

# **SIDE ROAD**

**Secondary and minor  
road lighting in urban  
and rural areas  
Side & Top Entry  
Semi Cut Off  
Cut Off**

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Ware, Herts SG12 9TA  
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**Phosco**  
**L I G H T I N G**



# SIDE ENTRY SOX LANTERNS

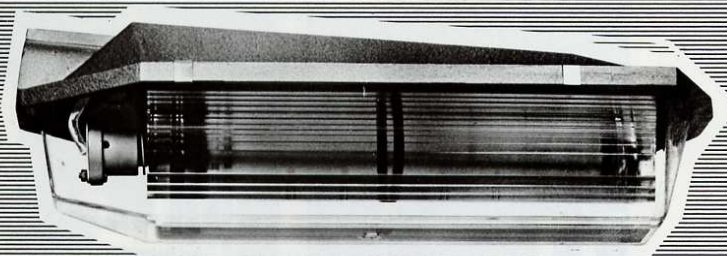
For Gp. B Roadlighting

**18W -35W -55W SOX;  
26W -36W SOX-E**

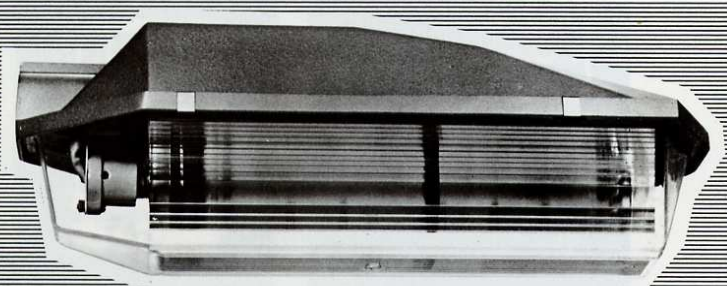
 **BS4533 SEC, 102.3. I.P. 54**

## Specification

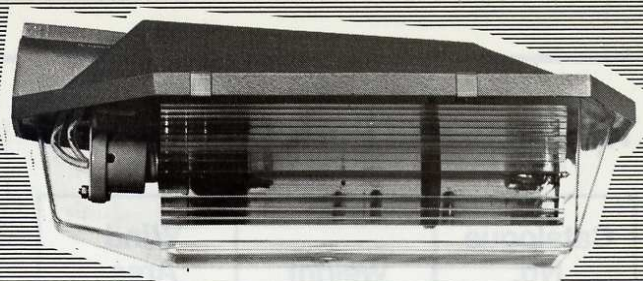
- Die Cast LM6 aluminium/silicon alloy canopy
- Vandal resistant D.R. Acrylic refractor bowl
- Stainless steel hinges and catches
- Durable weatherproof gaskets
- Ceramic B.C. lampholder and support hook
- Zinc-steel hinged gear tray
- Nylon terminal block. Earth clamp



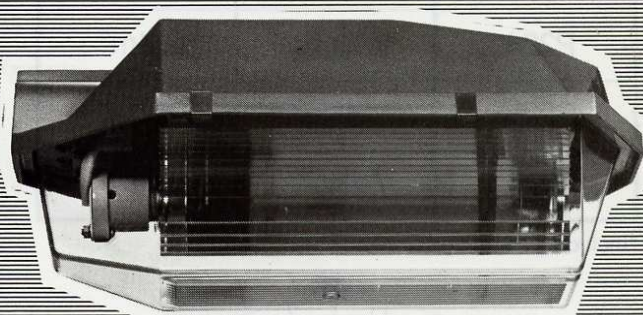
**P224** without control gear



**P226** with built-in control gear



**P223** without control gear



**P225** with built-in control gear

## Standard Finish:

Unpainted canopy; white stove enamelled interior

## Optional Finish:

Canopy finished zinc chromate primer and stove enamel grey

## Mounting:

Side entry for 34 mm  $\varnothing$  x 76 mm spigot secured by two socket head screws

Recommended mounting height  
5/6 metres

Average spacing/height ratio 6:1

## Ordering Detail:

Lamp Size: 35W SOX; 18W-26W SOX-E  
P223 — remote control gear  
P225 — control gear fitted in hood

Lamp Size: 55W SOX; 36W SOX-E  
P224 — remote control gear  
P226 — control gear fitted in hood

Unless otherwise requested Philips, Thorn, Osram — GEC or Parry control gear is supplied; lamps if required will be Philips, Thorn or Osram-GEC. If Nema socket required add suffix PC, if hole for 2 part or miniature cell required add suffix H.

