	S.C.C.	6	S.C.C.
Other Models	6	24	S.C.C.	3	S.C.C.	3	S.C.C.	3	—	3	M.E.S.	3	S.C.C.
STAR	12	36	S.C.C.	6	S.C.C.	6	S.C.C.	—	—	6	M.E.S.	6	S.C.C.
STUDEBAKER, Dictator	12	36	S.C.C.	6	S.C.C.	6	S.C.C.	—	—	6	S.C.C.	6	S.C.C.
Commander and President	6	30/30	Prefocus	2.5	M.C.C.	6	A.S.C.C.	3/18	A.S.B.C.	2.5	M.C.C.	6	A.S.C.C.
SWIFT, 8 H.P. Cadet	12	36/36	Prefocus	2.4	M.C.C.	5	A.S.C.C.	—	—	2.4	M.C.C.	6	A.S.C.C.
10 and 14-40 H.P.	6	18	S.B.C.	3	S.B.C.	3	S.B.C.	—	—	—	—	—	—
TALBOT, BE/10, BP/21	12	24	S.B.C.	6	S.B.C.	6	S.C.C.	6	S.C.C.	4	M.E.S.	6	S.B.C.
BG/110	12	36	S.C.C.	6	S.C.C.	6	S.C.C.	24	S.C.C.	6	S.C.C.	18	S.C.C.
TERRAPLANE	12	48	S.C.C.	6	S.C.C.	4	A.S.C.C.	3/18	A.S.B.C.	6	M.C.C.	6	A.S.C.C.
TRIUMPH	12	36/36	A.S.B.C.	6	S.C.C.	6	S.C.C.	—	—	6	S.C.C.	6	S.C.C.
TROJAN	12	36	S.C.C.	6	S.C.C.	6	S.C.C.	—	—	6	S.C.C.	6	S.C.C.
VAUXHALL Big Six	6	18	S.C.C.	3	S.C.C.	3	S.C.C.	—	—	3	S.C.C.	6	Feetoon
Light Six	12	36	S.C.C.	6	S.C.C.	6	S.C.C.	24	S.C.C.	6	S.C.C.	6	S.B.C.
10/4	12	36	S.C.C.	6	S.C.C.	6	S.C.C.	6	S.C.C.	6	S.C.C.	6	S.C.C.
WILLYS-KNIGHT	6	30	S.C.C.	3	S.C.C.	3	S.C.C.	3	—	3	A.S.C.C.	—	—
WOLSELEY	12	36	A.S.C.C.	6	S.C.C.	6	S.C.C.	6	S.C.C.	2.4	M.E.S.	6	S.C.C.

t 16 volt

§ 8 volt

THEY STAY BRIGHTER LONGER

BTH HANDLAMP TRANSFORMER

The use of handlamps connected directly to 200/250 volt mains can be highly dangerous and has led to many fatal accidents from electric shock.

The BTH Handlamp Transformer, which complies with B.S.S.794 and Home Office Regulations, eliminates this risk completely, as the output terminals, to which the flexible lamp lead is connected, are at a potential of 12 volts only.

These Transformers, together with a suitable handlamp, should be used instead of mains-connected lamps in all such places as garages, workshops, tramway pits, boiler houses, breweries, farms, etc., in fact, wherever inspection lamps are normally used, and especially where moisture or damp prevails.

The Transformer is of the air-insulated type and is provided with separate input and output windings, effectively insulated from each other. It is enclosed in a stout metal case, but is not to be regarded as a portable appliance; for this reason lugs are provided for fixing permanently to a wall or other flat surface.

The input winding is connected to an enclosed terminal board. A 3-core cable should be used for the mains connection, the earthed core of which should be brought back through the hole in terminal cover and connected to the earth terminal in accordance with the instructions given with each transformer.

The output winding is provided with a special socket and a 5 amp. fused plug with prong contacts. These contacts are not interchangeable with mains plugs. A locking screw is fitted to the plug and the fuses are of the cartridge replaceable type.

Primary (input) rating : 200/250 volts, 50 cycles.

Secondary (output) rating : 12 volts, 36 watts.

Dimensions : $8\frac{1}{2}$ in. \times $3\frac{3}{4}$ in. \times $3\frac{3}{4}$ in.

