
Sfb:(63)

UDC:628 94/95

Osram-GEC Mercury Lamps



Osram mercury lamps

the range

MB/U

The original type of mercury lamp, but still used in some streetlighting installations. The higher wattage lamps are ideal for floodlighting where colour is not critical.

MBFT/V

The only mercury lamp not requiring control gear, because the tungsten filament within the lamp acts as a ballast.

The Blended Truelite lamps have application to replace tungsten lamps where it is important to maintain light, or expensive to change bulbs.

The unique 8000 hour life shows immediate benefits.

MBF/U

The introduction of Truelite, now available in all ratings of MBF/U, in 1968 extended the application of mercury lamps from streetlighting and industry to commerce.

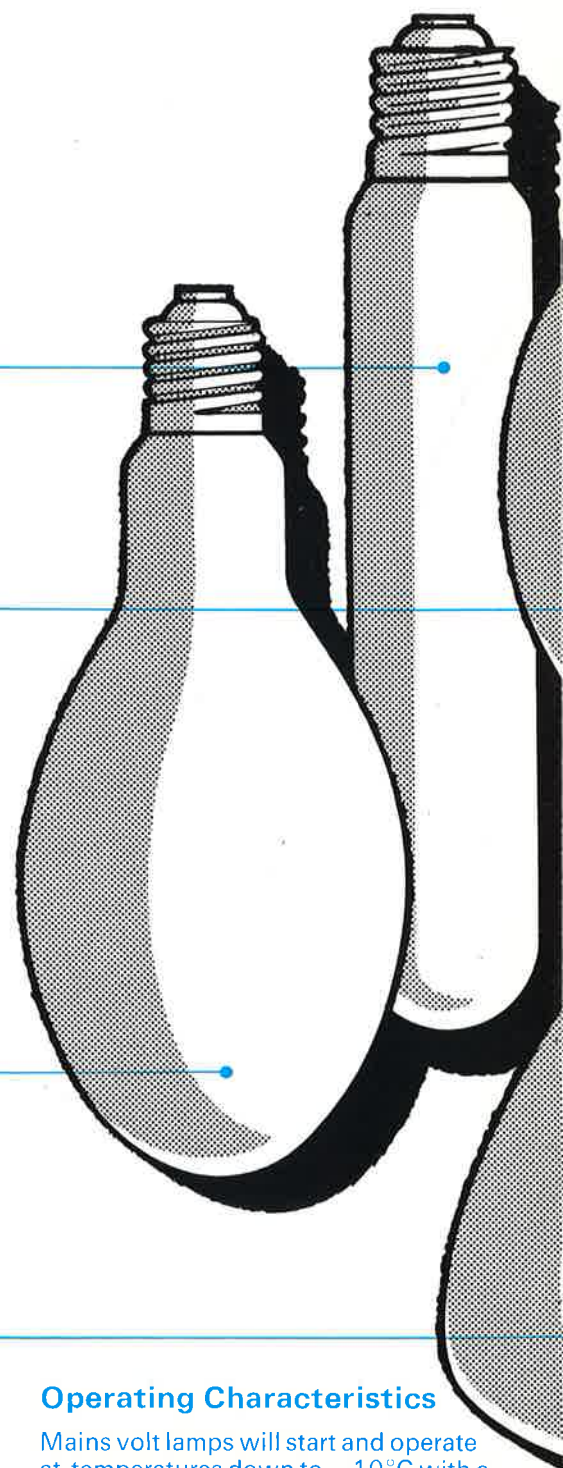
MBFR/U

The mercury reflector lamp – now in Truelite version. The built-in reflecting layer directs most of the light output in a downward direction. The lamp is ideal for high bay use with a minimum of fitting reflector necessary; and almost no light loss from accumulation of dirt.

MBI

Blue and Green Halide lamps are ideal for floodlighting and other applications, where deeply saturated colours are needed.

The white 2Kw lamp for floodlighting has colour characteristics particularly suited for colour television requirements.



