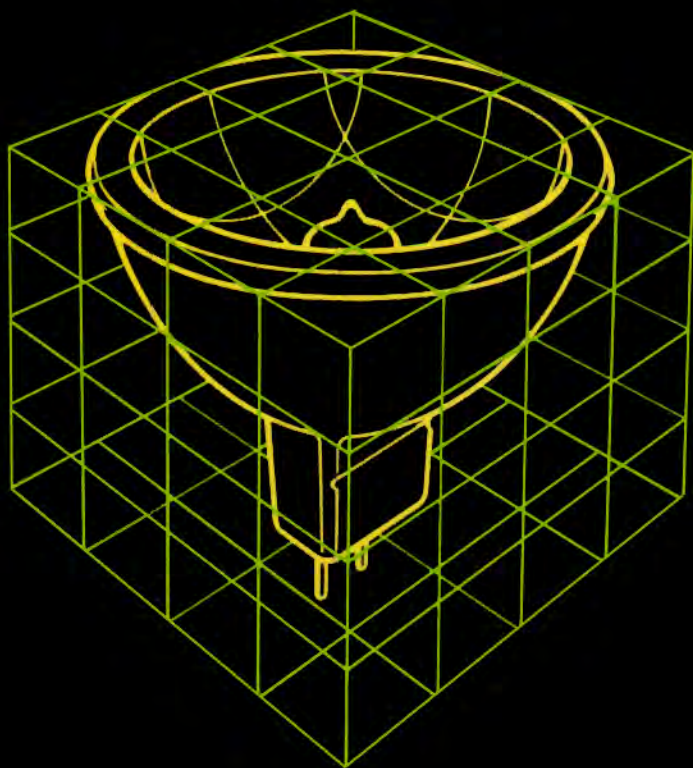


THE
COMPREHENSIVE
CATALOGUE
1987/8



 **THORN EMI Lighting**

INCANDESCENT LUMINAIRES

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MINI SPOT-ON



TSM 60W



TSM 360B



TSMC 60B



TSM L 60W

A range of injection moulded miniature display spotlights suitable for commercial or domestic interior applications. These attractive fittings are available in a variety of colours, are simple to install and are supplied complete with 60W ES Decorspot 63 lamps. The cowls are detachable.

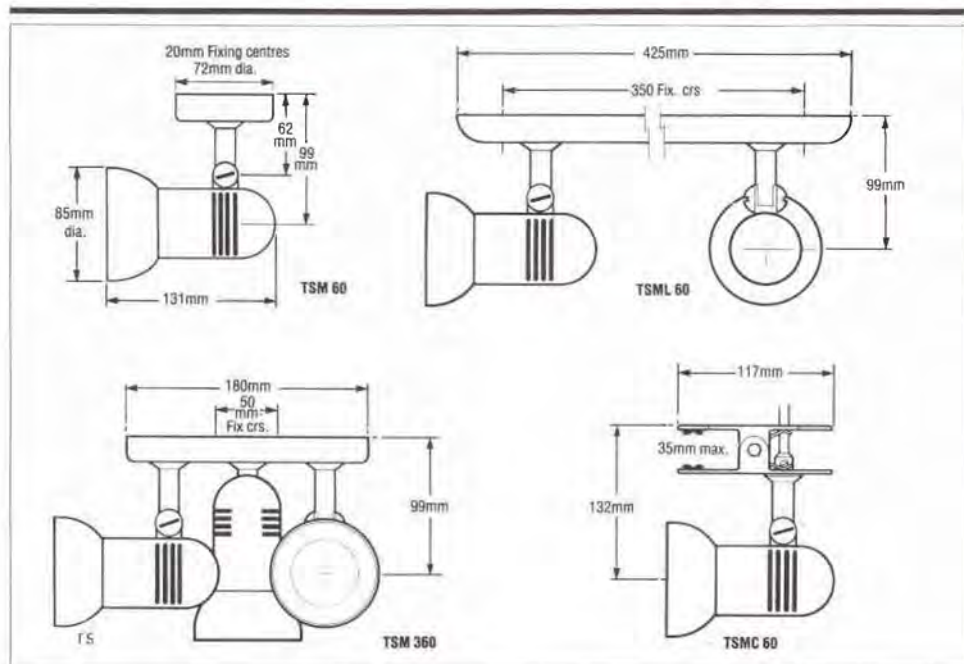
SINGLE SPOTLIGHT: Suitable for wall or ceiling fixing and available in black, white, red, beige and brown.

CEILING LIGHT: A fitting with three adjustable spotlights. Available in white, black and brown.

CLAMP SPOTLIGHT: A versatile fitting, single spotlight complete with clamp fixing (i.e. for shelves), 2 metres of cable and switch. Available in black, white and red.

LIGHTBAR: Suitable for wall or ceiling fixing. The fitting has two adjustable spotlights, available in black, white or brown.

All fittings are attractively packed (Blister) making them suitable for sale through retail outlets.



RANGE

Cat. no.	Cap	Watts (max.)	Fixing	Description
TSM 60B	ES	60	Surface	Black surface spot
TSM 60W	ES	60	Surface	White surface spot
TSM 60BE	ES	60	Surface	Beige surface spot
TSM 60BN	ES	60	Surface	Brown surface spot
TSM 60R	ES	60	Surface	Red surface spot
TSMC 60B	ES	60	Clamp	Black clamp spot
TSMC 60W	ES	60	Clamp	White clamp spot
TSMC 60R	ES	60	Clamp	Red clamp spot
TSML 60B	ES	60	Surface	Black twin lightbar
TSML 60W	ES	60	Surface	White twin lightbar
TSML 60BN	ES	60	Surface	Brown twin lightbar
TSM 360B	ES	60	Ceiling	Black ceiling light
TSM 360W	ES	60	Ceiling	White ceiling light
TSM 360BN	ES	60	Ceiling	Brown ceiling light



SPOT-ON SPOTLIGHTS



TCRN 100



TSRN 100

A range of quality display fittings suitable for interior applications. The bodies are manufactured in impact extruded aluminium, with all fittings finished white. Cowls are available in three colours: silver, white and brown. All fittings are supplied complete with 60W ES Decorspot 80 lamps and are packed in cartons with a display window, suitable for retail outlets.

The fittings are suitable for use with all ES Decorspot lamps up to 100W.

RANGE

Cat. no.	Description	Fixing	Cap	Lamp type (max.)*	Weight kg
TSRN 100	Single spotlight	Surface	ES	100W	0.35
TCRN 100	Triple ceiling light	Ceiling	ES	3 x 100W	0.91
TPRN 100	Twin lightbar	Surface	ES	2 x 100W	1.0
TQRN 100	Triple lightbar	Surface	ES	3 x 100W	1.5

*Supplied c/w 60W ES Decorspot 80 (Clear).

COWLS

Cat. no.	Description	Finish	Weight kg
TRCB	Cowl †	Brown	0.06
TRCS	Cowl †	Silver	0.06
TRCW	Cowl †	White	0.06
TRCLS	Cowl	Silver	0.07

†Suitable for 60W lamp maximum.



TQRN 100


NSB TYPE

NCG TYPE

NMG TYPE

MTCG TYPE

MTCG TYPE

A range of surface mounted interior fittings suitable for commercial applications. There are two galleries available, of shallow design with a simple lever release system for attaching the glassware. Suitable for ceiling or wall mounting.

RANGE

Cat. no.	Description	Lamp
NSB 100	Gallery	100W GLS
NSB 2060	Gallery	2 x 60W GLS

Four different types of glassware are available, all white opal satin etched.

RANGE

Cat. no.	Use with	Max dia mm	Max depth mm	Weight kg complete fitting
NCG 100	NSB 100	203	119	1.24
NCG 200	NSB 2060	356	144	1.70
NFG 100	NSB 100	279	115	1.59
NFG 200	NSB 2060	387	141	2.49
NMG 100	NSB 100	302	145	1.59
NMG 200	NSB 2060	368	145	2.49
MRG 1100	NSB 100	244	137	1.47

A small screw neck heat resistant plastic gallery in two sizes with white opal glassware. BC cap only. Gallery and glassware must be ordered separately.

RANGE

Glassware Cat. no.	Gallery Cat. no.	Lamp wattage	Max dia mm	Max depth mm	Total weight kg
MTCG 1060	MTCB1060	60	152	190	0.68
MTCG 1100	MTCB1100	100	203	241	0.79

SURFACE-MOUNTED LUMINAIRES



VSL 2060A



PLASTIC LOUVRE



VSZ 2060A



SMALL SATIN ETCHED OPAL GLASS BOWL

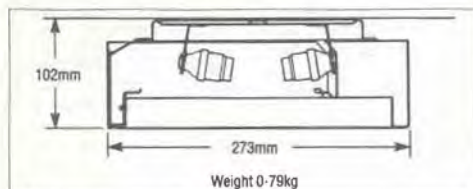


VSX 2060A



CLEAR CRYSTAL GLASS DISH

A range of surface mounted fittings suitable for commercial interior applications. The body is available in two finishes - natural anodised spun aluminium or black painted spun aluminium. Three different attachments are available; a plastic louvre, a clear crystal glass dish or a small satin etched opal glass bowl.