Lamp to be used in Handlamp : Mazda 12 volt, 36 watt

Headlight bulb, with S.B.C. Cap.

PRICES :—

BTH Handlamp Transformer with output plug	45/-
Reduction Adaptor for converting B.C. holder in Handlamp to S.B.C.	1/-

USE MAZDA ELECTRIC LAMPS

FLASHLIGHT LAMPS

Volts	Amps.	Cap regularly supplied	Prices on application
2.5 3.5	0.2 0.3	M.E.S.	

MINERS' CAP AND HANDLAMP BULBS

For use in—	Ratings		Standard Caps †	Price each	
	Volts	Amps.		Clear	Pearl

MINES DEPARTMENT—Category 1 (B.S.S. 535).

Cap Lamp	.. ..	2.0	1.0	E.10	1 6a	—
Hand ..	.. ..	2.5f	1.5	{ E.14 953 }	1 6	1 6
Hand ..	.. ..	2.5f	1.75	{ E.14 953 }	1 6	1 6
Cap ..	.. ..	4.0	{ 0.55 & 0.55 }	BA.15d	2 0	2 0
Hand ..	.. ..	4.0f	0.75	{ E.14 CEAG Peg.(b) }	1 6	1 6
Hand ..	.. ..	4.0f	1.0	{ E.14 CEAG }	1 6	1 6

MINES DEPARTMENT—Category 1 (KRYPTON FILLED).

Hand Lamp	2.5 f	1.5	{ E.14 953 }	1 11	1 11
Hand Lamp	2.5 f	1.75	{ E.14 953 }	1 11	1 11
Hand Lamp	4.0 f	0.75	{ E.14 Peg }	1 11	1 11
Hand Lamp	4.0 f	1.0	{ E.14 }	1 11	1 11

MINES DEPARTMENT Category 2.

Cap Lamp	.. ..	2.0	0.85	E.10	1 10ac	—
Cap ..	.. ..	2.0	0.85	E.14	1 6	1 6
Cap ..	.. ..	2.5	0.5	E.10	1 8	—
Cap ..	.. ..	2.5	1.0	{ E.10 953 }	1 10e	1 10e
Cap ..	.. ..	2.5	1.0	{ E.14 953 }	1 8	1 8
Cap ..	.. ..	2.5	{ 1.0 & 0.75 }	BA.15d	2 6	2 6
Cap ..	.. ..	2.5	1.25	E.10	1 10	—
Cap ..	.. ..	4.0	0.65	E.10	1 8a	—

† E.14 = E.14/23 × 15 = S.E.S.
953 = S.C.C.

E.10 = E.10/13 = M.E.S.
BA.15d/21 = S.B.C.

- (a) May be supplied $\frac{1}{2}$ externally frosted without extra charge.
 (b) With pip. (c) Squat bulb. (e) Round Bulb.
 (f) May be supplied with fuse in cap without extra charge.

THEY STAY BRIGHTER LONGER

BTH LIGHT METER

FOR DOMESTIC, INDUSTRIAL AND GENERAL LIGHTING.

In these days when the importance of good illumination is becoming generally recognised, the possession of a reliable instrument for the more common measurements in connection with lighting is a first necessity to all who are responsible for the design or upkeep of lighting installations.

The BTH Light Meter has been designed as a high quality instrument at the lowest price compatible with good performance. It consists of a micro-ammeter so calibrated as to give direct readings of the illumination falling on the cell face, in terms of foot-candles.

Up to 75 foot-candles may be taken direct, but by the use of the special plate supplied, readings up to 750 foot-candles may be obtained.

The instrument (which weighs only seven ounces) may be carried in the pocket. A special pigskin case is provided with each instrument.

The smallness and compactness of this light-meter, in fact, suggests that it should form part of the equipment of all lighting engineers, contractors, etc., who will find it invaluable, not only for direct measurement of illumination levels but for ascertaining reflection and transmission factors, brightness, etc.

For the majority of illuminants, this instrument may be used for taking direct readings. For sodium lighting, however, it is necessary to *add* one-third to scale reading, and for daylight to *subtract* one-third.

PRICE :

BTH Light Meter—complete with
special Pigskin case

£4 : 17 : 6

USE MAZDA ELECTRIC LAMPS

MAZDALUX INDUSTRIAL FITTINGS.

