

Chalmit

Andrew Chalmers & Mitchell Limited

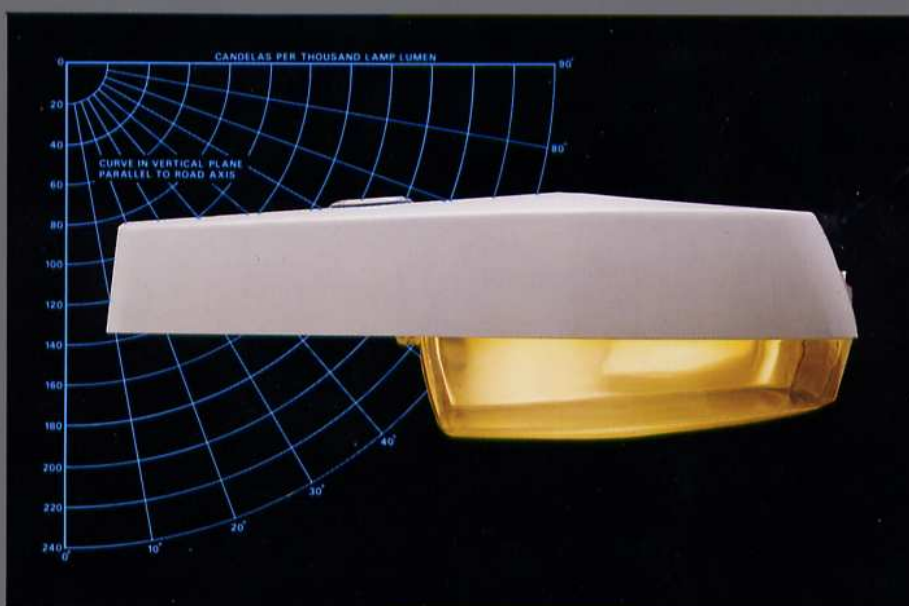
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ROAD & AMENITY

L I G H T I N G



T H E
DAVIS
LIGHTING
R A N G E

NEW



IP65 LANTERN FOR GROUP B ROADS

The new Chalmit Davis IP65 side entry lantern provides the answer to reduced maintenance illumination of group B roads.

The single piece bowl and gear chamber cover, ensures IP65 protection for the whole fitting without compromising maintenance accessibility.

The gear chamber is hidden by a black masking that ensures the luminaire's excellent optical performance is matched by an outstanding appearance.

Chalmit

DAVIS



FM 09410

CHALMERS & MITCHELL LTD.,

388 Hillington Road, Glasgow G52 4BL Scotland
Tel: 041-882 5555 Fax: 041-883 3704 Telex: 779378

SPECIFICATION

CANOPY

Compression moulded from corrosion and weather resistant white GRP compound.
Other colour compounds available upon request.
Provision for NEMA socket.
Supplied with removeable gear tray with quick release plug and socket, integral control gear, cable gland, terminal block, ceramic lampholder and high brightness aluminium side reflectors.

BOWL

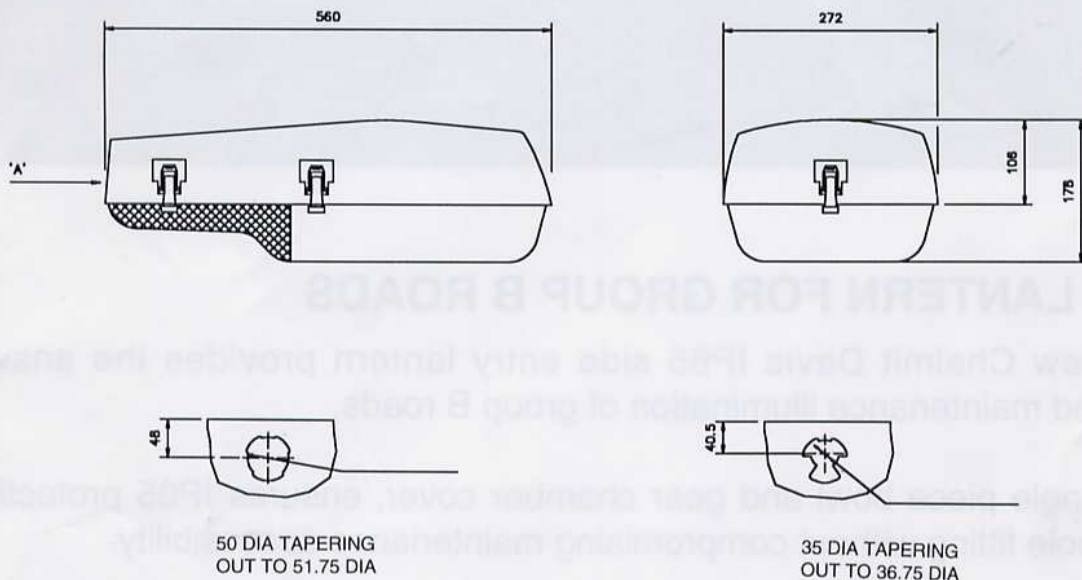
Vandal resistant vacuum formed polycarbonate bowl, secured to canopy by 5 stainless steel toggle clips and rear mounted hinge. Fully detachable.

FIXING

Side entry mounting 80mm deep x 34mm dia (1" BSP) as standard or 42mm, 48mm (1 1/4", 1 1/2" BSP) and post top mounting, available on request.
Secured by 2 x M20 socket head grub screws.

CONTROL GEAR

S.I.P. Ignitor as standard to prevent ballast overheat on lamp failure. Cut-out also available upon request. Internal.



48mm SPIGOT ENTRY

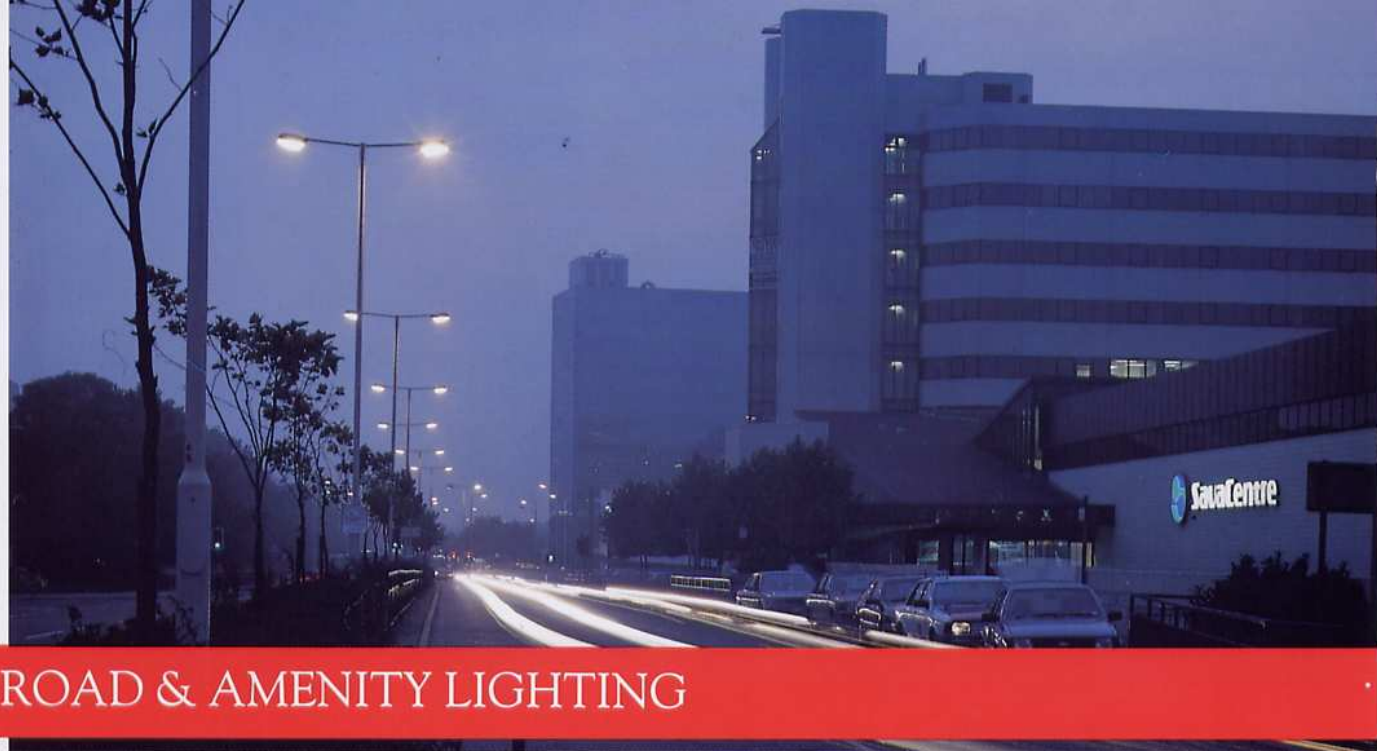
34mm SPIGOT ENTRY

VIEW OF SPIGOT ENTRIES SHOWN IN DIRECTION OF ARROW 'A'