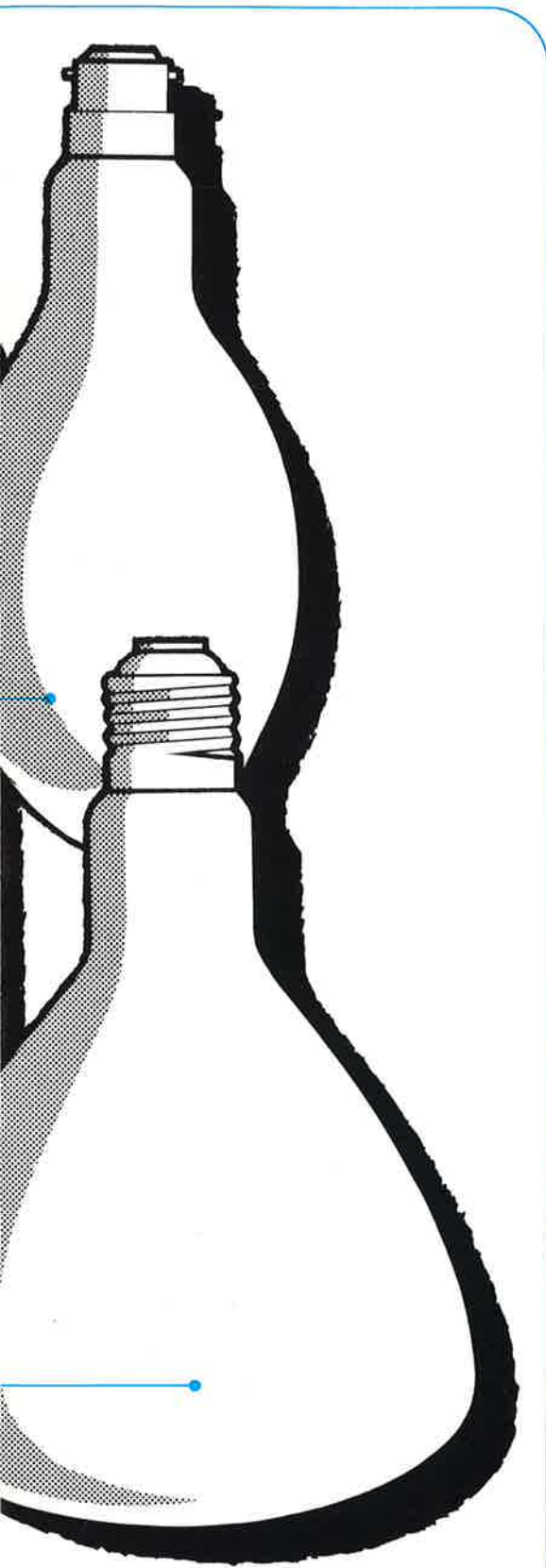
Operating Characteristics

Mains volt lamps will start and operate at temperatures down to -10°C with a supply voltage of 200 volts, and -50°C at 240 volts.

Lamps will reach 80% of their quoted lumen output within 4 minutes of striking. If the supply is interrupted and restored immediately, the lamps will not restrike until cool – this may take up to 15 minutes.

MBW/U AND MBTW/V

Almost all light is absorbed by the 'blackglass' bulbs, the lamps radiating only harmless ultra-violet energy. The MBTW/V having an internal tungsten filament ballast needs no control gear. Applications are laundries, forgery detection and entertainment.