On this and following pages some of the principal types of Mazdalux Industrial Fittings are listed. Only fittings with DISPERSIVE reflectors are included, but they are also available with other reflector types, including DISTRIBUTING, CONCENTRATING 45° ANGLE, ELLIPTICAL ANGLE and VERTICAL ELLIPTICAL.

For complete range of Mazdalux Industrial Fittings, please write for catalogue.

LOW-TEMPERATURE TYPE—DISPERSIVE.

For Indoor use.

Embodying an easy wiring box designed to safeguard cables from injurious temperatures and an overlamp reflector which can be instantly removed for cleaning. This assembly is fitted with patented BTH Heat Baffle, when necessary, to ensure that lamp cap temperatures shall not exceed the limit for safe operation.

Watts	Holder	Catalogue No.	Price each £ s. d.
For use with MAZDA GASFILLED LAMPS*			
100	B.C.	C 70497	18 0
150	B.C.	C 70498	18 6
150	E.S.	C 70499	19 9
200	E.S.	C 70500	1 2 6
300	G.E.S.	C 70501	1 10 6
500	G.E.S.	C 70502	1 13 0
750—1000	G.E.S.	C 70503	2 0 6
For use with MERCRA LAMPS			
80	3-pin B.C.	C 70495	18 6
125	3-pin B.C.	C 70496	1 2 0
250	G.E.S.	C 70538	1 12 0
400	G.E.S.	C 70539	1 18 6
For use with MERCRA FLUORESCENT LAMPS			
80	3-pin B.C.	C 73265	1 9 0
125	G.E.S.	C 70501	1 10 6
400 †	G.E.S.	C 70539	1 18 6
400 ‡	G.E.S.	C 70546	2 5 0

* Clear or Pearl Lamps. Opal Lamps can also be used, but for lamps above 100 watts, the next larger size of fitting must be specified.

† For Tubular Lamp only.

‡ For Iso-Thermal Lamp only.

WEATHERPROOF TYPE—DISPERSIVE.

For Outdoor use.

Fitted with cast iron hinged top, housing BTH patented watershed giving rigidity, in all weathers, and easy wiring. Overlamp and Low Temperature features are also embodied.

Watts	Holder	Catalogue No.	Price each £ s. d.
For use with MERCRA LAMPS			
250	G.E.S.	C 70889	2 12 0
400	G.E.S.	C 70888	3 0 0

BTH Lighting Engineers will be pleased to advise, without obligation, on any contemplated Industrial Lighting Scheme.

THEY STAY BRIGHTER LONGER

MAZDALUX INDUSTRIAL FITTINGS.

DETACHABLE REFLECTOR TYPE—DISPERSIVE.

For Indoor and Outdoor use.

Watts	Holder	Catalogue No.	Price each £ s. d.
For use with MAZDA GASFILLED LAMPS *			
100	B.C.	C 70146	11 9
150	B.C.	C 70147	11 9
150	E.S.	C 70148	12 9
200	E.S.	C 70149	16 9
300	G.E.S.	C 70150	1 3 0
For use with MERCRA LAMPS			
80	3-pin B.C.	C 69115	11 9
125	3-pin B.C.	C 69116	15 9
For use with MERCRA FLUORESCENT LAMPS			
80	3-pin B.C.	C 73271	15 9
125	G.E.S.	C 73277	1 3 0

NOTE.—These reflectors may also be supplied with fixed top at prices slightly lower than the above. Full details and prices on application.

* Clear or Pearl Lamps. Opal Lamps can also be used, but for lamps above 100 watts, the next larger size of fitting must be specified.

SHADE RING TYPE—1½ in. hole—DISPERSIVE.

Watts	Holder	Catalogue No.	Price each excluding Holder s. d.
For use with MAZDA GASFILLED LAMPS			
40	B.C.	C 70638	4 6
60	B.C.	C 70639	4 9
100	B.C.	C 70640	6 0

MAZDALUX "NINE" PROJECTOR.

This is a general purpose exterior lighting unit with a wide beam spread which, while primarily intended for the lighting of works, avenues, frontages, yards, and railway sidings, is particularly suitable for the illumination of open-air sports arenas and playgrounds, car parks, and garage facades and forecourts, etc. The projector is constructed of aluminium alloy for lightness and strength with a heavy gauge sheet steel reflector, vitreous enamelled to ensure high reflectivity.