CAT. NO.	LAMP TYPE	LAMP CAP	WEIGHT	(M2) WINDAGE	POWER FACTOR	FREQUENCY	VOLTAGE RANGE	CIRCUIT WATTS
GR50S IP65	50W SON/E SON/T	E27	6.25kg	0.0782	0.9	50Hz	220/240V	60
GR70S IP65	70W SON/E SON/T	E27	6.25kg	0.0782	0.91	50Hz	220/240V	80
GR80M IP65	80W MBF/U	E27	6.25kg	0.0782	0.93	50Hz	240V	88
SL100ST IP65	100W SON/T	E40	6.5kg	0.0782	0.89	50Hz	220/240V	114
GR125M IP65	125W MBF/U	E40	6.5kg	0.0782	0.92	50Hz	240V	145

NOTES

- 1) Different voltages and frequencies available upon request.
- 2) For remote gear add R to catalogue number.
- 3) Add — NS to catalogue number for Nema socket.
- 4) Please specify side entry mounting diam. 34mm, 42mm or 48 mm.



Photograph courtesy of Commission for the New Basildon.

ROAD & AMENITY LIGHTING

SOUTHERNHAY, BASILDON, ESSEX.



This catalogue presents a comprehensive collection of Road & Amenity lighting, products and services.

For ease of selection each lantern and luminaire has been grouped according to its normal function, and each is clearly displayed to allow an appraisal of the various aesthetic merits.*

Relevant technical information is shown in a way which enables clear comparisons to be made between alternatives. Should you require it, we will be happy to supply any further information.

As with all Chalmit products those featured within are constructed to very high engineering standards, with particular attention paid to efficiency in both usage and maintenance.

For those projects – either exterior or interior – which may require a more individual approach, Chalmit offers an in-house Design Service backed up by manufacturing and organizational abilities to see the complete project through.

The Company

Manufacturers of standard and purpose made hazardous area and exterior lighting, the Group also has its own in-house photometric laboratory – BSI Certificate No 011 – enabling it to provide photometric data in accordance with the new road lighting code of practice, BS 5489.



*In recognition of their technical/aesthetic qualities, many of the luminaires featured have been selected by the UK's premier design body, the Design Council, as being exemplary models of luminaire design and construction.



ORDERING INFORMATION

Discharge lamps, lamp and control gear packages, Thytractor HPS convertor units and photocells complete the range of products offered. For further information please contact our Sales Office.

Electrical

Lanterns and luminaires are supplied for use on 240 volt 50Hz supply as standard. Ballasts for other supply voltages are available on request.

Control Gear

'I' denotes lantern is supplied with integral control gear. 'R' denotes a remote lantern, no control gear is supplied. Control gear is supplied with a separate ignitor as standard. Control gear for integral ignitor lamps is available on request.

Dimensions

All dimensions shown are in millimetres.

Photometric Data

All photometric data supplied has been measured in accordance with BS 5225 Part 1 1975.

Lamps

Are not included unless otherwise stated.

Replacement Bowls

Replacement lantern bowls and luminaire diffusers are available, both for current models and for many of those discontinued.

OTHER SERVICES

Photometric Data

Our photometric laboratory is certified under the BSI Registration Scheme for Photometric Laboratories, Certificate No: 011, and enables computerised glare data, isolux diagrams and illuminance plots to be produced if requested by the specifier.

Design Service

Our Design Office is pleased to discuss any lighting projects requiring individual attention. We are able to offer full computer-aided design information in accordance with the new Code of Practice for A Road lighting.

Andrew Chalmers & Mitchell Ltd. reserve the right to amend the specifications outlined following their policy of constant improvement.

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a Pillar electrical company



GR 100



IP.54



GR 102



IP.54

MAIN ROAD B8

Compliance: Designed in accordance with BS 4533 Part 2: Section 102.3:1981.
Optical data in accordance with BS 4533 Part 2: Section 103.1:1981.

SPECIFICATION

Canopy

Compression moulded from corrosion and weather resistant white GRP compound.
Provision for NEMA socket.
Supplied with cable clamp, terminal block, lamp support and ceramic lampholder.

Bowl

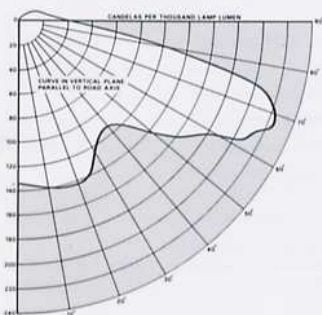
Vacuum formed vandal resistant high impact acrylic bowl with injection moulded refractor plates.
Secured to canopy by stainless steel hinges & spring clips, and is fully detachable.

Fixing

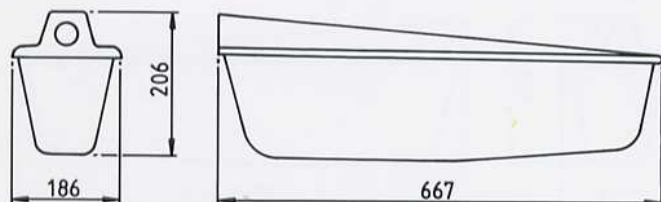
Side entry mounting 102mm deep \times 42mm dia. (1 1/4" BSP).
Secured by 2 \times M10 socket head grub screws.

RECOMMENDED MOUNTING HEIGHT: 8 METRES

POLAR CURVE GR 100 90w SOX PHOTOMETRIC DATA



Light Distribution Semi Cut-Off
DLOR 70%
Beam Upper Limit 75°
Beam Lower Limit 62°
Peak Intensity 225 cd/Klm
Elevation where
I = 130 cd/Klm 79°
Intensity in cone from
downward vertical to I Max = 132 cd/Klm
30° in elevation I Min = 123 cd/Klm



RANGE

Cat. No.	Lamp Type	Integral/Remote	Lampholder	Weight (kg)	Windage (m ²)	Power Factor	Line Current	Total Watts
GR 100	90w SOX 66w SOX-E	R	2 pin BC	2.65	0.104	—	—	—

Add - NS to catalogue number for NEMA socket.

Compliance: Designed in accordance with BS 4533 Part 2: Section 102.3:1981.
Optical data in accordance with BS 4533 Part 2: Section 103.1:1981.

SPECIFICATION

Canopy

Die-cast from corrosion and weather resistant LM6-M aluminium.
Provision for NEMA socket.

Supplied with integral control gear, cable clamp, terminal block, lamp support, earth screw and ceramic lampholder.

Bowl

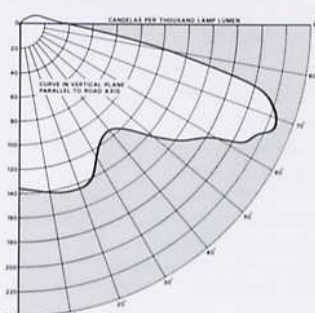
Vacuum formed vandal resistant high impact acrylic bowl with injection moulded refractor plates.
Secured to canopy by stainless steel hinges & spring clips, and is fully detachable.

Fixing

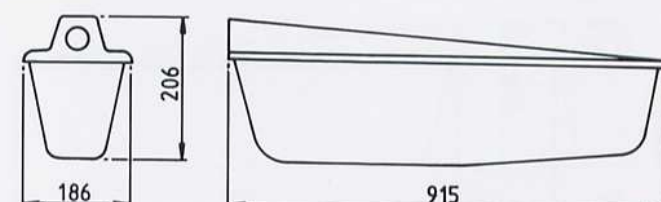
Side entry mounting 127mm deep \times 42mm dia. (1 1/4" BSP).
Secured by 2 \times M10 socket head grub screws.

