Saturn Group has now been established for 17 years and is still a privately owned company, operating from Farnworth, Bolton, Gtr. Manchester.

Saturn lighting offer a comprehensive range of products under the "Preslite" trade name.

Saturn lighting products include flood lighting, industrial lowbays and hi-bays, fluorescent recessed, surface, display fittings and Aquamax non - corrosive fittings, also fire alarms and emergency lighting. We also offer a conversion and repair service to the majority of other manufacturer's fittings. All Saturn's products are available through Electrical wholesalers and distributors throughout the UK.

Saturn lighting has its own lighting and technical department, based at Bolton offering technical support and lighting schemes designed by our LIF engineers using the Relux Lighting Design Package.

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Product Code		Length	Width	Depth
Recessed Switch Start T8				
MFCC663	3 x 18W	597	597	89
MFCC664	4 x 18W	597	597	89
MFCC1263	3 x 36W	1197	597	89
MFCC1264	4 x 36W	1197	597	89

Fits both 15 mm and 25 mm T-Bar Ceiling Grids

Recessed High Frequency T8				
MFHCC664	4 x 18W	597	597	89
MFHCC663	3 x 18W	597	597	89
MFHCC1264	4 x 36W	1197	597	89

Fits both 15 mm and 25 mm T-Bar Ceiling Grids
All fittings supplied c/w Cat 2 louvre with wishbone attachment

Recessed c/w Low Brightness Louvre Switch Start T8				
MFLC664	4 x 18W	597	597	89
MFLC1264	4 x 36W	1197	597	89

Recessed High Frequency T8				
MFHLC664	4 x 18W	597	597	89
MFHLC1264	4 x 36W	1197	597	89

Fits both 15 mm and 25 mm T-Bar Ceiling Grids
All fittings supplied c/w L/Brightness louvre with wishbone attachment

Recessed Switch Start T8				
MFDC664	4 x 18W	597	597	89
MFDC1264	4 x 36W	1197	597	89

Recessed High Frequency T8				
MFHDC664	4 x 18W	597	597	89
MFHDC1264	4 x 36W	1197	597	89

Fits both 15 mm and 25 mm T-Bar Ceiling Grids
All fittings supplied c/w IP44 TPb Diffuser with wishbone attachment

Options add suffix to product code

EM	3 Hr Emergency Maintained
ST	Self Test
DIM	1 - 10v Dimmable
DIG	Digitally Dimmable
ES	Electronic Starters
SW	Split Wired

Lamps not fitted

FLUORESCENT

Preslite ®

Product Code

Empty Body Switch Start		High Frequency	
MF663	3 x 18W	**MFH663**	3 x 18W
MF664	4 x 18W	**MFH664**	4 x 18W
MF1263	3 x 36W	**MFH1263**	3 x 36W
MF1264	4 x 36W	**MFH1264**	4 x 36W

C/w with Low Brightness Louvre		L/B Louvre Only	
MFL663	3 x 18W	**ML663**	
MFL664	4 x 18W	**ML664**	
MFL1263	3 x 36W	**ML1263**	
MFL1264	4 x 36W	**ML1264**	

C/w with Cat 2 Louvre		Cat 2 Louvre Only	
MFC663	3 x 18W	**MC663**	
MFC664	4 x 18W	**MC664**	
MFC1263	3 x 36W	**MC1263**	
MFC1264	4 x 36W	**MC1264**	

C/w with Prismatic TPb Diffuser		TPb Diffuser Only	
MFD662	2 x 18W	**MD66**	
MFD663	3 x 18W	**MD66**	
MFD664	4 x 18W	**MD66**	
MFD1263	3 x 36W	**MD126**	
MFD1264	4 x 36W	**MD126**	

All these fittings and attachments are placed in the T bar by lift and tilt.

Options add suffix to product code

EM	3 Hr Emergency Maintained
ES	Electronic Starter
MPD	Dished Prismatic Diffuser
MDO	Flat Opal Diffuser
DIM	1 - 10v Dimmable
DIG	Digitally Dimmable
ME	White Egg Crate Diffuser
MES	Silver Egg Crate Diffuser
MFD	TPA Fire Retardent Diffuser
SW	Split Wired

Available for both 15 and 25 mm Grids

Product Code

		Length	Width	Height
High Frequency				
MFHD664IP	4 x 18W T8	595	595	95
MFD414IP	4 x 14W T5	595	595	95

Fittings supplied c/w TPa Diffuser

Options add suffix to product code

EM	3 Hr Emergency Maintained
ST	Self Test
DIM	1 - 10 volt Dimmable
DIG	Digitally Dimmable

The body of the fitting is fitted with a polyurethane gasket around its outside lip. To which is attached the cover frame. This is then fixed to the body by means of screws, which when fully tightened give an IP54 seal. IP65 available to order.

Lamps not fitted

Surface T8 Modular

Surface Modular High Frequency T8

Product Code		Length	Width	Height
MSHCC664	4 x 18W	622	622	91
MSHCC1264	4 x 36W	1269	324	91
MSHCC1232	2 x 36W	1269	324	91
MSHCC1532	2 x 58W	1569	324	91

All fittings supplied c/w Cat 2 louvre with wishbone attachement

Lamps not fitted

Lamps not fitted

Preslite® Preslite®

Recessed Modular High Frequency T5

Product Code		Length	Width	Height
MFCC314	3 x 14W	595	595	60
MFCC324	3 x 24W	595	595	60
MFCC414	4 x 14W	595	595	60
MFCC424	4 x 24W	595	595	60
MFCC228	2 x 28W	1195	295	60
MFCC428	4 x 28W	1195	595	60

Fits both 15 mm and 25 mm T-Bar Ceiling Grids

All fittings supplied c/w Cat 2 louvre with wishbone attachement

Surface Modular High FrequencyT5

Product Code		Length	Width	Height
MSCC414	4 x 14W	595	595	60
MSCC424	4 x 24W	595	595	60
MSCC228	2 x 28W	1195	295	60
MSCC254	2 x 54W	1195	295	60
MSCC235	2 x 35W	1495	295	60
MSCC249	2 x 49W	1495	295	60
MSCC280	2 x 80W	1495	295	60

All fittings supplied c/w Cat 2 louvre with wishbone attachement

Product Code		Length	Width	Height
MFDC314	3 x 14W	595	595	60
MFDC324	3 x 24W	595	595	60
MFDC414	4 x 14W	595	595	60
MFDC424	4 x 24W	595	595	60

Fits both 15 mm and 25 mm T-Bar Ceiling Grids

All fittings supplied c/w IP44 TPb Diffuser with wishbone attachement

Product Code		Length	Width	Height
MSDC314	3 x 14W	595	595	60
MSDC324	3 x 24W	595	595	60
MFDC414	4 x 14W	595	595	60
MFDC424	4 x 24W	595	595	60

All fittings supplied c/w IP44 TPb Diffuser with wishbone attachement

Product Code		Length	Width	Height
MSPS228	2 x 28W	1200	296	60
MSPS254	2 x 54W	1200	296	60
MSPS235	2 x 35W	1500	296	60
MSPS249	2 x 49W	1500	296	60
MSPS280	2 x 80W	1500	296	60

All fittings supplied c/w Cat 2 louvre with wishbone attachement

A range of T5 energy efficient recessed modulars. The body is manufactured from sheet steel, folded and welded. It is finished in a white powder coating. The optics are attached to the fittings by four spring clips and is suitable for both 15mm and 25mm T-Bar Ceiling Grids

Options add suffix to product code

EM	3 Hr Emergency Maintained
ST	Self Test
DIM	1 - 10v Dimmable
DIG	Digitally Dimmable
SW	Split Wired

Options add suffix to product code

EM	3 Hr Emergency Maintained
ST	Self Test
DIM	1 - 10v Dimmable
DIG	Digitally Dimmable
SW	Split Wired

No photograph available at time of going to print

FLUORESCENT

FLUORESCENT

Lamps not fitted

Lamps not fitted

Direct/Indirect High Frequency

Product Code		Length	Width	Height
MFICC155	1 x 55W PLL	595mm	595mm	100mm
MFICC236	2 x 36W PLL	595mm	595mm	100mm
MFICC240	2 x 40W PLL	595mm	595mm	100mm
MFICC255	2 x 55W PLL	595mm	595mm	100mm
MFICC214	2 x 14W T5	595mm	595mm	100mm
MFICC224	2 x 24W T5	595mm	595mm	100mm
MFICC314	3 x 14W T5	595mm	595mm	100mm
MFICC324	3 x 24W T5	595mm	595mm	100mm

Direct/Indirect High Frequency

Product Code		Length	Width	Height
Direct/Indirect				
MFDD236	2 x 36W PLL	595	595	90
MFDD240	2 x 40W PLL	595	595	90
MFDD255	2 x 55W PLL	595	595	90

Product Code		Length	Width	Height
MFIDC155/P	1 x 55W PLL	595mm	595mm	100mm
MFIDC255/P	2 x 55W PLL	595mm	595mm	100mm
MFIDC214	2 x 14W T5	595mm	595mm	100mm
MFIDC224	2 x 24W T5	595mm	595mm	100mm
MFIDC314	3 x 14W T5	595mm	595mm	100mm
MFIDC324	3 x 24W T5	595mm	595mm	100mm

Product Code		Length	Width	Height
Direct/Indirect				
MFWD414	4 x 14W T5	595	595	90
MFWD424	4 x 24W T5	595	595	90

The Softlight range of Direct/
Indirect fitting assist installers and
designers meet the requirements
of the LG7 lighting guide.
Manufactured from sheet steel,
powder coated and supplied in a
range of lamps and wattages.

Options add suffix to product code

EM	3 Hr Emergency Maintained
ST	Self Test
DIM	1 - 10 volt Dimmable
DIG	Digitally Dimmable

N.B. PLL lamps fitted only T5 not supplied

Options add suffix to product code

EM	3 Hr Emergency Maintained
ST	Self Test
DIM	1 - 10 volt Dimmable
DIG	Digitally Dimmable

The Softlight range of Direct/
Indirect fitting assist installers and
designers meet the requirements
of the LG7 lighting guide.
Manufactured from sheet steel,
powder coated and supplied in a
range of lamps and wattages.

Lamps fitted

Lamps fitted

Lamps not fitted

FLUORESCENT

FLUORESCENT

Preslite®   Preslite®

Product Code		Length	Width	Height
Direct/Indirect				
MSCEN228	2 x 28W T5	1200	165	50
MSCEN254	2 x 54W T5	1200	165	50
MSCEN235	2 x 35W T5	1500	165	50
MSCEN249	2 x 49W T5	1500	165	50

A suspended fitting, with upward and downward light distribution, helping to meet the requirements of LG7. The body is finished in silver and the louvre manufactured from Alanod anodised aluminium. Light distribution is 45% Up/55% Down

Options add suffix to product code

EM	3 Hr Emergency Maintained
ST	Self Test
DIM	1 - 10 volt Dimmable
DIG	Digitally Dimmable

Product Code		Length	Width	Height
Direct				
MSCBA228	2 x 28W T5	1195	235	65
MSCBA254	2 x 54W T5	1195	235	65
MSCBA235	2 x 35W T5	1495	235	65
MSCBA249	2 x 49W T5	1495	235	65

Options add suffix to product code

EM	3 Hr Emergency Maintained
ST	Self Test
DIM	1 - 10 volt Dimmable
DIG	Digitally Dimmable

A fitting with the flexability to allow both surface and suspended mounting, in addition the fittings can be linked end to end to form continuous linear runs. The body is manufactured from extruded aluminium, surface anodised, silver epoxy coated and the louvre manufactured from Alanod anodised aluminium.

Product Code		Length	Width	Height
Direct/Indirect				
MSCDA328	3 x 28W T5	1196	262	58
MSCDA354	3 x 54W T5	1196	262	58
MSCDA335	3 x 35W T5	1496	262	58
MSCDA349	3 x 49W T5	1496	262	58

A suspended fitting, with upward and downward light distribution, helping to meet the requirements of LG7. The body is finished in silver and the louvre manufactured from Alanod anodised aluminium, in addition to the louvre there are opal diffusers down the edges of the fitting Light distribution is 70% Up/30% Down

Options add suffix to product code

EM	3 Hr Emergency Maintained
ST	Self Test
DIM	1 - 10 volt Dimmable
DIG	Digitally Dimmable

Product Code		Length	Width	Height
Direct/Indirect				
MSCAA228	2 x 28W T5	1230	295	90
MSCAA254	2 x 54W T5	1230	295	90
MSCAA235	2 x 35W T5	1530	295	90
MSCAA249	2 x 49W T5	1530	295	90

Options add suffix to product code

EM	3 Hr Emergency Maintained
ST	Self Test
DIM	1 - 10 volt Dimmable
DIG	Digitally Dimmable

A suspended fitting, with upward and downward light distribution, helping to meet the requirements of LG7. The body is finished in white epoxy coated perforated sheet steel, with a PVC liner. Light distribution is 55% Up/45% Down

FLUORESCENT

FLUORESCENT

Lamps not fitted

Lamps not fitted

Product Code		Length	Width	Height
Direct				
MSCSD228	2 x 28W T5	1195	460	130
MSCSD254	2 x 54W T5	1195	460	130
MSCSD235	2 x 35W T5	1495	460	130
MSCSD249	2 x 49W T5	1495	460	130

A versatile fitting, for both surface and suspended mounting, which helps meet the requirements of LG7. The body is finished in white epoxy coated sheet steel. The optic is epoxy coated perforated sheet steel.

Options add suffix to product code

EM	3 Hr Emergency Maintained
ST	Self Test
DIM	1 - 10 volt Dimmable
DIG	Digitally Dimmable

Product Code		Length	Width	Height
Direct/Indirect				
MSA128	1 x 28W T5	1225	166	65
MSA154	1 x 54W T5	1225	166	65
MSA135	1 x 35W T5	1525	166	65
MSA149	1 x 49W T5	1525	166	65
MSA228	2 x 28W T5	1225	166	65
MSA254	2 x 54W T5	1225	166	65
MSA235	2 x 35W T5	1525	166	65
MSA249	2 x 49W T5	1525	166	65

A surface mounted fitting, with clean lines, comprising of 0.6mm white epoxy coated sheet steel base, polycarbonate end plates and a PMMA opal diffuser. It has a wide range of application in offices, schools, retail areas and stores.

Options add suffix to product code

EM	3 Hr Emergency Maintained
ST	Self Test
DIM	1 - 10 volt Dimmable
DIG	Digitally Dimmable

High Frequency Wallwasher

Product Code		Length	Width	Height
MWWC155	1 x 55W PLL	595	295	90
MWWC255	2 x 55W PLL	1195	295	90

Manufactured from white epoxy coated sheet steel, with an asymmetric specular reflector. The Wall Washer is ideal for use in retail applications

Lamps not fitted

Lamps fitted

Preslite® Preslite®

Product Code		Length	Width	Depth
NCC2	1 x 18W	570	112	100
NCC4	1 x 36W	1280	112	100
NCC5	1 x 58W	1580	112	100
NCC6	1 x 70W	1880	112	100
NCC22	2 x 18W	570	166	100
NCC24	2 x 36W	1280	166	100
NCC25	2 x 58W	1580	166	100
NCC26	2 x 70W	1880	166	100
NCC32	3 x 18W	570	225	100
NCC34	3 x 36W	1280	225	100
NCC42	4 x 18W	570	360	100

Product Code	Nominal Length	Length	Width	Height
NCC128	1 x 28W 1.2m (4ft)	1280	112	100
NCC154	1 x 54W 1.2m (4ft)	1280	112	100
NCC135	1 x 35W 1.5m (5ft)	1580	112	100
NCC149	1 x 49W 1.5m (5ft)	1580	112	100
NCC180	1 x 80W 1.5m (5ft)	1580	112	100
NCC228	2 x 28W 1.2m (4ft)	1280	166	100
NCC254	2 x 54W 1.2m (4ft)	1280	166	100
NCC235	2 x 35W 1.5m (5ft)	1580	166	100
NCC249	2 x 49W 1.5m (5ft)	1580	166	100
NCC280	2 x 80W 1.5m (5ft)	1580	166	100

Supplied complete with Stainless Steel Clips

The Aquamax T5 Non-Corrosive fitting comprises of an injection moulded polycarbonate body, a clear prismatic polycarbonate diffuser complete with stainless steel clips. There is a closed cell silicone gasket fitted to the body. The gear tray is attached to the body by turnbuckles and suspensions are provided to help provide easy installation and maintainance.

The Aquamax T8 Non-Corrosive fitting comprises of an injection moulded polycarbonate body, a clear prismatic polycarbonate diffuser complete with stainless steel clips. There is a closed cell silicone gasket fitted to the body. The gear tray is attached to the body by turnbuckles and suspensions are provided to help provide easy installation and maintainance.