Fixing attachments are available for standard trunnion, back-plate, spigot, and pole-clamp mounting, each ready wired with asbestos covered cables.

The Mazdalux "Nine" Floodlight Projector is designed for use with 300, 500, or 1000 watt Mazda Lamp or 250 or 400 watt Mercra Lamp.

PRICES FROM £5 8s. 6d.

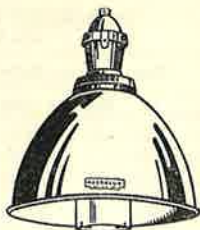
Please write for full particulars.

USE MAZDA ELECTRIC LAMPS

MAZDALUX INDUSTRIAL FITTINGS



Low-Temperature Type
for 100/1000 w. Mazda or
80-125 w. Mercra Lamp.



Weatherproof Type.



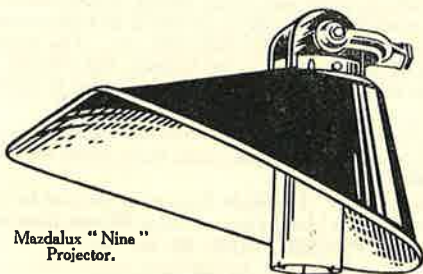
Low-Temperature Type
for 250 w. or 400 w.
Mercra Lamp.



Fixed Reflector Type.



Shade Ring Type.



Mazdalux "Nine"
Projector.

THEY STAY BRIGHTER LONGER

BTH AUXILIARY EQUIPMENT.

CHOKES.

Specification. Standard Protected Type MRB for use with Mercra Lamps, complying with Home Office Regulations. Theappings, which are brought out to a separate terminal chamber, are at intervals of 5-volts to give easy adjustment within the limits of the measured line voltage.

80 watt : £1 15s. 8d.	250 watt : £1 17s. 8d.
125 watt : £1 17s. 4d.	400 watt : £2 5s. 4d.

Please state voltage when ordering.

CONDENSERS.

(For power factor correction of Mercra Lamp Circuits).

Specification. Supplied in a strong metal casing complete with fixing lugs, and equipped with internal safety leaks for maximum safety in handling. T.R.S. leads 12 in. long are brought out of the casing.

10 mfd. 80 watt	9s. 8d.	25 mfd.	£1 0s. 0d.
13 " 125 watt	11s. 4d.	30 " "	£1 2s. 8d.
15 " 250 watt	12s. 8d.	40 " "	£1 7s. 8d.
20 " 400 watt	15s. 4d.	60 " "	£1 18s. 4d.

NOTE.—Condensers can be supplied with conduit entry at 1s. 4d. each extra.

CONTROL BOXES.

INDOOR TYPE L/J.

Specification. Sheet Steel Hot Galvanized box for interior use. Deep lid fitted with special catch. Each box contains choke, condenser, and porcelain connectors. Fitted with cable inlets at both ends, and four fixing feet.

80 watt : £3 5s. 4d.	250 watt : £3 10s. 4d.
125 watt : £3 8s. 8d.	400 watt : £4 0s. 8d.

OUTDOOR TYPES LM/K & LM/H.

Heavy cast iron construction complete with choke, condenser and fuses with space for time switch.

80 watt (LM/K) £3 14s. 0d.	250 watt (LM/K) £4 1s. 0d.
125 watt (LM/K) £3 17s. 4d.	400 watt (LM/H) £4 19s. 4d.

Please state voltage when ordering.

G.E.S. LAMPHOLDER.

Specification. Body of glazed porcelain. Solid centre plunger supported by non-current carrying spring. Screwed socket split in four places and fitted with external spring to provide firm even pressure on lamp cap. All metallic parts are non-ferrous. With or without Home Office type skirt, as desired.

PRICE 4/- EACH.

USE MAZDA ELECTRIC LAMPS

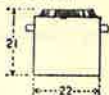
LAMP CAPS

The illustrations are approximately one-third full size, with nominal dimensions in millimetres.

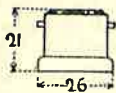
Bayonet Caps Double Contact (B.C.)



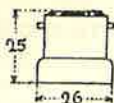
Plan of barrel
of Caps



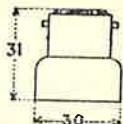
No. B22/21.