RECOMMENDED MOUNTING HEIGHT: 8 METRES

POLAR CURVE GR 102 90w SOX PHOTOMETRIC DATA



Light Distribution Semi Cut-Off
DLOR 70%
Beam Upper Limit 75°
Beam Lower Limit 62°
Peak Intensity 225 cd/Klm
Elevation where
I = 130 cd/Klm 79°
Intensity in cone from
downward vertical to I Max = 132 cd/Klm
30° in elevation I Min = 123 cd/Klm



RANGE

Cat. No.	Lamp Type	Integral/Remote	Lampholder	Weight (kg)	Windage (m ²)	Power Factor	Line Current	Total Watts
GR 102	90w SOX 66w SOX-E	I	2 pin BC	9.80	0.158	0.88 0.92	0.5 0.375	105 83

Add - NS to catalogue number for NEMA socket.



GR 150



IP.54



GR 200 & GR 152



IP.54

MAIN ROAD A10

Compliance: Designed in accordance with BS 4533 Part 2: Section 102.3:1981.
Optical data in accordance with BS 4533 Part 2: Section 103.1:1981.

SPECIFICATION

Canopy

Die-cast from corrosion and weather resistant LM6-M aluminium.
Provision for NEMA socket.
Supplied with cable clamp, terminal block, lamp support, earth screw and ceramic lampholder.

Bowl

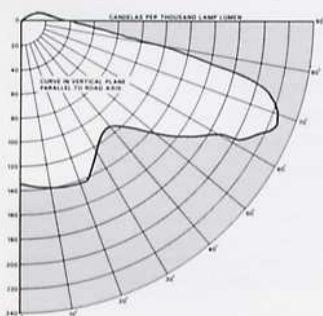
Vacuum formed vandal resistant high impact acrylic bowl with injection moulded refractor plates.
Secured to canopy by stainless steel hinges & spring clips, and is fully detachable.

Fixing

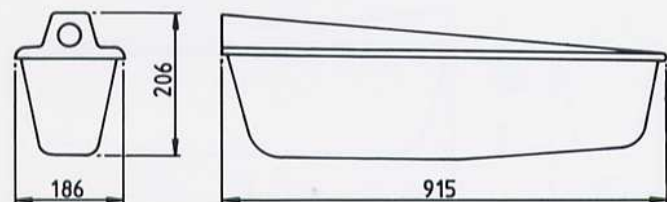
Side entry mounting 127mm deep \times 42mm dia. (1 $\frac{1}{4}$ " BSP).
Secured by 2 \times M10 socket head grub screws.

RECOMMENDED MOUNTING HEIGHT: 10 METRES

POLAR CURVE GR 150 135w SOX PHOTOMETRIC DATA



Light Distribution Semi Cut-Off
DLOR 70%
Beam Upper Limit 75°
Beam Lower Limit 62°
Peak Intensity 225 cd/Klm
Elevation where
I = 130 cd/Klm 79°
Intensity at 90° in elevation 40 cd/Klm
Intensity in cone from
downward vertical to I Max = 132 cd/Klm
30° in elevation I Min = 123 cd/Klm



RANGE

Cat. No.	Lamp Type	Integral/Remote	Lampholder	Weight (kg)	Windage (m ²)	Power Factor	Line Current	Total Watts
GR 150	135w SOX 91w SOX-E	R	2 pin BC	4.31	0.158	—	—	—

Add -NS to catalogue number for NEMA socket.

MAIN ROAD A12

Compliance: Designed in accordance with BS 4533 Part 2: Section 102.3:1981.
Optical data in accordance with BS 4533 Part 2: Section 103.1:1981.

SPECIFICATION

Canopy

Die-cast from corrosion and weather resistant LM6-M aluminium.
Provision for NEMA socket.
Supplied with integral control gear where indicated, cable clamp, terminal block, lamp support, earth screw and ceramic lampholder.

Bowl

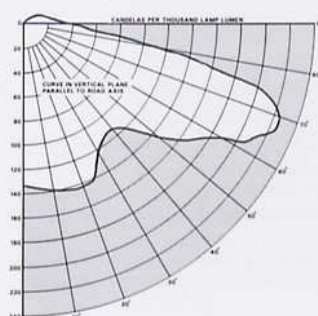
Vacuum formed vandal resistant high impact acrylic bowl with injection moulded refractor plates.
Secured to canopy by stainless steel hinges & spring clips, and is fully detachable.

Fixing

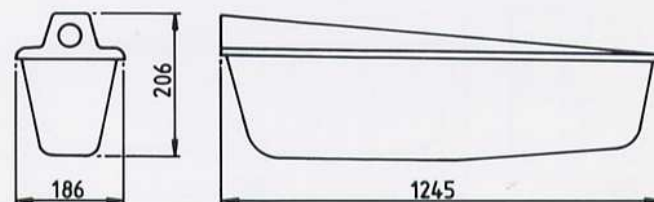
Side entry mounting 178mm deep \times 42mm dia. (1 $\frac{1}{4}$ " BSP).
Secured by 2 \times M10 socket head grub screws.

RECOMMENDED MOUNTING HEIGHT: 12 METRES

POLAR CURVE GR 200 180w SOX PHOTOMETRIC DATA



Light Distribution Semi Cut-Off
DLOR 70%
Beam Upper Limit 75°
Beam Lower Limit 62°
Peak Intensity 225 cd/Klm
Elevation where
I = 130 cd/Klm 79°
Intensity at 90° in elevation 40 cd/Klm
Intensity in cone from
downward vertical to I Max = 132 cd/Klm
30° in elevation I Min = 123 cd/Klm



RANGE

Cat. No.	Lamp Type	Integral/Remote	Lampholder	Weight (kg)	Windage (m ²)	Power Factor	Line Current	Total Watts
GR 200	180w SOX 131w SOX-E	R	2 pin BC	6.35	0.212	—	—	—
GR 152	135w SOX 91w SOX-E	I	2 pin BC	10.6	0.212	0.88 0.92	0.72 0.51	152 111

Add -NS to catalogue number for NEMA socket.



GR 304 & GR 305

IP.54



STARLINE 70

IP.54

MAIN ROAD A10:12

Compliance: Designed in accordance with BS 4533 Part 2: Section 102.3:1981.
Optical data in accordance with BS 4533 Part 2: Section 103.1:1981.

SPECIFICATION

Canopy

Die-cast from corrosion and weather resistant LM6-M aluminium.
Provision for NEMA socket.
Supplied with cable clamp, terminal block, earth screw, ceramic lampholder and high brightness aluminium side reflectors.

Bowl

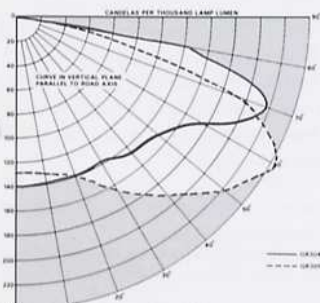
Vacuum formed vandal resistant high impact acrylic bowl.
Secured to canopy by stainless steel hinges & spring clips, and is fully detachable.

Fixing

Side entry mounting 102mm deep \times 42mm dia. (1 $\frac{1}{4}$ " BSP).
Secured by 2 \times M10 socket head grub screws.

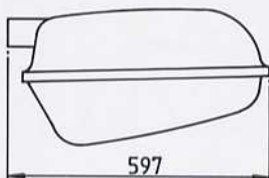
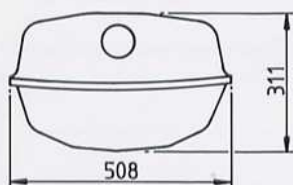
RECOMMENDED MOUNTING HEIGHT: 10-12 METRES DEPENDING ON LAMP USED

POLAR CURVE GR 304 250w SON PHOTOMETRIC DATA



Light Distribution Semi Cut-Off
DLOR 77%
Beam Upper Limit 75.5°
Beam Lower Limit 67°
Peak Intensity 219 cd/Klm
Elevation where
I = 130 cd/Klm 81°
Intensity at 90° in elevation 8 cd/Klm
Intensity in cone from
downward vertical to I Max = 144 cd/Klm
30° in elevation I Min = 122 cd/Klm

GR 305 Cut-Off light distribution – full photometric data available on request.



RANGE

Cat. No.	Lamp Type	Integral/Remote	Lampholder	Weight (kg)	Windage (m ²)	Power Factor	Line Current	Total Watts
GR 304	250w SON/MBF/U	R	GES	6.58	0.136	-	-	-
	400w SON/MBF/U							
GR 305	250w SON/MBF/U	R	GES	6.58	0.136	-	-	-
	400w SON/MBF/U							

Add - NS to catalogue number for NEMA socket.