Gear and Accessories add suffix to product code

HF	High Frequency
E	Switch Start Cold Store (-25°C)
EM	3hr Integral Emergency pack
EML	3hr Integral LED Emergency pack
DIM	1 - 10 volt Dimmable
DIG	Digitally Dimmable
EMR	3hr Remote Emergency pack
ST	Self Test
FSTB	Fused Terminal Block
110	Site Version (110V) (not available on 6')
TRI	Tripod Mounted
TWK	Through Wired

Gear and Accessories add suffix to product code

EM	3hr Integral Emergency pack
EML	3hr Integral LED Emergency pack
EMR	3hr Remote Emergency pack
DIM	1 - 10 volt Dimmable
DIG	Digitally Dimmable
ST	Self Test
FSTB	Fused Terminal Block
110	110 volt version available in 14, 28 and 35 watt
TWK	Through Wired

IP 65 Stainless Steel Body

		Length	Width	Height
NCCSS5	1 x 58W	1660	165	130
NCCSS25	2 x 58W	1660	235	130

Gear and Accessories add suffix to product code

EM	3hr Integral Emergency pack
EML	3hr Integral LED Emergency pack
DIM	1 - 10 volt Dimmable
DIG	Digitally Dimmable
ST	Self Test
FSTB	Fused Terminal Block

The Aquamax T8 Stainless steel Non-Corrosive fitting comprises one piece pressed stainless steel body, a clear polycarbonate diffuser complete with stainless steel clips and stuffing gland

FLUORESCENT

FLUORESCENT

Lamps not fitted

Lamps not fitted

MAC

Product Code

Open Range
MAC113   1 x 13W open fitting
MAC118   1 x 18W open fitting
MAC126   1 x 26W open fitting
MAC142   1 x 42W open fitting

MAC213   2 x 13W open fitting
MAC218   2 x 18W open fitting
MAC226   2 x 26W open fitting

Product Code

Drop Glass Range
MAC213DG 2 x 13W c/w drop glass
MAC218DG 2 x 18W c/w drop glass
MAC226DG 2 x 26W c/w drop glass

MACDG

MACIP

IP Range
MAC213IP   2 x 13W c/w glass cover IP44
MAC218IP   2 x 18W c/w glass cover IP44
MAC226IP   2 x 26W c/w glass cover IP44

Options add suffix to product code

EMR   Emergency Remote Pack
ST   Self Test
HF   High Frequency
DIM   High Frequency Dimmable 1-10V
DIG   Digital Dimming

Turbo Louvre Range
MAC213L   2 x 13W turbo louvre
MAC218L   2 x 18W turbo louvre
MAC226L   2 x 26W turbo louvre

MACL

Options add suffix to product code

EMR   Emergency Remote Pack
ST   Self Test
HF   High Frequency
DIM   High Frequency Dimmable 1-10V
DIG   Digital Dimming
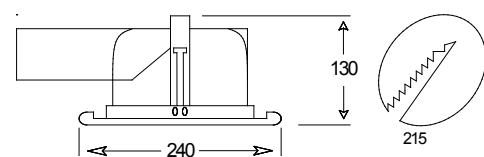
MAC Range   MACIP Range   MADG Range   MAL Range

MAC Range: 130 / 240 / 215
MACIP Range: 130 / 240 / 215
MADG Range: 165 / 240 / 215
MAL Range: 130 / 240 / 210

FLUORESCENT   FLUORESCENT

Lamps fitted   Lamps fitted

Lighting Design Service
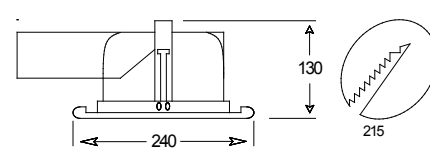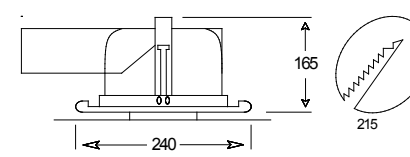
Preslite®   Preslite®
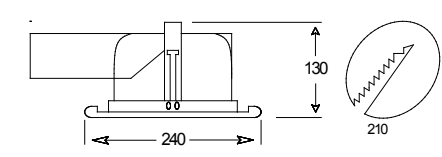
Product Code		Cutout (mm)	Depth (mm)
MACV113 HF	1 x 13 w PL	105	160
MACV118 HF	1 x 18 w PL	125	160

A compact vertical downlight only needing a cut out of 105mm diameter.It comes complete with high frequency ballast. The housing is manufactured from high purity polycarbonate and the reflector from aluminium with a vacuum metallic finish.

Champignon Range

Product Code		Diameter (mm)	Depth (mm)
PLECH616	16W 2D	280	145
PLECH628	28W 2D	280	145
PLECH638	38W 2D	280	145

Options add suffix to product code

HF	High Frequency
HF/EM	Integral HF Ballast and 3 Hr Emergency Pack

Available with brass or chrome trim and glass diffuser.

Polo Range

Product Code		Diameter (mm)	Depth (mm)
PLEPO16	16W 2D	270	80
PLEPO28	28W 2D	330	100
PLEPO38HF	38W 2D	330	100

An IP54 fitting with simple lines, yet with a robust construction.
Available in 16 watt and 28 watt switch start versions.
The fittings are suitable for ceiling or wall mounting, for a range of interior or sheltered external applications.
.

Options add suffix to product code

HF	High Frequency
HF/EM	Integral HF Ballast and 3 Hr Emergency Pack

Product Code		Diameter	Depth	IP Rating
PLE8	16W Crystal/White Base	200	95	IP44
PLE16	16W Polycarbonate.	205	80	IP65
PLE28	28W Polycarbonate.	286	80	IP65
PLE38*	38W Polycarbonate.	286	80	IP65
PLESQ16	16W Polycarbonate.Square	225 x 225	100	IP65
PLESQ28	28W Polycarbonate.Square	225 x 225	100	IP65
PLESQ38	38W Polycarbonate.Square	225 x 225	100	IP65

*Remote Emergency

Options

HF	High Frequency
EML	LED Emergency (PLE16, PLE28, PLESQ16 and PLESQ38 only
PC	Photocell
WCPL	Wire Cage 2D bulkheads 330mm x 330mm x 125mm
B/O	Black Base Opal Diffuser
B/P	Black Base Prismatic Diffuser
W/O	White Base Opal Diffuser
W/P	White Base Prismatic Diffuser

PLE8

WCPL

PLESQ16/28/38   PLE16/28/38

Opaline Range

	Diameter(mm)		Depth (mm)	IP Rating
PLEOP316	16W	325	107	IP44
PLEOP416	16W	425	117	IP44
PLEOP428	28W	425	117	IP44
PLEOP438	38W	425	117	IP44
PLEOP528	28W	525	117	IP44
PLEOP538	38W	525	117	IP44
LDOP21	21W LED	425	`117	IP44

Available in white (as standard), brass or chrome trim.
Diffuser in opal or prismatic.

Options add suffix to product code

HF   High Frequency
HF/EM   Integral HF Ballast and 3 Hr Emergency Pack

Haloline Range

	Diameter(mm)		Depth (mm)	IP Rating
PLE541	16W	425	117	IP44
PLE542	28W	425	117	IP44
PLE543	38W	425	117	IP44

Options add suffix to product code

HF   High Frequency
HF/EM   Integral HF Ballast and 3 Hr Emergency Pack
BLUE   Blue Filters
RED   Red Filters
GREEN   Green Filters

The Haloline fitting is similar in appearence to the Opaline fitting. The rear of the fitting has Clear or coloured inserts which produces a halo effect around the fitting. Shown above is a section from the back of the fitting to show the inserts which allow the light to be emmited from the rear of the fitting. Here shown in Blue but Clear fitted as standard.

FLUORESCENT

Lamps fitted

Product Code		Picture ref.
DFF226	2 x 26W PL	1

①

Product Code		Length	Picture ref.
T8 Flourescent Version			
SLL118	1 x 18W T8	610mm	2
SLL136	1 x 36W T8	1219mm	2
SLL158	1 x 58W T8	1524mm	2
SLL170	1 x 70W T8	1829mm	2
SLL236	2 x 36W T8	2438mm	2
SLL258	2 x 58W T8	3048mm	2
LED Version			
SLLS2	LED	610mm	2
SLLS4	LED	1219mm	2
SLLS5	LED	1524mm	2
SLLS6	LED	1829mm	2
SLLS8	LED	2438mm	2
SLLS10	LED	3048mm	2

Options add suffix to product code

Bk   Matt black body and black end caps
Wh   White body and white end caps
Other colours available on request – please quote RAL colour number at time of ordering.

IP65

②

Supplied complete with Cool White Tubes and 200mm Stand Off brackets. Other sizes of bracket available to special order.

FLUORESCENT

Lamps fitted

Single sided amenity fitting IP40

DAS70S   70W SON R7s

DAS70M   70W HQI R7s

Double sided amenity fitting IP40

DAD70S   70W SON R7s

DAD70M   70W HQI R7s

Available with Coloured lamps
Bl   Blue
Gr   Green
Mg   Magenta

FOR INDOOR USE ONLY
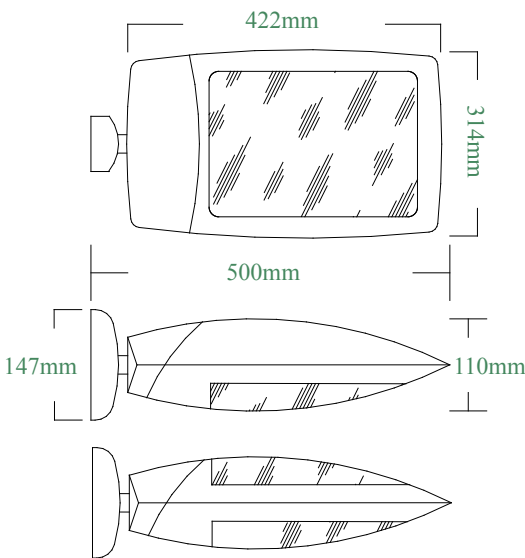
Product Code				Picture ref.
DF70C	70W	HQI Surface Fitting		1
DF150C	150W	HQI Surface Fitting		1
		Cutout (mm)		
DFR70	70W	HQI Recessed Fitting	220 x 130	2
(adjustable)				
DFR150	150W	HQI Recessed Fitting	220 x 130	2
(adjustable)				
DFC70	70W	HQI Circular Fitting	150 Dia	3
(Recessed)				
DFC150	150W	HQI Circular Fitting	220 Dia	3
(Recessed)				
DFA35	35W	HQI Recessed Fitting	160 Dia	4
(adjustable) G12 Lamp				
DFA70	70W	HQI Recessed Fitting	160 Dia	4
(adjustable) G12 Lamp				
DFA150	150W	HQI Recessed Fitting	160 Dia	4
(adjustable) G12 Lamp				

Options add suffix to product code

Coloured Lamps
Bl   Blue
Gr   Green
Mg   Magenta

N.B.G12 Coloured lamps available in 70 and 150 watt

A timed ignitor is now fitted as standard to all SON and HQI fittings

422mm

314mm

500mm

147mm   110mm

Lamps fitted

Lamps fitted

①

②

③

④

Preslite ®

Preslite ®

The Prestronic range of Microwave sensors can be fitted either integral or remote to any fluorescent luminaire to enable large savings in energy use and acheive reductions in Carbon ommissions.
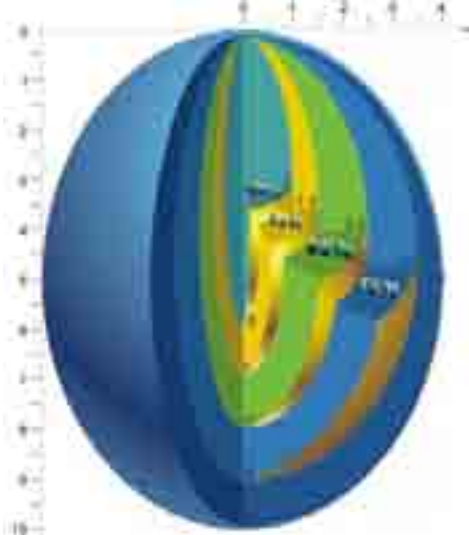
Microwave Sensors
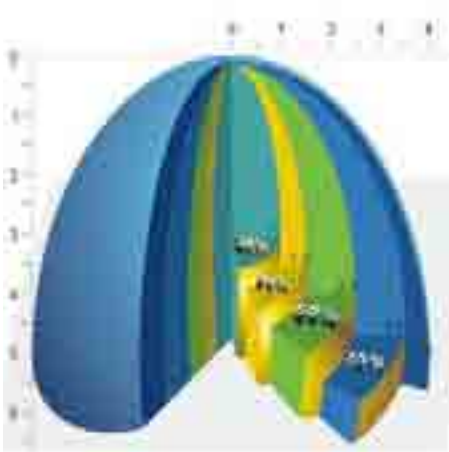
CDDME This is the simplest version of the Prestronic sensor range. It can be built into fittings or used as an individual sensor when mounted in the CDDMIP enclosure. It is able to provide the following functions:

1. Switch On/Off
2. Dimming when used in conjunction with Prestronic sensorDIM ballasts only.
3. Detection area. The detection area can be adjusted precisely using the DIP switches on the detector.
4. Hold Time. The time the fittings are held on at 100% can be adjusted using the DIP switches on the detector.
5. Daylight Sensing. This allows the sensor to be set to work in Daylight/Twilight/Darkness as required. This function is available only when mounted in CDDMIP enclosure.

CDDME

Microwave Sensors

CDDMS This is the standard version of the Prestronic sensor range. It can be built into fittings or used as an individual sensor Indoors or Outdoors when mounted in the CDDMIP enclosure. It provides the following functions:

1. Switch On/Off
2. Dimming when used in conjunction with Prestronic sensorDIM ballasts only.
3. Detection area. The detection area can be adjusted precisely using the DIP switches on the detector.
4. Hold Time. The time the fittings are held on at 100% can be adjusted using the DIP switches on the detector.
5. Daylight Sensing. This allows the sensor to be set to work in Daylight/Twilight/Darkness as required.This function is available only when mounted in CDDMIP enclosure.

CDDMS

Technical Data

Operating Voltage	220-240V +/- 10% 50/60Hz
Switching Capacity	800W (resistive load), 400W (inductive load), Unlimited load with Prestronic Ballast
Standby Power	<1W
Detection Area	20/30/50/75/100% adjusted by DIP switches
Hold Time	5s/30s/300s/20min/25min adjusted by DIP switches
Daylight Threshold	2-500 lux daylight/twilight/darkness adjusted by DIP switches
Sensor Principle	Microwave Motion Detector
Microwave Frequency	5.8 GHz +/- 75 MHz
Microwave Power	<1mw
Detection Range	Max 5 m
Detection Angle	30-150°
Motion Detection	1-20km/h
Mounting Height	3-5 m
Operating Temperature	0°C to +50°C
IP Rating	IP20 (mounted inside a fitting), IP54 (mounted in CDDMIP enclosure)

Technical Data

Operating Voltage	220-240V +/- 10% 50/60Hz
Switching Capacity	1000W (resistive load), 400W (inductive load), Unlimited load with Prestronic Ballast
Standby Power	0.6W
Detection Area	20/30/50/75/100% adjusted by DIP switches
Hold Time	5s/30s/300s/15min/25min adjusted by DIP switches
Daylight Threshold	2-500 lux daylight/twilight/darkness adjusted by DIP switches
Sensor Principle	Microwave Motion Detector
Microwave Frequency	5.8 GHz +/- 75 MHz
Microwave Power	1mw
Detection Range	Max 10 m
Detection Angle	30-150°
Motion Detection	1-20km/h (<3m mounting height); 1-200km/h (>5m mounting height)
Mounting Height	3-10 m
Operating Temperature	-35°C to +70°C
IP Rating	IP20 (mounted inside a fitting), IP54 (mounted in CDDMIP enclosure)

FLUORESCENT

FLUORESCENT

Microwave Sensors

CDDMR   This is the reinforced version of the Prestronic sensor range.It has all the functions of the standard sensor and can be built into fittings or used as an individual sensor Indoors or Outdoors when mounted in the CDDMIP enclosure. By inceasing the power of the microwave it can detect up to 20m. It provides the same functions as the standard version:
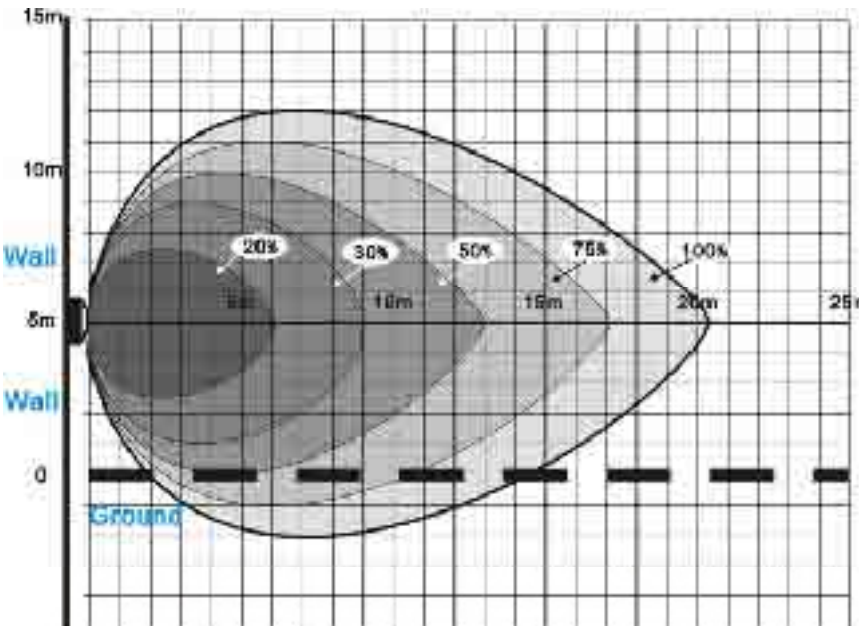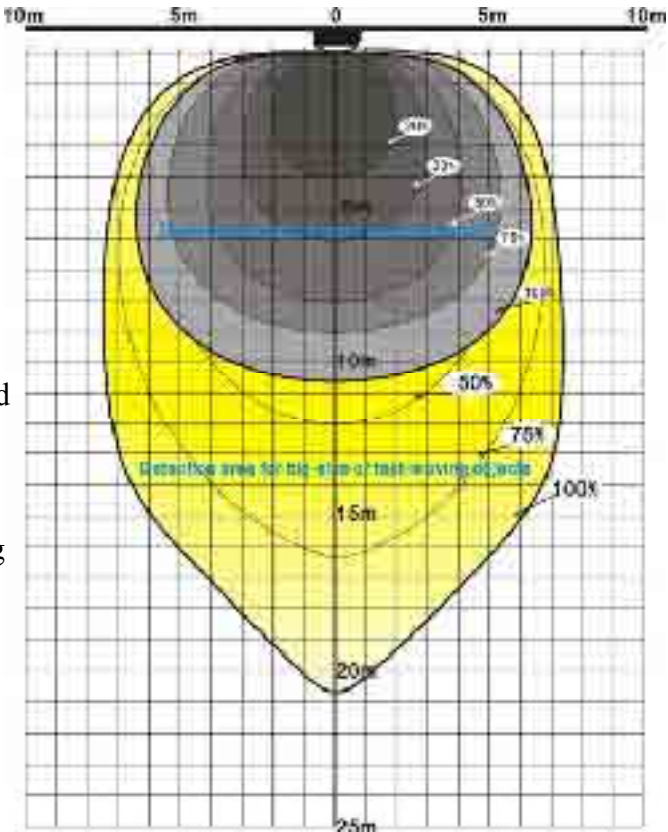
CDDMR

1. Switch On/Off
2. Dimming when used in conjunction with Prestronic sensorDIM ballasts only.
3. Detection area. The detection area can be adjusted precisely using the DIP switches on the detector.
4. Hold Time. The time the fittings are held on at 100% can be adjusted as for detection using the DIP switches on the detector.
5. Daylight Sensing. This allows the sensor to be set to work in Daylight/Twilight/Darkness as required.This function is available only when mounted in CDDMIP enclosure.

