

Standard Incandescent Lamps

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Note

Where lamps are catalogued with a dual voltage rating, the electrical characteristics shown are those applicable at the filament design point, details of which are available on application.

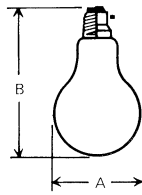
General lighting service lamps

SINGLE COIL High and low voltage

Watts	Voltages		Cap	Finish	Standard Pack
15	110/120		240 250 BC	Pearl	25
15	110/120		240 ES	Pearl	25
25	110	220/230	240 250 BC	Pearl	25
25			240 ES	Pearl	25
40			240 BC	Clear	25
40	110 120	220/230	240 250 BC	Pearl	25
40	120		ES	Clear	25
40	110 120		240 250 ES	Pearl	25
40			240 SBC	Pearl	25
60	110	220/230	240 250 BC	Clear	25
60	110 120	200/210 220/230	240 250 BC	Pearl	25
60	110		240 ES	Clear	25
60	110 120	220/230	240 250 ES	Pearl	25
60			240 SBC	Pearl	25
75			240/250 BC	Pearl	25
100	110 120		240 250 BC	Clear	25
100	110 120	220/230	240 250 BC	Pearl	25
100	110		240 ES	Clear	25
100	110 120	220/230	240 250 ES	Pearl	25
100			240 SBC	Pearl	25
150		220/230	240 250 BC	Clear	25
150	110 120	200/210 220/230	240 250 BC	Pearl	25
150	110 120	220/230	240 250 ES	Clear	25
150	110 120	220/230	240 250 ES	Pearl	25
200			240 250 BC	Clear	25
200	110	220/230	240 250 BC	Pearl	25
200	110 120	220/230	240 250 ES	Clear	25
300	110 115 120	220/230	240 250 GES	Clear	10
300	110		240 250 ES	Clear	10
500	110 120	220/230	240 250 GES	Clear	10
750	110		240 250 GES	Clear	10
1000	110		240 250 GES	Clear	10
1500			240 250 GES	Clear	6

SINGLE COIL Extra low voltage

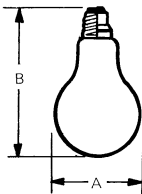
Watts	Voltages		Cap	Finish	Standard Pack
15		25 50	BC	Pearl	25
15		50	ES	Pearl	25
25		25 50	BC	Pearl	25
25		25 50	ES	Pearl	25
40		12 25 50	BC	Pearl	25
40		25 50	3pin BC	Pearl	25
40		25 50	ES	Pearl	25
60		12 25 50	BC	Pearl	25
60		25 50	3pin BC	Pearl	25
60		25 50	ES	Pearl	25
100		25 50	BC	Pearl	25
100		25 50	ES	Pearl	25
300		50	GES	Clear	10



SINGLE COIL—h. & l. volt.

	A	B
15- 100W BC	60	105
150- 200W BC	80	160
300- 500W GES	110	233
750-1000W GES	130	300
1500W GES	170	335

(For ES Caps add 1.5mm to length of BC equivalent)



SINGLE COIL—e. l. volt.

	A	B
15-100W BC	60	105
300W GES	110	233

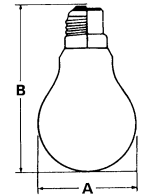
(For ES Caps add 1.5mm to length of BC equivalents)

All dimensions in mm

Home lighting lamps

PLUS LAMPS—COILED COIL

Watts	Voltages		Cap	Finish	Standard Pack
40			240 250 BC	Clear	25
40	200/210		240 250 BC	Pearl	25
60			240 250 BC	Clear	25
60	200/210	220/230	240 250 BC	Pearl	25
100			240 250 BC	Clear	25
100	200/210	220/230	240 250 BC	Pearl	25
100			240 250 ES	Pearl	25
150			240 250 BC	Clear	25
150			240 250 BC	Pearl	25
150			240 250 ES	Pearl	25



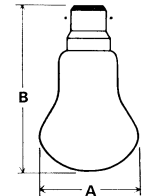
PLUS LAMP

	A	B
40 - 100W BC	60	105
150W BC	68	125

(For ES Caps add 1.5mm to lamps of equivalent BC)

NETABULB

Watts	Voltages		Cap	Finish	Standard Pack
40	240/250		BC	Silverlight	25
60	240/250		BC	Silverlight	25
100	240/250		BC	Silverlight	25
150	240/250		BC	Silverlight	25
150	240/250		BC	Pearl	25

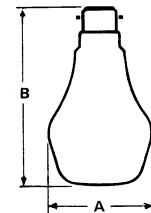


NETABULB

	A	B
40W	60	100
60W	60	100
100W	60	100
150W	75	120

PURLUX

Watts	Voltages		Cap	Finish	Standard Pack
60	240		BC	Pearl	25
100	240		BC	Pearl	25

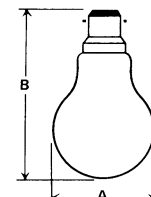


PURLUX

	A	B
60 & 100W	65	112

PINK PEARL

Watts	Voltages		Cap	Finish	Standard Pack
40	240/250		BC	Pink	10
60	240/250		BC	Pink	10
100	240/250		BC	Pink	25
150	240/250		BC	Pink	25