B5:6

Compliance: Designed in accordance with BS 4533 Part 2: Section 102.3:1981.
Optical data in accordance with BS 4533 Part 2: Section 103.1:1981.

SPECIFICATION

Canopy

Compression moulded from corrosion and weather resistant white GRP compound.
Other colour compounds available as an optional extra. Provision for NEMA socket.
Supplied with removable gear tray with quick release plug & socket, integral control gear where indicated, cable clamp, terminal block, ceramic lampholder and high brightness aluminium side reflectors.

Bowl

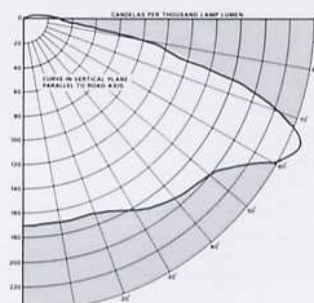
Injection moulded vandal resistant polycarbonate bowl. Secured to canopy by Noryl toggle clip and rear mounted hinge pin, and is fully detachable.

Fixing

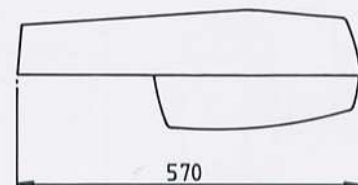
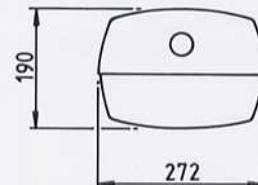
Side entry mounting 80mm deep \times 34mm dia. (1" BSP) or 42mm (1 $\frac{1}{4}$ " BSP).
Secured by 2 \times M10 socket head grub screws.

RECOMMENDED MOUNTING HEIGHT: 5-6 METRES DEPENDING ON LAMP USED

POLAR CURVE GR 70S 70w SON PHOTOMETRIC DATA



Light Distribution Cut-Off
DLOR 75%
Beam Upper Limit 69°
Beam Lower Limit 57°
Peak Intensity 253 cd/Klm
Elevation where
I = 130 cd/Klm 79°
Intensity at 90° in elevation 30 cd/Klm
Intensity in cone from
downward vertical to I Max = 187 cd/Klm
30° in elevation I Min = 170 cd/Klm



RANGE

Cat. No.	Lamp Type	Integral/Remote	Lampholder	Weight (kg)	Windage (m ²)	Power Factor	Line Current	Total Watts
GR 50S†	50w SON	I	ES	6.1	0.0782	0.9	0.23	61
GR 70S†	70w SON	I	ES	6.1	0.0782	0.91	0.39	85
GR 80M†*	80w MBF/U	I	3 pin BC/ES	6.2	0.0782	0.93	0.41	92
GR 125M†*	125w MBF/U	I	3 pin BC/ES	6.2	0.0782	0.92	0.62	137
SL 100ST†	100w SON-T	I	GES	6.5	0.0782	0.89	0.56	120
GR 70R†*	All above	R	3 pin BC/ES/GES	4.8	0.0782	-	-	-

*Please state which lampholder required.

†Please specify side entry mounting dia: 34mm or 42mm.

Add - NS to catalogue number for NEMA socket.



GR 501

IP.54



GR 551

IP.54

B5:6

Compliance: Designed in accordance with BS 4533 Part 2: Section 102.3:1981.
Optical data in accordance with BS 4533 Part 2: Section 103.1:1981.

SPECIFICATION

Canopy

Die-cast from corrosion and weather resistant LM6-M aluminium.
Provision for NEMA socket.
Supplied with cable clamp, terminal block, lamp support, earth screw and ceramic lampholder.

Bowl

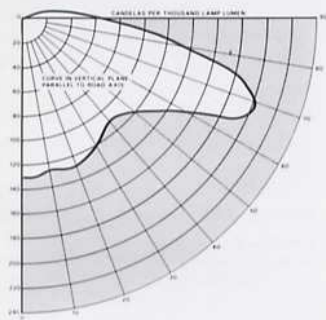
Injection moulded vandal resistant high impact acrylic bowl with integral refractors.
Secured to canopy by stainless steel hinges & toggle clip, and is fully detachable.

Fixing

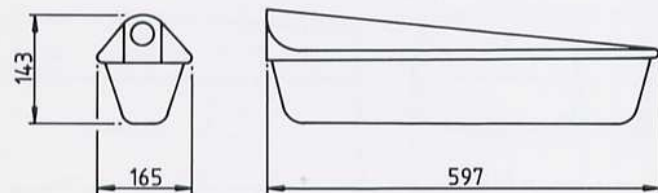
Side entry mounting 80mm deep \times 34mm dia. (1" BSP).
Secured by 2 \times M10 socket head grub screws.

RECOMMENDED MOUNTING HEIGHT: 5-6 METRES

POLAR CURVE GR 501 55w SOX PHOTOMETRIC DATA



Light Distribution Semi Cut-Off
DLOR 63%
Beam Upper Limit 75°
Beam Lower Limit 64°
Peak Intensity 206 cd/Klm
Elevation where
I = 130 cd/Klm 81°
Intensity at 90° in elevation 70 cd/Klm
Intensity in cone from
downward vertical to I Max = 131 cd/Klm
30° in elevation I Min = 120 cd/Klm



Compliance: Designed in accordance with BS 4533 Part 2: Section 102.3:1981.
Optical data in accordance with BS 4533 Part 2: Section 103.1:1981.

SPECIFICATION

Canopy

Die-cast from corrosion and weather resistant LM6-M aluminium.
Provision for NEMA socket.
Supplied with control gear on removable gear tray, cable clamp, terminal block, earth screw and ceramic lampholder.

Bowl

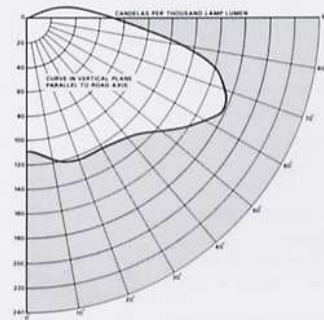
Injection moulded vandal resistant high impact acrylic bowl with integral refractors.
Secured to canopy by hinge lugs and stainless steel spring clips, and is fully detachable.

Fixing

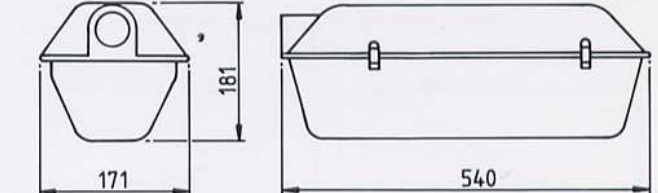
Side entry mounting 80mm deep \times 34mm dia. (1" BSP).
Secured by 2 \times M10 socket head grub screws.

RECOMMENDED MOUNTING HEIGHT: 5-6 METRES

POLAR CURVE GR 551 55w SOX PHOTOMETRIC DATA



Light Distribution Semi Cut-Off
DLOR 67%
Beam Upper Limit 75.5°
Beam Lower Limit 56°
Peak Intensity 180 cd/Klm
Elevation where
I = 130 cd/Klm 80°
Intensity at 90° in elevation 69 cd/Klm
Intensity in cone from
downward vertical to I Max = 124 cd/Klm
30° in elevation I Min = 110 cd/Klm



RANGE

Cat. No.	Lamp Type	Integral/Remote	Lampholder	Weight (kg)	Windage (m²)	Power Factor	Line Current	Total Watts
GR 501	35w SOX	R	2 pin BC	2.27	0.075	—	—	—
	26w SOX-E							
	55w SOX							
	36w SOX-E							

Add - NS to catalogue number for NEMA socket.

RANGE

Cat. No.	Lamp Type	Integral/Remote	Lampholder	Weight (kg)	Windage (m²)	Power Factor	Line Current	Total Watts
GR 551	35w SOX	I	2 pin BC	3.8	0.087	0.85	0.21	44
	26w SOX-E					0.90	0.15	35
	55w SOX					0.85	0.31	64
	36w SOX-E					0.90	0.21	45

Add - NS to catalogue number for NEMA socket.



GR 526/II

IP.54



GR 535

IP.54

B5

Compliance: Designed in accordance with BS 4533 Part 2: Section 102.3:1981.
Optical data in accordance with BS 4533 Part 2: Section 103.1:1981.

SPECIFICATION

Canopy

Compression moulded from corrosion and weather resistant white GRP compound. Other colour compounds available as an optional extra. Provision for NEMA socket. Supplied with integral control gear where indicated, gear cover reflector plate, cable clamp, terminal block, lamp support and ceramic lampholder.