VS 2060

RANGE (Body)

Cat. no.	Lamp	Cap	Finish
VS 2060 A	2 x 60W GLS	BC	Natural anodised
VS 2060 B	2 x 60W GLS	BC	Black painted



RANGE (Attachments)

Cat. no.	Description	Height mm	Dia mm	Weight kg*
VL 200	Plastic Louvre	120	273	0.91
VX 200	Clear crystal glass dish	139	273	2.49
VZ 200	Small satin etched opal glass bowl	120	273	1.47

*Including fitting, excluding lamp.



VRY 100/VRX 200



VRX 100/VRX 200



VRO 200



VRP 100



VRL 100/VRL 200



VRZ 100/VRZ 200

A range of recessed fittings for commercial interior applications. Two sizes of bodies are available, manufactured in spun aluminium with a polished rim. Installation is simple and straightforward by means of three adjustable support brackets. Six different attachments can be used, depending on the effect required.

RECESSED UNIT

The smaller body is available for use with 100W GLS BC lamp while the larger unit will accept up to 200W GLS ES lamp*. Kolorlux lamps can also be used (an ES version of the smaller unit is available), although separate control gear is required.

* 150W c/c GLS not recommended.

RANGE

Cat. no.	Cap	Lamp type
VR 100	BC	100W GLS
VR100 ES	ES	80W Kolorlux
VR 200	ES	200W GLS/125W Kolorlux

ATTACHMENTS

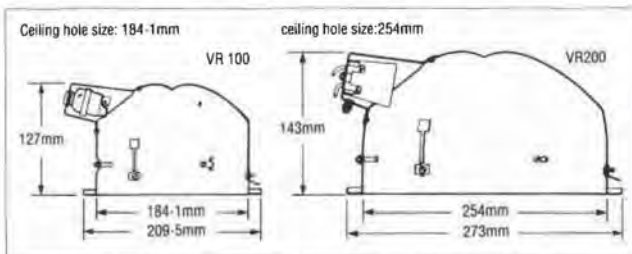
PINHOLE: concentrates light through a 70mm aperture by means of two reflectors to produce a wide angle beam. Made of spun aluminium and finished in eggshell white. (NB. Only suitable for use with VR100 and should not be used in ceilings made of combustible materials).

'O' LIGHTER: the centre disc has the effect of giving glare free light from a narrow distribution. Made of spun aluminium and finished in eggshell white. (NB. Only suitable for use with VR200 and should not be used in ceilings made of combustible materials).

PLASTIC LOUVRE: available for both VR100 and VR200.

CRYSTAL GLASS DISH: available for both VR100 and VR200.

OPAL GLASS DISH: available for both VR100 and VR200. Two sizes of this attachment - small and large - can be supplied.



RANGE

Cat. no.	Description	Use with	Protrusion below Ceiling mm	Weight kg ‡
VP 100	Pinhole attachment	VR 100 †	6	0.79
VD 200	'O' lighter attachment	VR 200 †	6	1.02
VL 100	Plastic louvre	VR 100 †	20	0.45
VL 200	Plastic louvre	VR 200 †	20	0.57
VX 100	Clear crystal glass dish	VR 100/VR 100 ES	30	1.7
VX 200	Clear crystal glass dish	VR 200	35	2.15
VY 100	Large satin etched opal glass bowl	VR100/VR 100 ES	50	1.02
VY 200	Large satin etched opal glass bowl	VR 200	45	1.43
VZ 100	Small satin etched opal glass bowl	VR100/100 ES*	20	0.68
VZ 200	Small satin etched opal glass bowl	VR 200	20	1.13

* To special order only

† Not to be used with Kolorlux

‡ Excluding lamp

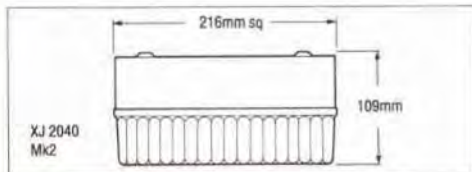
MODERN GLASS/OYSTER



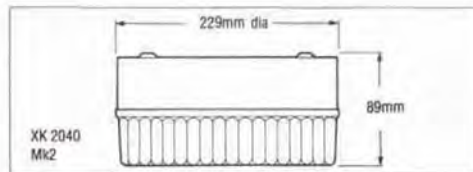
XJ 2040 MK2



XK 2040 MK2



XJ 2040
Mk2



XK 2040
Mk2

MODERN GLASS

Two ceiling mounted units of crystal pattern glass supported in black finished metal framing. For use with 2 x 40W GLS lamps. For indoor use only.

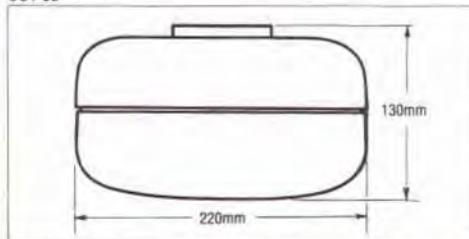
RANGE

Cat. no.	Description	Watts	Weight kg
XJ 2040 MK 2	Square luminaire	2 x 40	3-15
XK 2040 MK 2	Round luminaire	2 x 40	2-25

Note: Emergency lighting versions are available, see page 116



OY 60



OYSTER

A totally enclosed fitting for wall or ceiling mounting. In two-tone polycarbonate with grey body and opal front diffuser – corrosion and vandal-resistant – which can be removed with a coin, the fitting features an internal reflector, pre-wired porcelain lampholder with high temperature flying leads and a foam rubber watertight gasket. It is supplied complete with 60W pearl doublelife BC lamp. Luminaire complies with BS 4533:102-2 (IP23) and is suitable for indoor or outdoor use.
Max. Lamp rating 75W.

RANGE

Cat. no.	Description	Watts (max)	Weight kg
OY 60	Wall/ceiling unit	75	0-68
OY 4600	Spare gasket	--	--
OY 4600	Spare diffuser	--	--

Note: An emergency lighting version is available, see page 116



VE 150W

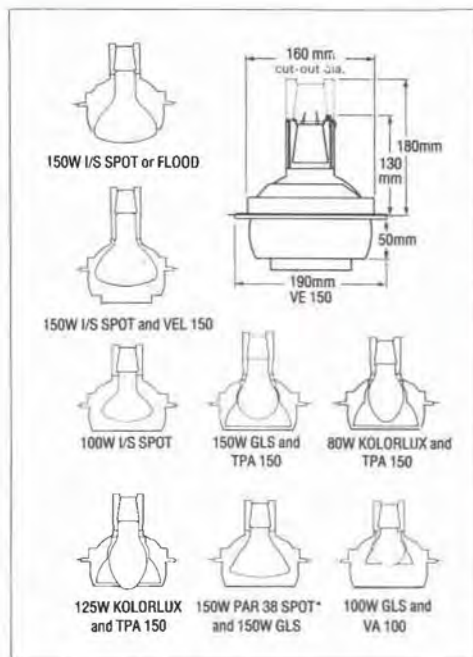


VE 150W + VEL 150W

Semi-recessed fully adjustable luminaire taking a wide range of lamps at correct light centres as shown. Complete with porcelain ES lampholder wired with glass-braided flying leads. Anodised aluminium trim conceals ceiling ring with three-hole fixing. Body is stove enamelled black or white. Separate control gear is required if using Kolorlux lamps.

RANGE

Cat. no.	Description	Colour	Weight kg
VE 150 B	Eyeball luminaire	Black	0.45
VE 150 W	Eyeball luminaire	White	0.45
VEL 150	Louvre attachment	Black	0.05
VA 100	100W auxiliary reflector		0.028
TPA 150	150W auxiliary reflector		0.056



*COOLRAY LAMPS NOT SUITABLE



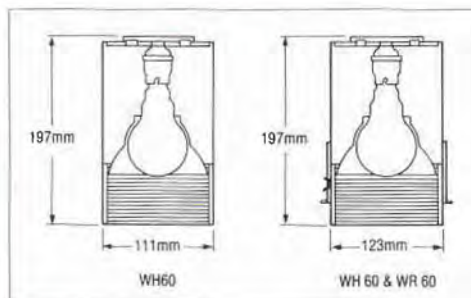
MODERN DOMESTIC CYLINDER

150W TUNGSTEN HALOGEN LUMINAIRES



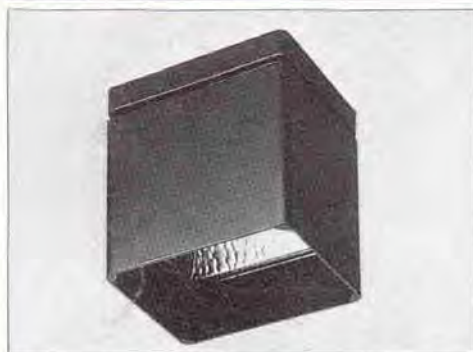
A surface mounted cylinder (WH 60) with brushed silver finish and integral baffles. Complete with 60W GLS lamp with clip-on auxiliary reflector (Catalogue number VA 100). Luminaire can be recessed into the ceiling by using bezel ring (WR 60).

NOTE: 123mm dimension is size of cut-out required, *not* the luminaire size.