NIGHTLIGHT & PINK PEARL

	A	B
5-8W	60	105
40 and 60W	60	105
100W	68	125
150W	80	160

NIGHTLIGHT

Watts	Voltages		Cap	Finish	Standard Pack
5-8	200/250		BC	Pearl	10

All dimensions in mm

Decorative and coloured lamps

PLAIN CANDLE

Watts	Voltages	Cap	Finish	Standard Pack
25	240/250	BC, SBC	Clear	50*
25	240/250	BC, SBC	Pearl	50*
25	240/250	BC, SBC, SES	Silverlight	50*
40	240/250	BC, SBC, SES	Clear	50*
40	240/250	BC, SBC	Pearl	50*
40	240/250	BC, SBC, SES	Silverlight	50*
60	240/250	BC, SBC	Clear	50*
60	240/250	BC, SBC	Pearl	50*
60	240/250	BC, SBC	Silverlight	50*

PLAIN CANDLE – COLOURED

Watts	Voltages	Cap	Finish	Standard pack
25	240/250	BC	Amber	50*
40	240/250	BC	Amber	50*

PLAIN CANDLE – PINK PEARL

Watts	Voltages	Cap	Finish	Standard pack
40	240/250	BC, SBC	Pearl bulbs with internal light pink diffuse coating	50*
60	240/250	BC, SBC	Pearl bulbs with internal light pink diffuse coating	50*

TWISTED CANDLE

Watts	Voltages	Cap	Finish	Standard Pack
25	240/250	BC, SBC	Clear	50*
25	240/250	BC, SBC	Pearl	50*
40	240/250	BC, SBC	Clear	50*
40	240/250	BC, SBC	Pearl	50*
60	240/250	BC, SBC	Clear	50*
60	240/250	BC, SBC	Pearl	50*

TWISTED CANDLE – TIPPED

Watts	Voltages	Cap	Finish	Standard Pack
40	240/250	BC	Amber tip, Pink tip	50*
60	240/250	BC	Amber tip, Pink tip	50*

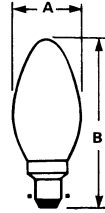
ROUND BULB

Watts	Voltages	Cap	Finish	Standard Pack
25	240/250	BC, SBC, SES	Silverlight	50*
40	240/250	BC, SBC, ES, SES	Silverlight	50*

ROUND BULB FESTIVE

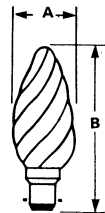
Watts	Voltages	Cap	Finish	Standard Pack
15	200/250	BC, ES	Amber, blue, green, red, white, yellow	50*
25	200/250	BC, ES	Amber, blue, green, red, white, yellow	50*

*Standard pack consists of 5 x 10-way packs per container



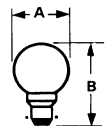
PLAIN CANDLE

	A	B
25W-40W BC	35	92
SBC	35	98
SES	35	99
60W BC	45	123
SBC	45	128



TWISTED CANDLE

	A	B
25W BC	35	95
SBC	35	99
40W-60W BC	46	123
SBC	46	128



ROUND BULB

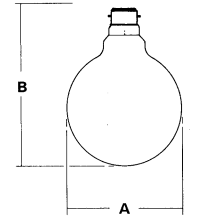
	A	B
BC	45	65
SBC	45	70
SES	45	74

All dimensions in mm

Decorative and coloured lamps

DECOR ROUND LAMPS

Watts	Voltages	Cap	Finish	Standard Pack
40	240/250	BC, ES	Clear	10
40	240/250	BC, ES	Silverlight	10
40	240/250	BC, ES	Amber, red, green, purple	10
40	240/250	BC, ES	Crown Silvered	10
60	240/250	BC	Silverlight	10

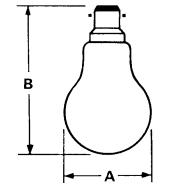


DECOR ROUND LAMP

	A	B
	100	139

COLOURED GLS

Watts	Voltages	Cap	Finish	Standard Pack
15	200/250	BC, ES	Amber, blue, green, pink, white, yellow, red	100*
25	200/250	BC, ES	Amber, blue, green, pink, white, yellow, red	100*
40†	200/250	BC, ES	Amber, blue, green, pink, yellow, red	100*
60†	200/250	BC	Amber, blue, green, pink, yellow, red	100*
60†	200/250	ES	Amber, blue, green, red, yellow	100*
100†	200/250	BC	Amber, blue, green, pink, yellow, red	100*
150†	200/250	BC	Amber, pink, red, yellow	100*
150†	200/250	ES	Amber	100*



COLOURED GLS

	A	B
15W-60W	60	105
100W	68	125
150W	80	160

GALA LIGHTING SET – LAMPS

Watts	Voltages	Cap	Finish	Standard Pack
25	200/250	BC	Amber, blue, green, pink, red, yellow	12 i.e. 2 of each colour

GALA LIGHTING SET – STRING

A string of 12 BC waterproof lampholders for gala lamps.

*10 x 10—way packs per container.