**Top Entry:** See separate leaflet P280/3

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**P223 P224**

**P225 P226**

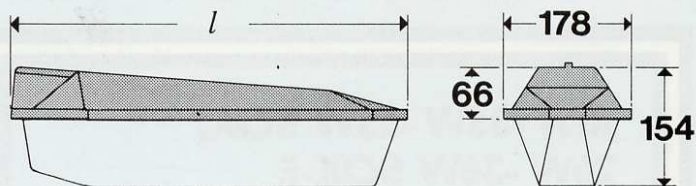


## Technical and Performance Data

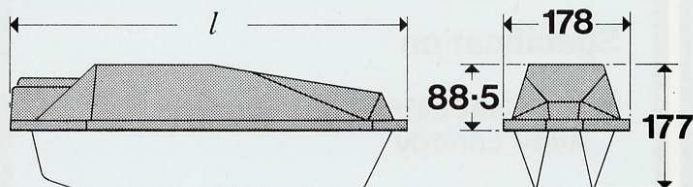
Catalogue No.	Weight	Wind Area
P223	2.25Kg	.054m <sup>2</sup>
P224	2.72Kg	.061m <sup>2</sup>
P225	7.14Kg*	.065m <sup>2</sup>
P226	7.4Kg*	.081m <sup>2</sup>

\*Including control gear.

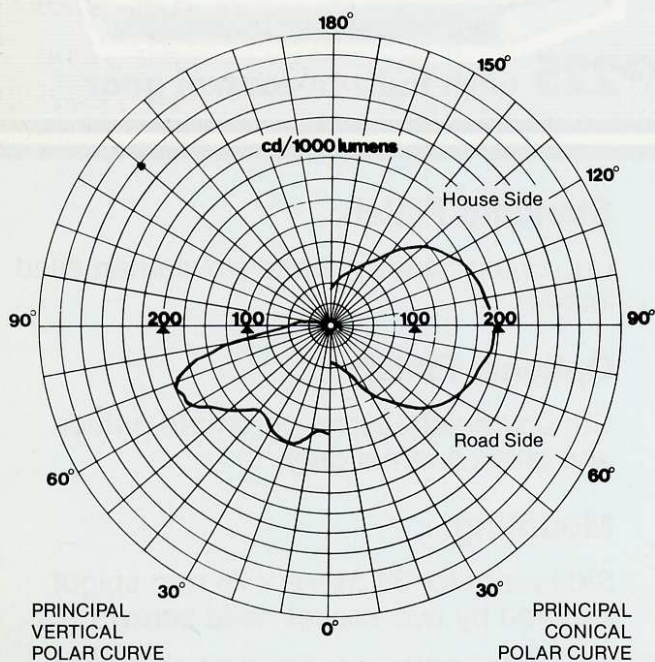
P223  $l = 421$   
P224  $l = 536$



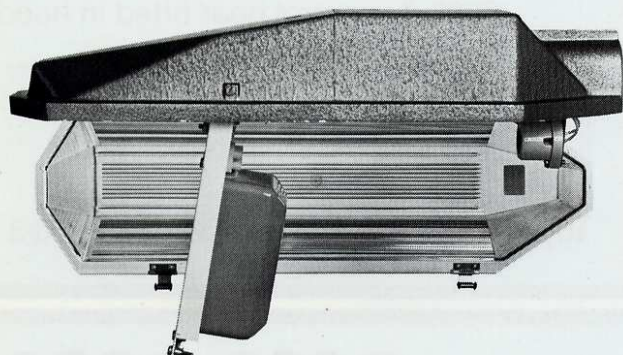
P225  $l = 421$   
P226  $l = 536$



Dimensions in Millimetres



Downward light output ratio .....0.7  
Total light output ratio .....0.8  
Upper limit of beam .....74°  
Lower limit of beam .....55°  
Peak intensity .....197 cd/klm  
Maximum intensity 0°  
to 30° zone .....150 cd/klm  
Intensity at horizontal in vertical plane  
parallel with street axis .....55 cd/klm



P226 lantern with the bowl hinged down, lamp removed and gear tray lowered.