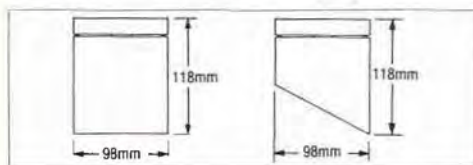
RANGE

Cat. no.	Description	Weight kg
WH 60	Ceiling cylinder	0-57
WR 60	Adjustable bezel ring	0-11



TDH 150

Surface mounted downlighter suitable for use in hotels, reception and public amenity areas etc. Packed complete with the 4000 hour life 150W K12 tungsten halogen lamp.



TWH 150

Wallwasher luminaire similar in construction to the downlighter, but with offset lamp mounting and a different reflector. Particularly suitable for shop window applications, etc.

RANGE

Cat. no.	Description	Lamp	Weight kg
TDH 150	Tungsten-halogen downlighter	150W K12	0-7
TWH 150	Tungsten-halogen wallwasher	150W K12	0-65

100W K14 lamp also suitable



TD 150

DOWNLIGHT/DARKLIGHT RANGE

A range of cylinder fittings suitable for indoor commercial applications. Three versions are available: surface mounted, semi-recessed or fully recessed, with each type available with either a black baffle interior (Downlight) or black reflector (Darklight).

SURFACE MOUNTED CYLINDER

A brushed and lacquered cylinder fitting with a black ceiling plate. This fitting can be mounted directly onto the ceiling or suspended.

RANGE

Cat. no.	Description	Weight kg
TD 150	Darklight surface mounted cylinder	1.0
TB 150	Downlight surface mounted cylinder	1.0

SEMI RECESSED CYLINDER

Suitable for applications where the ceiling void is restricted, the brushed and lacquered cylinder is adjustable (95mm maximum protrusion). The fitting is retained in position by a white ceiling ring.

RANGE

Cat. no.	Description	Weight kg
TDSR 150	Darklight semi recessed cylinder	1.5
TBSR 150	Downlight semi recessed cylinder	1.5

FULLY RECESSED FITTING

The body of the fitting is housed behind the ceiling, with the white ceiling ring the only visible component.

RANGE

Cat. no.	Description	Weight kg
TDFR 150	Darklight fully recessed fitting	1.75
TBFR 150	Downlight fully recessed fitting	1.75

ACCESSORIES

SUSPENSION PLATE: can be used to mount surface fittings onto a suspension rod (see page 40 for details on suspension sets; 450mm rod is recommended).

METAL PLATES: are available for recessed fittings that are to be mounted on fragile or brittle surfaces.

WET PLASTER STRAPS: are available for recessed fittings that are being installed into wet plaster ceilings.

HOOD: for recessed versions, to prevent the ingress of dust or for use in a pressurised plenum. (NB The hood limits lamp usage to 60W GLS maximum).

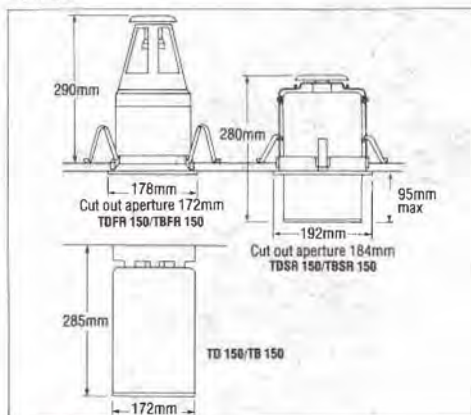
WALLWASHER: for use with the TBFR 150 only.



TBSR 150



TDFR 150



RANGE

Cat. no.	Description
TDSU	Suspension plate
TDSP	Metal support plates (set of 3)
TDPS	Wet plaster strap (set of 3)
TDOU	Hood
TDWW	Wallwasher attachment

SUITABLE LAMPS

Although specifically designed for use with 150W PAR 38, these fittings may also be used with:-

Cat. no.	150W ES† GLS lamp	100W ES† GLS lamp	150W ES Reflector lamp	100W ES Reflector lamp	150W ES PAR 38 coolray
TB/TD 150	*	*	*	*	*
TBFR/ TDSR 150	*	*	*	*	*
TBFR/ TDFR 150	*	*	*	*	*

* Indicates lamp is suitable

† In conjunction with TPA reflector (see page 137)

This product will also accept the low volt tungsten halogen adaptor - See page 144



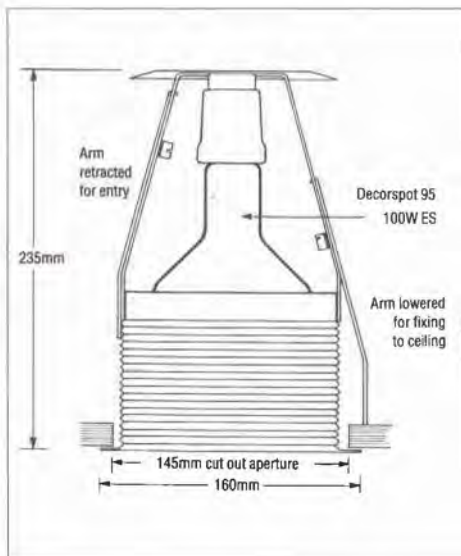
FULLY RECESSED LUMINAIRE

The Popular Downlight is a competitively priced recessed fitting supplied complete with a 100W Decorspot 95 lamp. It is double insulated Class 2, conforms to BS4533 and carries the BSI Safety Mark ensuring that operation is safe and efficient, while the lightweight design makes installation simple; two retractable locating arms secure the fitting neatly and positively into the ceiling (it can be used on a variety of false ceilings up to 50mm thick) while a void depth of only 250mm is required.

The fitting is finished in semi matt black, constructed of mild steel and supplied with 450mm of high temperature silicon rubber insulated twin cable. It will accept all types of ES reflector lamps up to and including 150W (exception Cool Ray) and also the low volt tungsten halogen adaptor – see page 144.

RANGE

Cat. no.	Description	Weight kg
T150	Downlight fully recessed luminaire c/w 100W ES Decorspot 95 lamp 240/250V	0.5





THORN EMI MASTER-SPOT 

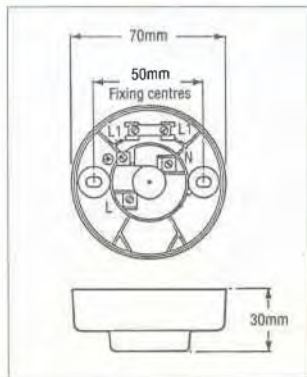
A comprehensive range of display fittings suitable for interior commercial applications ranging from hotel to retail display lighting. Designed to be operated on mains voltage, the Master Spot range encompasses a variety of lamp types and can be either track or surface mounted.

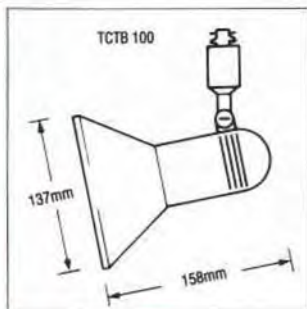
All fittings are made of strong, durable materials and are available in at least two different finishes. They are BSI Safety Marked, are double insulated and are supplied complete with lamp.

All Master-Spot fittings are supplied with a track adaptor fitted (unless otherwise stated). The **SURFACE CONNECTOR PLATE** though allows any track luminaire to be surface mounted. Easy to install, the plate offers the versatility associated with track fittings, allowing the surface luminaire to be removed for cleaning or relamping, or replaced after years of service.

- TCCP/AG ASHGREY**
- TCCP/B BLACK**
- TCCP/GM GUNMETAL**

4 terminals rated at 16A for 2 x 1.5mm loop connections.

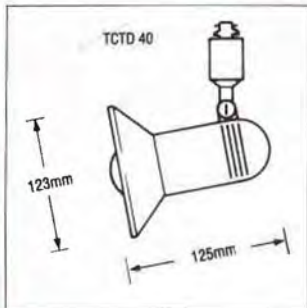




100W GLS REFLECTOR SPOTLIGHT
Packed complete with 100W GLS Pearl lamp.

TCTB 100AG RANGE

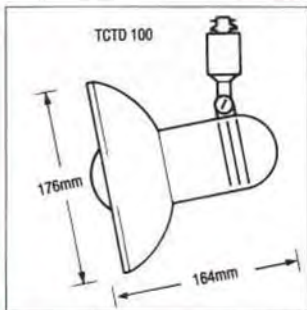
Cat. no.	Cap	Watts	Fixing	Finish
TCTB 100AG	ES	100	Mastertrack	Ashgrey
TCTB 100GM	ES	100	Mastertrack	Gunmetal



40W CROWN SILVER REFLECTOR SPOTLIGHT
Packed complete with 40W SES Crown silvered lamp.

TCTD 40GM RANGE

Cat. no.	Cap	Watts	Fixing	Finish
TCTD 40AG	SES	40	Mastertrack	Ashgrey
TCTD 40GM	SES	40	Mastertrack	Gunmetal



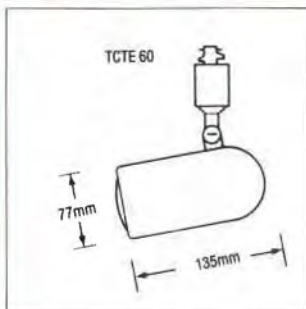
100W CROWN SILVER REFLECTOR SPOTLIGHT
Packed complete with 100W ES Crown silvered lamp.