†Not suitable for outdoor use unless enclosed for protection against rain

All dimensions in mm

Tubular lamps

ARCHITECTURAL CURVED — $\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{2}$ circle

Watts	Voltages	Cap	Finish	Standard Pack
60	240/250	Peg	Opal	1

ARCHITECTURAL STRAIGHT — Striplites

Watts	Voltages	Cap	Finish	Standard Pack
35	240/250	Peg	Opal	1
53	240/250	Peg	Opal	1
60	240/250	Peg	Opal	1
60	240/250	Double centre contact S14d	Opal	1
75	240/250	Peg	Opal	1
110	240/250	Peg	Opal	1
150	240/250	Peg	Opal	1

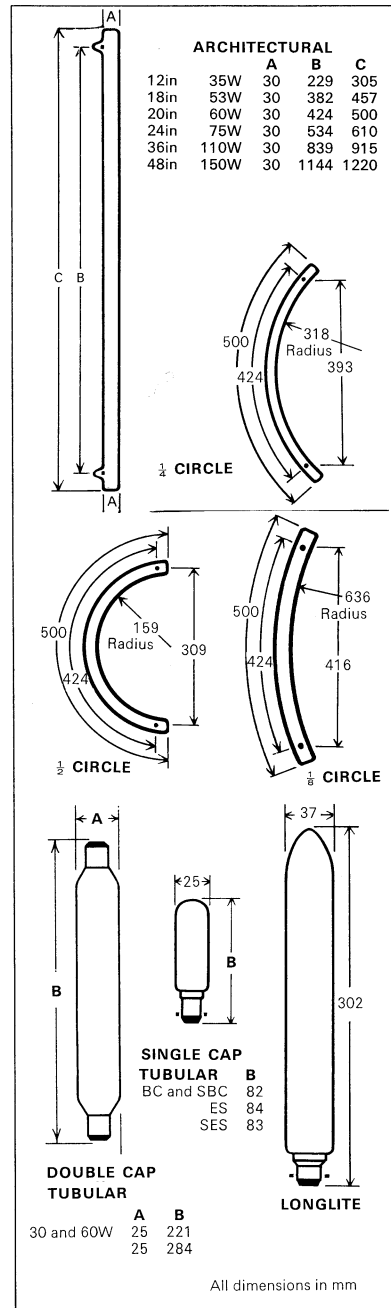
DOUBLE CAP TUBULAR — Striplites

Watts	Voltages	Cap	Finish	Standard Pack
30 or 60	240/250	S15s	Clear	25
30 or 60	240/250	S15s	Opal	25
60	240/250	S15s	Amber† (284 mm only)	25

†Amber in 60W 284mm only

SINGLE CAP TUBULAR

Watts	Voltages	Cap	Finish	Standard Pack
25	200/230	BC	Clear	50
25	240/250	BC, SBC, SES	Clear	50
40	240/250	BC, SBC	Clear	50
40 or 60	240/250	BC	Opal (Longlite)	25



Special service lamps

FIREGLOW

Watts	Voltages	Cap	Finish	Standard Pack
60	200/250	BC	Lacquered	50*
60	200/250	3-pin BC	Lacquered	50*
60	200/250	2-prong	Lacquered	50*

PYGMY SIGN

Watts	Voltages	Cap	Finish	Standard Pack
15	25	BC, SBC	Clear	50*
15	50	BC, SBC, ES	Clear	50*
15	60	BC	Clear	50*
15	100/110	BC, SBC, ES, SES	Clear	50*
15	120/130	BC, SBC, ES, SES	Clear	50*
15	150	BC	Clear	50*
15	200/250	BC, SBC, ES, SES	Clear	50*
15	200/250	BC	Pearl	50*
15	200/250	BC, SBC	Amber, Blue, Green, Pink, Red, White, Yellow	50*
25	200/250	BC, SBC, ES, SES	Clear	50*

PYGMY SIGN — ROUGH SERVICE

Watts	Voltages	Cap	Finish	Standard Pack
15	200/250	BC, SBC, SES	Clear	50*
25	200/250	BC, ES, SBC	Clear	50*

SWITCHBOARD INDICATOR

Watts	Voltages	Cap	Finish	Standard Pack
	100/130	BC	Clear	50
	200/260	BC	Clear	50

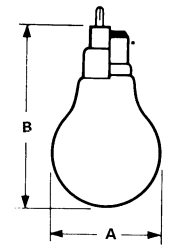
PILOT INDICATOR

Watts	Voltages	Cap	Finish	Standard Pack
6	50	SBC	Clear	25
6	50	CAND	Clear	25
6	100/130	SBC, SES, CAND	Clear	25
10	50	SBC	Clear	25
10	100/130	SBC, SES, CAND	Clear	25
10	200/250	SBC, SES, CAND	Clear	25

OVEN LAMPS

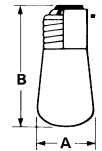
Watts	Voltages	Cap	Finish	Standard Pack
60	240/250	BC, ES	Clear	50

*Standard Pack consists of 5 × 10-way per container



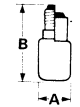
FIREGLOW

	A	B
BC	60	105
3-pin BC	60	103
2-prong	60	113



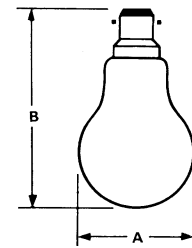
PYGMY AND SWITCHBOARD INDICATOR

	A	B
BC	28	56
ES	28	58
SBC	28	62
SES	28	63



PILOT INDICATOR

	A	B
SBC	18	41
CAND	18	46
SES	18	47



OVEN LAMP

	A	B
60	105	105

All dimensions in mm

Special service lamps and Heating lamps

ROUGH SERVICE These lamps have additional filament supports and are for use in portable handlamps and similar locations