When using microwave sensors it is important to remember that the sensitivity is closely related to speed and reflective surface area. In normal cases, the minimum reflection surface is equal to the human trunk, all Prestronic products are based on this minimum reflective surface. However, when the CDDMR is mounted at or near 20m, the reflection surface is then only the human head and shoulder, which is a much smaller area than the trunk. In such cases, compensation in moving speed is needed to keep the same detection area; if there is no speed compensation, then the detection area is reduced by about half.

To the side and below are the combined diagrams for the reinforced version (CDDMR), showing different mounting heights and detection areas for the different applications (the grey part for normal body detection, the yellow part for big-size or fast-moving objects detection)

Technical Data

Operating Voltage	220-240V +/- 10% 50/60Hz
Switching Capacity	1000W (resistive load), 400W (inductive load), Unlimited load with Prestronic Ballast
Standby Power	0.6W
Detection Area	20/30/50/75/100% adjusted by DIP switches
Hold Time	5s/30s/300s/15min/25min adjusted by DIP switches
Daylight Threshold	2-500 lux daylight/twilight/darkness adjusted by DIP switches
Sensor Principle	Microwave Motion Detector
Microwave Frequency	5.8 GHz +/- 75 MHz
Microwave Power	2mw
Detection Range	Max 20 m
Detection Angle	30-150°
Motion Detection	1-20km/h (<3m mounting height); 1-200km/h (>5m mounting height)
Mounting Height	3-10 m
Operating Temperature	-35°C to +70°C
IP Rating	IP20 (mounted inside a fitting), IP54 (mounted in CDDMIP enclosure)

Microwave Sensors

CDDMC   This is a motion detector with a long sensing range and is suitable in its application for traffic areas with temporary occupation, such as corridors, pathways and general circulation areas. It provides the following functions:

1. Switch On/Off
2. Dimming a) When used in conjunction with Prestronic
   sensorDIM ballasts
   b) Provides 1-10 volt output for use with any
   analogue dimmable ballast
3. Corridor Function; Movement detected 100% output,
   No movement detected light level dimmed after preset
   time, after second preset time fitting switched off.
4. Detection area. The detection area can be adjusted
   precisely using the DIP switches on the detector.
5. Hold Time. The time the fittings are held on at 100%
   can be adjusted using the DIP switches on the detector.
6. Daylight Sensing. This allows the sensor to be set to
   work in Daylight/Twilight/Darkness as required using
   remote sensors mounted within the fitting.

See page 34 for sensor heads.

CDDMC

Microwave Sensors

CDDMA   This is a presence detector for use in areas such as offices, call centers and classrooms, where there is occupation of the room or area but only small or resticted movements It provides the following functions:

1. Switch On/Off
2. Dimming a) When used in conjunction with Prestronic
   sensorDIM ballasts
   b) Provides 1-10 volt output for use with any
   analogue dimmable ballast
3. Stand-by Function; Movement detected 100% output,
   No movement detected light level dimmed after preset
   time, after second preset time fitting switched off.
4. Detection area. The detection area can be adjusted
   precisely using the DIP switches on the detector.
5. Hold Time. The time the fittings are held on at 100%
   can be adjusted using the DIP switches on the detector.
6. Daylight Sensing. This allows the sensor to be set to
   work in Daylight/Twilight/Darkness as required using
   remote sensors mounted within the fitting.
See page 34 for sensor heads.

CDDMA

Technical Data

Operating Voltage	220-240V +/- 10% 50/60Hz
Switching Capacity	2500W (resistive load), 800W (inductive load), Unlimited load with Prestronic Ballast
Standby Power	<1W
Detection Area	20/30/50/75/100% adjusted by DIP switches
Hold Time	5s/30s/300s/15min/25min adjusted by DIP switches
Daylight Threshold	2-500 lux daylight/twilight/darkness adjusted by DIP switches
Sensor Principle	Microwave Motion Detector
Microwave Frequency	5.8 GHz +/- 75 MHz
Microwave Power	<1mw
Detection Range	Max 10 m
Detection Angle	30-150º
Motion Detection	1-20km/h (<3m mounting height); 1-200km/h (>5m mounting height)
Mounting Height	3-5 m
Operating Temperature	-35ºC to +70ºC
IP Rating	IP20 (mounted inside a fitting), IP54 (mounted in CDDMIP enclosure)

Technical Data

Operating Voltage	220-240V +/- 10% 50/60Hz
Switching Capacity	2500W (resistive load), 800W (inductive load), Unlimited load with Prestronic Ballast
Standby Power	<1W
Detection Area	20/30/50/75/100% adjusted by DIP switches
Hold Time	5s/30s/300s/15min/25min adjusted by DIP switches
Daylight Threshold	2-500 lux daylight/twilight/darkness adjusted by DIP switches
Sensor Principle	Microwave Motion Detector
Microwave Frequency	5.8 GHz +/- 75 MHz
Microwave Power	<1mw
Detection Range	Max 6 m
Detection Angle	30-150º
Motion Detection	Very small movements such as typing, reading and conversation
Mounting Height	3-5 m
Operating Temperature	-35ºC to +70ºC
IP Rating	IP20 (mounted inside a fitting), IP54 (mounted in CDDMIP enclosure)

FLUORESCENT

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Prestronic   Prestronic
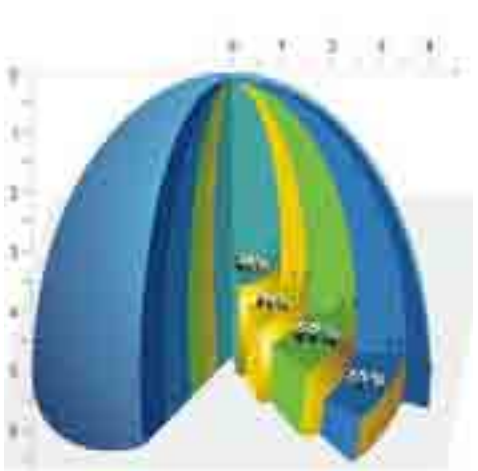
Lux Controller

CDDPCH   The Lux controller can be used to control individual or groups of fittings to a maximum of 400 watts inductive. The controller provides two contol outputs, the first, via the 1-10 volt output dims the fittings to the required level to provide lighting to the selected lux level. The second output switches the fittings off, once the lux value is exceeded by natural daylight.

Technical Data

Operating Voltage	110-277V 50/60Hz
Switching Capacity	400W inductive load
Standby Power	<0.6W
Output Signal	1-10V
Lux Values	50/100/200/300/500/700 adjusted by DIP switches
Operating Temperature	-35°C to +70°C
IP Rating	IP20

Sensor Options

The basic sensor can be mounted in three ways using the attachments illustrated.
1. Surface mounting. The sensor is attached to the bracket and mounted onto a flat surface.
2. Recessed mounting. Using a plastic nut the sensor can be recessed into a suitable flat surface
3. The sensor can be mounted directly onto a T5 or T8 tube using the plastic finger attached to the back of the bracket.

The cable length is 1 meter.

Control Options

CDDPCH   Dip switch Settings. ○: ON   ●: OFF

CDDHIP IP54 Housing

Lux Settings

	1	2	3	4	
I					50 Lux
II					100 Lux
III					200 Lux
IV					300 Lux
V					500 Lux
VI					750 Lux

Control Options

CDDME   Dip switch Settings. ○ : ON   ● : OFF

Detection Area

	1	2	3	
I				100%
II				75%
III				50%
IV				30%
V				20%

Hold Time

	1	2	3	
I				5s
II				30s
III				300s
IV				20min
V				25min

Daylight Sensor

	1	2	3		
I				2 Lux	Darkness
II				10 Lux	
III				30 Lux	Twilight
IV				50 Lux	
V				Disabled	Daylight

Control Options

CDDMS/CDDMR   Dip switch Settings. ○ : ON   ● : OFF

Detection Area

	1	2	3	
I				100%
II				75%
III				50%
IV				30%
V				20%

Hold Time

	1	2	3	
I				5s
II				30s
III				300s
IV				15min
V				25min

Daylight Sensor

	1	2	3		
I				2 Lux	Darkness
II				10 Lux	
III				30 Lux	Twilight
IV				50 Lux	
V				Disabled	Daylight

Control Options

CDDMC/CDDMA   Dip switch Settings. ○ : ON   ● : OFF

Detection Area

	1	2	3	
I				100%
II				75%
III				50%
IV				30%
V				20%

Hold Time

	1	2	3	
I				5s
II				30s
III				300s
IV				15min
V				25min

Stand-by Dimming Level

	1	2	3	
I				10%
II				20%
III				30%
IV				40%

Stand-by Period

	1	2	3	
I				5 min
II				10 min
III				20 min
IV				40 min
V				1 h

Daylight Sensor

	1	2	3		
I				2 Lux	Darkness
II				10 Lux	
III				30 Lux	Twilight
IV				50 Lux	
V				100 Lux	Daylight
VI				200 Lux	

FLUORESCENT

Prestronic   Prestronic

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## See Pages 48 and 49 for Columns and Street Lighting Cutouts

Product Code		Weight (Kg)	Windage (m²)
DFPS150	150W SON-T	11.2	0.19
DFPS250	250W SON-T	12.6	0.19
DFPS400	400W SON-T	14.2	0.19
DFPM250	250W HQI	11.2	0.19
DFPM400	400W HQI	11.7	0.19
DFPF250	250W MBF	11.2	0.19

Options add suffix to product code

DFPGR	Wire Guard
WCDF2	Wire Cage 550 x 550 x 550mm
PC	Photocell version
WH	White Body
RGB	Remote Gearbox
DFPG	Spare Glass
DCC01	Double Pole Cut out Single Fuse
DCC02	Double Pole Cut out Double Fuse
DCCF6	6 amp Fuse for Cut out
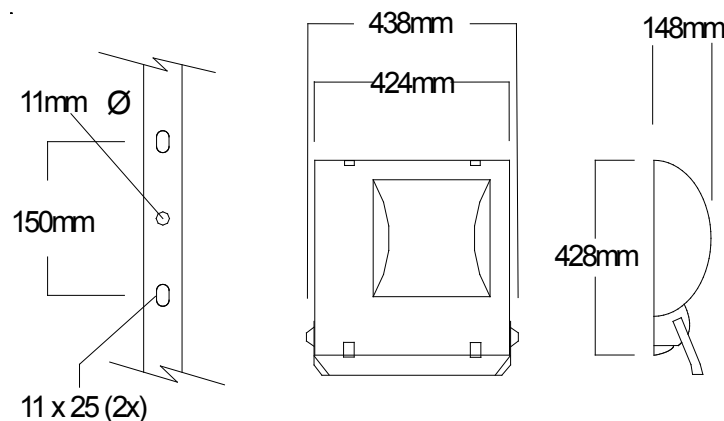
Product Code		Weight (Kg)	Windage (m²)
DFGS150	150W SON-T	7.5	0.19
DFGS250	250W SON-T	8.5	0.19
DFGM150	150W HQI-T	7.5	0.19
DFGM250	250W HQI-T	7.5	0.19
DFGF250	250W MBFU	7.5	0.19

Options add suffix to product code

DFPGR	Wire Guard
WCDF2	Wire Cage 550 x 550 x 550mm
PC	Photocell version
WH	White Body
RGB	Remote Gearbox
DFPG	Spare Glass
DCC01	Double Pole Cut out Single Fuse
DCC02	Double Pole Cut out Double Fuse
DCCF6	6 amp Fuse for Cut out
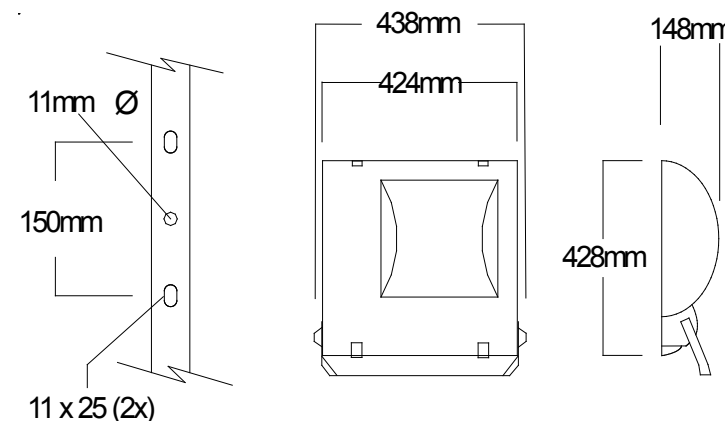
Constructed from a Polycarbonate body, with a one piece toughened glass front cover attached to the body by stainless steel clips. Supplied with galvanised bracket and lamp and 230-240V 50Hz control gear

Constructed from a diecast aluminium body, with a one piece toughened glass front cover attached to the body by stainless steel clips. Supplied with galvanised bracket and lamp and 230-240V 50Hz control gear

A timed ignitor is now fitted as standard to all SON and HQI fittings

A timed ignitor is now fitted as standard to all SON and HQI fittings

11mm Ø
150mm
11 x 25 (2x)
438mm
424mm
148mm
428mm

11mm Ø
150mm
11 x 25 (2x)
438mm
424mm
148mm
428mm

FLOODLIGHTING

FLOODLIGHTING

Lamps fitted

Lamps fitted

Mini Superior Range		Windage (m²)
DFPS70i	70W SONi	0.13
DFPS70T	70W SON-T	0.13
DFPM70	70W HQI	0.13
DFPM150	150W HQI	0.13
DFPF80	80W MBF	0.13
DFPF125	125W MBF	0.13

Options add suffix to product code

PC	Photocell
110	110 volt (HQI and SON)
FDPGR/S	Wire Guard
WCDF1	Wire Cage
DCC01	Double Pole Cut out Single Fuse
DCC02	Double Pole Cut out Double Fuse
DCCF6	6 amp Fuse for Cut out

A smaller version of the flood shown on page 38. Constructed from a diecast aluminium body, with a one piece toughened glass front cover attached to the body by stainless steel clips. Supplied with galvanised bracket and lamp and 230-240V 50Hz control gear
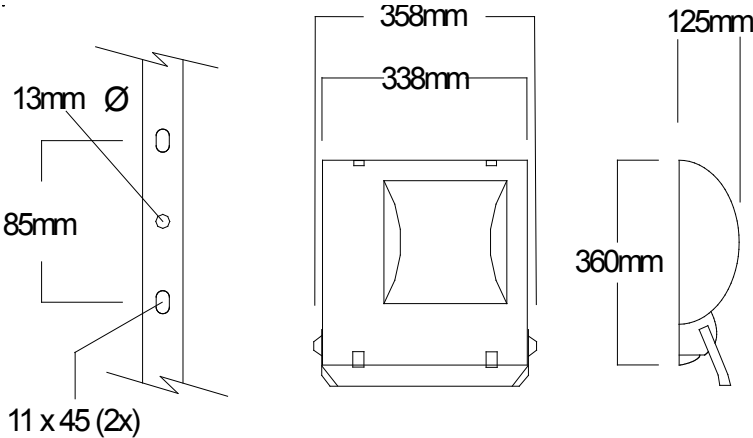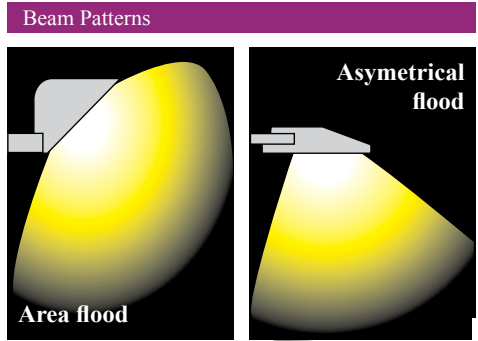
Product Code		Weight (Kg)	Windage (m²)
DFPAS150	150W SON-T	11.2	0.19
DFPAS250	250W SON-T	12.6	0.19
DFPAS400	400W SON-T	14.2	0.19
DFPAM150	150W HQI-T	11.2	0.19
DFPAM250	250W HQI-T	11.7	0.19
DFPAM400	400W HQI-T	12.7	0.19