No. B22/21 x 26.



No. B22/25 x 26.



No. B22/31 x 30.

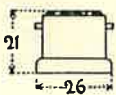
Centre Contact (C.C.)



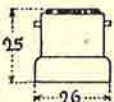
Plan of barrel
of Caps



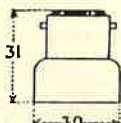
No. B22s/21.



No. B22s/21 x 26.

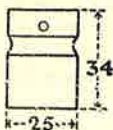
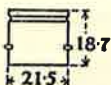


No. B22s/25 x 26.



No. B22s/31 x 30.

3-pin Centre Contact



Hollow Tubular



Bosch

No. BA 20d.

No. BA 20s.

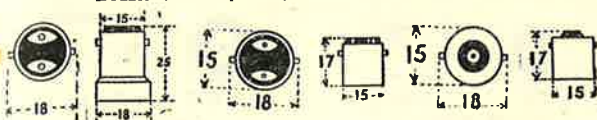
THEY STAY BRIGHTER LONGER

LAMP CAPS—(Continued)

Small Bayonet Caps

Double Contact (S.B.C.)

Centre Contact (S.C.C.)



No. B15/25 x 18

No. BA 15d/17

No. BA 15e/17

American S.B.C. and American S.C.C. have shorter pins,
and slightly longer barrel.

Edison Screw Caps

Standard (E.S.)

Miniature (M.E.S.)



No. E 27/25



No. E 10/13

Goliath (G.E.S.)



No. E 40/45

Miners' Hand-Lamp Caps



No. E 14/23 x 15



CEAG

Festoon Lamp Caps



No. S7/8

Nos. 85/8

Nos. 9/10 x 12

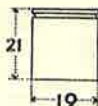
LAMP CAPS—(Continued)

Caps for Double Ended Tubular Caps

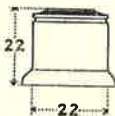
Centre Contacts



No. S. 15s.



No. S. 19s.

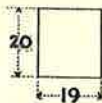


No. S. 22s.

Clip Contacts

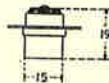
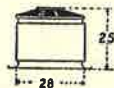
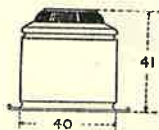


No. S. 15



No. S. 19

Pre-focus Caps.

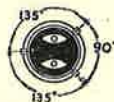


No. P. 40/41

No. P. 28/25

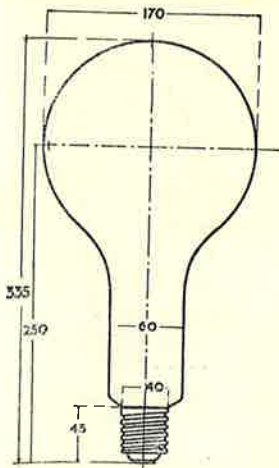
No. P. 15/19

3-pin Bayonet Cap—No. B 22/25 × 26 (3-pin)

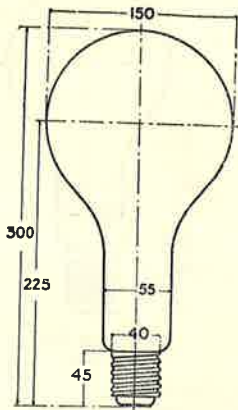


OUTLINES—MAZDA ELECTRIC LAMPS

Dimensions in Millimetres



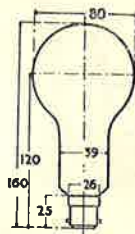
1500 w. G.E.S. Cap.
G.F. Clear.



1000 & 750 w. G.E.S. Cap.
G.F. Clear.



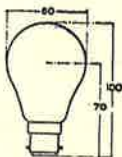
200 w. E.S. Cap.
G.F. Clear.



150 w. B.C. Cap.
G.F. Clear.



40 w. B.C. Cap.
Pearl, G.F. Clear,
G.F. Traction,
Coiled-Coil, Type "O"
and BTH Type "B."



25 w. B.C. Cap.
Pearl, G.F. Clear,
Vac. Clear, and
Type "O."