P226 lantern on a C.U. octagonal concrete column.



# SIDE ROAD SIDE ENTRY LANTERNS

The Polycarbonate refractor bowl is the key feature of this range of luminaires designed for small discharge lamps.

## SPECIFICATION

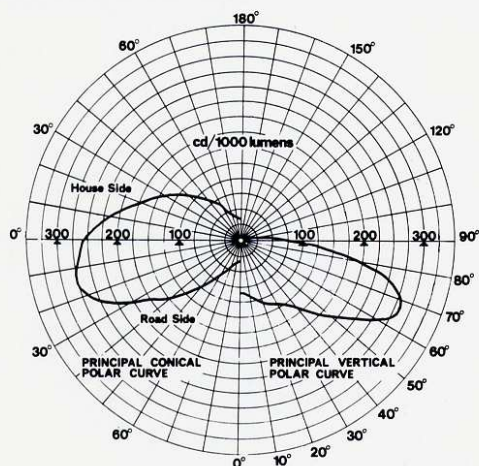
Body: Cast Aluminium (LM6)  
Refractor Bowl: Vandal resistant Polycarbonate.  
Hinged Gear Tray.  
Finish: Natural Aluminium (Colours to order).  
IP Classification: IP54  
Spigot: 34mm x 80mm

## PERFORMANCE DATA

This range of lanterns meets the appropriate requirements of BS4533: Part 2: Section 2.7 and BS5489: Part 3 for Group B5/6 installations.

### Light distribution

Total light output ratio ..... 0.69  
Upper limit of beam ..... 74°  
Lower limit of beam ..... 60°  
Peak intensity ..... 288 cd/klm  
Maximum intensity 0° to 30° zone ..... 123 cd/klm  
Intensity at horizontal in vertical plane parallel to street axis ..... 76 cd/klm



Typical Polar diagram for SON lamp.

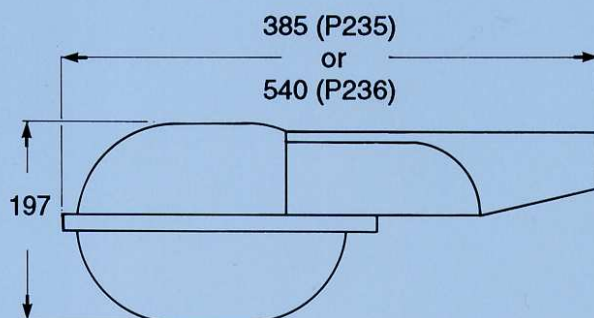
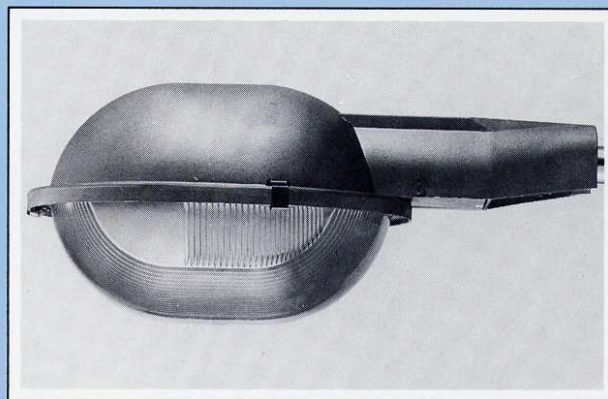


FM 13959

**Phosco**  
LIGHTING

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The right is reserved to change specifications without prior notice or public announcement.