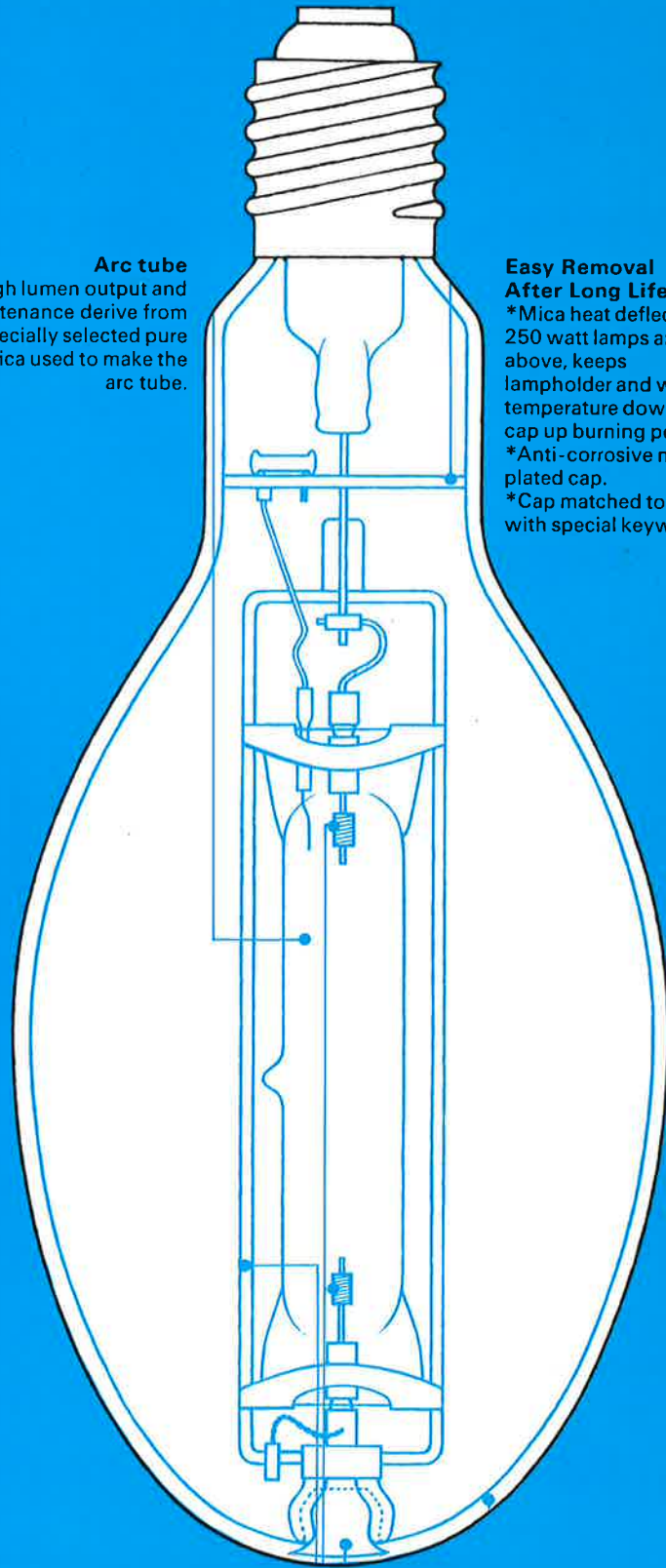


Control Gear

All mercury lamps, except the MBFT range must be operated with suitable control gear, usually comprising a choke and power factor correction capacitor.

Full details of G.E.C. gear available on request.

Arc tube
High lumen output and maintenance derive from specially selected pure silica used to make the arc tube.



Easy Removal After Long Life
*Mica heat deflector in 250 watt lamps and above, keeps lampholder and wiring temperature down in cap up burning position.
*Anti-corrosive nickel plated cap.
*Cap matched to lamp with special keyway.

Support Frame and lead wires
To withstand most severe vibration, lamps have flexible electrical connections, minimum number of mechanical joints and 'ruggedised' construction.

Electrodes
Reliable starting at extremes of low temperature is made certain by unique processing and electrode design.

Fluorescent Coating
Highest efficiency and optical control ensured by constant control of coating thickness and particle size.

Dimpled construction
Dimpled construction holds the arc tube firmly in axial alignment – ensuring correct optical control in luminaires.

The system has design features to protect the lamp against mechanical shock, vibration and transit damage.

Dimpled construction is now for the first time incorporated into 125w MBF/U lamps – a further advance in mercury lamp technology.