Bowl

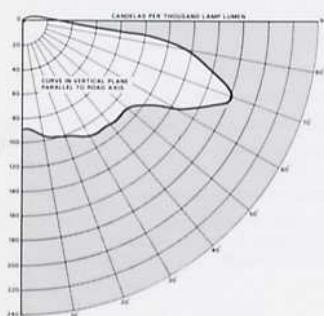
Injection moulded vandal resistant polycarbonate bowl with integral refractors. Secured to canopy by stainless steel toggle clip and rear mounted loop hinge, and is fully detachable.

Fixing

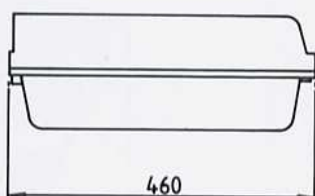
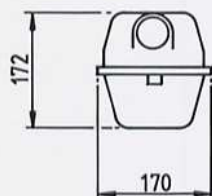
Side entry mounting 80mm deep \times 34mm dia. (1" BSP).
Secured by 2 \times M6 locking bolts.

RECOMMENDED MOUNTING HEIGHT: 5 METRES

POLAR CURVE GR 526/II 35w SOX PHOTOMETRIC DATA



Light Distribution Semi Cut-Off
DLOR 60%
Beam Upper Limit 75°
Beam Lower Limit 62.5°
Peak Intensity 182 cd/Klm
Elevation where
I = 130 cd/Klm 80°
Intensity at 90° in elevation 35 cd/Klm
Intensity in cone from
downward vertical to 30° in elevation I Max = 112 cd/Klm
I Min = 86 cd/Klm



RANGE

Cat. No.	Lamp Type	Integral/Remote	Lampholder	Weight (kg)	Windage (m ²)	Power Factor	Line Current	Total Watts
GR 526/G/II	35w SOX	I	2 pin BC	3.57	0.06	0.85	0.21	44
	26w SOX-E					0.90	0.15	35
GR 526/II	18/35w SOX	R	2 pin BC	2.20	0.06	—	—	—
	26w SOX-E							

Add - NS to catalogue number for NEMA socket.

Compliance: Designed in accordance with BS 4533 Part 2: Section 102.3:1981.
Optical data in accordance with BS 4533 Part 2: Section 103.1:1981.

SPECIFICATION

Canopy

Die-cast from corrosion and weather resistant LM6-M aluminium. Provision for NEMA socket.

Supplied with cable clamp, terminal block, lamp support, earth screw and ceramic lampholder.

Bowl

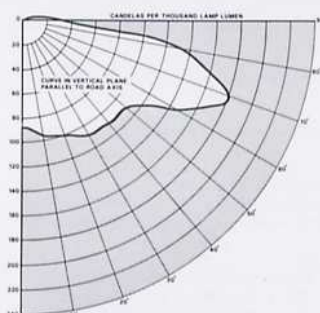
Injection moulded vandal resistant polycarbonate bowl with integral refractors. Secured to canopy by stainless steel toggle clip and rear mounted loop hinge, and is fully detachable.

Fixing

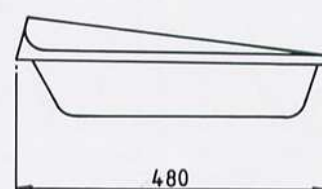
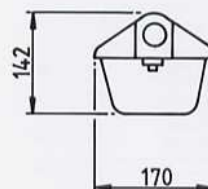
Side entry mounting 80mm deep \times 34mm dia. (1" BSP).
Secured by 2 \times M10 socket head grub screws.

RECOMMENDED MOUNTING HEIGHT: 5 METRES

POLAR CURVE GR 535 35w SOX PHOTOMETRIC DATA



Light Distribution Semi Cut-Off
DLOR 58%
Beam Upper Limit 75°
Beam Lower Limit 62.5°
Peak Intensity 182 cd/Klm
Elevation where
I = 130 cd/Klm 80°
Intensity at 90° in elevation 35 cd/Klm
Intensity in cone from
downward vertical to 30° in elevation I Max = 112 cd/Klm
I Min = 86 cd/Klm



RANGE

Cat. No.	Lamp Type	Integral/Remote	Lampholder	Weight (kg)	Windage (m ²)	Power Factor	Line Current	Total Watts
GR 535	18/35w SOX	R	2 pin BC	1.96	0.05	—	—	—
	26w SOX-E							

Add - NS to catalogue number for NEMA socket.



PT 1180

IP:54

POST TOP B5:6

Compliance: Designed in accordance with BS 4533 Part 2: Section 102.3:1981.

SPECIFICATION

Base

Die-cast from corrosion and weather resistant LM6-M aluminium.

Canopy

Spun aluminium canopy secured to body by a black bakelite knob. Provision for NEMA socket.

Bowl

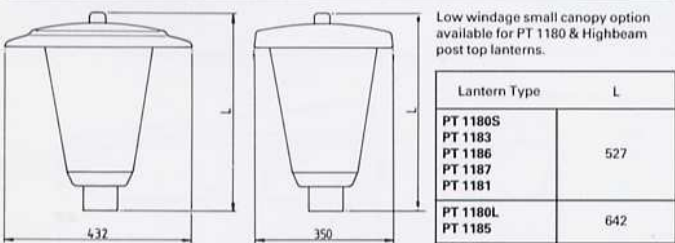
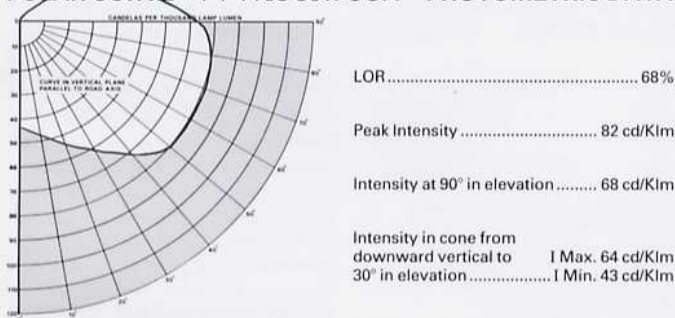
Injection moulded vandal resistant opal polycarbonate bowl. Fully detachable from base and canopy. Lantern supplied with integral control gear where indicated, cable clamp, terminal block, lamp support, earth screw and ceramic lampholder.

Fixing

Post top mounting 76mm deep \times 76mm dia. (3"). Secured by 3 \times M10 socket head grub screws.

RECOMMENDED MOUNTING HEIGHT: 5/6 METRES DEPENDING ON LAMP USED

POLAR CURVE PT 1183 35w SOX PHOTOMETRIC DATA



RANGE

Cat. No.	Lamp Type	Integral/Remote	Lampholder	Weight (kg)	Windage (m ²)	Power Factor	Line Current	Total Watts
PT 1180S*	35w SOX 26w SOX-E 50/70w SON	R	2 pin BC/ES	3.8	0.17	—	—	—
PT 1180L*	55w SOX 36w SOX-E 100w SON	R	2 pin BC/GES	4.5	0.20	—	—	—
PT 1183	35w SOX 26w SOX-E	I	2 pin BC	5.2	0.17	0.85	0.21	44
PT 1186	50w SON	I	ES	5.5	0.17	0.90	0.23	64
PT 1187	70w SON	I	ES	5.5	0.17	0.91	0.39	85
PT 1185	55w SOX 36w SOX-E	I	2 pin BC	5.9	0.20	0.85	0.31	64
PT 1181	100w SON	I	GES	6.0	0.17	0.89	0.56	120

Add - NS to catalogue number for NEMA socket.
*Please state which lampholder required.

Add - SC to catalogue number for small canopy option.



HIGHBEAM

IP:54

POST TOP B5

Compliance: Designed in accordance with BS 4533 Part 2: Section 102.3:1981.

SPECIFICATION

Base

Die-cast from corrosion and weather resistant LM6-M aluminium.

Canopy

Spun aluminium canopy secured to body by a black bakelite knob. Provision for NEMA socket.

Bowl

Injection moulded vandal resistant clear polycarbonate bowl. Fully detachable from base and canopy. Lantern supplied with integral control gear where indicated, Highbeam refractor†, cable clamp, terminal block, earth screw and ceramic lampholder. Lantern finish: black gloss.