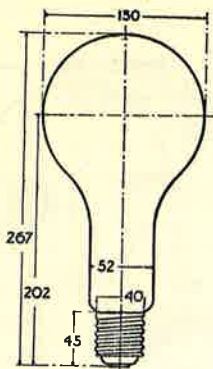
15 w. B.C. Cap.
Pearl & Vac. Clear,
Type "O." and
25 w. BTH Type "B."

Illustrations approximately one-sixth full size.

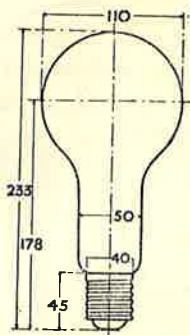
All dimensions given above are subject to manufacturing tolerances.

OUTLINES—MAZDA ELECTRIC LAMPS

Dimensions in Millimetres



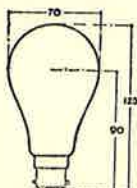
500 w. G.E.S. Cap.
G.F. Clear.



300 w. G.E.S. Cap.
G.F. Clear.



100 w. B.C. Cap.
Pearl, G.F. Clear,
Coiled-Coil, Type "O,"
and BTH Type "B."



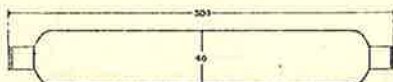
75 w. B.C. Cap.
Pearl, G.F. Clear,
Coiled-Coil, and
Type "O."



60 w. B.C. Cap.
Pearl, G.F. Clear,
G.F. Traction,
Coiled-Coil, Type "O,"
and BTH Type "B."



40 & 60 w. E.S. Cap. Longlite.



100 w. C.C. Cap. Double Ended Tubular.

Illustrations approximately one-sixth full size.

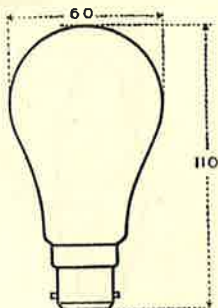
All dimensions given above are subject to manufacturing tolerances.

OUTLINES—MAZDA ELECTRIC LAMPS

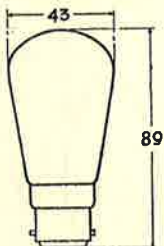
Dimensions in Millimetres



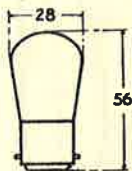
25 w. S.B.C. Cap.
Single Ended Tubular.



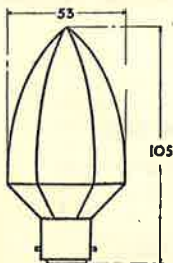
30 & 40 w. B.C. Cap. Vac. Traction.



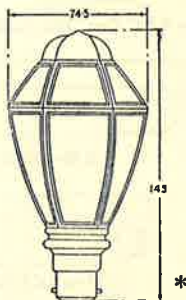
10, 15 & 20 w. B.C. Cap. Sign



15 w. B.C. Cap.
Pygmy Bulb. Sign.



25 w. B.C. Cap. Gothic.



40 w. B.C. Cap. Newel.

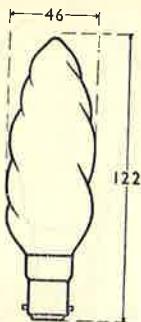
Illustrations approximately one-third full size.

** This illustration is approximately one-quarter full size.*

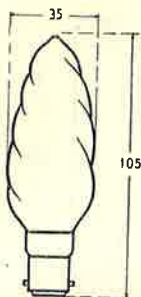
All dimensions given above are subject to manufacturing tolerances.

OUTLINES—MAZDA ELECTRIC LAMPS

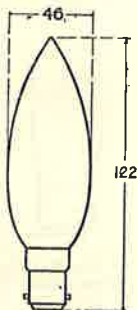
Dimensions in Millimetres



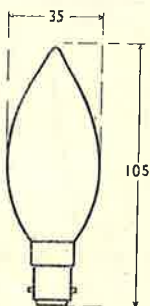
Twisted Candle.
40 w. S.B.C. Cap.



Twisted Candle.
25 w. S.B.C. Cap.



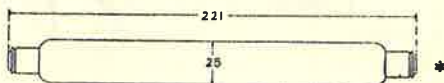
40 w. S.B.C. Cap. Plain Candle.



25 w. S.B.C. Cap. Plain Candle.



30 & 60 w. S.C.C. Cap. Double Ended Tubular.