Dimensions in mm

Weight: P236: 5.5Kg (with control gear) P235: 1.9Kg  
Projected Area: 0.08m<sup>2</sup> (P236 side view).

## ORDERING DETAILS

CATALOGUE No.	LAMPS
P235 Non gear enclosed ES or 3 pin BC (MBF) lampholder	50W 70W 110W 120W SON 50W 80W 125W MBF 75W 100W MBI
P236 gear enclosed ES or 3 pin BC (MBF) lampholder	50W 70W 110W SON 50W 80W 125W MBF 75W 100W MBI

Options: Photocell (Suffix Nema)  
Colour

**P235/6**



# DECORATIVE LANTERNS with Soffit Mounting Option

For Gp. B Roadlighting

**BS4533 SEC, 102.3.1.P.54 — P295/6  
1.P.44 — P297**

## SPECIFICATION

Circular frame — LM6-M alloy. Cover bowl clear acrylic plastic. Bowl retained by 3 stainless steel spring clips. Terminal block and earth terminal

### P295

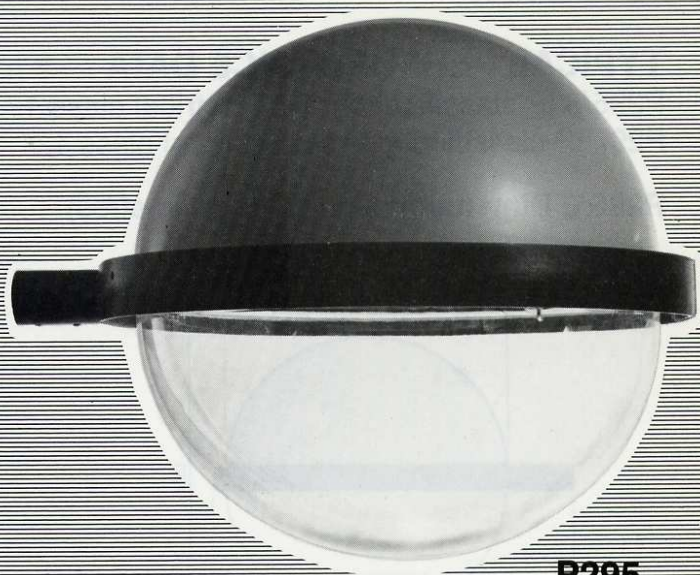
Canopy — resin-bonded glass fibre. Two chemically brightened and anodised aluminium reflectors.

### P296

Chemically brightened and anodised spun reflector with additional side reflectors. Central hole with opal acrylic plate in main spinning for upward light to allow a pleasing glow at night.

### P297

Body LM6-M alloy.



**P295**



**P296**



**P297  
SOFFIT**

## FIXING

P295/6 — 34 mm  $\phi$  x 80 mm side entry. P297 — soffit.

## ORDERING DETAIL

Type No.	Maximum Lamp Wattage and Type			
	SON	SOX	MBF	MBI
P295	250W	35W	250W	250W
P296	120W	35W	125W	100W
P297	120W	35W	125W	100W

Add suffix G if gear in hood required. (Gear in hood possible only with P296/7 versions.) Add suffix H if hole is required for miniature one or two part photocell.

## Finish

Ring:- Stove enamelled black.

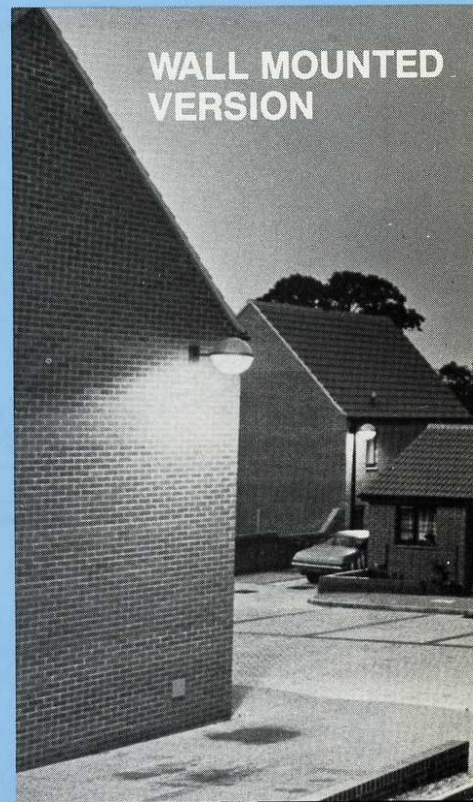
Upper canopy:

P295 — Grey GRP or other finish to order.