Watts	Voltages	Cap	Finish	Standard pack
25	200/250	BC	Pearl	25
40	200/250	BC	Clear	25
40	110/120	BC, ES	Pearl	25
60	200/250	BC	Clear	25
60	110/120	BC, ES	Pearl	25
100	200/250	BC	Clear	25
100	110/120	BC, ES	Pearl	25

SAFELITE – ROUGH SERVICE This lamp has a special coating to contain the glass fragments in the event of breakage

Watts	Voltages	Cap	Finish	Standard pack
100	200/250	BC, ES	Pearl-Lacquered	25

TRAFFIC SIGNAL

Watts	Voltages	Cap	Finish	Standard Pack
65	240/250	ES	Clear	25
65	250	BC	Clear	25
50	12 (Tungsten-halogen M32)	Bi-pin	Clear	1

HEATING LAMPS

INFRA-RED REFLECTOR Standard bulb

Watts	Voltages	Cap	Finish	Standard Pack
150	200/250	ES	Satin	12
275	200/250	BC	Satin	12
275	100/130	ES	Satin	12
275	200/250	BC, ES	Clear	12

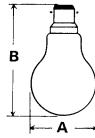
INFRA-RED REFLECTOR Hard glass bulb

Watts	Voltages	Cap	Finish	Standard pack
275	200/250	BC, ES	Clear Front	10
275	200/250	BC, ES	Red Front	10

INFRA-RED ROUND BULB

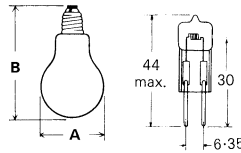
Watts	Voltages	Cap	Finish	Standard pack
250	100/130 200/250	ES	Pearl	24

A range of linear quartz infra-red lamps is also available. Details on request.



ROUGH SERVICE & SAFELITE

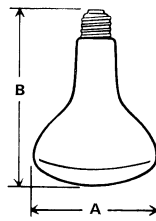
	A	B
25-60W	60	105
100W	68	125



65W ES 50W Bi-pin

TRAFFIC SIGNAL

	A	B
65W	60	107



INFRA-RED REFLECTOR

	A	B
150W	126	178
275W	126	178

INFRA-RED ROUND BULB

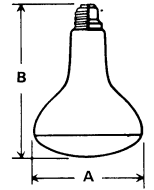
	A	B
250W	88	180

All dimensions in mm

Reflector lamps

INTERIOR DISPLAY REFLECTOR

Watts	Voltages	Cap	Finish	Standard Pack
75	240/250	BC, ES	Clear Front	10
75	240/250	BC, ES	Lacquered Blue, Green, Red, Yellow	10
100	240/250	BC, ES	Clear Front	10
150	240/250	BC, ES	Clear Front	10
250	240	ES	Clear Front, (Spotlight Beam)	10

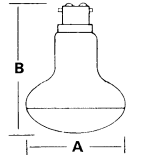


REFLECTOR DISPLAY

	A	B
75W and 100W	95	135
150W	126	178
250W Spot	126	178

DECOR SPOT

Watts	Voltages	Cap	Finish	Standard Pack
40	240/250	BC	Clear Front, Blue, Green, Red, Yellow	10
60	240/250	BC	Clear Front	10

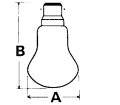


DECOR SPOT

	A	B
40 & 60W	80	109

CHELSEA For use with Chelsea Glass

Watts	Voltages	Cap	Finish	Standard Pack
40	240/250	BC	Clear Front	25

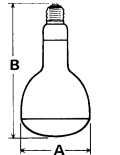


CHELSEA

	A	B
40W	60	10

REFLECTOR FLOODLIGHT

Watts	Voltages	Cap	Finish	Standard Pack
500	240, 250	GES	Clear Front	6

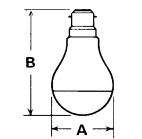


REFLECTOR FLOODLIGHT

	A	B
500W	165	312

CROWN SILVERED DISPLAY High volt

Watts	Voltages	Cap	Finish	Standard Pack
60	240/250	BC, 3PBC, ES	Crown Silvered	25
100	240/250	3PBC, ES	Crown Silvered	25
60	240/250	BC: 3Pin BC: ES	Crown Silvered – Lacquered Red, Blue, Green, Yellow, Purple	25



MAINS VOLTAGE DISPLAY

	A	B
100W	68	125

All dimensions in mm.

Sealed beam reflector lamps

Par sealed beam spotlights and floodlights

These lamps, with the exception of the PAR 38 Cool-ray and PAR 46, are for indoor and outdoor applications. The Color-ray spotlights have internal thin film dichroic lenses which have a high transmission factor and maintain constant colour through life.

The Cool-ray lamp has a dichroic reflector, allowing much of the heat to pass through the back of the lamp without loss of light. This lamp is for use in special fittings only, indoors. Its cool ray and colour temperature of 4000°K make it an ideal source for display and exhibition applications.

The rated life of all types is 2000 hrs.