TCTD 100AG RANGE

Cat. no.	Watts	Fixing	Finish
TCTD 100AG	100	Mastertrack	Ashgrey
TCTD 100GM	100	Mastertrack	Gunmetal



TCTE 60BR



60W BULLNOSE SPOTLIGHTS

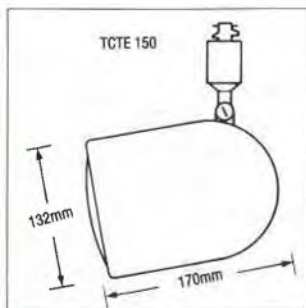
Available in a variety of finishes (see table) and packed complete with a 60W diffuse front Decorspot 63 lamp.

RANGE

Cat. no.	Watts max	Fixing	Finish
TCTE 60AG	60	Mastertrack	Ashgrey
TCTE 60BR	60	Mastertrack	Brass
TCTE 60GM	60	Mastertrack	Gunmetal
TCTE 60P	60	Mastertrack	Polished



TCTE 150P

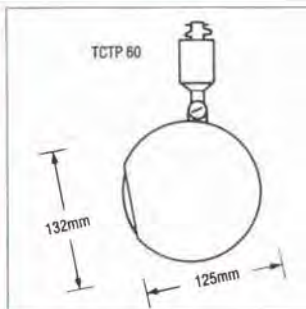


150W BULLNOSE SPOTLIGHTS

Available in a variety of finishes (see table) and packed complete with a 150W PAR 38 Spotlamp (not suitable for Coolray lamps). This luminaire will also accept 70W SON-R lamps (with remote control gear).

RANGE

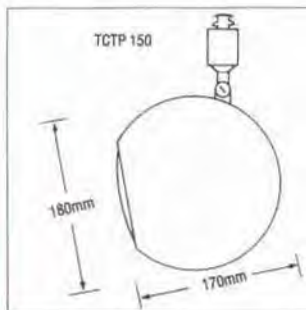
Cat. no.	Watts max	Fixing	Finish
TCTE 150AG	150	Mastertrack	Ashgrey
TCTE 150BR	150	Mastertrack	Brass
TCTE 150GM	150	Mastertrack	Gunmetal
TCTE 150P	150	Mastertrack	Polished


TCTP 60P

60W SPHERICAL SPOTLIGHTS

Available in a variety of finishes (see table) and packed complete with a 60W diffuse front Decorspot 63 lamp.

RANGE

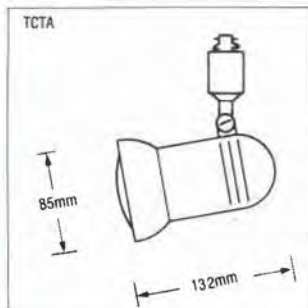
Cat. no.	Watts max	Fixing	Finish
TCTP 60AG	60	Mastertrack	Ashgrey
TCTP 60BR	60	Mastertrack	Brass
TCTP 60GM	60	Mastertrack	Gunmetal
TCTP 60P	60	Mastertrack	Polished


TCTP 150BR

150W SPHERICAL SPOTLIGHTS

Available in a variety of finishes (see table) and packed complete with a 150W PAR 38 Spotlamp (not suitable for Coolray lamps). This luminaire will also accept 70W SON-R lamps (with remote control gear).

RANGE

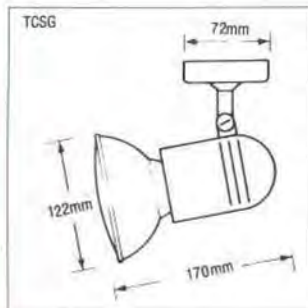
Cat. no.	Watts max	Fixing	Finish
TCTP 150AG	150	Mastertrack	Ashgrey
TCTP 150BR	150	Mastertrack	Brass
TCTP 150GM	150	Mastertrack	Gunmetal
TCTP 150P	150	Mastertrack	Polished


TCTA 60AG

60W DECORSPT 63 SPOTLIGHT

Supplied complete with a 60W diffuse front Decorspot 63 lamp.

RANGE

Cat. no.	Cap	Watts	Fixing	Finish
TCTA 60AG	ES	60	Mastertrack	Ashgrey
TCTA 60GM	ES	60	Mastertrack	Gunmetal


TCTG 150GM

150W PAR 38 SPOTLIGHT

An all purpose spotlight for 100/150W reflector lamps or GLS lamps with auxiliary reflectors. (Catalogue number TPA 100 or TPA 150). ES cap and packed c/w 150W PAR 38 spot lamp.

LAMPS

This luminaire accepts the full range of THORN EMI Decorspot 63, 80, 95 and 125 lamps plus PAR 38 (excluding 150W Cool-ray). Additionally up to 150W GLS lamps may be used, and 100W Cool-ray

RANGE

Cat. no.	Watts max	Fixing	Finish
TCSG 150AG	150	Surface	Ashgrey
TCSG 150GM	150	Surface	Gunmetal
TCTG 150AG	150	Mastertrack	Ashgrey
TCTG 150GM	150	Mastertrack	Gunmetal

AUXILIARY REFLECTORS

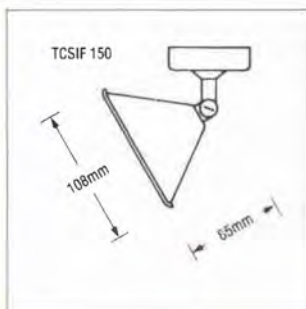
Cat. no.	Lamp watts	Length mm	Diameter mm	Weight kg
TPA 100	100	63	108	0.028
TPA 150	150	96	127	0.056



TCSIF 150B



TCTIF 150B


RANGE

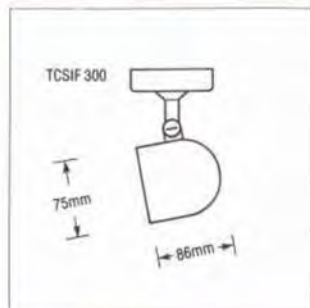
Cat. no.	Watts max	Fixing	Finish	Wt. kg
TCSIF 150AG	150 (K12)	Surface	Ashgrey	0-45
TCSIF 150B	150 (K12)	Surface	Black	0-45
TCTIF 150AG	150 (K12)	Mastertrack	Ashgrey	0-45
TCTIF 150B	150 (K12)	Mastertrack	Black	0-45

150W TUNGSTEN HALOGEN INDOOR FLOOD

Clear linear tungsten halogen lamp mounted in a stove-enamelled die-cast aluminium housing with a glass front. Supplied complete with a K 12 150W lamp.



TCSIF 300B


300W TUNGSTEN HALOGEN INDOOR FLOOD

Clear linear tungsten halogen lamp mounted in a black stove-enamelled die-cast aluminium housing. Can be used with barn door for maximum control, hood for general cut-off, or louvre for concealed lighting. A wire guard is available for bare lamp applications if required. Supplied c/w K11 200W lamp.

OPTIONAL ATTACHMENTS FOR 300W INDOOR FLOOD

Cat. no.	Description	Wt. kg
TCIFB	Barn door	0-30
TCIFH	Hood	0-10
TCIFL	Louvre	0-15
TCIGD	Wire guard	0-10



TCTIF 300B



TCIFB



TCIFH, TCIFL, TCIGD

RANGE

Cat. no.	Watts max	Fixing	Finish	Wt. kg
TCSIF 300B	300 (K9)	Surface	Black	0-90
TCTIF 300B	300 (K9)	Mastertrack	Black	0-90


TKL

TKLC

A versatile, speedily erected single line track system housed in a high quality anodised aluminium extrusion. The 16 amps rated track may be conduit mounted, screwed directly to any mounting surface in any plane or mounted on a small clip designed for use on uneven surfaces.

The track is offered in 'starter packs' consisting of a length of track c/w with mains connector and end cap. Starter packs are available in 1.2 metres, 2.4 metres and 3.6 metres lengths. Additionally extension lengths are available separately in the same lengths for the longer scheme. Track may be obtained from stock in 4.5 metres lengths suitable for surface mounting or in a flanged section for incorporation into a suspended ceiling. The luminaires and components adaptor snaps quickly and positively into the track with a simple quarter turn – featured in the Master-spot display range which complements the track. The adaptor is available as a separate item either fused (5 amps) or unfused for those many applications for which track is so useful, e.g. power take off for cash registers, office equipment etc.

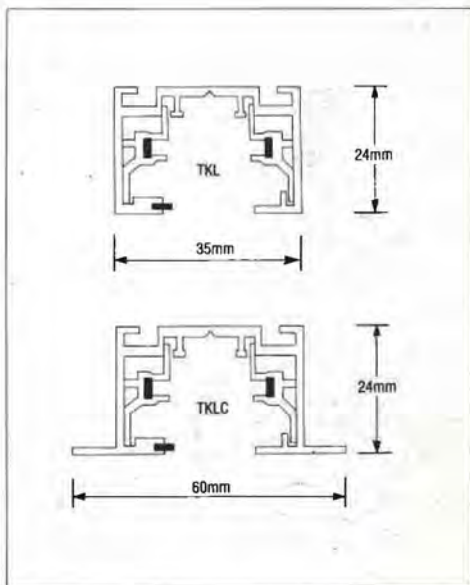
Note the versatility of the connectors. All are supplied pre-wired, all have ample loop-in/loop-out facilities, and may be easily rewired to permit separate supplies to be connected to *each* length of track. Master-track is the no-nonsense approach to a single track system with a flexibility and adaptability that is comparable to a multi-track system.