Options add suffix to product code

DFPGR	Wire Guard
WCDF2	Wire Cage 550 x 550 x 550mm
PC	Photocell version
WH	White Body
RGB	Remote Gearbox
DFPG	Spare Glass
DCC01	Double Pole Cut out Single Fuse
DCC02	Double Pole Cut out Double Fuse
DCCF6	6 amp Fuse for Cut out

Constructed from a diecast aluminium body, with a one piece toughened glass front cover attached to the body by stainless steel clips. Supplied with galvanised bracket and lamp and 230-240V 50Hz control gear

A timed ignitor is now fitted as standard to all SON and HQI fittings

358mm
338mm
125mm
13mm Ø
85mm
360mm
11 x 45 (2x)

11mm Ø
150mm
438mm
424mm
148mm
428mm
11 x 25 (2x)

A timed ignitor is now fitted as standard to all SON and HQI fittings

FLOODLIGHTING

FLOODLIGHTING

Lamps fitted

Lamps fitted

Asymetrical		Weight (Kg)	Windage (m²)
DFAM70G	70W HQI R7s	5.0	0.08
DFAM150G	150W HQI R7s	6.0	0.08
DFAS70G	70W SON-TD R7s	5.0	0.08
DFAS150G	150W SON-TD R7s	6.0	0.08
DFAM250	250W HQI E40	9.5	0.24
DFAM400	400W HQI E40	10.5	0.24

A slim version of the Superior flood range shown on pages 38, 39 and 41. Constructed from a diecast aluminium body, with a one piece toughened glass front cover attached to the body by stainless steel clips. Supplied with galvanised bracket and lamp and 230-240V 50Hz control gear

Options add suffix to product code

B	Black Body
WH	White Body (70 and 150 watt only)
PC	Photocell
DFAGR	Wire Guard
WCDF1	Wire Cage 360 x 360 x 360mm

Coloured lamps (70W/150W/250W/400W)

Bl	Blue
Gr	Green
Mg	Magenta
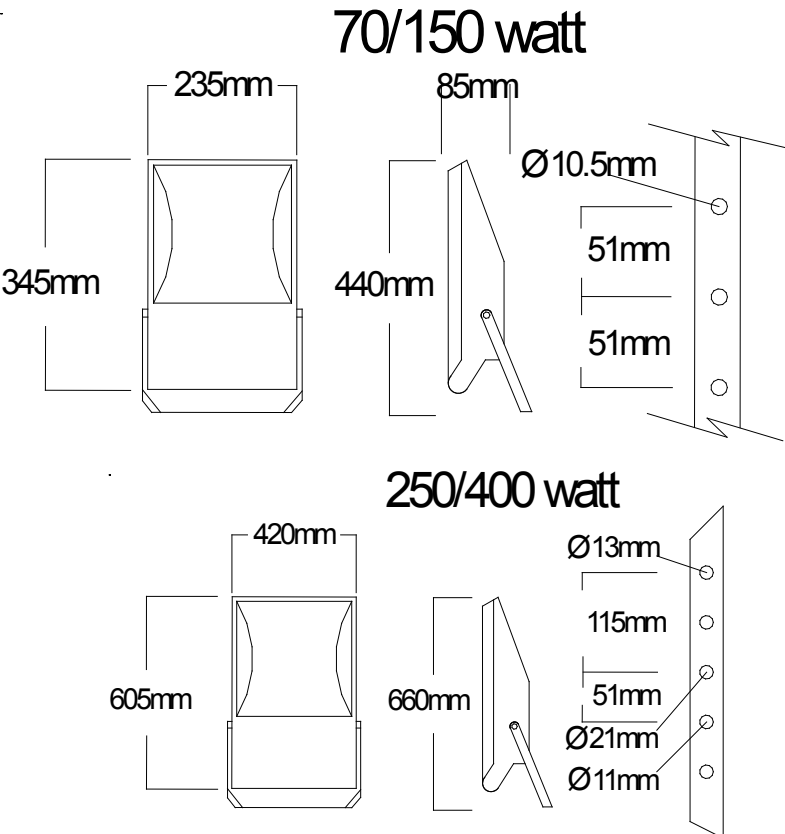
Product Code		Weight (Kg)	Windage (m²)
DFVM250	250W HQI-T	9.1	0.17
DFVM400	400W HQI-T	10.1	0.17

Options add suffix to product code

DFCGR	Wire Guard
WCDF2	Wire Cage 550 x 550 x 550mm
DCC01	Double Pole Cut out Single Fuse
DCC02	Double Pole Cut out Double Fuse
DCCF6	6 amp Fuse for Cut out

Constructed from a diecast aluminium body, with a hinged front cover fitted with toughened glass. Supplied with painted bracket and lamp and 230-240V 50Hz control gear.

Beam Patterns

Asymetrical flood

Area flood

A timed ignitor is now fitted as standard to all SON and HQI fittings

70/150 watt

235mm
85mm
Ø10.5mm
345mm
440mm
51mm
51mm

250/400 watt

420mm
Ø13mm
115mm
605mm
660mm
51mm
Ø21mm
Ø11mm

410mm
145mm
11mm Ø
300mm
510mm
200mm
75mm
345mm
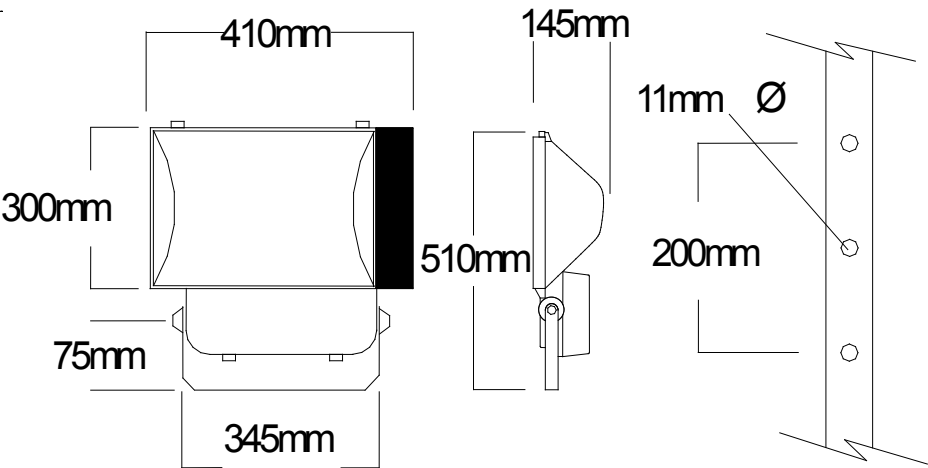
A timed ignitor is now fitted as standard to all SON and HQI fittings

Product Code		Weight (Kg)	Windage (m^2)
DFS150	150W SON-T	9.5	0.13
DFS250	250W SON-T	10.5	0.13
DFS400	400W SON-T	11.5	0.13
DFM150	150W HQI-T	9.5	0.13
DFM250	250W HQI-T	10.5	0.13
DFM400	400W HQI-T	11.5	0.13
DFF250	250W MBF	10.5	0.13
DFF400	400W MBF	11.5	0.13
DFS150PD	150W SON	Polycarbonate Lens	
DFS250PD	250W SON	Polycarbonate Lens	
DFS400PD	400W SON	Polycarbonate Lens	
DFM250PD	250W HQI	Polycarbonate Lens	
DFM400PD	400W HQI	Polycarbonate Lens	
DFF250PD	250W MBF	Polycarbonate Lens	
DFF400PD	400W MBF	Polycarbonate Lens	

Options add suffix to product code

DFGR	Wire Guard
WCDF2	Wire Cage 550 x 550 x 550mm
PC	Photocell
RGB	Remote Gearbox
DCC01	Double Pole Cut out Single Fuse
DCC02	Double Pole Cut out Double Fuse
DCCF6	6 amp Fuse for Cut out
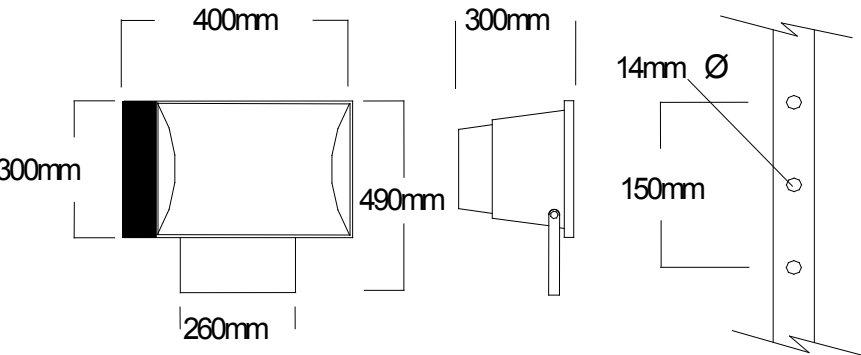
Product Code		Weight (Kg)	Windage (m^2)
DFS1000	1KW SON	11.8*	0.23
DFM1000	1KW HQI	11.7*	0.23
DFM2000/240	2KW HQI	16.0*	0.23
DFM2000/415	2KW HQI	16.0*	0.23
DFS1000P/240	1KW SON	12.4*	0.33
DFM1000P/240	1KW HQI	12.4*	0.33
DFM2000P/240	2KW HQI	16.0*	0.33
DFM2000/P415	2KW HQI	16.0*	0.33

* Head only
1 Kw IP65 Gear Box   14.1
2 Kw IP65 Gear Box   24.3

DFS1000

Constructed from a diecast aluminium body, with a hinged front cover fitted with toughened glass. Supplied with painted bracket and lamp and 230-240V 50Hz control gear.

400mm
300mm
14mm Ø
300mm
490mm
150mm
260mm

DFM2000P

DFM2000

A timed ignitor is now fitted as standard to all SON and HQI fittings

A timed ignitor is now fitted as standard to all SON and HQI fittings

FLOODLIGHTING

FLOODLIGHTING

Lamps fitted

Lamps fitted

Preslite®   Preslite®

Standard Polycarbonate Range

DFS70i PD   70W SONi
DFS70T PD   70W SON-T

DFF80PD   80W MBF

The DFQ55PD uses Philips
DFQ55PD   55W QL   QL induction lamp technology
giving 60,000 hours lamp life.

Options add suffix to product code

PC   Photocell
WH   White Body
WCDF1   Wire Cage

A small economically priced flood constructed from a polycarbonate body, with a clear polycarbonate front cover. Supplied with galvanised bracket and lamp and 230-240V 50Hz control gear
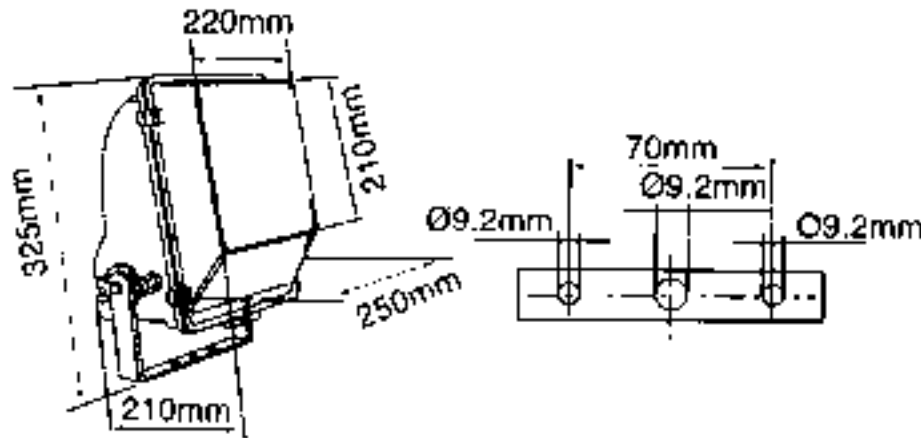
A timed ignitor is now fitted as standard to all SON and HQI fittings except those fitted with SON-I lamps

Product Code				Weight (Kg)
DFN35	35W	HQI	G12	4.1
DFN70	70W	HQI	G12	4.1
DFN150	150W	HQI	G12	4.6
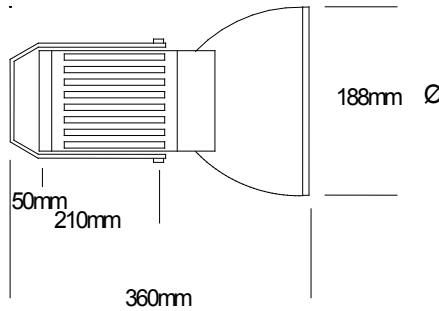
DFNO70	70W	HQI	G12	5.3
DFNO150	150W	HQI	G12	5.8
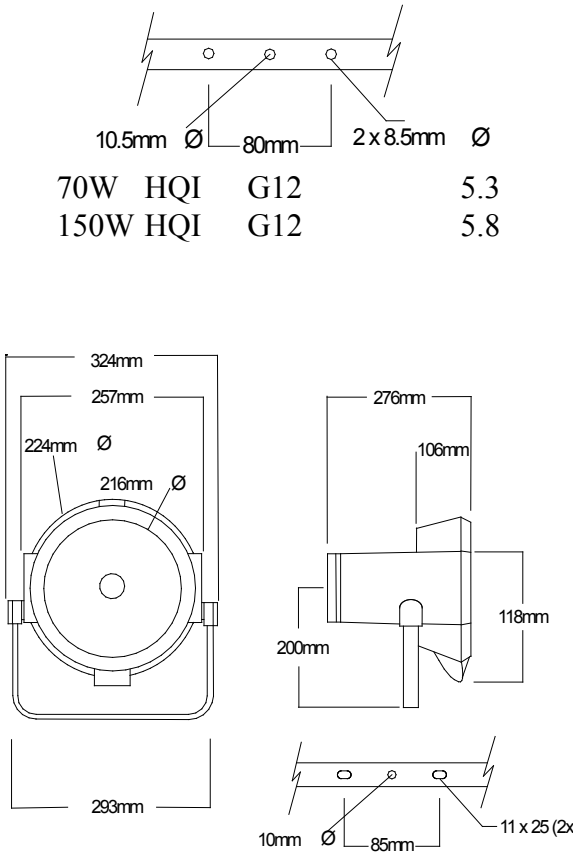
DFN

DFNO

A range of small projector floods for both external and internal use. Constructed from a cast aluminium body, with a hardened glass lens. Supplied with bracket and lamp and 230-240V 50Hz control gear

A timed ignitor is now fitted as standard to all SON and HQI fittings

Preslite®   Preslite®

ROOT MOUNTED COLUMNS
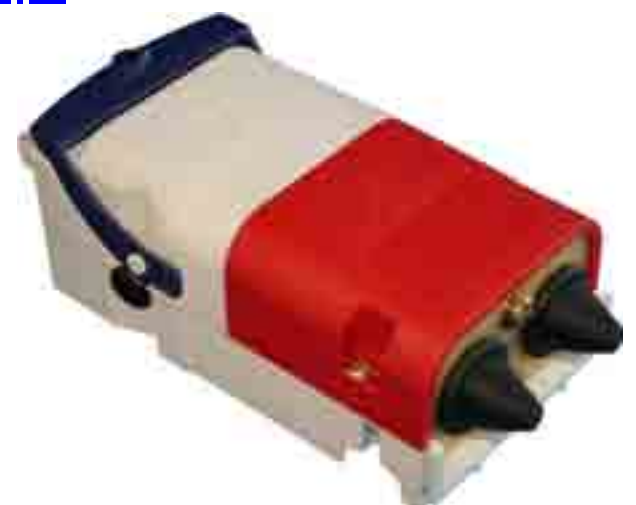
Street Lighting Cut outs are available from stock suitable for use with the columns, they accept fuse links to BS88 Part 1, AC16 Tag Type up to 25 amp.