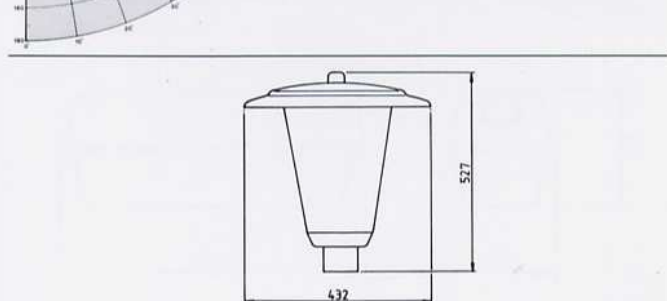
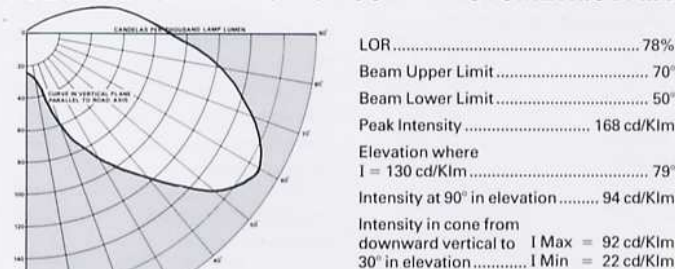
Fixing

Post top mounting 76mm deep \times 76mm dia. (3"). Secured by 3 \times M10 socket head grub screws.

† The Highbeam uses an advanced refractor design to give optical performance comparable to a side entry lantern. Thus a cost efficient space/height ratio of 6:1 can be achieved whilst retaining the attractiveness of a post top lantern.

RECOMMENDED MOUNTING HEIGHT: 5 METRES

POLAR CURVE PT 1197 70w SON PHOTOMETRIC DATA



RANGE

Cat. No.	Lamp Type	Integral/Remote	Lampholder	Weight (kg)	Windage (m ²)	Power Factor	Line Current	Total Watts
PT 1190*	50/70w SON 80/125w MBF/U	R	ES 3 pin BC/ES	6.1	0.17	—	—	—
PT 1195	50w SON	I	ES	7.4	0.17	0.90	0.23	61
PT 1197	70w SON	I	ES	7.4	0.17	0.91	0.39	85
PT 1198*	80w MBF/U	I	3 pin BC/ES	7.5	0.17	0.93	0.41	92
PT 1192*	125w MBF/U	I	3 pin BC/ES	7.5	0.17	0.92	0.62	137

Add - NS to catalogue number for NEMA socket.
*Please state which lampholder required.

Add - SC to catalogue number for small canopy option.



PT 1004

IP.54



TANGENT

IP.23

AMENITY LIGHTING

Compliance: Designed in accordance with BS 4533 Part 2: Section 102.3:1981.

SPECIFICATION

Base

Die-cast from corrosion and weather resistant LM6-M aluminium.

Canopy

Spun aluminium canopy secured to body by a black bakelite knob. Provision for NEMA socket.

Bowl

Vacuum formed vandal resistant high impact opal acrylic bowl. Fully detachable from base and canopy.

Lantern supplied with cable clamp, terminal block, earth screw and ceramic lampholder.

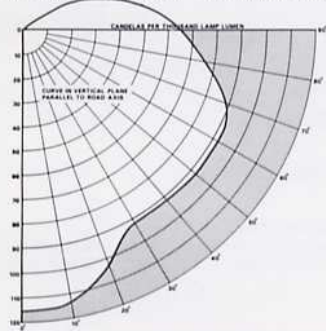
Fixing

Post top mounting 76mm deep \times 76mm dia. (3").

Secured by 3 \times M10 socket head grub screws.

RECOMMENDED MOUNTING HEIGHT: 5 METRES

POLAR CURVE PT 1004 70w SON PHOTOMETRIC DATA

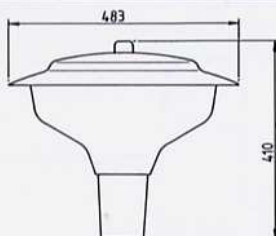


LOR 72%

Peak Intensity 120 cd/Klm

Intensity at 90° in elevation 65 cd/Klm

Intensity in cone from downward vertical to 30° in elevation I Max = 120 cd/Klm
I Min = 82 cd/Klm



RANGE

Cat. No.	Lamp Type	Integral/Remote	Lampholder	Weight (kg)	Windage (m ²)	Power Factor	Line Current	Total Watts
PT 1004*	80/125w MBF/U 50/70w SON	R	3 pin BC/ES ES	3.8	0.12	—	—	—

Add - NS to catalogue number for NEMA socket.

*Please state which lampholder required.

Compliance: Designed in accordance with BS 4533 Part 2: Section 102.3:1981.

SPECIFICATION

Body

Manufactured from extruded aluminium, finished black.

End Cap

Vacuum formed from high impact ABS material in black. Fully detachable.

Diffuser

Extruded reeded opal acrylic. Fully detachable.

Lantern supplied with control gear on removable gear tray, cable clamp, terminal block, lamp support, earth screw and lampholder.

Fixing

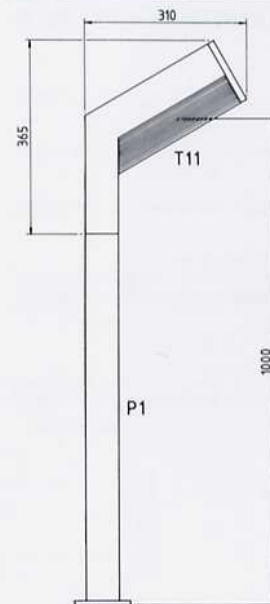
Either wall mounted or post top mounted on Tangent column.

Column

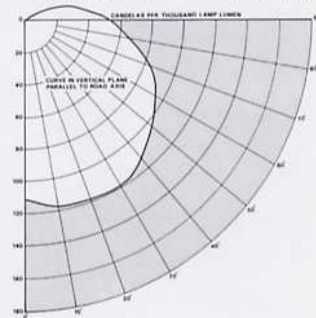
Manufactured from extruded aluminium and finished black.

Base plate fixing.

RECOMMENDED MOUNTING HEIGHT: UP TO 3 METRES



POLAR CURVE T18 18w SOX



PHOTOMETRIC DATA

LOR 57%

Peak Intensity 121 cd/Klm

Intensity at 90° in elevation 56 cd/Klm

Intensity in cone from downward vertical to 30° in elevation I Max = 120 cd/Klm
I Min = 110 cd/Klm

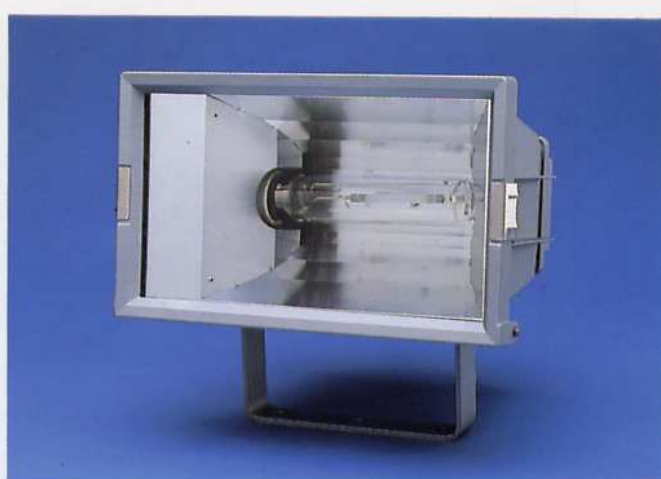
RANGE

Cat. No.	Lamp Type	Integral/Remote	Lampholder	Weight (kg)	Windage (m ²)	Power Factor	Line Current	Total Watts
T 11	11w PL	I	GR3	3.2	0.047	0.95	0.07	17
T 18	18w SOX	I	2 pin BC	3.2	0.047	0.80	0.14	27
P1 P2 P3	Column - height to lightsource 1m Column - height to lightsource 2m Column - height to lightsource 3m			3.6 7.2 10.8				



CHALMIT 604/250

IP.65



CHALMIT 604/400

IP.65

FLOODLIGHT

70-250 WATT HPS/HQI
80-125 WATT MBFU

Compliance: Designed in accordance with BS4533 Part 2 Section 102.3:1981.

SPECIFICATION

Housing:

Corrosion resistant high pressure die cast aluminium epoxy grey.

Front Cover:

Toughened safety glass retained in a hinged die cast aluminium frame and secured by stainless steel locking catches. Housing and frame sealed by a non-ageing silicone rubber gasket.