CONSTRUCTION

TRACK: PVC extrusion with rolled copper conductors housed in an anodised aluminium extrusion containing the separate earth strip.

COMPONENTS: high impact injection moulded plastic, colour grey except adaptors, colour black, ashgrey or gunmetal.

A comprehensive installer's guide is available without charge from THORN EMI Lighting Sales offices.





TK 8009



TK 8000/1



TK 8008



TK 8006/7



TK 8004/5



TK 8003

RANGE TRACK LENGTHS

Cat. no.	Description
TKL 1200	1-2m Starter track
TKL 2400	2-4m Starter track
TKL 3600	3-6m Starter track
TKLE 1200	1-2m Extension track
TKLE 2400	2-4m Extension track
TKLE 3600	3-6m Extension track
TKLL 4500	4-5m Extension track
TKLC 4500	4-5m Flanged track

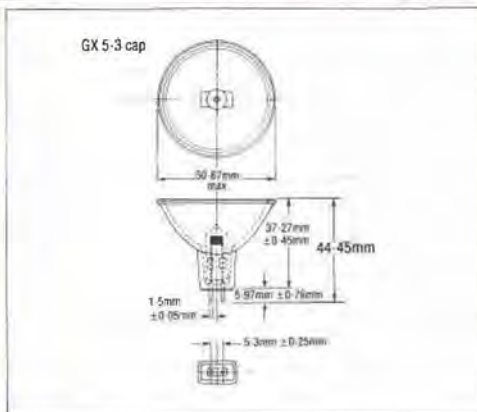
Note: Starter tracks are complete with mains connector and end cap.

COMPONENTS

Cat. no.	Description
TK 8000	Connector mains LH
TK 8001	Connector mains RH
TK 8002	Coupler, non-modular
TK 8003	Coupler, modular straight
TK 8004	Coupler, modular 'L' outside earth
TK 8005	Coupler, modular 'L' inside earth
TK 8006	Coupler, modular 'T' LH earth
TK 8007	Coupler, modular 'T' RH earth
TK 8008	Coupler, modular '+'
TK 8009	End cap
TK 8015AG	Adaptor, ashgrey
TK 8015B	Adaptor, black
TK 8015GM	Adaptor, gunmetal
TK 8016AG	Adaptor, fused 5 amps, ashgrey
TK 8016B	Adaptor, fused 5 amps, black

Cat. no.	Description
TK 8016GM	Adaptor, fused 5 amps, gunmetal
TK 8017	Fluorescent mounting kit
TK 8020	Track mounting clip
TK 8025	Track cover strip 1m, grey
TK 8026	Connector, outlet, cover plate
TK 8027	Flanged trim, mains connector
TK 8028	Flanged trim, modular straight coupler
TK 8029	Flanged trim, end cap
TK 8030	Display hook
TK 8031	Conduit mount, mains connector and end cap
TK 8032	Conduit mount, straight coupler and intermediate fixing
TK 8033	Conduit mount '+'
TK 8034	Conduit mount 'L'
TK 8035	Conduit mount 'T'

LIGHTSTREAM DISPLAY HALOGEN LAMPS



Lightstream is the family name for the 12-75 watt 12 volt mirror halogen lamp range. Details for individual lamp types are shown on the adjoining table.

Lightstream lamps produce a strong, controllable beam of brilliant cool white light. They are the next generation display light source replacing the less efficient and inelegant conventional types that produce and reflect light and considerable quantities of heat. The new Lightstream range have dichroic mirrors, this means a more efficient reflector and 50% of the heat being transmitted through the reflector. The result is a far lower ambient temperature due to the lower lamp wattage and the 'cool beam' dichroic mirror.

The effect creating abilities of these small lamps is only matched by the money saving potential from the extended life and reduced wattage.

The following table illustrates comparable Lightstream and conventional lamps.

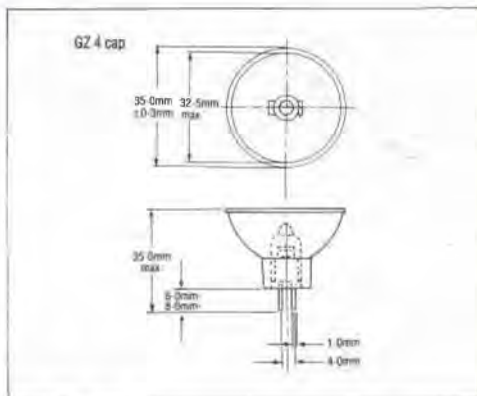
COMPARABLE LAMPS

	Beam type	Lightstream equivalent		
PAR 38	150W	SPOT	M49/M50	50 watts
		FLOOD	M50/M58	50 watts
	100W	SPOT	M71	35 watts
		FLOOD	M70	35 watts
	75W	SPOT	M68	20 watts
		FLOOD	M69	20 watts
ISL	150W		M50	50 watts
	100W		M70/M71	35 watts
	40W & 60W		M68/M69	20 watts

75 Watt Lightstream Lamps reference M60 Spot, M61 Flood are also available. Due to the excellent beam control possible with the Lightstream lamp range comparisons against conventional lamp types are not always valid. For instance in some applications M69 (20W) has replaced 100W ISL. The above comparisons are therefore intended as a guide until experience in the use of Lightstream has been obtained. For further information see pages 274-275.

LAMP RANGE

The full Lightstream lamp range includes both 35mm and 50mm diameter reflectors with ratings from 12 through to 75 watts. The luminaire range shown in this publication includes the larger 50mm lamps. Observe the maximum wattage limitation marked on the luminaire. Lower wattages may be used but it is advisable not to underload transformers substantially otherwise lamp life may be reduced.



RANGE - 35mm

Lamp watts	Beam	Lamp no.	Peak candelas	Beam angle
12W	Narrow	M64	6400	7°
20W	Narrow	M52	5500	10°
	Medium	M51	1760	17°
	Wide	M62	600	30°
35W	Narrow	M65	9000	8°
	Medium	M66	3000	20°

RANGE - 50mm

Lamp watts	Beam	Lamp no.	Peak candelas	Beam angle
20W	Narrow	M68	5000	11°
	Medium	M69	1000	24°
35W	Narrow	M71	9000	8°
	Medium	M70	3600	18°
50W	Narrow	M49	12000	10°
	Medium	M50	3700	21°
	Wide	M58	1550	38°
75W	Narrow	M60	16000	12°
	Wide	M61	2250	38°

Rated life = 3000 hours

LIGHTSTREAM ACCESSORIES

TRANSFORMERS

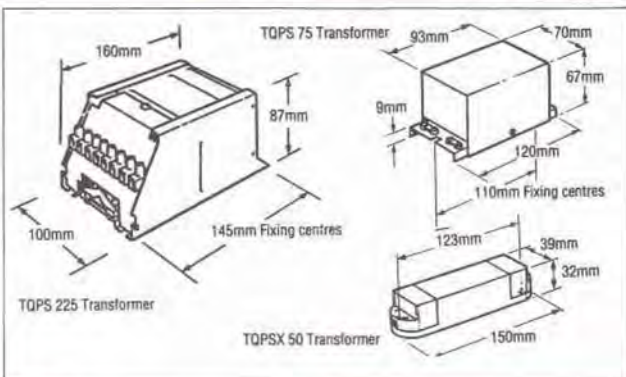
Three enclosed transformers are offered for use in conjunction with low voltage luminaires for mains operation. The smaller versions are suitable for loads between 20W and their maximum ratings i.e. 50W and 75W. The largest version is suitable for loads between 100W and 225W. Each transformer will operate any combination of lamp ratings within the above ranges.

These safety extra low voltage transformers are designed and manufactured to the highest standards and where relevant comply with IEC 742. They are insulated for safety and are suitable for direct mounting on normal interior flammable surfaces. In general, transformers should be mounted as close as is possible to the luminaires to minimise the voltage drop in the cable between the transformer and luminaire.

The unit can be mounted on any surface provided it can support the weight. Holes for mounting screws are provided. In normal operation the transformers will be warm so they should not be mounted in a totally enclosed space without adequate air flow for cooling, or where they are likely to be touched.

TQPSX 50 ELECTRONIC TRANSFORMER

Is suitable in those installations where its light weight (125g) and small size (39mm x 32mm x 150mm long) are an advantage. These transformers should not be mounted at distances greater than 1 metre from the lamp.



DIMMING

Conventional copper and iron transformers can be dimmed using a professional type dimmer incorporating a dc driven double thyristor circuit. At the moment electronic transformers cannot be dimmed by conventional means.

It is important that only THORN EMI transformers are used with our low voltage lighting equipment.

THORN EMI Lighting cannot accept any responsibility if transformers other than those shown above (which comply with the relevant international specifications) are used.