PAR 38 SEALED BEAM SPOT & FLOOD For outdoor and indoor applications

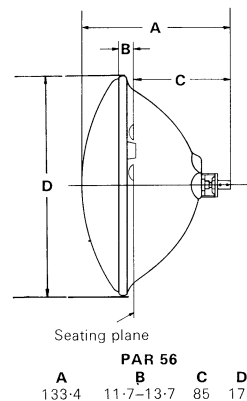
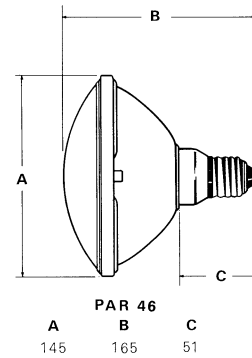
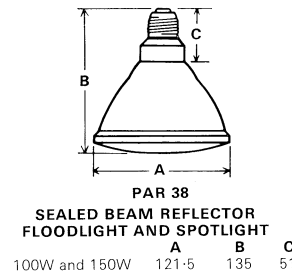
Watts	Voltages	Cap	Finish	Standard Pack
100	240/250	ES	Clear Front, Spot	10
100	240/250	ES	Clear Front, Flood	10
100	240/250	ES	Lacquered Blue, Green, Red, Yellow	10
150	24 110/115 240/250	ES	Clear Front, Spot	10
150	110/115 240/250	ES	Clear Front, Flood	10
150	240/250	ES	Color-Ray, Blue, Green, Red, Yellow	10
150	240/250	ES	Cool-Ray, Spot	10

PAR 46 SEALED BEAM For indoor use only

Watts	Voltages	Cap	Finish	Standard Pack
200	240/250	ES	Clear Front, Narrow Spotlight	10
200	240/250	ES	Clear Front, Wide Beam	10

PAR 56 SEALED BEAM For outdoor and indoor applications

Watts	Voltages	Cap	Finish	Standard Pack
300	240/250	2 lug	Clear Front, Wide Beam	10
300	240/250	2 lug	Clear Front, Med-Beam	10
300	240/250	2 lug	Clear Front, Narrow Beam	10

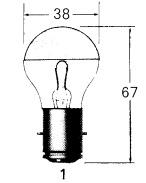


All dimensions in mm

Low voltage display lamps

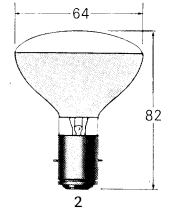
Illus.	Volts	Watts	Lamp Ref. no.	Standard pack	Type
1	12	50	11-7015	25	The 38mm lamp is spherical in shape. It has an internal crown reflector and gives a non-spill narrow beam of light.

Cap
Bosch



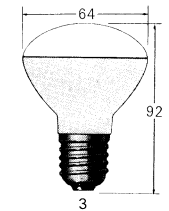
2	12	50	11-8012	25	The mushroom-shaped 64mm sealed beam lamp with Bosch cap has an internal reflector with a diffusing front face and gives a soft edge beam of high intensity.
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Bosch



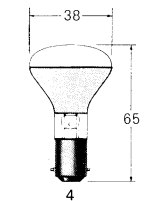
3	12	50	11-7014	25	The 12V 50W lamp has a clear front and an internal reflector aluminized to the parabolic bulb. This gives a narrow beam of light.
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ES



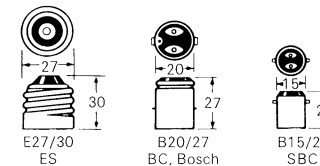
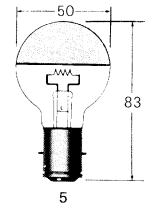
4	12	24	11-7005	25	The 12V 24W lamp gives a high intensity soft edged beam. Internal reflector diffusing front.
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SBC



5	24	150	11-7040	25	Crown reflector clear back.
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Bosch



The 12V lamps have a nominal life of 1000 hours. The 24V 150W lamp has been designed to give a life of 500 hours.

A transformer is normally required for the operation of these lamps

All dimensions in mm

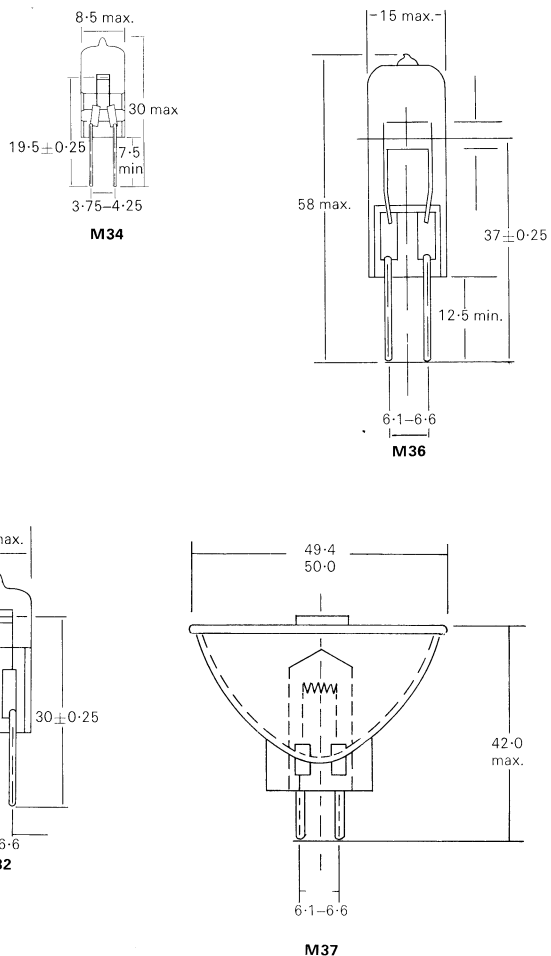
Low voltage tungsten-halogen display lamps

Principle of operation and Advantages of use are as indicated in the section referring to tungsten-halogen floodlighting lamps.