Reflector:

Chemically brightened anodised high purity aluminium.

Control Gear: Internal

Cable Entry: 20mm Threaded Gland

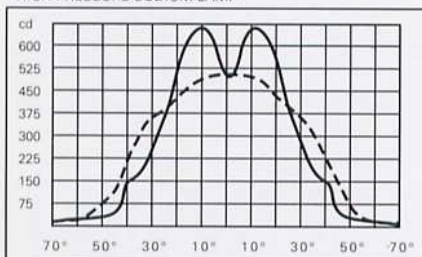
Protection: IP65

INTENSITY DIST CURVE

250W SON/T

PHOTOMETRIC DATA

HIGH PRESSURE SODIUM LAMP

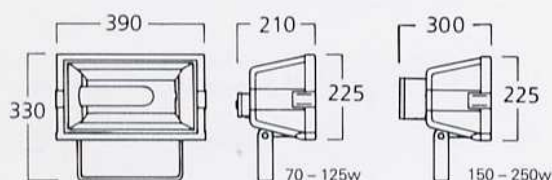


Cd/1000

CO-180

C90-270

Intensity Distribution Curves
C.O. - 180
WE - EF



RANGE

Cat. No.	Lamp Type	Lampholder	Weight (kg)
604/70	SON/T	E27	7.0
604/150	SON/T	E40	9.0
604/250	SON/T	E40	10.0
626/80	MBFU	E27	6.5
626/125	MBFU	E27	6.6
635/70	HQI-TS	R7s	7.2
635/150	HQI-TS	R7s	9.0
635/250	HQI-T	E40	10.0

Elliptical lamps for HPS/Metal Halide are available.



Also available
PROJECTOR FLOOD
150-400w HID
IP. 65
Internal Control Gear

FLOODLIGHT

400-1000 WATT HPS/HQI
150-400 WATT MBFU

Compliance: Designed in accordance with BS4533 Part 2 Section 102.3:1981.

SPECIFICATION

Housing:

Corrosion resistant high pressure die cast aluminium epoxy grey.

Front Cover:

Toughened safety glass retained in a hinged die cast aluminium frame and secured by stainless steel locking catches. Housing and frame sealed by a non-ageing silicone rubber gasket.

Reflector:

Chemically brightened anodised high purity aluminium.

Control Gear: Internal

Cable Entry: 20mm Threaded Gland

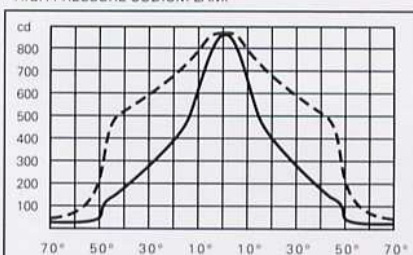
Protection: IP65

INTENSITY DIST CURVE

400W SON/T

PHOTOMETRIC DATA

HIGH PRESSURE SODIUM LAMP

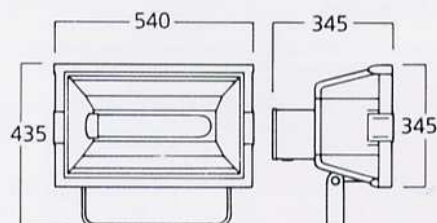


Cd/1000

CO-180

C90-270

Intensity Distribution Curves
C.O. - 180
WE - EF



RANGE

Cat. No.	Lamp Type	Lampholder	Weight (kg)
604/400	SON/T	E40	19.3
604/600	SON/T	E40	24.2
604/1000	SON/T	E40	27.1
626/250	MBFU	E40	15.0
626/400	MBFU	E40	17.0
634/250	HQI-T	E40	15.8
634/400	HQI-T	E40	18.0
634/1000	HQI-T	E40	26.5



PENTA

SOX-E LAMPS OPERATING ON DIFFERENT GEAR (240v 50Hz)

SOX lamp	Replacement SOX-E lamp	Typical conventional control gear		Davis SOX low loss control gear		Davis SOX-E "PENTA" control gear				
		Commercial nominal watts	True lamp watts	Total circuit watts	True lamp watts	Total circuit watts	True lamp watts	Total circuit watts	Supply current amps	Capacitor mfd
35	26	31	59	30	40	25	33	0.15	5 mfd	0.9 min
55	36	41	66	39	50	35	43	0.20	5 mfd	0.9 min
90	66	70	100	69	82	65	78	0.36	5 mfd	0.9 min

PENTA SOX-E CONTROL GEAR

Compliance: Designed in accordance with BS 4782.

Constant upgrading and development ensures that Davis control gear remains competitive and to a high standard. Our discharge control gear holds a three year guarantee, and is compatible with lamps from all major manufacturers.

WIRING DIAGRAM	Overall length mm	Width mm	Height mm	Fixing Centres mm	Weight kg	Supply Current AMPS	Total Watts	Watts Loss	Power Factor	Capacitor Value	Capacitor Dimensions	Max TW (°C)	Max Δ T (°C)	Supply Voltage	Fuse Value AMPS	Lowest Starting Temperature	Termination	Hot Restart Time
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CHOKES ONLY

Cat. No.		Lamp Wattage	Suitable Ignitor
DP 26	R	26w SOX-E	TC 1012-E
DP 36	R	36w SOX-E	TC 1018-E
DP 66	R	66w SOX-E	TC 1066-E

Note: Choke type R = Resin Filled

C	143	61	51	130	0.72	0.15	33	8	0.9	5 mfd	70 × Ø37	120	60	220/240v 50Hz*	4	-25	TB	not applicable
C	143	61	51	130	0.72	0.20	43	7	0.9	5 mfd	70 × Ø37	120	60	220/240v 50Hz*	4	-25	TB	
C	165	77	54	153	2.0	0.36	78	12	0.9	8 mfd	68 × Ø35	120	65	240v 50Hz	4	-25	TB	

IGNITORS ONLY

Cat. No.	Lamp Wattage	Suitable Choke
TC 1012-E	26w SOX-E	DP 26
TC 1018-E	36w SOX-E	DP 36
TC 1066-E	66w SOX-E	DP 66

C	97	Ø35	M8 Stud	0.03								-25 to +85	220/240v 50Hz*	4	-25	TB	Instant
C	97	Ø35	M8 Stud	0.03						not applicable		-25 to +85	240v 50Hz	4	-25	TB	Instant
C	97	Ø35	M8 Stud	0.03								-25 to +85	220/240v 50Hz*	4	-25	TB	Instant

CHOKE/IGNITOR PACKAGES complete with capacitor

Cat. No.	Lamp Wattage
DP 26/12	26w SOX-E
DP 36/18	36w SOX-E
DP 66/66	66w SOX-E

A	See data above
A	
A	

* Please specify supply voltage required when ordering

† Maximum Cable length 10 metres

Termination:
TB – Terminal Block
FL – Flying leads

COLUMNS

STEEL

D5PT & D505

SPECIFICATION

Compliance: Designed in accordance with BS 5649 Parts 1-9.

Column

5 metre column manufactured from mild steel. Column access by door. Base compartment has wooden backboard for mounting of control gear.

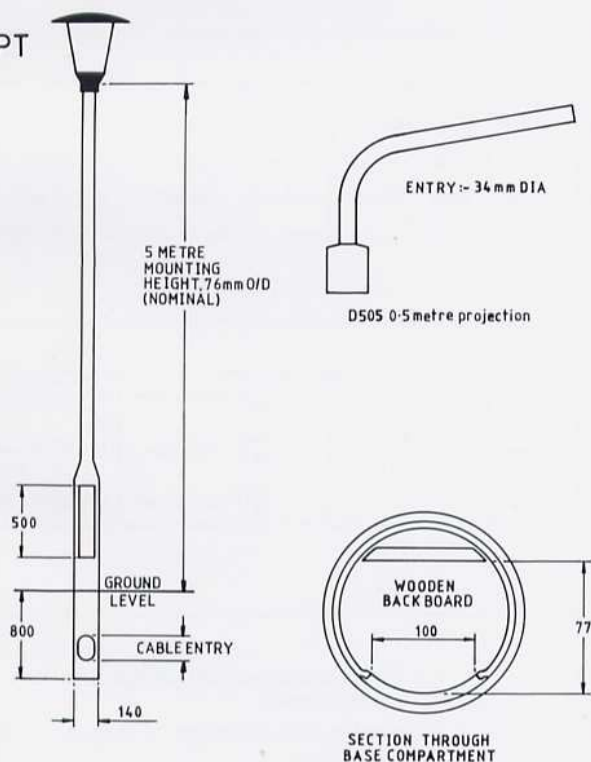
Finish

Hot dip galvanised to BS 729. Root is bitumen protected.