P296 — Opal or pin spot acrylic.

Bowl (all types) — Clear or opal acrylic;  
Pin spot DR acrylic.

## WALL MOUNTED VERSION



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# P295/6/7

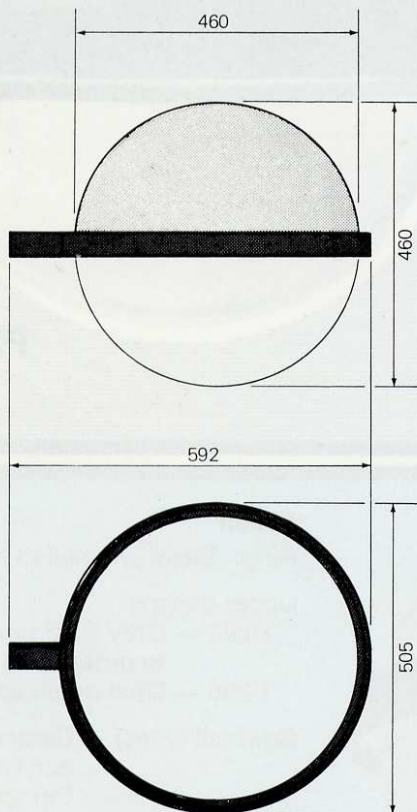


## TYPICAL PERFORMANCE DATA

P295/6 IP classification: 54 Electrical class 1.

P297 IP classification: 44 Electrical class 1.

### P295/6 Dimension (shown in millimetres)

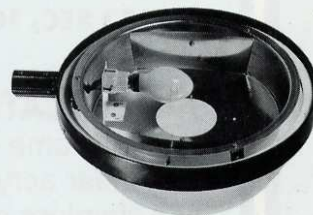


Projected area (P295/6): 0.178 M<sup>2</sup>

Weight (P295/6) excluding control gear: 6.5 Kg

### P296

(P295 has side reflectors only)