Lampholders for these lamps are listed in Section 10.

Fusing: It is an advantage to have a fuse in the fitting or external circuit.

Operating temperatures: During operation, the temperature of the lamp pinch seal should not exceed 350°C, whilst the bulb wall temperature must not drop below 250°C in order to maintain the tungsten-halogen cycle.



Watts	Volts	Caps	Overall Length Max	Light Centre Length	Min Protruding Pin Length	Pin Dia	Pin Centres	Max Bulb Dia	Rated Life (Hrs)	Nom Lumens	Colour Temp K	Operating Position	Lamp Type
20	6	2 Pin G4	30.0	19.25-19.75	7.5	0.7	3.75-4.25	8.5	2000	350	2900	Any	M34
50	12	2 Pin G6.35	44.0	29.75-30.25	12.0	1.25	6.1-6.6	12.0	2000	900	2900	Any	M32
100	12	2 Pin G6.35	45.0	29.75-30.25	7.5	1.25	6.1-6.6	11.0	2000	2150	3000	*Base down to base horizontal	M28
250	24	2 Pin G6.35	58.0	36.75-37.25	12.5	1.0	6.1-6.6	15.0	2000	5750	3000	Base down to base horizontal	M36
55	12	2 Pin G6.35	42.0		7.5	1.0	6.1-6.6	50.0	750			Any	M37

*Can be operated in any position if heat sinks are used.

All dimensions in millimetres

Tungsten-halogen floodlighting lamps

Principle: The tungsten filament is enclosed in a gas-filled quartz tube, together with a carefully controlled quantity of a halogen. When the tungsten filament is heated by the electric current the halogen vapourises and controls the evaporation of the filament, the tungsten vapour being carried to the contrastingly comparative cool wall of the bulb where it combines with the halogen to form a tungsten halide. This compound then returns to the filament where it is chemically converted back to tungsten and the halogen. The action continues to repeat itself while the lamp is in operation.

The regenerative cycle performs a 'self-cleaning' action on the inner surface of the bulb resulting in nearly 100% lumen maintenance.

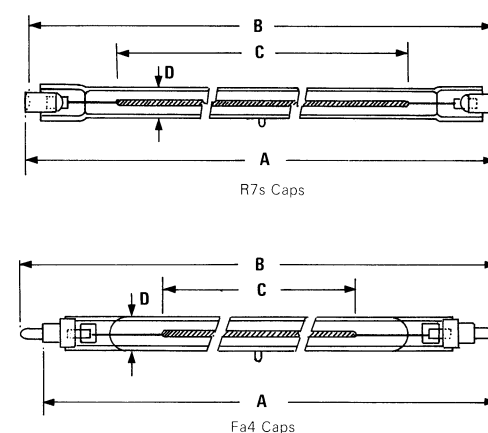
Advantages:

- 1 Up to 20% more light output compared to corresponding GLS lamp.
- 2 Double life—2000 hours.
- 3 Constant light output through life.
- 4 Compact easily controllable light source.

Fusing:

It is an advantage to have a fuse in the fitting or external circuit.

Operating temperatures: During operation, the temperature of the lamp pinch seal should not exceed 350°C, whilst the bulb wall temperature must not drop below 250°C in order to maintain the tungsten-halogen cycle.