TF FILTER RANGE

Dramatic colour effects can be achieved with this range of very neat filters for lamps up to 50W with 50mm diameter reflectors. The filters are fixed in a high temperature plastic, fluted black ring which clips firmly over the front rim of the reflector.

The range consists of four high efficiency dichroic colour filters in green, red, blue and yellow. A fifth clear glass filter is recommended for use with subjects highly sensitive to ultra violet light. The filters are made of soda glass and, if used correctly, will not fade or crack.

TF 500 series — black

TF 600 series — ashgrey

TF FILTERS

	Cat. no.
Clear	TF 501C
	TF 601C
Green	TF 502G
	TF 602G
Red	TF 503R
	TF 603R
Blue	TF 504B
	TF 604B
Yellow	TF 505Y
	TF 605Y





LIGHTSTREAM TRACK TQT

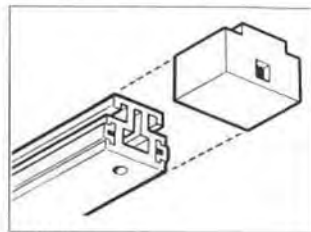
Mains voltage track is commonplace in the feature lighting scene of today.

However the need to ensure adequate electrical safety dictates the size of the track, which can become obtrusive for many applications.

Lightstream lamps operate at 12 volts and the ability to function at this intrinsically safe voltage enables an entirely new design of track to be produced.

All the features described below contribute to a new concept for display track lighting. The designer and user now has a compact, unobtrusive, flexible display lighting tool previously unobtainable.

The compact size of the track will be ideal for applications such as shop windows, shelves, mounting on beams, in display cases, hotels, libraries, galleries and museums, offices, exhibitions, display centres etc.



END CAP

Removable for attaching or changing luminaires.

TRACK

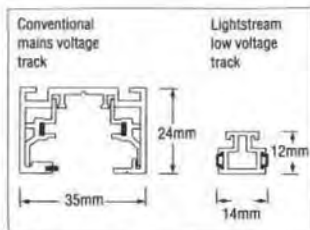
Operation at 12V gives complete electrical safety. No need to enclose conductors,

so rails are on outside for simplicity. Ultra slim size compared with mains track. High quality injection moulded plastics coloured ashgrey with plated copper rails.

Overall length 1.2m. Capacity 20A.

MOUNTING

Simple mounting to any convenient surface. 3 holes for screw fixing, 400mm centres. Ensure adequate clearance from the end cap so that luminaires can be attached. Lightstream Track lengths must be individually wired.

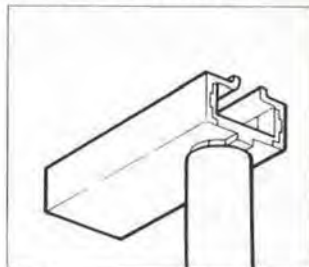


Cat. no.	Description	Weight kg
TQT 1200	Low voltage Lightstream Track	0.5

TRACK ADAPTORS

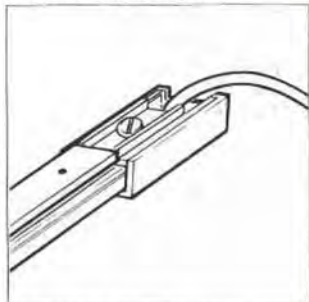
Adaptors slide onto the track after removing the end cap. Ensure that the post end of the adaptor is fed onto the track first. Luminaires can be moved to any

convenient position along the track or changed to achieve the required effect.



CABLE

Cable and end cover are permanently fixed to track. Cable 1.5m long, 2.5mm² twin PVC covered. To maintain correct voltage, cable length should not be changed.



TRANSFORMER

TQPS 225 transformer – see page 142.

LIGHTSTREAM DISPLAY HALOGEN – DOWNLIGHT ADAPTOR

DOWNLIGHT ADAPTOR TLVA

(packed complete with lamp)

Downlights using conventional reflector lamps are in widespread use in hotels, offices, stores and restaurants. These unobtrusive luminaires create a pleasant and congenial atmosphere, but the PAR 38 lamps normally used, cause unnecessarily high running costs.

POWER SAVING

The THORN EMI Downlight adaptor is a direct replacement for conventional reflector lamps giving immediate and substantial power cost savings without the need to replace existing Downlight luminaires. The Downlight adaptor:-

- Replaces PAR 38 and blown glass lamps.
- Saves over 60% of energy costs.
- Reduces maintenance costs due to longer lamp life.
- Saves adaptor price in first year (3000 hours).

REDUCED HEAT

In addition to the substantial power cost savings, the Downlight adaptor's 50W Lightstream lamp brings another benefit.

The reduction in total power from 150 to 57W (including transformer) reduces the heating effect by over 60%. This will be of particular benefit to the occupants and will reduce the load on the air conditioning.

The dichroic reflector further reduces the heat in the beam which is beneficial to heat sensitive items such as food or plants and of course people.

COMPONENTS OF THE DOWNLIGHT ADAPTOR

The Downlight adaptor comprises:

- An ES cap
- An enclosed 240V/12V transformer
- A GX5.3 lampholder
- A Lightstream 12V 50W M50 tungsten halogen lamp with dichroic reflector. (Suitable for 50W lamps only. If lower wattages are used the life of the lamp may be affected.)

The ES cap is mounted on the top of the transformer and the GX5.3 lampholder on the underside (see diagram).

IMPORTANT

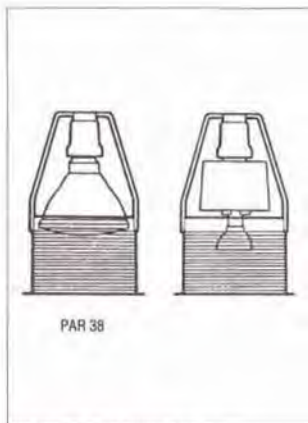
This adaptor is intended only for use in vertical cap up position in Downlights.

PRODUCT INFORMATION

Cat. no.	TLVA 50
Weight	1.0kg
Cap	ES (E27)
Lampholder	GL 1228
Circuit watts	57
Operating position	Vertical cap up
Lamp	M50
Max lamp watts	50



DOWNLIGHT ADAPTOR TLVA



MOUNTING IN DOWNLIGHT



LIMELIGHT

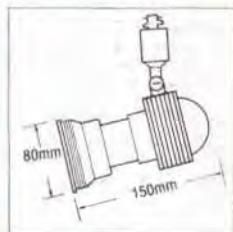
The 'Limelight' low voltage luminaire is manufactured in our factory at Neheim-Huston, West Germany – the birthplace of the German lighting industry – to very high standards and is part of their very successful range.

It is particularly appealing to those who like the 'Studio' look.

Maximum vertical and horizontal adjustment is possible. The housing, which is extruded aluminium contains both the lamp and the transformer and is connected to the mains supply by a plug and socket enabling this to be removed for maintenance or replacement.

The product is supplied in ashgrey and comes complete with a Lightstream M50 medium beam lamp. A clear glass front filter is provided as standard which is removable for lamp replacement.

Standard colour filters (TF series) can be used if the front glass is removed and discarded.



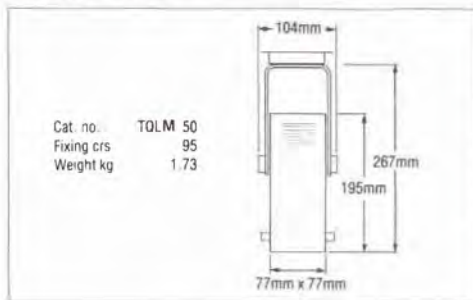
CAMERA '50' 50W LIGHTSTREAM

The Camera 50 is a 50 Watt Lightstream spotlight suitable for operation on either mains voltage Mastertrack or surface plate. It has a high grade pressure die cast aluminium body with injection moulded plastic components.

This efficient luminaire can reduce energy consumption by up to 65% and it has an extended average lamp life of 3000 hours. Other advantages are low heat output by using dichroic cool beam mirrors, robust filament construction, good colour rendering and small size. Applications will be for replacing conventional 150W reflector lamp luminaires.

The Camera 50 is available in two colours, gunmetal and ashgrey and is packed complete with the medium beam 50W Lightstream M50 lamp. (Suitable for 50W lamps only. If lower wattages are used, the life of the lamp may be affected.)

GLASS FILTERS: Clear and coloured soda lime glass dichroic filters are available for this range. See page 142.



RANGE

Cat. no.	Watts max	Fixing	Finish	Wt. kg
TCTTS 50 GM	50	Mastertrack	Gunmetal	1.5
TCTTS 50 AG	50	Mastertrack	Ashgrey	1.5
TCSTS 50 GM	50	Surface	Gunmetal	1.5
TCSTS 50 AG	50	Surface	Ashgrey	1.5

LIGHTSTREAM

LOW VOLTAGE SPOTLIGHTS FOR SURFACE OR LIGHTSTREAM TRACK MOUNTING

A range of exceptionally compact low voltage luminaires with attractive appearance. The designs are very stylish yet suitable for all types of interior from traditional to modern.