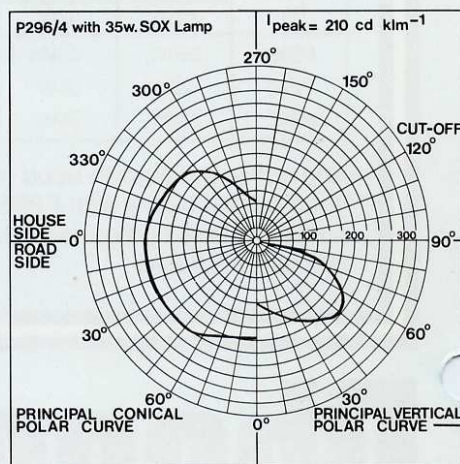
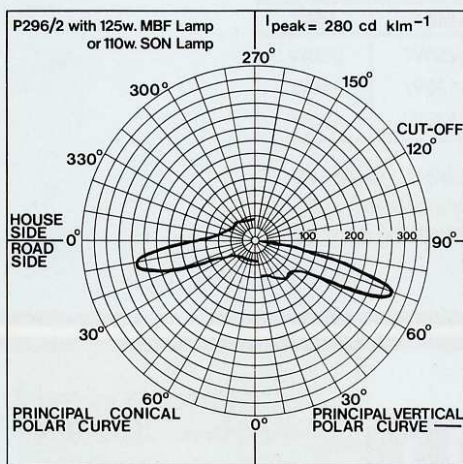
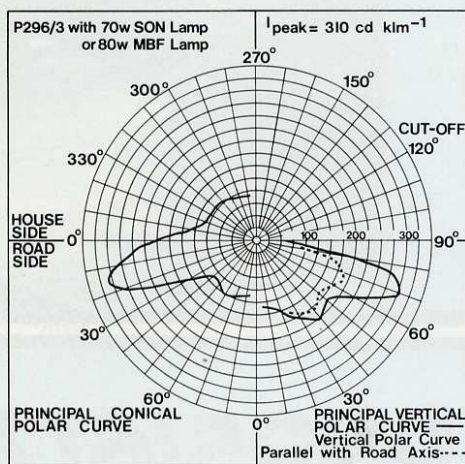
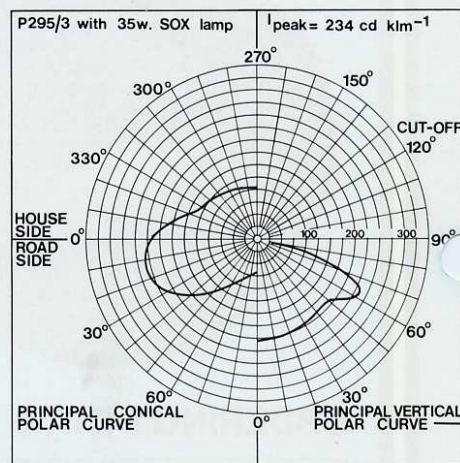
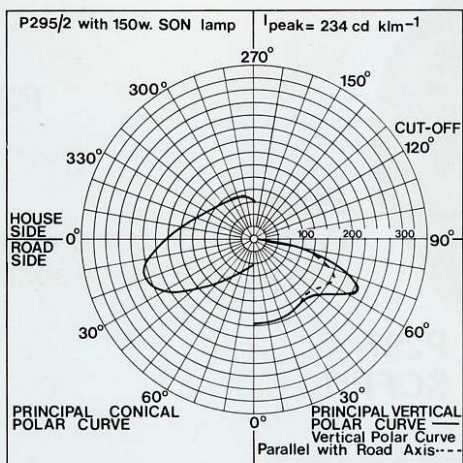
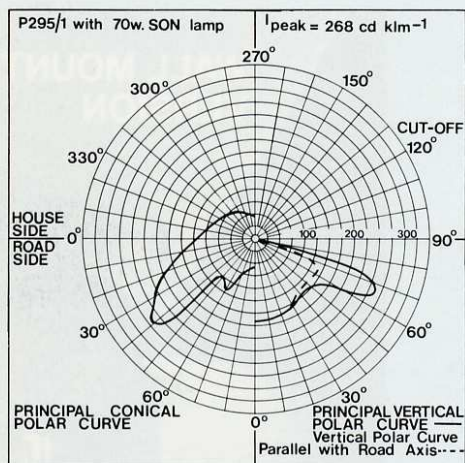
### P297

Depth below ceiling: 254mm  
Depth into ceiling: 90mm



### P295/6

Fixing by 3 Stainless Steel clips





# Cut-off Lantern with variable optics

## For Gp. B Roadlighting

### SPECIFICATION

This lantern is suitable for lighting areas where restriction of light at and above the horizontal is desirable. Typical situations are elevated roads where the mounting height is limited, residential areas, railway stations, industrial sites, car parks, etc. Pole top and side entry mounting.

### CONSTRUCTION

The canopy is of cast LM6-M alloy with a socket for side-entry mounting on 34 x 80mm spigot.

separate adaptor may be supplied for mounting one or two lanterns on a pole with 76 x 76mm spigot. A readily detachable control gear unit is provided internally suitable for 70/110 watt SON or 80/125 watt MBF lamps. The lantern is enclosed by a clear vandal-resistant acrylic cover attached to the canopy with stainless steel clips and hinges.

*Optical control is by two chemically brightened and anodised aluminium reflectors, producing asymmetric cut-off distribution. The reflectors may be set at three different positions to vary the direction of each of the two main beams from 0° to 25° in azimuth.*

A twist-lock socket for photo-cell may be provided in the top of the canopy when required.