Bracket

Fabricated from mild steel, hot dip galvanised finish.

D5PT



RANGE

Cat. No.		Weight (kg)
D 5PT	5 metre post top column	32
D 505	Column with side entry bracket 34mm dia. entry	34.8
SD-D 5H	Spare door for D 5 column	
SK-D 5H	Spare key for D 5 column	

COLUMNS

ALUMINIUM

SILVERLINE

SPECIFICATION

Compliance: Designed in accordance with BS 5649 Parts 1-9.

Column

One-piece 5 metre column manufactured from special aluminium alloy for high stability and strength. Column access via flush-fitting door. Base compartment has wooden backboard for mounting of control gear.

Finish

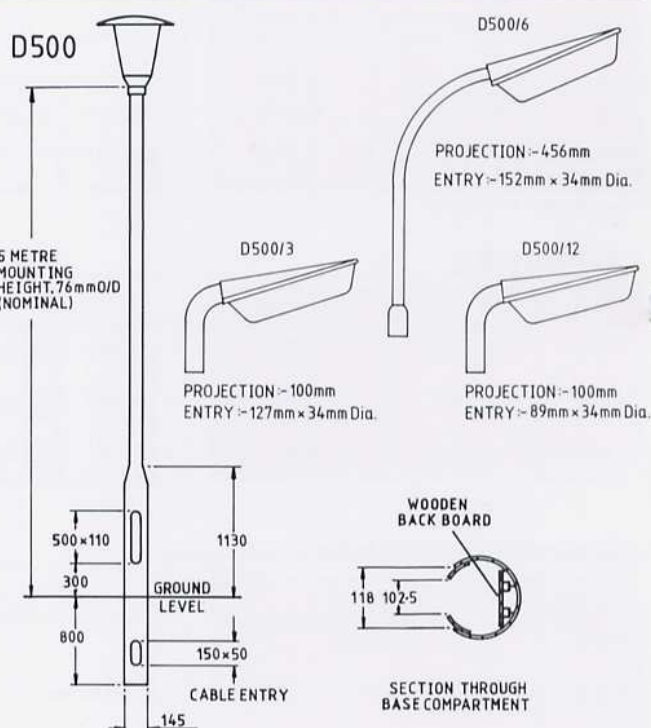
Aluminium column has satin appearance. Maintenance free, no painting required. Root is epoxy-resin protected. Cable entry slot fitted with plastic anti-chaff rim.

Brackets

D 500/3 & D 500/12 - Cast aluminium.

D 500/6 - fabricated from aluminium.

D500

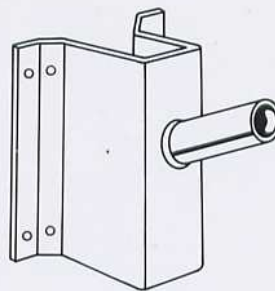


RANGE

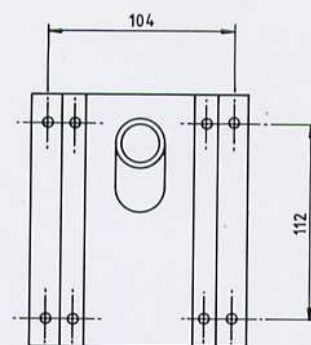
Cat. No.		Weight (kg)
D 500	5 metre post top column	15
D 500/3	Column with side entry bracket 127mm x 34mm dia. entry	16.4
D 500/6	Column with side entry bracket 152mm x 34mm dia. entry	17.1
D 500/12	Column with side entry bracket 89mm x 34mm dia. entry	16.4
SD-D 500	Spare door for D 500 column	
SK-D 500	Spare key for D 500 column	

**PROTECT-A-BEAM**

IP.54



RS 2615 wall bracket,
34mm (1" BSP) spigot.
For flat or corner mounting.

8 holes \varnothing 6.2mm

SECURITY LIGHTING

Protect-a-Beam packs are suitable for a wide range of security lighting applications.

Each pack contains:

Lantern fully wired with integral control gear.
Photocell.
Multi-position bracket.
Lamp.
Fixing screws/wall plugs.

Protect-a-Beam 35:

Supplied with a 35w SOX lamp as standard.
For full lantern specification see GR 526/II on page 7.

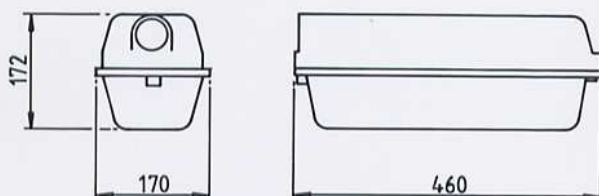
Protect-a-Beam 55:

Supplied with a 55w SOX lamp as standard.
For full lantern specification see GR 551 data on page 6.

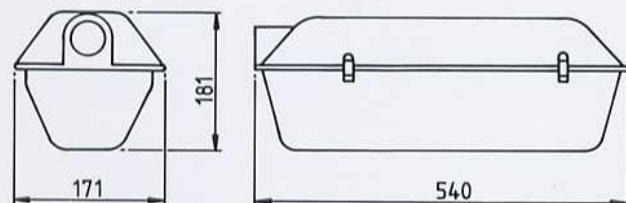
Protect-a-Beam 70:

Supplied with a 70w SON lamp.
For full lantern specification see GR 526/II data on page 7.

PB 35 & PB 70



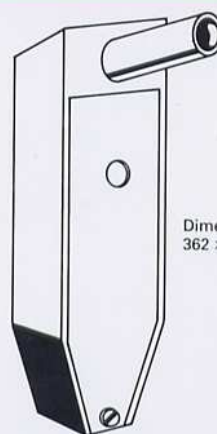
PB 55



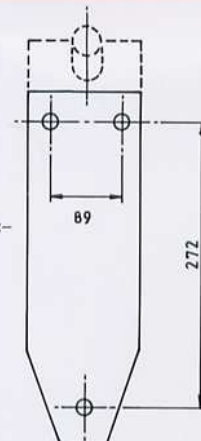
RANGE

Cat. No.	Lamp Type	Integral/ Remote	Lampholder	Weight (kg)	Windage (m ²)	Power Factor	Line Current	Total Watts
PB 35	35w SOX	I	2 pin BC	3.57	0.06	0.85	0.21	44
	26w SOX-E					0.90	0.15	35
PB 55	55w SOX	I	2 pin BC	3.80	0.087	0.85	0.31	64
	36w SOX-E					0.90	0.21	45
PB 70	70w SON	I	ES	3.60	0.06	0.92	0.38	85

WALL BRACKETS

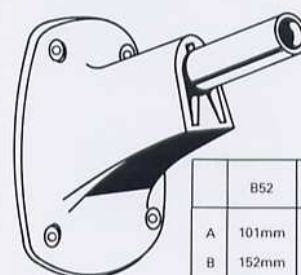


Dimensions inside box:-
362 x 123mm

3 holes \varnothing 10.5mm

HW 1258 wall bracket with
integral control gear box.
34mm (1" BSP) spigot.

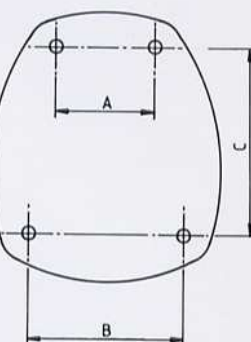
HW 1258/SB
Optional steel backplate
for fixing to wooden posts.



B 52 wall bracket,
42mm (1 1/4" BSP) spigot.

B 53 wall bracket,
34mm (1" BSP) spigot.

	B52	B53
A	101mm	101mm
B	152mm	101mm
C	166mm	132mm

4 holes \varnothing 10.2mm

RANGE

Cat. No.		Weight (kg)
RS 2615	Cast aluminium wall bracket 34mm (1" BSP) spigot.	0.38
HW 1258	Cast aluminium wall bracket for integral control gear, 34mm (1" BSP) spigot.	4.55
HW 1258SB	Optional steel backplate for fixing HW 1258 Wall bracket to wooden posts.	
B 52	Cast aluminium wall bracket 42mm (1 1/4" BSP) spigot.	3.10
B 53	Cast aluminium wall bracket 34mm (1" BSP) spigot.	1.35