30 w. S.C.C. Cap. Double Ended Tubular.

Illustrations approximately one-third full size.

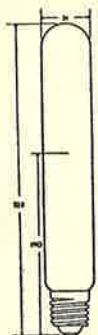
* *These illustrations are approximately one-quarter full size.*

All dimensions given above are subject to manufacturing tolerances.

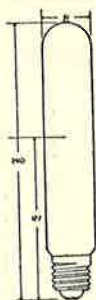
NOTE.—MAZDA LIGHT TUBES: Dimensioned outlines are given on page 16.

OUTLINES—MERCRA ELECTRIC LAMPS

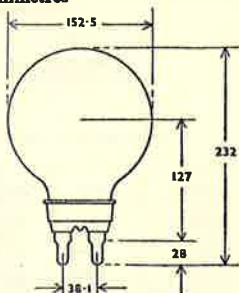
Dimensions in Millimetres



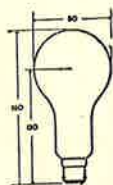
400 w.
G.E.S. Cap.
Mercra.



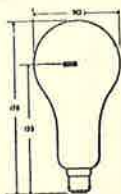
250 w.
G.E.S. Cap.
Mercra.



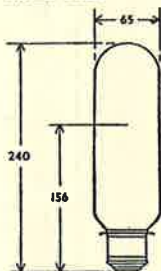
500 w. Bipost Cap.
Mercra Projector Lamp
Round Bulb.



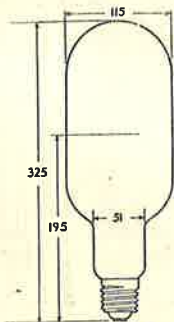
80 w.
3-pin B.C. Cap.
Mercra.



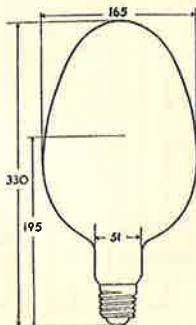
125 w.
3-pin B.C. Cap.
Mercra and Mercra with
Ultra-Violet Filter Bulb.



500 w. Pre-focus Cap.
Mercra Projector Lamp
Tubular Bulb.



400 w. G.E.S. Cap.
Mercra Fluorescent
Tubular Bulb.



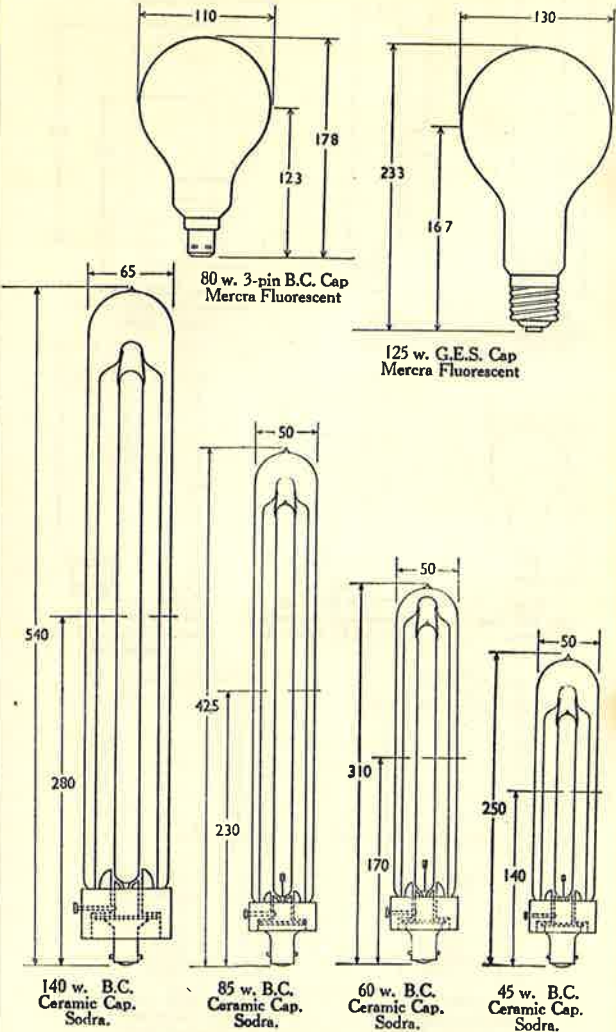
400 w. G.E.S. Cap.
Mercra Fluorescent
Iso-Thermal Bulb.