I.P. Classification: IP44

### FINISH

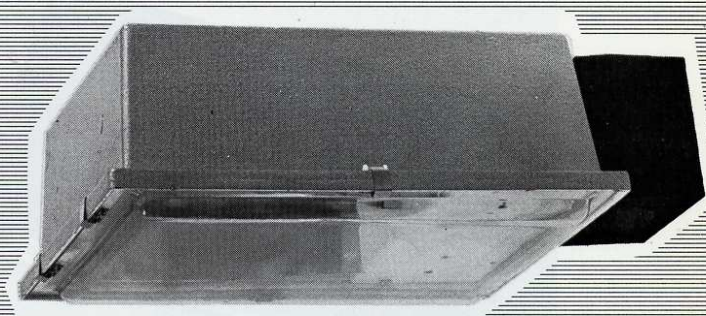
Stove enamelled grey outside, white inside.

Adaptors for pole top mounting on 76 x 76mm spigot.

### CATALOGUE No.

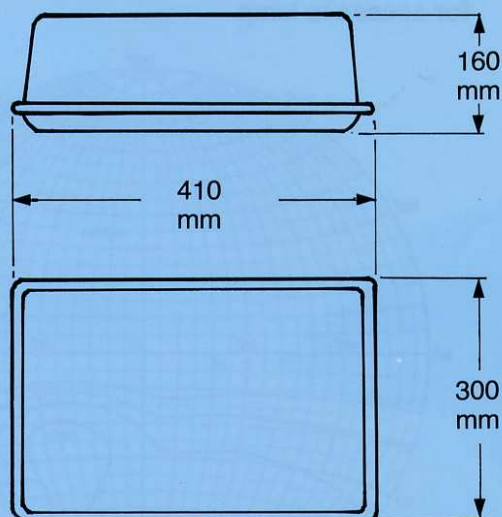
WB. 545 — with single arm 34 x 80mm for one lantern.

WB. 546 — with double arm 34 x 80mm for two lanterns.



**Also available: Soffit version**

**Also available: Flat polycarbonate cover**



CATALOGUE No.	LAMPHOLDER	LAMP
P392	E.S.	70/110 watt SON 80/125 watt MBF/U (ES Cap)
P392/1	3-slot B.C.	80/125 watt MBF/U (3-pin Cap)

Please add suffix PC to catalogue number if required with photo-cell socket. The type of lamp for which the control gear is required should also be stated e.g. P392/PC (70 watt SON)

Phosco Limited reserve the right to amend the design and/or specification without prior notice.

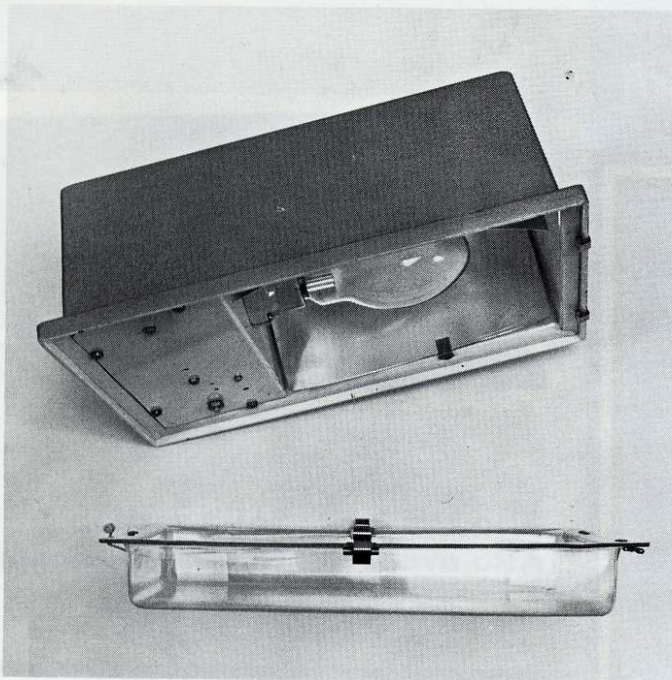
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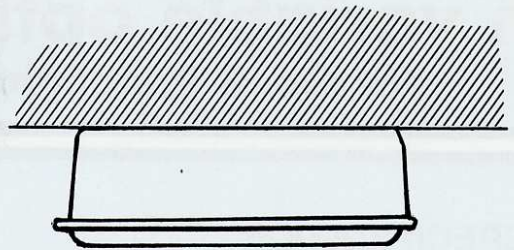
# P392