Maximum cable of 16mm^2 stranded copper or 25mm^2 solid aluminium

Product Code

DCC01   Double Pole Cut out Single Fuse
DCC02   Double Pole Cut out Double Fuse
DCCF6   6 amp Fuse for Cut out
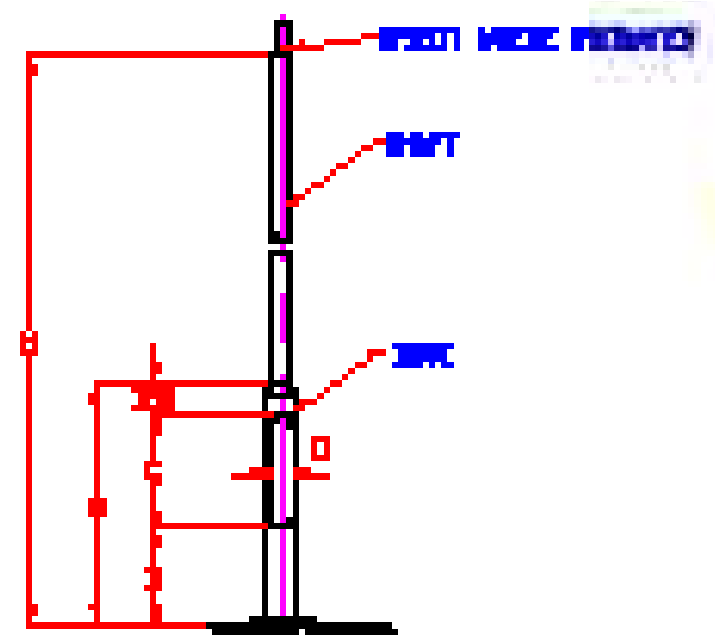
FLANGED COLUMNS
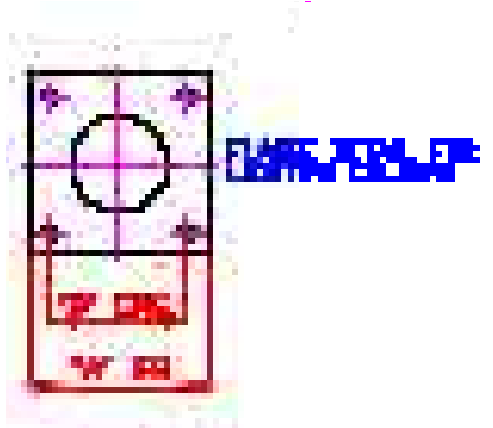
Typical Flange Details		
Column Height M	"A" Square Dimention	"B" Bolt Sq CRS
5 & 6 M	280	200
8, 10 & 6 M	400	400
15 M	500	500

Saturn Lighting offer a range of columns from 4M to 15M. All columns meet the requirements of EN40 and are hot dip galvanised to BSEN1461. Root mounted and Flange mounted are offered as standard, however Mid-hinged and Base-hinged columns are available by request. Saturn offer a range of brackets and spigots from stock. (See page 50 for Details).

FLOODLIGHTING

Column Height H	Column Part No	Planting Depth P	Overall Length L	Base Height A	Door to Ground B	Aperture Depth C	Aperture Width C	Base Diameter	Shaft Diameter	Mass Kgs	Spigot Detail
4M	SC4RL	800	4800	1075	425	500	100	140	76	42	N/A
5M	SC5RL	800	5800	1075	425	500	100	140	76	47	76 x 200
5M	SC5RH	800	5800	1075	425	500	100	168	89	57	N/A
6M	SC6RL	1000	7000	1075	425	500	100	140	76	50	N/A
6M	SC6RH	1000	7000	1075	425	500	100	168	89	60	76 x 200
8M	SC8RL	1200	9200	1250	500	600	115	168	89	84	76 x 200
8M	SC8RH	1200	9200	1250	500	600	115	168	114	96	101 x 250
10M	SC10RL	1500	11500	1250	500	600	115	168	114	142	101 x 250
10M	SC10RH	1500	11500	1250	500	600	115	194	148	170	127 x 300
12M	SC12RL	1700	13700	1250	500	600	115	194	148	215	127 x 300
12M	SC12RH	1700	13700	1250	500	600	115	219	168	253	152 x 300
15M	SC15RL	2000	17000	2500	1200	600	115	219	168	422	152 x 300
15M	SC15RH	2000	17000	2500	1200	600	115	219	194	466	177 x 300

Column Height H	Column Part No	Base Height A	Door to Ground B	Aperture Depth C	Aperture Width C	Base Diameter	Shaft Diameter	Mass Kgs	Spigot Detail
4M	SC4FL	1075	425	500	100	140	76	42	N/A
5M	SC5FL	1075	425	500	100	140	76	47	76 x 200
5M	SC5FH	1075	425	500	100	168	89	57	N/A
6M	SC6FL	1075	425	500	100	140	76	50	N/A
6M	SC6FH	1075	425	500	100	168	89	60	76 x 200
8M	SC8FL	1250	500	600	115	168	89	84	76 x 200
8M	SC8FH	1250	500	600	115	168	114	96	101 x 250
10M	SC10FL	1250	500	600	115	168	114	142	101 x 250
10M	SC10FH	1250	500	600	115	194	148	170	127 x 300
12M	SC12FL	1250	500	600	115	194	148	215	127 x 300
12M	SC12FH	1250	500	600	115	219	168	253	152 x 300
15M	SC15FL	2500	1200	600	115	219	168	422	152 x 300
15M	SC15FH	2500	1200	600	115	219	194	466	177 x 300

FLOODLIGHTING

BK1

BK2

Product Code

Light duty
BK1   Wall Bracket   70W discharge & T/Halogen
BK2   Corner Bracket   70W discharge & T/Halogen
BK3   Extension Arm   70W discharge & T/Halogen
(not illustrated)

Heavy duty
BK4   77mm Post Top Spigot
BK6   Wall Bracket c/w pole top spigot
BK7   Corner Bracket c/w pole top spigot
BK8   63mm Post Top Spigot
BK10   Twin Arm Floodlight Bracket 76mm Spigot
BK11   Twin Arm Floodlight Bracket 63mm Spigot
**BK12**   Angled Wall Bracket for DAL fitting
BKU64   64mm U Bolt
BKU76   76mm U Bolt

BK8

BK6

BK4

BK7

BK12

BKU76

BK10

Product Code
WCDF1 Wire Cage small floods   380mm x 380mm x 380mm Black
WCDF2 Wire Cage large floods   550mm x 550mm x 550mm Black
WCDA Wire Cage amenity fittings 380mm x 380mm x 230mm Black
WCPL Wire Cage 2D bulkheads   330mm x 330mm x 125mm White
WCZE Wire Cage 8 watt bulkhead 440mm x 200mm x 125mm White

WCDF1

WCDA

WCZE

DFPGR   Wire Guard for large Superior floods

DFPGR/S Wire Guard for small Superior floods

DFCGR   Wire Guard for large Economy floods

DFGR   Wire Guard for large Contractor floods

DFAGR   Wire Guard for large Superior Slimline floods

DFPGR

WCPL

Preslite®   Preslite®
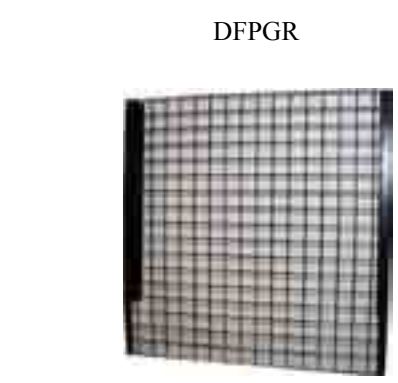
Product Code

TH500	300W/500W	Tungsten halogen floodlight
TH1000	750/1000W	Tungsten halogen floodlight
TH1500	1500W	Tungsten halogen floodlight

All TH fittings suitable for 240V and 110V lamps (not included)

TH500

185mm   135mm

280mm

TH1000

275mm   150mm

305mm

TH15000

340mm   215mm

410mm
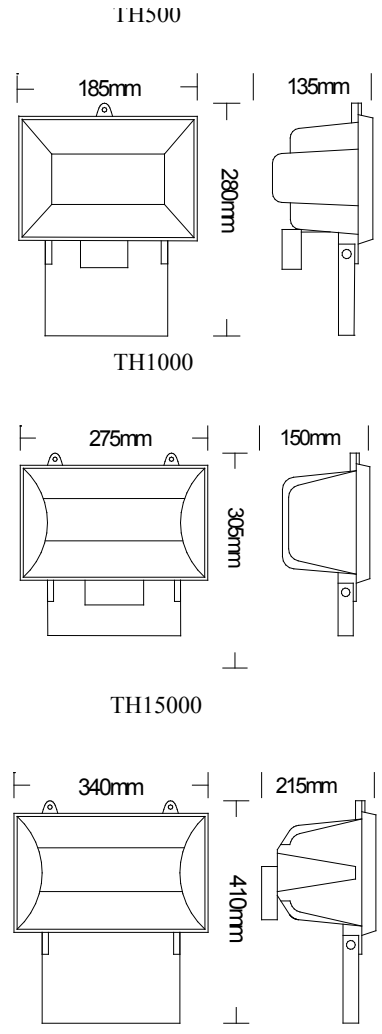
A range of small Tungsten Halogen floods for external use. Constructed from a cast aluminium body, with a hardened glass lens. Supplied with bracket.
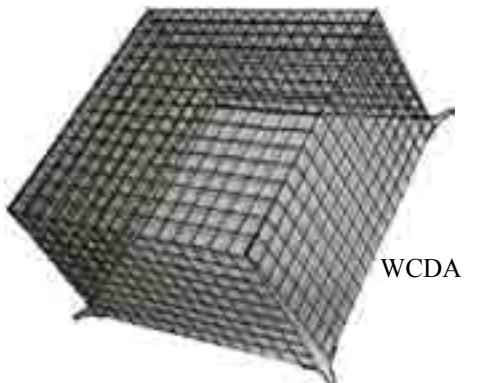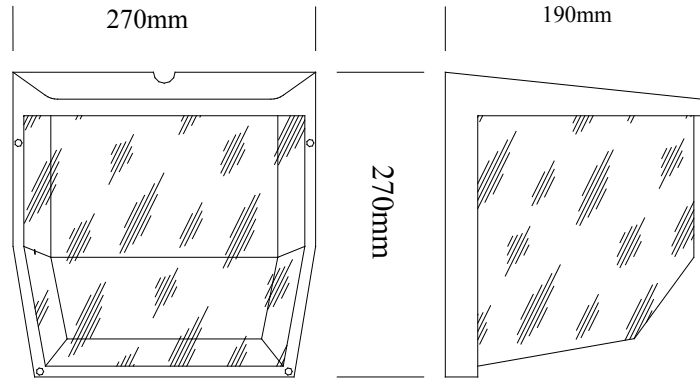
Lamps not fitted

Product Code

DA70S/C	70W SONi	E27
DA70M/C	70W HQI	E27
DA80F/C	80W MBFU	E27
DA125F/C	125W MBFU	E27
DA26PL/C	26W PL-C	
DA42PL/C	42W PL-T	
LDA21	21 watt LED	
WCDA	Wire Cage	380mm x 380mm x 230mm

Options add suffix to product code

PC   Photocell
EM   3Hr Maintained Emergency (26W and 42W only)

270mm   190mm

270mm

WCDA

Constructed from polycarbonate body, with a clear polycarbonate lens. There are multiple entry points to allow easy cable entry.
Supplied with lamp and 230-240V 50Hz control gear

A timed ignitor is now fitted as standard to all SON and HQI fittings except those fitted with SON-I lamps

Lamps fitted

FLOODLIGHTING

FLOODLIGHTING

Preslite®

Preslite®

Constructed from a diecast aluminium body with a toughened glass front cover. Supplied with galvanised bracket and lamp and 230-240V 50Hz control gear

WCDA

Product Code		Diagram ref.
DA150S	150W SON-T E40	1
DA250S	250W SON-T E40	1
DA400S	400W SON-T E40	2
DA150M	150W HQI E40	1
DA250M	250W HQI E40	1
DA400M	400W HQI E40	2
WCDA	Wire Cage	380mm x 380mm x 230mm

Options add suffix to product code

PC　　　　　Photocell

① 365mm　190mm　235mm

② 460mm　235mm　240mm
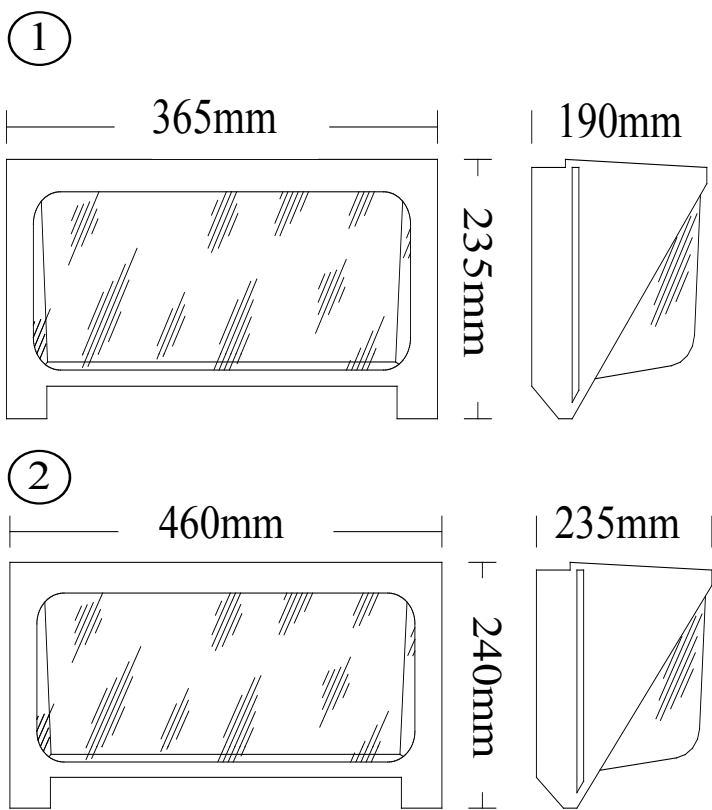
All round amenity fitting

DAR70S	70W SON E27
DAR150S	150W SON E40
DAR70M	70W HQI E27
DAR150M	150W HQI E27
DAR80F	80W MBFU E27
DAR125F	125W MBFU E27

Options add suffix to product code

PC　　　　　Integral photocell

307mm　307mm　240mm
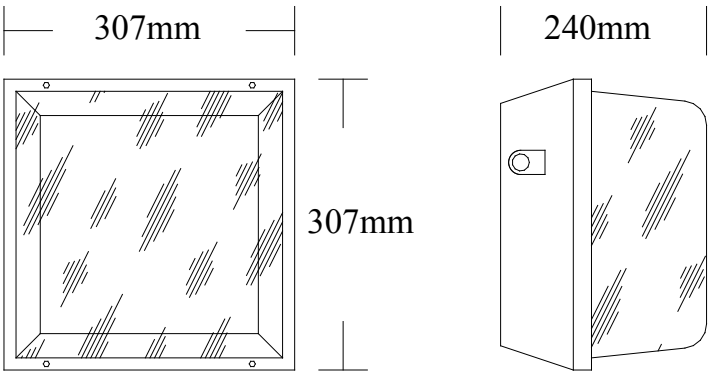
Up/Down External Amenity fitting

DAU150M	150W HQI R7s
LDAU21	21W LED

370 mm　60 mm　120 mm

170 mm　175 mm

115 mm

55 mm

310 mm

Top View

Side View
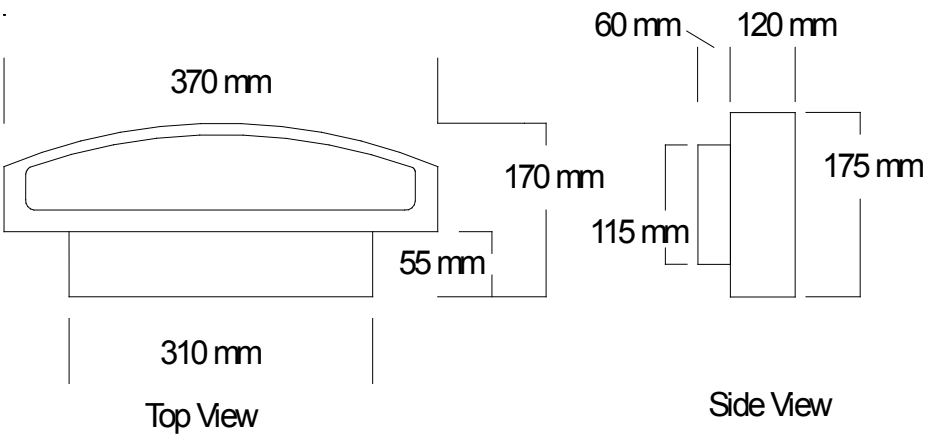
Constructed from a diecast aluminium body, with a polycarbonate diffuser attached to the body by screw fixings. Supplied with lamp and 230-240V 50Hz control gear. Sealed to IP54.

A timed ignitor is now fitted as standard to all SON and HQI fittings

A timed ignitor is now fitted as standard to all SON and HQI fittings

Lamps fitted

Lamps fitted

Preslite®

Preslite®

Walkover Fittings

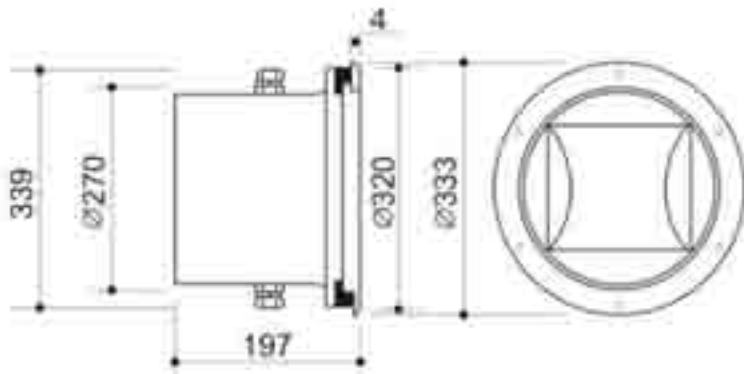|			
WOL70S	70W SON R7s	Symmetric	IP65
WOL70M	70W HQI R7s	Symmetric	IP65
WOL150S	150W SON R7s	Symmetric	IP65
WOL150M	150W HQI R7s	Symmetric	IP65
LDWO21	21W LED	Symmetric	IP65

WOAL70S	70W SON R7s	Asymmetric	IP65
WOAL70M	70W HQI R7s	Asymmetric	IP65
WOAL150S	150W SON R7s	Asymmetric	IP65
WOAL150M	150W HQI R7s	Asymmetric	IP65

Bollards

BD1100HD	E27 L/holder	1.1M High
BD1100HD/S	70W SON E27	1.1M High
BD1100HD/M	70W HQI E27	1.1M High
BD1100HD/F	80W MBFU E27	1.1M High
BD1100HD/18	18W PL-C	1.1M High
BD1100HD/26	26W PL-C	1.1M High
BDROOT	Root Mounting for above	

The HD type bollard is constructed from an extruded aluminium body, with a clear polycarbonate diffuser and aluminium louvre. This bollard can be surface mounted or root mounted using the optional root mounting kit. Supplied with lamp and 230-240V 50Hz control gear.
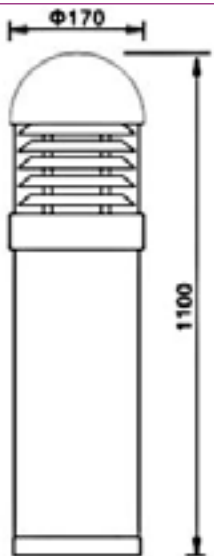
BD1100FT	E27 L/holder	1.1M High
BD1100FT/S	70W SON E27	1.1M High
BD1100FT/M	70W HQI E27	1.1M High
BD1100FT/F	80W MBFU E27	1.1M High
BD1100FT/18	18W PL-C	1.1M High
BD1100FT/26	26W PL-C	1.1M High

The FT type bollard is constructed from an extruded aluminium body, with a clear polycarbonate diffuser and aluminium louvre. This bollard is for surface mounting only. Supplied with lamp and 230-240V 50Hz control gear.