Watts	Volts	Caps	Contact to Ceramic Max (A)	Contact to Contact (B)	Nom Light Length (C)	Max Bulb Dia (D)	Rated Life (Hrs)	Nom Lumens	Colour Temp K	Operating Position	Lamp Type
300	110/115	R7s	117.6	114.2 ± 1.6	62.0	9.0	2000	5250	2900	Horizontal ± 15°	K9
300	200/230	R7s	117.6	114.2 ± 1.6	66.0	9.0	2000	5000	2900	Horizontal ± 15°	K9
300	240/250	R7s	117.6	114.2 ± 1.6	66.0	9.0	2000	5000	2900	Horizontal ± 15°	K9
300†	240/250	R7s	117.6	114.2 ± 1.6	66.0	9.0	2000	5000	2900	Horizontal ± 15°	K9
500	110	R7s	117.6	114.2 ± 1.6	57.0	11.0	2000	10500	2900	Horizontal ± 15°	K1
500	120	R7s	117.6	114.2 ± 1.6	57.0	11.0	2000	10500	2900	Horizontal ± 15°	K1
500	200/230	R7s	117.6	114.2 ± 1.6	66.0	11.0	2000	9500	2900	Horizontal ± 15°	K1
500	240/250	R7s	117.6	114.2 ± 1.6	66.0	11.0	2000	9500	2900	Horizontal ± 15°	K1
750	200/230	R7s	189.1 ‡	185.7 ± 1.6	117.0	11.0	2000	15000	3000	Horizontal ± 15°	K3
750	240/250	R7s	189.1 ‡	185.7 ± 1.6	117.0	11.0	2000	15000	3000	Horizontal ± 15°	K3
1000	110	R7s	189.1	185.7 ± 1.6	107.0	11.0	2000	22000	3000	Horizontal ± 15°	K4
1000	130	R7s	189.1	185.7 ± 1.6	107.0	11.0	2000	22000	3000	Horizontal ± 15°	K4
1000	200/230	R7s	189.1	185.7 ± 1.6	112.0	11.0	2000	21000	3000	Horizontal ± 15°	K4
1000	240/250	R7s	189.1	185.7 ± 1.6	112.0	11.0	2000	21000	3000	Horizontal ± 15°	K4
1500	200/230	R7s	254.1	250.7 ± 1.6	175.0	11.0	2000	33000	3000	Horizontal ± 15°	K5
1500	240/250	R7s	254.1	250.7 ± 1.6	175.0	11.0	2000	33000	3000	Horizontal ± 15°	K5
2000	200/230	R7s	331.0	327.4 ± 1.6	249.0	11.0	2000	44000	3000	Horizontal ± 15°	K8
2000	240/250	R7s	331.0	327.4 ± 1.6	249.0	11.0	2000	44000	3000	Horizontal ± 15°	K8
2000	200/230	Fa4	324.1	334.4 max	229.0	12.0	2000	44000	3000	Horizontal ± 15°	K6
2000	240/250	Fa4	324.1	334.4 max	229.0	12.0	2000	44000	3000	Horizontal ± 15°	K6

†Frosted for use with Wall Washer fitting
‡The standard length of the 750w lamp is 189.1mm
Lamps with a length of 178mm are also available.
Please specify length when ordering.

All dimensions in millimetres

Tungsten-halogen photoprinting lamps

A number of office copying machines require a linear light source of relatively high colour temperature, and for these applications linear tungsten-halogen lamps are the ideal sources. The advantage of tungsten-halogen lamps is that the

light output remains constant throughout life, and so the speeds of copying remain unchanged throughout the lamp life. For the larger sizes of lamps it is desirable to obtain even illumination across the length of the lamps, and

this is achieved by the use of "segmented filaments" where the filaments are wound with differential gaps to avoid fall off of light at the ends of the lamp.

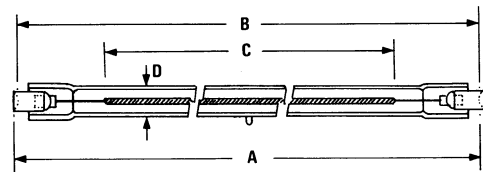
Fusing

It is an advantage to have a fuse in the fitting or external circuit.

Operating temperatures: During operation, the temperature of the lamp pinch seal should not exceed 350°C, while the bulb wall temperature must not drop below 250°C in order to maintain the tungsten-halogen cycle.

Principle of operation and Advantages of use are as indicated in the section referring to tungsten halogen floodlighting lamps.

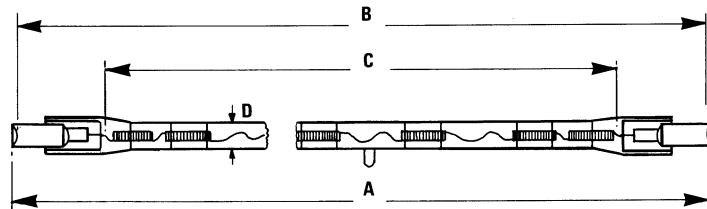
NON-SEGMENTED FILAMENT TYPES



Watts	Volts	Caps	Contact to Ceramic Max (A)	Contact to Contact (B)	Nom Light Length (C)	Max Bulb Dia (D)	Nom Lumens	Colour Temp	Operating Position	Lamp Type
500	110	R7s	117.6	114.2 ± 1.6	60	11 max	10500	3000 K	Horizontal	K1
500	120	R7s	117.6	114.2 ± 1.6	60	11 max	10500	3000 K	Horizontal	K1
500	120	R7s	117.6	114.2 ± 1.6	60	8.5 max	13000	3200 K	Horizontal	—
800	220	R7s	117.6	114.2 ± 1.6	67	12 max	20600	3200 K	Horizontal	P2/18
800	240	R7s	117.6	114.2 ± 1.6	67	12 max	20600	3200 K	Horizontal	P2/18

Min. life of above lamps 50,000 switchings at 6 seconds on 6 seconds off.