Printed by Graphic 4/88 Welwyn Garden City/Hertfordshire

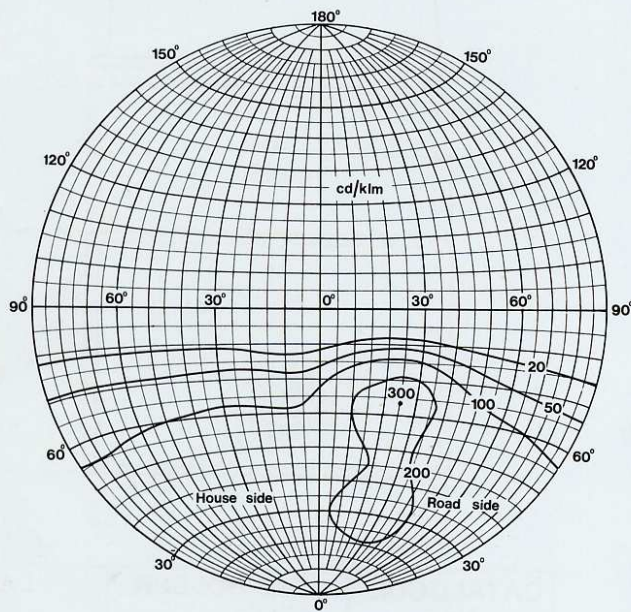




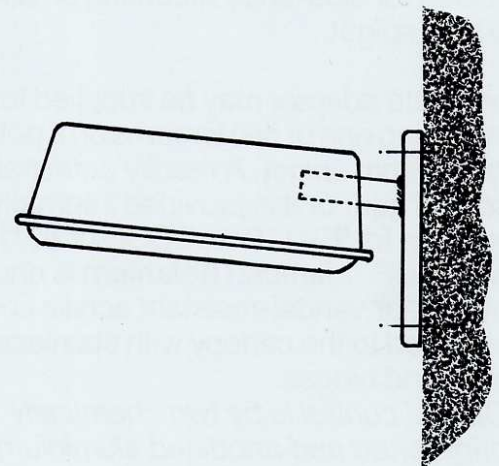
**P392 shown with cover removed  
for access to lamp**



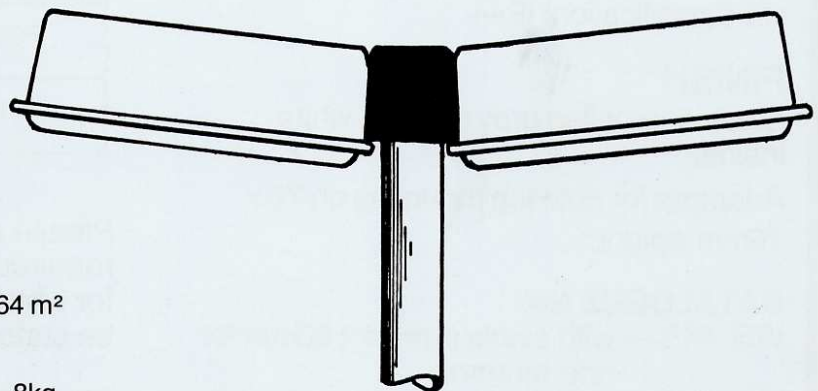
**Soffitt mounting**



**Light Distribution with  
70 watt. SON lamp**



**Lantern mounted on  
typical tubular bracket arm**



**Pole top double arm  
WB546**

<b>WIND AREA</b>	0.064 m <sup>2</sup>
<b>WEIGHT (inc. 70w SON control gear)</b>	8kg.
<b>DOWNWARD LIGHT OUTPUT RATIO</b>	0.73