Illustrations approximately one-eighth full size.

All dimensions given above are subject to manufacturing tolerances.

OUTLINES—MERCRA & SODRA ELECTRIC LAMPS

Dimensions in Millimetres



Illustrations approximately one-sixth full size.

All dimensions given above are subject to manufacturing tolerances.

THEY STAY BRIGHTER LONGER

CONVERSION TABLE

MILLIMETRES INTO INCHES (to $\frac{1}{32}$ of an inch).

m/m	Inches	m/m	Inches	m/m	Inches
1	0 1/25	40	1 9/16	80	3 5/32
2	0 1/12	41	1 5/8	81	3 3/16
3	0 1/8	42	1 21/32	82	3 7/32
4	0 5/32	43	1 11/16	83	3 9/32
5	0 3/16	44	1 23/32	84	3 5/16
6	0 1/4	45	1 25/32	85	3 11/32
7	0 9/32	46	1 13/16	86	3 3/8
8	0 5/16	47	1 27/32	87	3 7/16
9	0 11/32	48	1 7/8	88	3 15/32
		49	1 15/16	89	3 1/3
10	0 13/32	50	1 31/32	90	3 17/32
11	0 7/16	51	2	91	3 19/32
12	0 15/32	52	2 1/16	92	3 5/8
13	0 1/2	53	2 3/32	93	3 21/32
14	0 9/16	54	2 1/8	94	3 11/16
15	0 19/32	55	2 5/32	95	3 3/4
16	0 5/8	56	2 7/32	96	3 25/32
17	0 21/32	57	2 1/4	97	3 13/16
18	0 23/32	58	2 9/32	98	3 27/32
19	0 3/4	59	2 5/16	99	3 29/32
20	0 25/32	60	2 3/8	100	3 15/16
21	0 13/16	61	2 13/32	101	3 31/32
22	0 7/8	62	2 7/16	102	4 1/32
23	0 29/32	63	2 15/32	103	4 1/16
24	0 15/16	64	2 17/32	104	4 3/32
25	0 31/32	65	2 9/16	105	4 1/8
26	1 1/32	66	2 19/32	106	4 3/16
27	1 1/16	67	2 5/8	107	4 7/32
28	1 3/32	68	2 11/16	108	4 1/4
29	1 5/32	69	2 23/32	109	4 9/32
30	1 3/16	70	2 3/4	110	4 11/32
31	1 7/32	71	2 25/32	111	4 3/8
32	1 1/4	72	2 27/32	112	4 13/32
33	1 5/16	73	2 7/8	113	4 7/16
34	1 11/32	74	2 29/32	114	4 1/2
35	1 3/8	75	2 15/16	115	4 17/32
36	1 13/32	76	3	116	4 9/16
37	1 15/32	77	3 1/32	117	4 19/32
38	1 1/2	78	3 1/16	118	4 21/32
39	1 17/32	79	3 1/8	119	4 11/16

USE MAZDA ELECTRIC LAMPS

DISCOUNT TABLES.

All discounts commonly used in the electrical trade are included in these tables. To find total discount on an amount such as £163 16s. 11d. add the discounts on the following separate amounts:—£100; £60; £3; 16s.; 11d.

	2½%			5%			7½%			10%			12½%			15%		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
d.																		
1																		
2																		
3																		
4																		
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THEY STAY BRIGHTER LONGER

DISCOUNT TABLES.

20%			21%			22%			23%			24%			25%			26%		
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USE MAZDA ELECTRIC LAMPS

DISCOUNT TABLES.

	27%	28%	29%	30%	33 $\frac{1}{3}$ %	42 $\frac{1}{2}$ %
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PATENT NOTICE

MAZDA LAMPS

Mazda Lamps are made in England by The British Thomson-Houston Co., Ltd., under one or more of the following British Patents:—

223204	231449
226215	272934
226455	289478
228189	352063
228907	425653

and others.

MERCRA LAMPS

Mercra Lamps are manufactured in England by The British Thomson-Houston Co., Ltd., under one or more of the following British Patents:—

228907	410787
344497	422364
384067	428084
391971	434720
397162	467432
401846	

and others.