For all display and local lighting applications they provide effective but discreet lighting and wherever they are used can either be featured or hidden at will. This Lightstream luminaire range is available in either ashgrey or gunmetal finish, with surface mounting bases

or adaptors for Lightstream track described on page 143. Each spotlight is supplied with a 12V 50W Lightstream M50 medium beam lamp (max lamp watts - 50). A transformer is required for mains operation - see page 142



MINI PAR TQSM, TQTM

The high quality pressure diecast Mini PAR is the most compact luminaire in the range and takes its name from the shape of the widely used PAR lamp. It is however considerably smaller, the whole unit being barely larger than the lamp itself. For surface or Lightstream track mounting, Mini PAR will accept filters from the TF range.



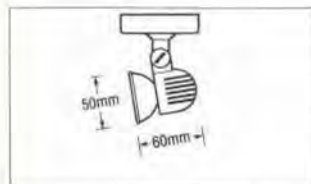
COWLSPOT

Cowlsport features a profiled shield which follows the shape of the Lightstream lamp, so that all backward light is screened. Concealing the light source from the rear without affecting the precise optical control of the lamp allows maximum emphasis to be achieved.

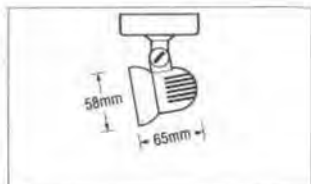


CATCHLITE

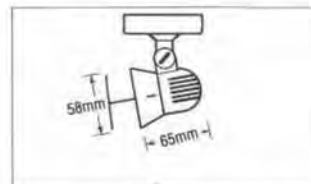
The Catchlite is ideal for those installations where the lighting equipment features as part of the interior design. The disc which is in the beam can be rotated to reflect some of the light to produce a secondary beam for additional highlighting.



Cat. no.	Description	Weight kg
TQSM 50 AG	Mini PAR Ashgrey Surface mounting	0.15
TQSM 50 GM	Mini PAR Gunmetal Surface mounting	0.15
TQTM 50 AG	Mini PAR Ashgrey Lightstream track	0.15
TQTM 50 GM	Mini PAR Gunmetal Lightstream track	0.15



Cat. no.	Description	Weight kg
TQSM 50 AG + TQCS AG	Cowlsport Ashgrey Surface mounting	0.2
TQSM 50 GM + TQCS GM	Cowlsport Gunmetal Surface mounting	0.2
TQTM 50 AG + TQCS AG	Cowlsport Ashgrey Lightstream track	0.2
TQTM 50 GM + TQCS GM	Cowlsport Gunmetal Lightstream track	0.2



Cat. no.	Description	Weight kg
TQSM 50 AG + TQCL AG	Catchlite Ashgrey Surface mounting	0.2
TQSM 50 GM + TQCL GM	Catchlite Gunmetal Surface mounting	0.2
TQTM 50 AG + TQCL AG	Catchlite Ashgrey Lightstream track	0.2
TQTM 50 GM + TQCL GM	Catchlite Gunmetal Lightstream track	0.2

Transformer required - see page 142
Filters - see page 142

The above fittings are packed c/w M50 medium beam Lightstream lamp. Other 50mm diameter lamps from the Lightstream range are also suitable up to a maximum of 50 watts.

Transformer required - see page ●●●
Not suitable for filters

Transformer required - see page 142
Not suitable for filters

SPOTLIGHTS WITH CHARACTER

With a new range of neat attachments for the Mini PAR spotlight the customer choice is significantly extended. Whilst exploiting the small nature of the lamp to the full, these attachments enable the creation of spotlights of totally new character and poise.



CONELITE

This conical attachment flows smoothly into the body to create a clean modern appearance. It extends level with the front of the lamp to mask backlight without affecting the beam performance, making it eminently suitable for many interiors.

Wide range and versatility is essential for all interior lighting, whatever the application. Lightstream spotlights, with or without these new attachments, enable the mood and character of an interior to come to life without becoming intrusive.



MESHILITE

The perforated surface of Meshlite utilises the red light which is transmitted through the dichroic reflector of Lightstream lamps. The light pattern which is produced to the sides and rear gives an attractive and unique appearance to Meshlite without affecting the performance of the beam. Due to the open front of Meshlite, none of the sparkle from the lamp is lost but a pleasing degree of eye comfort is still achieved.

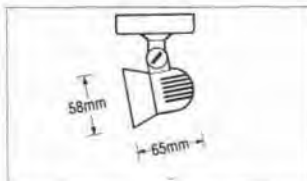
Alternative luminaire designs are now offered to produce the desired atmosphere with the addition of sparkle from the tiny but powerful lamps.

The luminaires shown on this page are all ordered in two parts, the required Mini PAR body and the matching attachment.



BARNLITE

Lightstream lamp types, because of the precise nature of their components and construction, inherently offer a well controlled beam of light. However, for those applications where restriction of the beam is required, Barnlite is the answer. The four adjustable 'barn doors' enable the lit area to be reduced for emphasis or comfort.

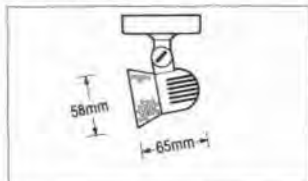


Cat. no.	Description	Weight kg
TQSM 50 AG + TQCN AG	Conelite Ashgrey Surface mounting	0.2
TQSM 50 GM + TQCN GM	Conelite Gunmetal Surface mounting	0.2
TQTM 50 AG + TQCN AG	Conelite Ashgrey Lightstream track	0.2
TQTM 50 GM + TQCN GM	Conelite Gunmetal Lightstream track	0.2

Transformer required - see page 142

Not suitable for filters

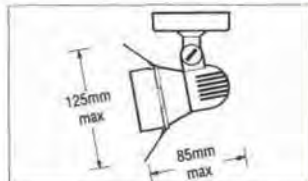
The above fittings are packed c/w M50 medium beam Lightstream lamp. Other 50mm diameter lamps from the Lightstream range are also suitable up to a maximum of 50 watts. Photographs show ashgrey fittings; gunmetal also available.



Cat. no.	Description	Weight kg
TQSM 50 AG + TQML AG	Meshlite Ashgrey Surface mounting	0.2
TQSM 50 GM + TQML GM	Meshlite Gunmetal Surface mounting	0.2
TQTM 50 AG + TQML AG	Meshlite Ashgrey Lightstream track	0.2
TQTM 50 GM + TQML GM	Meshlite Gunmetal Lightstream track	0.2

Transformer required - see page 142

Not suitable for filters



Cat. no.	Description	Weight kg
TQSM 50 AG + TQBL AG	Barnlite Ashgrey Surface mounting	0.2
TQSM 50 GM + TQBL GM	Barnlite Gunmetal Surface mounting	0.2
TQTM 50 AG + TQBL AG	Barnlite Ashgrey Lightstream track	0.2
TQTM 50 GM + TQBL GM	Barnlite Gunmetal Lightstream track	0.2

Transformer required - see page 142

Not suitable for filters

LIGHTSTREAM

LIGHTSTREAM MAKES THE DIFFERENCE

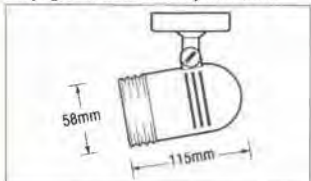
The Lightstream range offers choice and versatility for traditional or modern applications.

Open or enclosed luminaires with a totally new character give scope for the lighting designer to produce dramatic effects with considerable flexibility.



BULLET TQSB, TQTB

The Bullet spot takes its name from its shape and provides a concealed light source. It is a similar shape to the conventional Bullnose mains luminaire but considerably smaller. The rolled aluminium baffle that pushes into the injection moulded body is removable to allow easy lamp replacement. This luminaire is particularly suitable for situations where no stray light can be tolerated by the viewer.

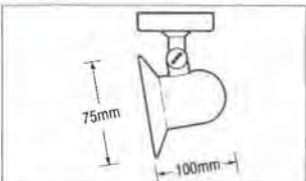


Cat. no.	Description	Weight kg
TQSB 50 AG	Bullet Ashgrey Surface mounting	0.2
TQSB 50 GM	Bullet Gunmetal Surface mounting	0.2
TQTB 50 AG	Bullet Ashgrey Lightstream track	0.2
TQTB 50 GM	Bullet Gunmetal Lightstream track	0.2

Transformer required - see page 142
Not suitable for filters

FLARE SPOT TQSF, TQTF

The appropriately named Flare Spot has a high quality pressure diecast aluminium body. Its special feature is the flared hood shielding the back of the reflector making it suitable for applications where all backlight must be eliminated. The attractive shape can be featured in displays without allowing sparkle to distract attention.



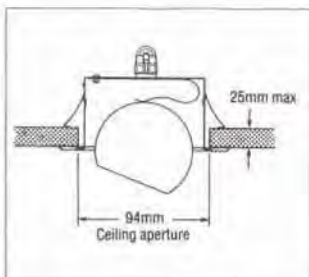
Cat. no.	Description	Weight kg
TQSF 50 AG	Flare Spot Ashgrey Surface mounting	0.25
TQSF 50 GM	Flare Spot Gunmetal Surface mounting	0.25
TQTF 50 AG	Flare Spot Ashgrey Lightstream track	0.25
TQTF 50 GM	Flare Spot Gunmetal Lightstream track	0.25

Transformer required - see page 142
Filters - see page 142

EYEBALL TQE

This flexible luminaire can either be used as a conventional flush downlight or a directional eyeball with up to 40° of adjustment. This facility is achieved by use of an adjustable aluminium sphere which clips into the ceiling ring and retains the lamp in position. The lamp direction is changed by simply gripping the reflector and moving the lamp.