A timed ignitor is now fitted as standard to all SON and HQI fittings

A timed ignitor is now fitted as standard to all SON and HQI fittings

FLOODLIGHTING

FLOODLIGHTING

Lamps fitted

Lamps fitted

Lighting Design Service

Lighting Design Service

Preslite ®

Preslite ®

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Product Code

LB150S	150W SON-T
LB250S	250W SON-T
LB400S	400W SON-T
LB150M	150W HQI-T
LB250M	250W HQI-T
LB400M	400W HQI-T
LB250F	250W MBFU
LB400F	400W MBFU

Options add suffix to product code

LPD	Dished Polycarbonate lens
R	High Racking version
AUX	Auxilliary Lamp - 150W T/Halogen
LWG	Wire Guard
FTB	Fused Terminal Block
LSG	Glass Cover (standard on HQI)
LSK	Low Bay spine Kit
LLB	Low Bay Louvre/Baffle
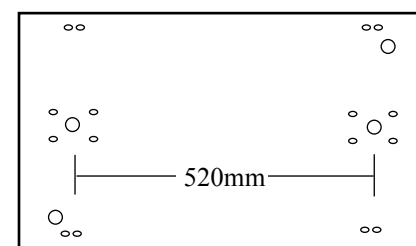
LLB

LWG

520mm

Fixings

593mm

282mm

158mm

INDUSTRIAL

Lamps fitted

60
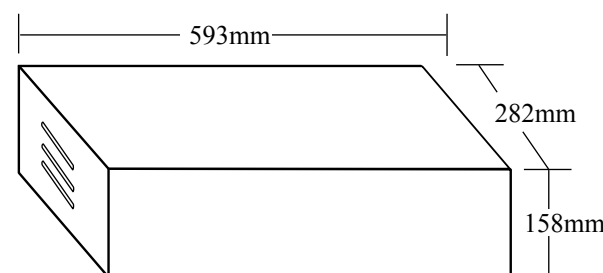
Product Code

LBG400S	400W SON
LBG600S	600W SON
LBG1000S	1000W SON
LBG250M	250W HQI
LBG400M	400W HQI

Options

SON-T Plus Lamp
Extralux Agricultural Lamp
Plantmax High Output Agricultural Lamp
(See page 91 for details)
IP65 Gear Box

Supplied as standard with SON-T lamp and IP44 Gear Box

Flo-bay® Propagation Fitting

	Length	Width	Height	Weight	
	(mm)	(mm)	(mm)	(kg)	
LFW255*	2 x 55W PLL	595	330	118	4.0
LFW355*	3 x 55W PLL	595	330	118	4.0
LFW455*	4x 55W PLL	595	330	118	4.5
LFW655*	6 x55W PLL	1170	330	118	8.5
LFW855*	8 x 55W PLL	1170	330	118	9.0

LFPD	Clear polycarbonate diffuser
LFPRD	Prismatic diffuser
LFSPW	Split wired circuits

*Supplied as standard with 2.5 meters of cable and 13 amp plug fitted.

Ideal for use in Hydroponic Installations for the propagation of cuttings and seedlings and cultivation of crops needing lower heat outputs from the lighting source.

INDUSTRIAL

Lamps fitted

61

Product Code		Weight (Kg)
LBW250S	250W SON IP65	12.3
LBW400S	400W SON IP65	13.5
LBW250M	250W HQI IP65	11.4
LBW400M	400W HQI IP65	12.6
LBW250F	250W MBF IP65	11.4
LBW400F	400W MBF IP65	12.6

Options

AUX   Auxilliary Lamp - 150W T/Halogen

The one piece toughened glass cover is held in place by four screws, which compress the rubber gasket to seal the fitting to IP65.
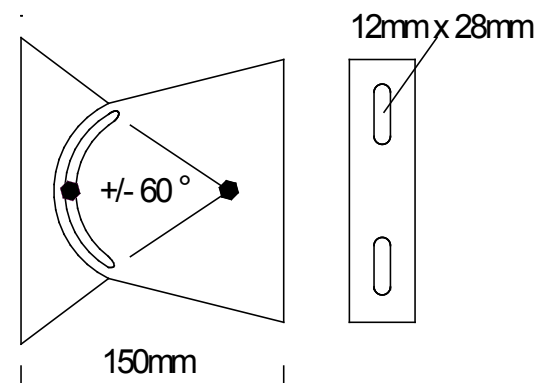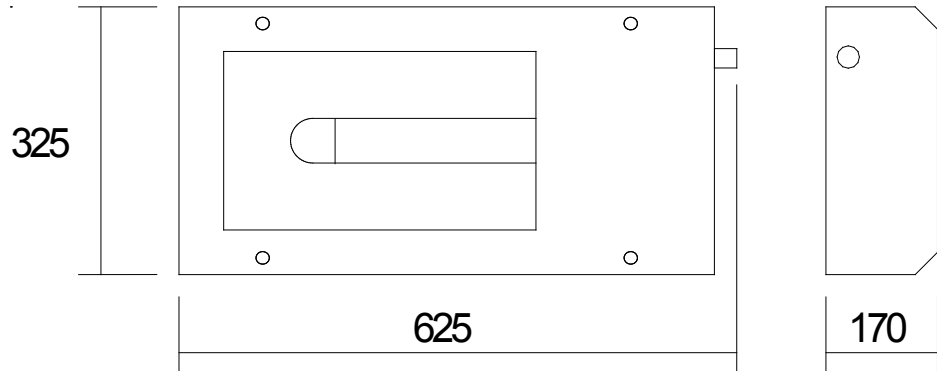
The rear of the IP65 Lowbay showing the adjustable galvanised brackets used to secure the fitting to its mounting point. The brackets can be ajusted 60 ^{o} either side of vertical

A timed ignitor is now fitted as standard to all SON and HQI fittings

325

625   170

12mm x 28mm

+/- 60 °

150mm

	Length	Width	Height	Weight	
	(mm)	(mm)	(mm)	(kg)	
LF355	3 x 55W PLL	595	330	118	4.0
LF455	4 x 55W PLL	595	330	118	4.5
LF655	6 x 55W PLL	1170	330	118	8.5
LF855	8 x 55W PLL	1170	330	118	9.0
LF355EM	3 x 55W PLL	595	330	118	5.0
LF455EM	4 x 55W PLL	595	330	118	5.5
LF655EM	6 x 55W PLL	1170	330	118	9.5
LF855EM	8 x 55W PLL`	1170	330	118	10.0

LFPD   Clear polycarbonate diffuser
LFPRD   Prismatic diffuser
LFWG   Wire Guard for 2,3 and 4 tube versions
LFWGL   Wire Guard for 6 and 8 tube versions
LFSPW   Split wired circuits
DIM   0 - 10v Dimmable
DIG   Digitally Dimmable
ST   Self Test for Emergency Fittings

N.B. The 4 x 55W Flo-bay has the equivalent lumen output of a 250W HQI Lowbay but only uses 220 circuit watts of energy.

The Flo-bay is an energy efficient fitting which may be controlled by a PIR sensor, thus allowing areas of low usage to reduce the lighting to minimum levels until needed.

Preslite®   Preslite®

The Powerlux is a highly energy efficient fitting with a Light Output Ratio of over 92%. The body is manufacured from folded and welded sheet steel, powder coated white. The reflectors are made from Miro 4 aluminium. It is an ideal replacement for Highbays and Lowbays in Warehousing, Retail Units, Sports Halls and Factories. Additional enegy savings can be achieved by incorporation of movement sensors and lux level controls into this fitting.

	Length	Width	Height	
	(mm)	(mm)	(mm)	
LFN428	4 x 28W T5	1225	295	125
LFN454	4 x 54W T5	1225	295	125
LFN435	4 x 35W T5	1525	295	125
LFN449	4 x 49W T5	1525	295	125
LFN480	4 x 80W T5	1525	295	125
LFN628	6 x 28W T5	1225	430	125
LFN654	6 x 54W T5	1225	430	125

Options add suffix to product code

LFNDIFF654	Clear polycarbonate diffuser for 6 tube 1225mm fitting
LFNDIFF454	Clear polycarbonate diffuser for 4 tube 1225mm fitting
LFNDIFF435	Clear polycarbonate diffuser for 4 tube 1525mm fitting
LFNWG654	Wire Guard for 6 tube 1225mm fitting
LFNWG454	Wire Guard for 4 tube 1225mm fitting
LFNWG435	Wire Guard for 4 tube 1525mm fitting
LFSPW	Split wired circuits
DIM	0 - 10v Dimmable
DIG	Digitally Dimmable
ST	Self Test for Emergency Fittings

	Length	Width	Height	
	(mm)	(mm)	(mm)	
LFN428E	4 x 28W T5	1195	295	100
LFN454E	4 x 54W T5	1195	295	100
LFN435E	4 x 35W T5	1495	295	100
LFN449E	4 x 49W T5	1495	295	100
LFN480E	4 x 80W T5	1495	295	100
LFN628E	6 x 28W T5	1195	435	100
LFN654E	6 x 54W T5	1195	435	100

No Options available for the Economy Version

The Economy Powerlux keeps the energy efficiency of the Powerlux fitting using the design of reflectors. However, in order to keep the costs of this fitting to a minimum it can not be fitted with all the options of the Powerlux.

Lamps fitted

Lighting Design Service

Lamps fitted

Preslite® **P**reslite®

Product Code

HB150S	150W SON-E
HB250S	250W SON-E
HB400S	400W SON-E
HB250M	250W HQI-E
HB400M	400W HQI-E
HB250F	250W MBF
HB400F	400W MBF

Options add suffix to product code

HSG	Safety Glass
HPD	Dished Polycarbonate Diffuser/Lens
HWG	Wire Guard
AUX	Auxilliary Lamp - 150W T/Halogen

HWG
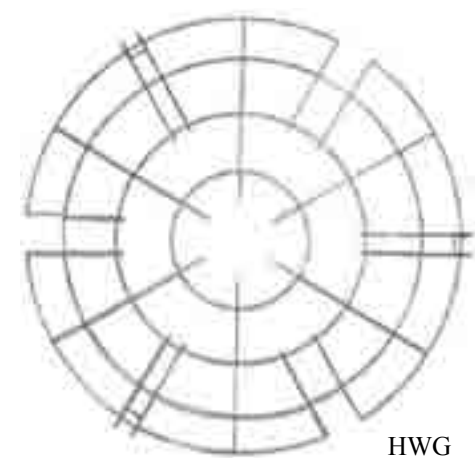
The gear box is constructed from white painted pressed steel. The reflector is spun aluminium. Supplied with lamp and 230-240V 50Hz control gear

195mm

240mm

300mm

Ø 480mm

INDUSTRIAL

Lamps fitted
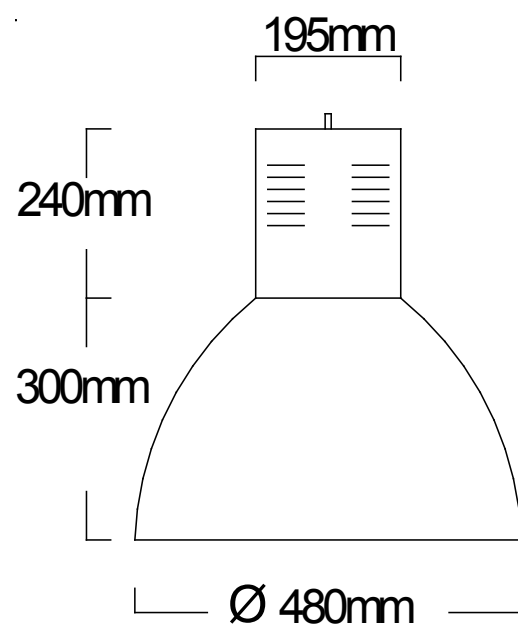
Product Code

HBRB250S	250W SON-E
HBRB400S	400W SON-E
HBRB250M	250W HQI-E
HBRB400M	400W HQI-E
HBRB250F	250W MBF
HBRB400F	400W MBF
HBRB200F	200W PL

195mm

240mm

280mm

25mm

410mm
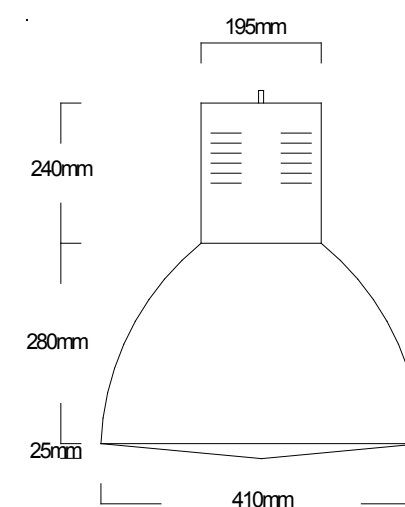
The gear box is constructed from white painted pressed steel. The refractor is made from moulded acrylic.
Supplied with lamp and 230-240V 50Hz control gear

Product Code

HBRB35M	35W	HQI G12
HBRB70M	70W	HQI G12
HBRB150M	150W	HQI G12
HBRB26	26W	PL-C
HBRB32	32W	PL-T
HBRB42	42W	PL-T

The gear box is constructed from white painted cast aluminium. The refractor is made from moulded acrylic.
1M Suspension Kit and Flex fitted.
Supplied with lamp and 230-240V 50Hz control gear

225

445

315

INDUSTRIAL

Lamps fitted
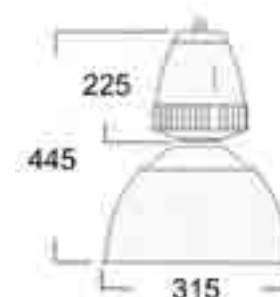
Product Code

| HBG70M | 70W HQI-EE27 |
| HBG150M | 150W HQI-E | E27 |

HBG42F   42W PL-C

Options add suffix to product code

AUX   Auxilliary Lamp - 150W T/Halogen

Supplied as standard with a White diffuser, however it is available in Red, Blue and Yellow.
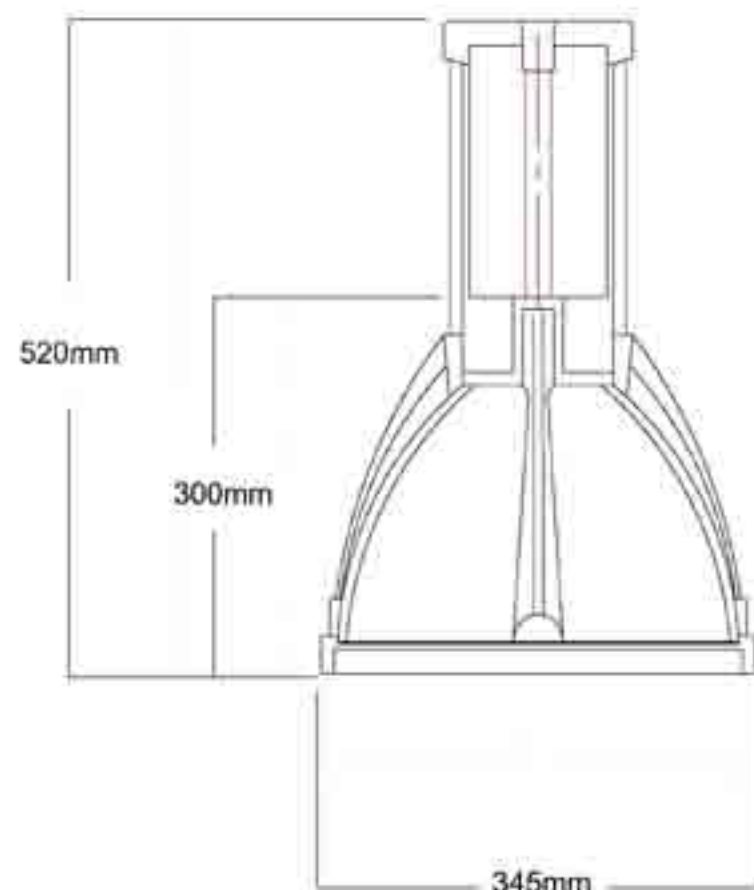
The gear box is constructed from cast aluminium. The glass diffuser can be supplied in various colours with the drop glass base. It comes complete with ceiling mounting plate, wire suspentions and cable. Supplied with lamp and 230-240V 50Hz control gear

520mm
300mm
345mm

Product Code

| HBW250S | 250W SON |
| HBW400S | 400W SON |

| HBW250M | 250W HQI |
| HBW400M | 400W HQI |

| HBW250F | 250W MBF |
| HBW400F | 400W MBF |

Options add suffix to product code

HPD   Polycarbonate Diffuser
AUX   Auxilliary Lamp - 150W T/Halogen

270mm
270mm
290mm
Ø 500mm
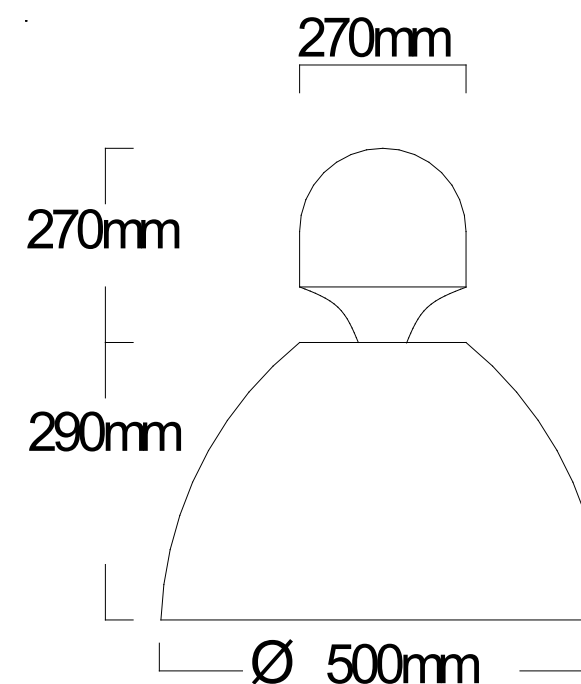
Note

Polycarbonate lenses discolour when used in conjunction with Metal Halide (HQI) lamps. The UV emissions which cause the discoloration are partially screened by the toughened glass internal lense (250/400W only) providing longer lens life.
Discoloration of the polycarbonate lens does not constitute a fault.
Replacement polycarbonate lenses are available. Order code **HPD**.