SEGMENTED FILAMENT TYPES



Watts	Volts	Caps	Contact to Ceramic (A)	Contact to Contact (B)	Nom Light Length (C)	Max Bulb Dia (D)	Nom Lumens	Colour Temp	Operating Position	Lamp Type
650	220/230	R7s	318 max	315 ± 1.6	276	8.5 max	14300	3200 K	Horizontal	—
650	240/250	R7s	318 max	315 ± 1.6	276	8.5 max	14300	3200 K	Horizontal	—
1000	220/230	R7s	267 max	264 ± 1.6	220	8.5 max	23000	3200 K	Horizontal	—
1000	240/250	R7s	267 max	264 ± 1.6	220	8.5 max	23000	3200 K	Horizontal	—
1000	220/230	R7s	318 max	315 ± 1.6	270	8.5 max	23000	3200 K	Horizontal	—
1000	240/250	R7s	318 max	315 ± 1.6	270	8.5 max	23000	3200 K	Horizontal	—
1500	220/230	R7s	368 max	365 ± 1.6	320	8.5 max	32250	3200 K	Horizontal	—
1500	240/250	R7s	368 max	365 ± 1.6	320	8.5 max	32250	3200 K	Horizontal	—

Min. life of above lamps 50,000 switchings at 6 seconds on 6 seconds off.

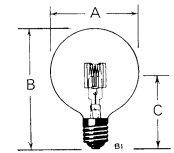
All dimensions in millimetres

Floodlighting lamps

Class B1 Spherical bulbs

For floodlighting of buildings and for studio and theatre spots and floodlights.

The objective average life in well-ventilated fittings is 800 hours. The burning position is within 135° from cap down.



	A max.	B max.	C nominal
B1/1	82	125	75
B1/2			
B1/3	132	190	115
B1/4			

RANGE

Class B1

Reference no.	Watts	Finish	Cap	Lumens at 100/110/115V	Lumens at 200/250V*	Standard pack
B1/1	100	Clear	ES	1100	900	12
B1/2	250	Clear	ES	3600	3100	12
B1/3	500	Clear	GES	8000	7250	12
B1/4	1000	Clear	GES	18000	16500	12

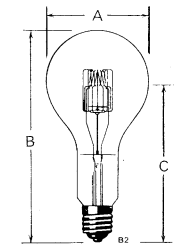
*Lamps available in 10V steps

Class B2 GLS bulbs

Applications are similar to Class B1, especially floodlighting from high towers for football grounds, stadiums, tattoos and similar.

The average objective life for lamps B2/1-3 is 800 hours in well ventilated fittings.

For B2/4 it is 200 hours which is very adequate for a full season of evening matches.



	A max.	B max.	C nominal
B2/1	132	275	202
B2/2	152	309	225
B2/3	172	334	250
B2/4	172	334	207

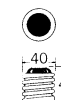
Class B2

Reference no.	Watts	Finish	Cap	Lumens at 100/110/115V	Lumens at 200-250V*	Standard pack
B2/1	500	Clear	GES	8000	7250	9
B2/2	1000	Clear	GES	18000	16500	6
B2/3	1500	Clear	GES	—	26000	6
B2/4	2000	Clear	LFP-P40/41	—	42000	6

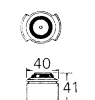
*Lamps available in 10V steps



E27/30 ES



E40/45 GES



Large pre-focus P40/41

All dimensions in mm

Decoration spare lamps

Lamp cap code



Fairylites
Three 20V 3W lamps in various colours in a bubble pack.
For use in twelve lamp sets.



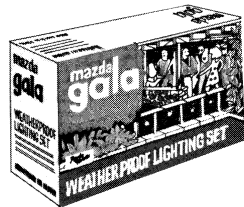
Satinlites
Three 20V 3W lamps with a crystal finish.
Packed in a bubble pack in various colours.
For use in twelve lamp sets.



Festivalites
Three 20V 3W lamps in various satin finished colours, packed in a bubble pack.
For use in twelve lamp sets.



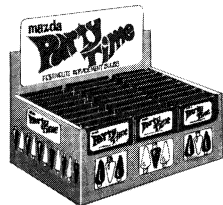
Firefly
Five various coloured lamps packed in a bubble pack.
6V lamps for forty light sets.
12V lamps for twenty light sets.



Party Time Gala Sets
A string of twelve weatherproof BC lampholders, wired complete with adaptors. Total length of cable 6m for use on 200/250 volt supplies. Lamps supplied separately in boxes of a dozen with six different colours.



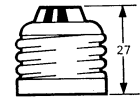
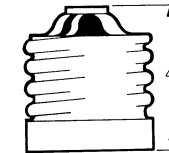
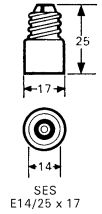
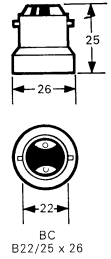
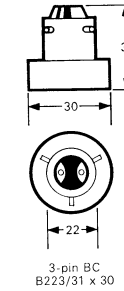
Party Time Firefly dispenser
This self-selling pack contains:
20 6V 5 lamp Firefly bubble packs
20 12V 5 lamp Firefly bubble packs.



Party Time lamp dispenser
For an attractive display and easy selling the multi-colour dispenser contains:
10 3 lamp Fairy-lite bubble packs
10 3 lamp Festive-lite bubble packs
10 3 lamp Satin-lite bubble packs.

LAMP CAP CODE

BC Bayonet
SBC Small Bayonet
SCC Small Centre Contact
ES Edison Screw
SES Small Edison Screw
MES Miniature Edison Screw
GES Goliath Edison Screw
The dimension code indicates, first, by letter, the type of cap. The first two figures indicate the nominal outer diameter of the cap barrel or screw thread in millimetres. The next two figures indicate the overall length and the last two the diameter of the flange.



All dimensions in mm