For use when demand may vary from flush downlight to directional eyeball in order to illuminate the appropriate surface. It is ideal for situations where flush luminaires are required, but lighting flexibility must still be provided.



Cat. no.	Description	Weight kg
TQE 50	Eyeball Recessed	0.5

Transformer required - see page 142

Note: Unless otherwise stated the above fittings are packed c/w M50 medium beam Lightstream lamp. Other 50mm diameter lamps from the Lightstream range are also suitable up to a maximum of 50 Watts.

RECESSED LUMINAIRES

This range of luminaires provides unobtrusive ceiling lighting for offices, shops, hotels and many other situations.



RECESSED MINI PAR TQRM

The recessed Mini PAR comprises a ceiling ring and the Mini PAR unit together with its ribbed base. This base simply clips into the ceiling ring.

This luminaire provides fully adjustable spotlighting with the minimum projection from the ceiling.

Together with the low volt spots they provide a flexible range which gives designers the tools to design schemes for all kinds of interiors.



RECESSED FLARE SPOT TQRF

Similar in construction to the recessed Mini PAR but utilising the Flare Spot body to give a more distinctive appearance. Use of this shielded design gives a more unobtrusive effect by avoiding any distractions from backlight.

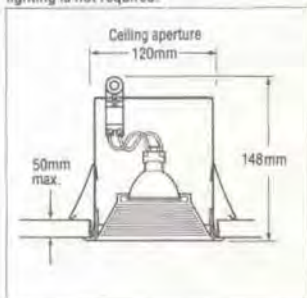
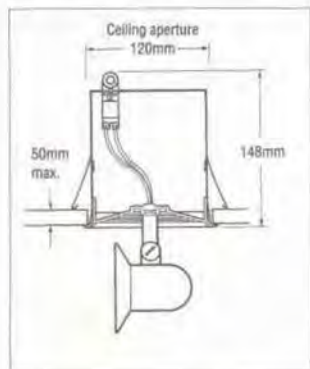
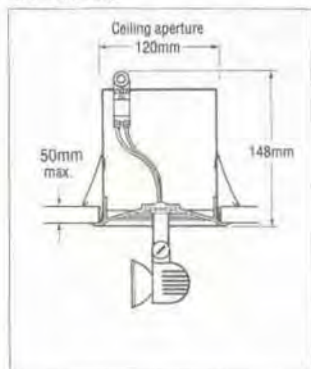
All these luminaires have a white ceiling ring for mounting and are supplied with a 12V 50W Lightstream lamp. A transformer is required for mains operation - see page 142.



MINI DOWNLIGHT TQD

This downlight can produce a lighting effect comparable to conventional 150W reflector lamp downlights but with over 60% energy saving and at least 50% longer lamp life. It comprises a high temperature injection moulded baffle housing a recessed lampholder. The baffle clips into the ceiling ring with a harness.

It is ideal for offices, hotels, restaurants etc. where the layout is fixed and adjustable lighting is not required.



Cat. no.	Description	Weight kg
TQRM 50 GM	Mini PAR Gunmetal Recessed	0.4

Transformer required - see page 142
Filters - see page 142

Cat. no.	Description	Weight kg
TQRF 50 GM	Flare Spot Gunmetal Recessed	0.5

Transformer required - see page 142
Filters - see page 142

Cat. no.	Description	Weight kg
TQD 50	Mini Downlight Recessed	0.4

M58 Wide beam lamp included
Transformer required - see page 142
Filters - see page 142

Note: Unless otherwise stated, the above fittings are packed c/w M50 medium beam Lightstream lamp. Other 50mm diameter lamps from the Lightstream range are also suitable up to a maximum of 50 watts.

LIGHTSTREAM LIGHTBAR AND CEILING LIGHT

In situations where a few spotlights are required in groups, an improved appearance can be achieved by the use of Lightbar or Ceiling Light rather than individual luminaires.

An additional benefit is the saving of installation time by using multiway units in place of single points.

Both the 2 way Lightbars and the 3 way Ceiling Lights are offered in Mini PAR or Flare Spot options, colour ashgrey.



LIGHTBAR TQSF 250, TQSM 250.

Lightbar consists of a slim base on which is mounted either two Mini PAR or two Flare Spot luminaires.

The slender construction enables it to be used to advantage on narrow surfaces such as shelves.



CEILING LIGHT TQSF 350, TQSM 350

The circular base of Ceiling Light carries three Mini PAR or three Flare Spot luminaires.

Ceiling Light offers great versatility from a single unit. All lamps facing the same direction create dramatic highlighting.

Alternatively, each one can be adjusted to accent individual points of interest and provide more general lighting.

RANGE

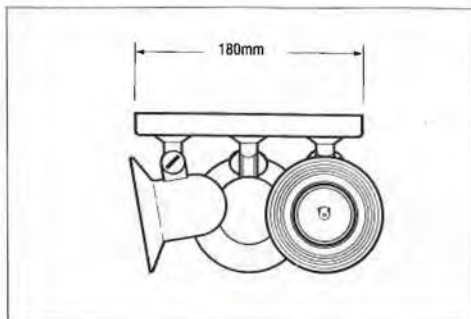
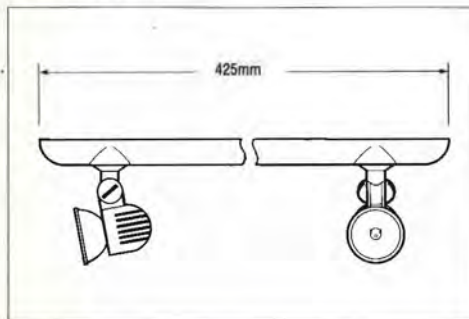
Cat. no.	Description	Weight kg
TQSF 250 AG	Lightbar – Flare Spot, Ashgrey, surface mounting	0-7
TQSM 250 AG	Lightbar – Mini PAR, Ashgrey, surface mounting	0-5

M50 Medium beam lamps included
Transformer required – see page 142
Filters – see page 142
Max lamp watts – 50

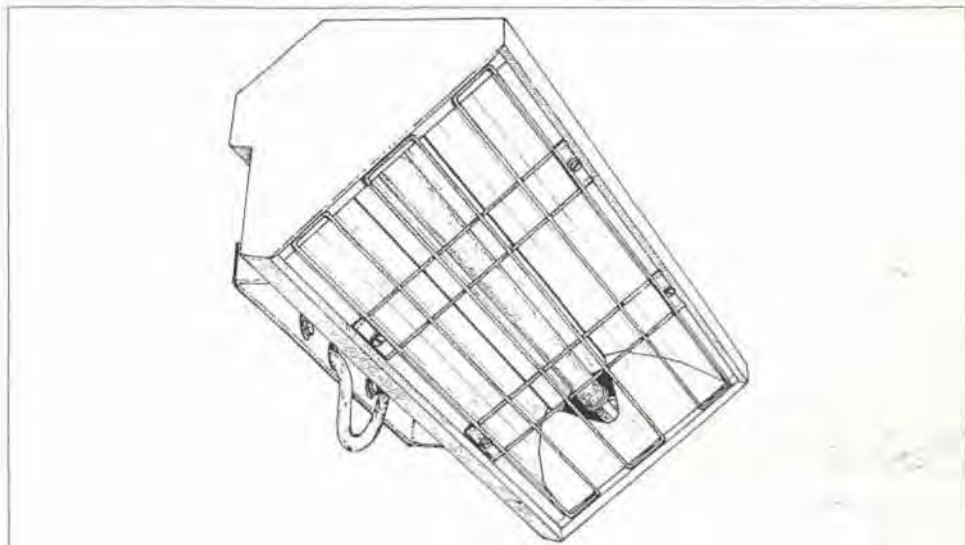
RANGE

Cat. no.	Description	Weight kg
TQSF 350 AG	Ceiling Light – Flare Spot, Ashgrey, surface mounting	1-2
TQSM 350 AG	Ceiling Light – Mini PAR, Ashgrey, surface mounting	0-9

M50 Medium beam lamps included
Transformer required – see page 142
Filters – see page 142
Max lamp watts – 50



HALOGEN HEATER (available from end 1986)



HS 1500

APPLICATIONS

For providing instant heat precisely where and when required. Ideal for meeting halls, churches and other buildings which have occasional occupancy patterns. Using the newly developed short wave infra-red linear tungsten halogen lamps, this fitting provides a practical and economical heating solution for premises which are, at the moment, difficult or expensive to heat by conventional methods.

DESCRIPTION (Provisional)

BODY: fabricated from sheet steel and finished in light grey powder coat enamel paint.

REFLECTOR: specular anodised aluminium.

LAMPS:

- (i) HH162 1500W infra-red linear tungsten halogen with ruby sleeve.
- (ii) HH163 1000W infra-red linear tungsten halogen with ruby sleeve.

For further details and availability of this fitting including applications and installation design data, please consult your nearest THORN EMI Lighting Sales office.