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EMERGENCY LIGHTING &
FIRE ALARMS

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Product Code	Length	Width	Height
ZE1008NM 8W 3 hour (Non-maintained)	345	108	80
ZE1018M 8W 3 hour (Maintained)	345	108	80
ZE2L Adhesive legend kit			

Options add suffix to product code

ST Self Test

Product Code	Length	Width	Height
ZE108NM/110 8W 3 hour (Non-maintained)	365	130	80
ZE118M/110 8W 3 hour (Maintained)	365	130	80
ZE2L Adhesive legend kit			

Options add suffix to product code

ST Self Test

An attractively designed IP65 emergency bulkhead manufactured in polycarbonate and ABS. This fitting features a hinged geat tray.

A110v emergency bulkhead manufactured in polycarbonate and ABS. This fitting features a hinged geat tray and clip-on cover for ease of installation and maintenance.

Slave

Product Code

ZE28 IP65 Bulkhead
ZE38 Exit Box
ZE54 Crystal
ZE88 Recessed

Options add suffix to product code

24 24 volt
50 50 volt
110 110 volt

A range of slave luminaires available in 24V, 50V and 110V. For use with central battery systems.

Lamps fitted

EMERGENCY

Prescape™

A superbly designed low profile exit sign manufactured in polycarbonate. Designed for ease of installation.

Product Code		Length	Width	Depth
ZEP308NM	8W non-maintained	380	185	72
ZEP318M	8W maintained	280	185	72
ZEP328S	8W sustained	280	185	72

Options add suffix to product code

ST	Self Test

Product Code		Length	Width	Depth
ZE348NM	8W non-maintained	350	105	175
ZE358M	8W maintained	350	105	175
ZE38J	Slave	250	105	175

Options add suffix to product code

ST	Self Test

Slave Option add suffix to product code for required voltage

24	24V
50	50V
110	110V

A Polycarbonate IP65 double sided ceiling mounted exit sign with a viewing distance of 32 metres. This tough exit sign is ideally suited for public walkways, enclosed car parks, etc. and is supplied with legend.

A full specification range of emergency exit boxes. Manufactured in sheet steel complete with polycarbonate screened legend and polycarbonate downlight panel. Supplied as standard in a white paint finish, the extremely slim exit sign is also available in brass or chrome finish.

Product Code		Length	Width	Depth
ZE318M	8W maintained	395	192	60

Options add suffix to product code

B	Brass
C	Chrome
ST	Self Test

Lamps fitted

Lamps fitted

P™ Prescape   P™ Prescape

Product Code	Lamp	Diameter (mm)
Maintained 3 Hour Emergency		
PLE16HF/EM	16W 2D	235
PLE28HF/EM	28W 2D	280
PLEOP316HF/EM	16W 2D	325
PLEOP416HF/EM	16W 2D	425
PLEOP428HF/EM	28W 2D	425
PLEOP438HF/EM	38W 2D	425
PLEOP528HF/EM	28W 2D	525
PLEOP538HF/EM	38W 2D	525

Product Code		380 x 330 x 55mm
IP40		
ZT220	2 x 20W non-maintained 3 hour	
ZT250	2 x 50W non-maintained 1 hour	

Standard (Steel body)

This comprehensive range of twinspot emergency luminaires offers some of the best value emergency lighting available. Supplied in a standard stove enamelled steel body, this range is one of the neatest available. Supplied with high power halogen lamps.

Product Code	Lamp	Diameter (mm)
LED Combined 3 Hour Emergency		
PLE28HF/EML	28W 2D	280
ZESM61S/16	16W 2D	235
ZESM61S/28	28W 2D	280
ZESM61S/38	38W 2D	280
ZESM65S/16	16W 2D	325
ZESM65S/28	28W 2D	425
ZESM65S/38	38W 2D	425

Tri Spot

Product Code		380 x 360 x 110mm
IP65		
ZT320	3 x 20W non-maintained 3 hour	

A brand new projector emergency light. IP65 as standard, this luminaire is a unique new design. Allowing individual adjustment of the 3 projector heads and is one of the neatest emergency projectors available. Ideal for the food industry

Close up of the interior to show the individual adjustment of the projector heads.

EMERGENCY

EMERGENCY

Lamps fitted

Lamps fitted

Prescape™

Prescape™

Product Code

ZE818M   8W maintained 3 hour

Dimensions
393 x 165 x 10mm
Void depth required = 80mm

Cut out = 365 x 135mm

Options add suffix to product code

C   Chrome
ST   Self Test

Features

Lamp – 8W T5 Fluorescent (supplied)
Battery – 2.4V 4AH Ni-CD
Emergency duration – 3 hours

A fully recessed emergency luminaire with a white or chrome frame and a prismatic diffuser. Ideal for use in suspended ceilings.

Product Code   155 x 97 x 51mm

ZES10NM   Non-maintained LED
ZES11M   Maintained LED

The LED luminaire is the smallest emergency bulkhead currently available. This fitting is so unobtrusive it will not look out of place in any installation.

Product Code   200 mm Dia x 95mm

ZES50NM   Non-maintained LED

The traditional crystal fitting brought up to date by the use of a high output LED lamp source.

EMERGENCY

EMERGENCY

Lamps
fitted

P™ rescape   P™ rescape

Product Code		Length	Width	Depth
ZES100	Maintained LED/	345	108	72
Non Maintained LED				

Battery	3.6V (3 cell) 2.8Ah High Temperature Ni-Cd
Battery Temp	55 Deg C intermittent max 50 Deg C continuous max
Recharge Time	24 Hours
Duration	3 hour

Product Code		Length	Width	Depth
ZES38	Maintained LED/	395	192	60
Non Maintained LED				

Battery	3.6V (3 cell) 900mAh High Temperature Ni-Cd
Battery Temp	55 Deg C intermittent max 50 Deg C continuous max
Recharge Time	24 Hours
Duration	3 hour

Product Code		368 x 188 x 24mm
ZES31M	Maintained LED	

Options add suffix to product code

C	Chrome
W	White

The Starsign is the ideal blade luminaire where appearance is of importance.

Product Code

ZES91M   8W Maintained 3 hour

Dimensions

335 x 115 x 5mm (ex. legend)
Void depth required = 60mm

Cut out = 365 x 93mm

This modern edge-lit blade fitting has a completely recessed body and is ideal for use where a prestigious appearance is required.

Prescape™   Prescape™

Low Voltage Conversions

An emergency conversion pack for almost every low voltage dichroic application

Product Code

ZE901   20-50W non-maintained 1-3 hour
ZE911   20-50W maintained 1-3 hour

     Battery   6V 4AH Ni-CD
     Rating   50VA
     Duration   20W – 3 hour
                    50W – 1 hour
     To Suit 50mm Dia Cutout

LED Conversions

An emergency conversion pack for use with any MR16 LED lamps

Product Code

ZES612M   Maintained 3 hour

     Battery   12V (10 cell) 2300Ah High
                          Temperature Ni-Cd
     Battery Temp   55 Deg C intermittent max
                          50 Deg C continuous max
     Charge Current   120 mA
     Recharge Time   24 Hours
     Duration   3 hour (minimum)
     To Suit 50mm Dia Cutout

LED Conversions

The Retro Star is a complete replacement for existing 8 watt bulkhead gear trays. It can ' repair ' an 8 watt bulkhead in 2 minutes.

Product Code

ZES8000

Specification	
Light Source	High output White LED
Construction	Polycarbonate tray
Battery	4.8 Volt 900mA Nicad
Charge Current	50mA Nominal
Input Voltage	230 Volt AC +10% -6% 50 Hz
Size	305mm x 60mm x 18mm

LED Conversions

A complete 2D HF mains plus 2 x 1 watt LED emergency gear tray, which will retrofit into all the most popular 2D bulkheads

Product Code

ZESL16HF   16W 2D + 2 x 1W LED
ZESL28HF   28W 2D + 2 x 1W LED
ZESL38HF   38W 2D + 2 x 1W LED

Specification

240v Circuit
Ballast   Philips(or equal) HF Ballast
Available in 16w, 28w and 38w versions

Emergency Circuit
Lamps   2 x 1 watt White LED's
Lumen Output   160 lumens
Charge Current   130 mA
Battery   4.8 v 2.5 AH Nicad
Emergency Duration   3 hours

Dimensions   260mm Dia

Prescape™   **P**rescape™

LED Conversions

A complete 2D HF mains plus 2 x 1 watt LED emergency " Top Hat " gear tray, which will retrofit into virtually all 2D luminaires.

Product Code

ZESH16HF	16W 2D + 2 x 1W LED
ZESH28HF	28W 2D + 2 x 1W LED
ZESH38HF	38W 2D + 2 x 1W LED

Specification

240v Circuit
Ballast   Philips(or equal) HF Ballast
Available in 16w, 28w and 38w versions

Emergency Circuit
Lamps   2 x 1 watt White LED's
Lumen Output   160 lumens
Charge Current   130 mA
Battery   4.8 v 2.5 AH Nicad
Emergency Duration   3 hours

Dimensions   L175mm x W155mm x H35mm

LED Conversion Pack

A 2 x 1 watt LED emergency conversion pack, complete with battery stick, able to be fitted into almost any mains luminaire..

Product Code

ZESLP2	2 x 1W LED

Specification

Lamps   2 x 1 watt White LED's
Lumen Output   160 lumens
Charge Current   130 mA
Battery   4.8 v 2.5 AH Nicad
Emergency Duration   3 hours

Dimensions

Charger Module   L120mm x W28mm x H33mm
Battery   L104mm x W52mm x H23mm
LED's   28mm Dia

EMERGENCY

EMERGENCY

Prescape™   Prescape™

Fluorescent Conversion Service

Need to convert fluorescent fittings to emergency?

Saturn offers a luminaire conversion service in our custom designed centre and can convert most standard fluorescent fittings for emergency.

Where there is insufficient space within the luminaire a remote enclosure can be provided.

For further details please contact the Sales Office

Remote Convertion

We are now able to convert fluorescent fittings to LED emergency.

Instead of relying on the fluorecent tubes within the fitting, why not fit LED's to act as the emergency light source? The long lamp life of the LED will ensure light at the most vital times.

For further details please contact the Sales Office

Emergency Lighting Requirements

When luminaires have been sited to cover the locations below, additional luminaires may be required to ensure minimum lighting levels are acheived

Escape Routes Corridors etc

1 lux minimum on the centre line of the escape route
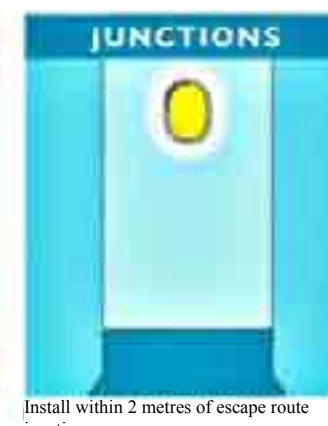
Open Areas

0.5 lux minimum in the central area to 0.5 m of the walls

Exit signs

Signs should meet with the European Signs Directive and be either back illuminated or have an emergency luminaire within 2 metres of horizontal height. Signs shoud be of the same format througout the building

FINAL EXIT
To provide illumination of escape routes

JUNCTIONS
Install within 2 metres of escape route junctions
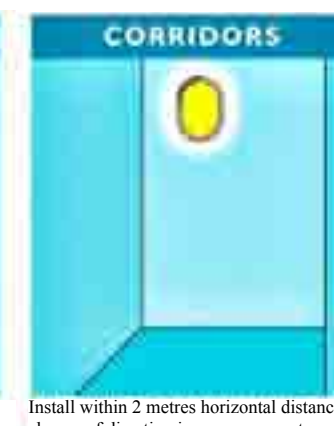
CORRIDORS
Install within 2 metres horizontal distance of a change of direction in an escape route
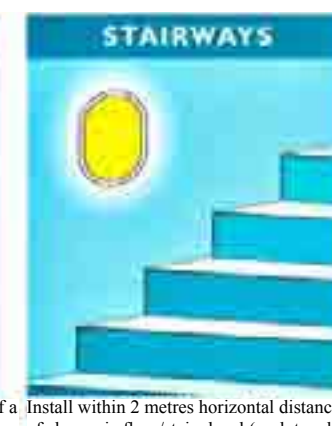
STAIRWAYS
Install within 2 metres horizontal distance of change in floor/stairs level (each tread to receive direct light)

FINAL EXITS
Install externally within 2 metres horizontal distance of any final exits Please note that sufficient light will be needed to muster a roll call

ALARM AREAS
Fire alarms, first aid points and fire fighting fighting equipment, install within 2 metres horizontal distance

ESCALATORS
Should not be used as an escape route, but requires the same illumination to protect users on it when supply fails

TOILETS
Install in all toilets exceeding 8m² area or where natural light is not present

LIFTS
To provide emergency illumination in all lifts

CONTROL ROOMS
Motor generator, control and plant rooms for essential and safety services

OPEN AREAS
Open rooms either with a particular hazard, an escape route passing through a larger than 60m² area

HAZARDOUS AREAS
Areas of high risk sould be illuminated to 10% of normal lighting or 15 lux, whichever is greater

Prescape™

Product Code

FP1	**1 Zone Microprocessor panel c/w Batteries**
FP2	**2 Zone Microprocessor panel c/w Batteries**
FP4	**4 Zone Microprocessor panel c/w Batteries**
FP6	**6 Zone Microprocessor panel c/w Batteries**
FP8	**8 Zone Microprocessor panel c/w Batteries**

Prestec™ SX Control Panel

The Prestec SX Control Panel range is housed in a light grey Flame Retardent UVLO enclosure designed to meet modern architectural surrounding with a removable hinged door. The Prestec SX has been designed with ease of installation in mind in addition to the robust electronic design.