Mercury Lamps Specifications

	Watts	Lighting Design Lumens (2,000 hours)	Cap	Overall Length mm	Overall Diameter mm	Nominal Light Centre Length mm.	Standard Pack	Supply Voltage
Truelite MBF/U	50	1750	E.S.	126 ± 4	55 ± 1	90	25	200/250
	80	3175	E.S. or 3 pin B.C.	161 ± 4	70 ± 1	103	25	..
	125	5500	E.S. or 3 pin B.C.	174 ± 4	75 ± 1	112	25	..
	250	12100	G.E.S.	223 ± 4	90 ± 1	150	25	..
	400	21700	G.E.S.	280 ± 5	120 ± 1.5	177	25	..
	700	35000	G.E.S.	315 ± 5	141 ± 2	208	4	..
	1000	54000	G.E.S.	345 ± 5	165 ± 2	212	4	400/450
	1000	51000	G.E.S.	400 ± 10	165 ± 2	260	4	220/250
Toplite MBFR/U Reflector Truelite	125	4400	E.S.	174 ± 5	125 ± 2		25	200/250
	250	10350	G.E.S.	245 ± 5	166 ± 2		6	..
	400	17200	G.E.S.	270 ± 5	181 ± 2		6	..
	700	30800	G.E.S.	305 ± 7	201 ± 2		1	..
	1000	45000	G.E.S.	350 ± 7	248 ± 2.5		1	400/450
	1000	42000	G.E.S.	350 ± 7	248 ± 2.5		1	220/250
MB/U	80	2700	E.S. or 3 pin	161 ± 4	80 ± 1	103	} 25	200/250
	125	4900	E.S. or 3 pin	174 ± 4	88 ± 1	112		..
	250	11000	G.E.S.	250 ± 5	51 ± 1	170	} 25	..
	400	20000	G.E.S.	280 ± 5	51 ± 1	177		..
	1000	52000	G.E.S.	345 ± 5	165 ± 2	212	4	400/450
	1000	50000	G.E.S.	400 ± 10	165 ± 2	248	4	220/250
Mercury Halide MBI/Blue Green	400	6000	G.E.S.	280 ± 8	65 ± 2	175	1	220/250
	400	23000	G.E.S.	280 ± 8	65 ± 2	175	1	..
	2000	150000*	G.E.S.	425 ± 5	102 ± 2	260	1	400/450
Blended Truelite MBFT/V	100	900	E.S. or B.C.	164 ± 4	70 ± 1		25	240/250
	160	1970	E.S. or B.C.	174 ± 4	75 ± 1		25	..
	250	4100	G.E.S.	233 ± 7	110 ± 1.5		20	..
MBW/U and MBTW/V Black Magic	125		3-pin B.C.	174 ± 4	90 ± 1	112	25	200/250
	175		E.S. or B.C.	174 ± 4	90 ± 1	112	25	220/240

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Osram (S.&C.) Limited P.O. Box 17, East Lane, Wembley, HA9 7PG.

Area addresses

London, Home Counties and Southern

East Lane, Wembley, Middlesex.
01-904 4321

Design Centre for lighting
schemes

P.O. Box 17.
East Lane, Wembley, Middlesex.
01-904 4321

Midlands

Electric Avenue, Witton,
Birmingham 6.
021-327 1571

South West

32 Victoria Street, Bristol.
02-722 6671/8
11 Brunswick Road, Plymouth,
Devon.
Plymouth 60226/8

South Wales

Sales Office
Empire House,
Mount Stuart Square.
Cardiff 387331/3

North West and North Wales

Lea Green Road,
St. Helens, Lancs.
0744 812221
Telephone Sales Office

Trafford Park
Manchester M17 1PR
Trafford Park 2431
Ext. 3261/2

Yorkshire

25 Dewsbury Road, Ossett,
Yorkshire.
09-243 4161

North East

E138 Team Valley Trading Estate,
Gateshead NE11 0UE
063-287 8575

Scotland

77 Grove Park Street,
Glasgow G20 7PA
041-332 7011

Northern Ireland

273a Donegall Road, Belfast.
Belfast 25656/8

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