- Complies fully with EN54 Part 2 and Part 4
- Microprocessor based
- Built in detector removal line integrity
  (no need for active E.O.L.)
- Space for up to 2 x 6.0AH batteries
- Battery short circuit protection
- Zone short circuit protection
- Fire change over relay output
- Fault change over relay output
- Class change
- Top, bottom and rear entry
- LCPB Approval

- Zone isolate facility
- One man zone test facility
- Front panel short circuit facility
- Programmable external sounder delay
  (0-9 minutes, 1 minute increments)
- Earth fault indication
- Front panel alarm delay override facility
- Suitable for surface and semi-flush mounting
- CE marked
- Meets the latest European low voltage
  directive

Fire Alarm Call Point

FC1	Resetable Surface call point c/w 470R resistor for monitoring

Smoke Detector

Fire Detectors

FD1	Ionisation Smoke Detector (excl. base)
FDO	Optical Smoke Detector (excl. base)
FDR	Rate of Rise Detector (excl. base)
FDH	Fixed Temperature Heat Detector (excl. base)
FDB	Detector Base

Heat Detector

Call Point

Detector Base

COMPONENTS & ACCESSORIES

Sounder

Fire Alarm Sounders

FS1   Sounder 24V 100dBA @ 1 metre (surface mount)
FS2   Bedhead Sounder 24V 98dBA @ 1 metre (flush or surface mounted)
FDSB   Detector Base with built in Sounder 90dBA @ 1 metre
FS4   High Power Sounder 24V 102dBA @ 1 metre (surface mount IP65)
FS10   Xenon Strobe 24V
FS11   Sounder/Strobe 24V 100dBA @ 1 metre (surface mount)
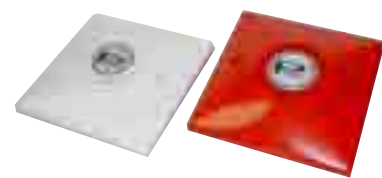
Xenon Strobes

Fire Alarm Ancillaries

FM1   240V Magnetic Door Holder
FM2   24V Magnetic Door Holder
FR1   Remote LED Indicator

Bedhead Sounders

Remote LED

Magnetic Door Holder

FIRE ALARMS

Prestec

Single Switch Start

GT008	12"	8W
GT015	18"	15W
GT018	2ft	18W
GT030	3ft	30W
GT036	4ft	36W
GT058	5ft	58W
GT070	6ft	70W

Twin Switch Start

GT2008	12"	8W
GT2015	18"	15W
GT2018	2ft	18W
GT2030	3ft	30W
GT2036	4ft	36W
GT2058	5ft	58W
GT2070	6ft	70W

Triple Switch Start

GT3008	12"	8W
GT3015	18"	15W
GT3018	2ft	18W
GT3030	3ft	30W
GT3036	4ft	36W
GT3058	5ft	58W
GT3070	6ft	70W

Quad Switch Start

GT4008	12"	8W
GT4015	18"	15W
GT4018	2ft	18W
GT4030	3ft	30W
GT4036	4ft	36W
GT4058	5ft	58W
GT4070	6ft	70W

Single High Frequency

GTHF018	2ft	18W
GTHF036	4ft	36W
GTHF058	5ft	58W
GTHF070	6ft	70W

Twin High Frequency

GTHF2018	2ft	18W
GTHF2036	4ft	36W
GTHF2058	5ft	58W
GTHF2070	6ft	70W

Triple High Frequency

GTHF3018	2ft	18W
GTHF3036	4ft	36W
GTHF3058	5ft	58W
GTHF3070	6ft	70W

Quad High Frequency

GTHF4018	2ft	18W
GTHF4036	4ft	36W
GTHF4058	5ft	58W
GTHF4070	6ft	70W

N.B All gear trays supplied c/w leads, lampholders and terry clips

Lamps	Type		Cap
DLS70I	70W	SON-I	E27 (ES)
DLS70TD	70W	SON double ended	R7s
DLS150TD	150W	SON double ended	R7s
DLS70E	70W	SON-E	E27 (ES)
DLS150E	150W	SON-E	E40 (GES)
DLS250E	250W	SON-E	E40 (GES)
DLS400E	400W	SON-E	E40 (GES)
DLS150T	150W	SON-T	E40 (GES)
DLS250T	250W	SON-T	E40 (GES)
DLS400T	400W	SON-T	E40 (GES)
DLS600T	600W	SON-T	E40 (GES)
DLS1000T	1000W	SON-T	E40 (GES)
DLM70TD	70W	HQI double ended (NDL)	R7s
DLM150TD	150W	HQI double ended (NDL)	R7s
DLM70E	70W	HQI Eliptical	E27 (ES)
DLM150E	150W	HQI Eliptical	E27 (ES)
DLM150T	150W	HQI Tubular	E40 (GES)
DLM250T	250W	HQI Tubular	E40 (GES)
DLM400T	400W	HQI Tubular	E40 (GES)
DLM600T	600W	HQI Tubular	E40 (GES)
DLF80	80W	MBF/U	E27 (ES)
DLF125	125W	MBF/U	E27 (ES)
DLF250	250W	MBF/U	E40 (GES)
DLF400	400W	MBF/U	E40 (GES)

Coloured Lamps

Blue, green or magenta (please state when ordering)

DLM70C	70W	HQI double ended	R7s
DLM150C	150	HQI double ended	R7s
DLM400C	400W	HQI	E40 (GES)

Extralux (Agricultural Lamps)

DLS400EX	400W	SON-T	E40 (GES)
DLS600EX	600W	SON-T	E40 (GES)

Plantmax (High Output Agricultural Lamps)

DLS600PMX	600W	SON-T	E40 (GES)

Capacitors	μF	Voltage
CFC2	2.0	250
CFC4	4.0	250
CFC6	6.0	250
CFC72	7.2	440
CFC8	8.0	250
CFC84	8.4	440
CFC10	10.0	250
CFC12	12.0	250
CFC16	16.0	250
CFC20	20.0	250
CFC25	25.0	250
CFC30	30.0	250
CFC35	35.0	250
CFC40	40.0	250
CFC45	45.0	250
CFC50	50.0	250
CFC60	60.0	250

Discharge Gear Boxes (interior)

CBF50	50W	MBFU
CBF80	80W	MBFU
CBF125	125W	MBFU
CBF250	250W	MBFU
CBF400	400W	MBFU
CBF1000	1000W MBFU	
CBS50	50W	SON
CBS70	70W	SON
CBS100	100W	SON
CBS150	150W	SON
CBS250	250W	SON
CBS400	400W	SON
CBS1000	1000W	SON
CBM70	70W	HQI
CBM150	150W	HQI
CBM250	250W	HQI
CBM400	400W	HQI
CBM1000	1000W	HQI

Encapsulated Gear Boxes (interior)

CBM35E	35W	HQI
CBM70E	70W	HQI
CBM150E	150W	HQI

Discharge Gear Box

Encapsulated Gear

Discharge Ballasts

Mecury Vapour

(MBF)	Watts	Input Voltage	Cap. μF
CDF50	50	240	6
CDF80	80	240	8
CDF125	125	240	10
CDF250	250	240	13
CDF400	400	240	20

Metal Halide

(HQI)	Watts	Input Voltage	Cap. μF
CDM70	70	240	12
CDM150	150	240	20
CDM250	250	240	18
CDM400	400	240	30
CDM1000	1000	240	100

Sodium

(SON)	Watts	Input Voltage	Cap. μF
CDS50	50	230/240	8
CDS70	70	230/240	10
CDS100	100	230/240	12
CDS150	150	230/240	20
CDS250	250	230/240	30
CDS400	400	230/240	40
CDS600	600	230/240	50
CDS1000	1000	220/240	100

Ignitors

Ignitors	Watts	SON	M/Halide	SOX	Type	Load Length
CDI 2	35-70	●	●		Super	1m
CDI 6	70-400	●	●		Super	1m
CDI 12	1000	●	●		Super	1m
CDI 6/T	70-400	●	●		Timed	1m
CDI 6/P	70-400	●	●		Pulse	30m
CDI 5	35-55			●	Pulse	20m
CDI 7	90			●	Pulse	20m

Preslite ®

Preslite ®

Watts	Lamp Length	Cap. MFD	Detail	
CFB8A	1 x 8	300	2	
	1 x 6	225	2	
	2 x 6	225	2	Series Circuit
CFB13A	1 x 13	525	2	
	1 x 13	Compact	2	2-pin
	1 x 13	Compact	2	4-pin
	2 x 8	300	2	Series Circuit
CFB16A	1 x 16	2D	2	2-pin
	1 x 16	2D	2	4-pin
CFB20A	1 x 18/20	600	4	
	1 x 18/24/26	Compact	4	2-pin
	1 x 18/24/26	Compact	4	4-pin
CFB28A	1 x 28	2D	4	2-pin
	1 x 28	2D	4	4-pin
CFB30A	1 x 30	900	4	
	2 x 15	450	4	Series Circuit
CFB40A	1 x 36/40	1200	4	
	1 x 38	2D	4	
	1 x 36	Compact	4	
	2 x 18/20	600	4	Series Circuit
	2 x 18	Compact	4	2-pin
	2 x 18	Compact	4	4-pin
CFB65A	1 x 58/65	1500	5	
CFB75A	1 x 70/75	1800	6	

Lamp Non-dimmable	Lamp Length	No. of Wattage	Lamps
CFH218	600	18	2
CFH136	1200	36	1
CFH158	1500	58	1
CFH170	1800	70	1
CFH40C	Compact	40	1
CFH118	600	18	1
CFH236	1200	36	2
CFH258	1500	58	2
CFH270	1800	70	2
CFH240C	Compact	40	2
CFH155C	Compact	55	1
CFH255C	Compact	55	2

0-10V Dimmable	Lamp Length	Lamp Wattage	No. of Lamps
CHFD218	600	18	2
CFHD136	1200	36	1
CFHD158	1500	58	1
CFHD170	1800	70	1
CFHD40C	Compact	40	1
CFHD118	600	18	1
CFHD236	1200	36	2
CFHD258	1500	58	2
CFHD270	1800	70	2
CFHD240C	Compact	40	2
CFHD155C	Compact	55	1
CFHD255C	Compact	55	2

MDIM1   0-10v Dimmer Switch

COMPONENTS and ACCESSORIES

COMPONENTS and ACCESSORIES

Code	Pic. Ref.	Description
CST5	**1**	T5 Terry Clip
CST8	**1**	T8 Terry Clip
CST12	**1**	T12 Terry Clip
CSP1	**2**	Monkey Puzzle
CSL10	**3**	T8 Tombstone Lampholder
CSL20	**4**	T8 Tombstone Lampholder c/w starter holder
CSL2D	**5**	2D 2 Pin Lamp[holder
CSL4D	**5**	2D 4 Pin Lampholder
CSL30	**6**	E27 P/Lain Lampholder
CSL40	**6**	E40 (GES) P/Lain Lampholder
CSL5	**7**	T5 End Cap Lampholder
CSL8	**7**	T8 End Cap Lampholder
CSL12	**7**	T12 End Cap Lampholder
CSL15	**8**	Clip in Lampholder
CSL25	**9**	Clip in Lampholder c/w starter holder
CSL26	**10**	2 pin PL Lampholder
CSLPLL	**11**	4 Pin PLL Lampholder

Code	Pic. Ref.	Description
CSB1	12	Fused Terminal Block
CSS1	13	Starter Holder (clip in)
CSS3	14	Starter Holder (clip in)
CSS10	15	FSU 4-65w Starter Switch
CSS20	16	FS2 4-22w Starter Switch
CSS30	17	FS125 70-125w Starter Switch
CSS4	18	EFS 600 Pulse Starter
CCAB	19	0.5mm heat Resistant Luminaire Internal Wiring Cable Available in White, Blue, Brown, Green/Yellow, Orange, Pink Gray and Yellow
CPC1	20	Photocell Unit
CPC1	21	Photocell Unit c/w Remote Sensor
DCC01	22	Double Pole Cut out Single Fuse
DCC02	22	Double Pole Cut out Double Fuse
DCCF6		6 amp Fuse for Cut out

COMPONENTS and ACCESSORIES

COMPONENTS and ACCESSORIES

Preslite®   Preslite®
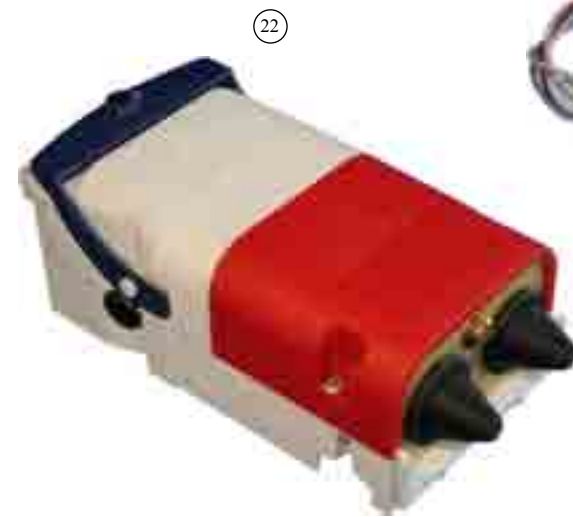
Code	Description
BT12	2.4v 4.0Ah NI-CAD 2 Cell battery stick
BT14	3.6v 4.0Ah NI-CAD 3 Cell battery stick
BT16	4.8v 4.0Ah NI-CAD 4 Cell battery stick
BT18	6.0v 4.0Ah NI-CAD 5 Cell battery stick
BT19	7.2v 4.0Ah NI-CAD 6 Cell battery stick
BT112	12v 1.2Ah SLA battery
BT119	12v 1.9A/2.2h SLA battery
BT126	12v 2.6/3.3Ah SLA battery
BT160	12v 6.0Ah SLA battery
BT610	6v 12Ah SLA battery

Repair And Refurbishment

Have you got flickering fluorescents or a faulty flood? Perhaps you have fittings with switch start ballasts that you want to keep but their energy requirements make them to costly to run. Then let us quote for the repair or refurbishment of those fittings.
We are able to test fittings and replace faulty components or burnt out wiring.
We can strip out the old costly to run switch start ballasts and replace them with energy efficient high frequency ballasts.

Just ring our Sales Office and we can discuss your needs.

TEL: 01204 575100

COMPONENTS and ACCESSORIES

COMPONENTS and ACCESSORIES

Starting Currents / Running Currents

SON	70 Watt	150 Watt	250 Watt	400 Watt
Starting Current (A)	0.60	1.00	2.72	2.99
Running Current (A)	0.50	0.80	1.49	2.47
HQI	70 Watt	150 Watt	250 Watt	400 Watt
Starting Current (A)	0.71	1.02	1.87	2.70
Running Current (A)	0.56	0.80	1.18	1.97
MBFU	80 Watt	125 Watt	250 Watt	400 Watt
Starting Current (A)	0.51	1.13	1.69	3.25
Running Current (A)	0.38	0.68	1.18	2.26

Maximum Recommended Nº Lamps per Type C Circuit Breaker

Amps	70 Watt	150 Watt	250 Watt	400 Watt
10	12	7	5	3
16	18	11	7	4
20	23	14	9	5
25	28	17	11	7

Ballast Capacitor Values

High Pressure Sodium (SON) Ballasts

Wattage	Capacitor Ref
50 w	CFC10 10uf
70 w	CFC12 12uf
150 w	CFC20 20uf
250 w	CFC30 30uf
400 w	CFC40 40uf
600 w	CFC50 50uf
1000 w	2 x CFC50 50uf

Metal Halide (HQI) Ballasts

Wattage	Capacitor Ref.
70 w	CFC12 12uf
150 w	CFC20 20uf
250 w	CFC20 20uf
400 w	CFC25 25uf
1000 w	2 x CFC50 50uf

Mercury (MBFU) Ballasts

Wattage	Capacitor Ref.
50 w	CFC6 6uf
80 w	CFC8 8uf
125 w	CFC10 10uf
250 w	CFC20 20uf
400 w	CFC25 25uf

1st number = Protection against solids

0 No protection

1 Protection against solid objects over 50mm

2 Protection against solid objects over 12mm

3 Protection against solid objects over 2.5mm

4 Protection against solid objects over 1mm

5 Protection against harmful deposits of dust

6 Protection against any ingress of dust

2nd number = Protection against liquids

0 No protection

1 Protection against vertically dripping water

2 Protection against direct sprays of water up to 15° from the vertical

3 Protection against direct sprays of water up to 60° from the vertical

4 Protection against direct sprays of water from any direction

5 Protection against low pressure jets of water from any direction

6 Protection against strong pressure jets of water from any direction

7 Protection against immersion down to 1m

8 Protection against long periods of immersion under pressure

Emergency Fitting Types

NON-MAINTAINED

The lamp in the luminaire ONLY operates from the inbuilt emergency supply, and ONLY when the normal supply fails. THE LAMP IS NOT LIT IN NORMAL MAINS HEALTHY MODE. The lumen out put of the lamp in emergency mode is a function of the batteries and NOT the lamp rating

MAINTAINED

The lamp or lamps in the luminaire can be operated as a normal light source and switched on or off as required. This is achieved by supplying two mains supplies to the luminaire (one permanent supply and one switched supply), on failure of the mains supply the lamp connected to the inbuilt emergency supply remains illuminated. The lumen out put of the lamp in emergency mode is a function of the batteries and NOT the lamp rating

SUSTAINED (COMBINED)

An emergency luminaire with at least two lamps. One of the lamps operates ONLY from the inbuilt emergency supply and is not lit in normal operation.

Preslite ®

Notes

Saturn Lighting Returns Policy

SHORT DELIVERIES/DAMAGES

- ❖ ALL GOODS SHORT DELIVERED OR DAMAGED IN TRANSIT MUST BE REPORTED TO SATURN LIGHTING WITHIN THREE DAYS

INCORRECTLY SUPPLIED GOODS

- ❖ ERRORS MUST BE NOTIFIED WITHIN THREE DAYS

- ❖ ALL GOODS TO BE RETURNED MUST HAVE A RETURNS REFERENCE NUMBER RAISED BY SATURN LIGHTING

FAULTY GOODS

- ❖ ALL GOODS WILL BE REPAIRED AND RETURNED TO END CLIENT/WHOLESALER

- ❖ ALL GOODS SUPPLIED AS AN ADVANCED REPLACEMENT ARE CHARGEABLE

- ❖ ALL GOODS FOUND TO BE WORKING WILL BE RETURNED AND THE WHOLESALER WILL BE CHARGED A LABOUR AND RETURN CARRIAGE CHARGE

- ❖ ALL GOODS THAT ARE RETURNED MUST FALL WITHIN THE 1 YEAR WARRANTY PERIOD

INCORRECTLY ORDERED GOODS

- ❖ A STANDARD CHARGE OF 30% WILL BE APPLIED TO ALL GOODS

- ❖ ALL GOODS TO BE RETURNED AT WHOLESALERS COST

- ❖ ALL GOODS THAT ARE RETURNED MUST BE IN ORIGINAL PACKAGING AND BE IN A RESALEABLE CONDITION

- ❖ ALL GOODS MUST BE CURRENT AND NOT DISCONTINUED

- ❖ ALL PRODUCTS MANUFACTURED OR DEEMED SPECIALS BY SATURN ARE NON RETURNABLE