

TRADITIONAL

**Decorative, amenity
and side road lighting
Conservation Areas**

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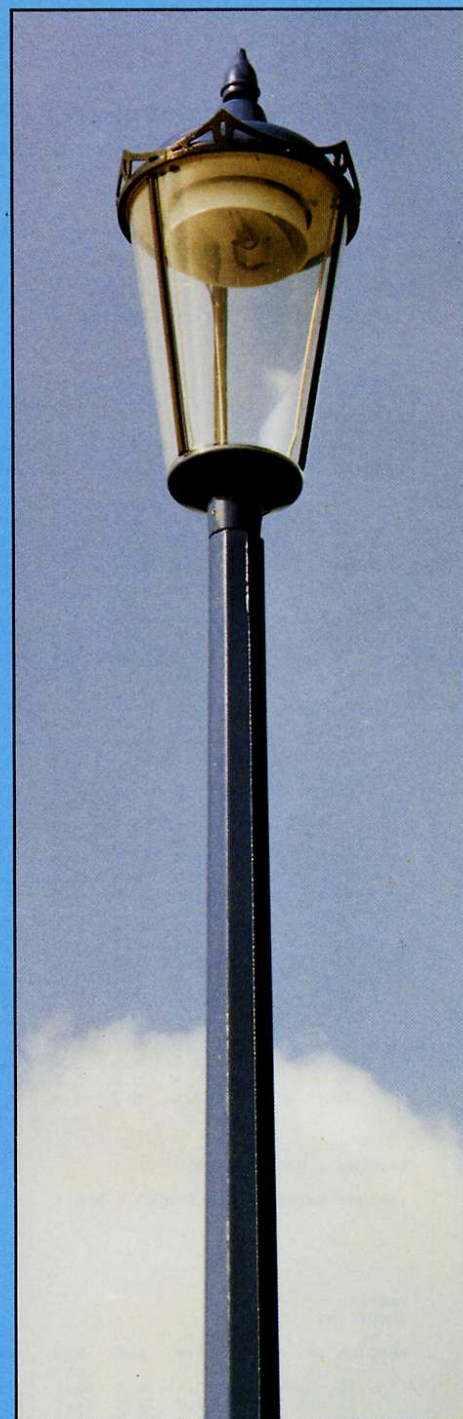
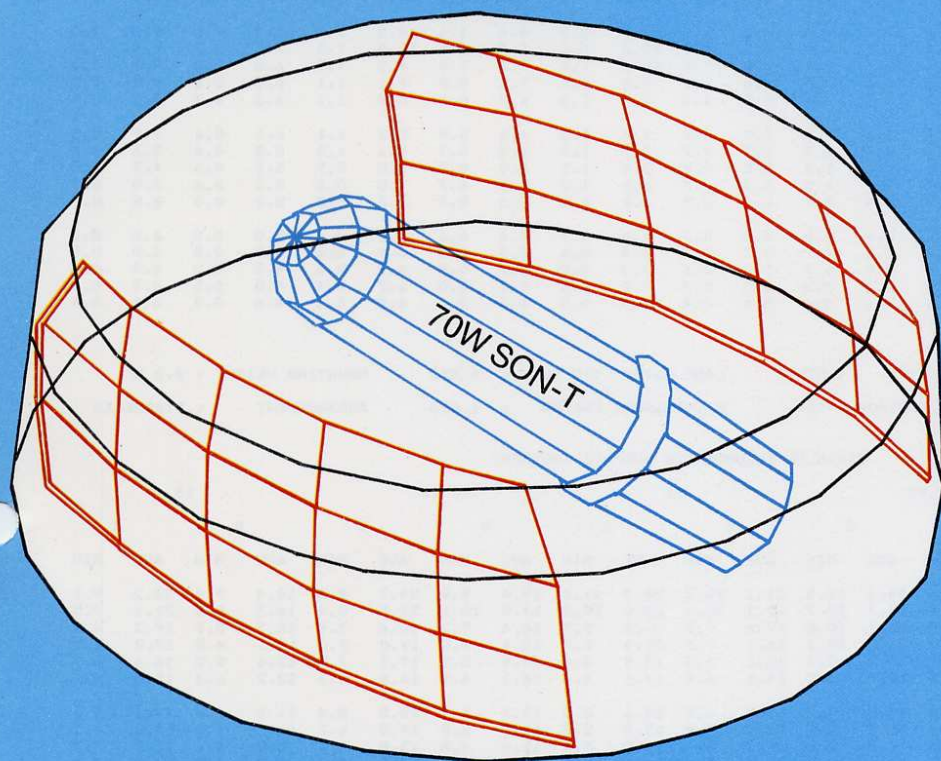
Phosco
L I G H T I N G

POST TOP PERFORMANCE

Phosco Post Top Lanterns now available with clear vandal resistant cones and reflector systems for 70W SON-T lamps to give the performance of a side entry lantern designed to meet the best of BS5489 (Part III).

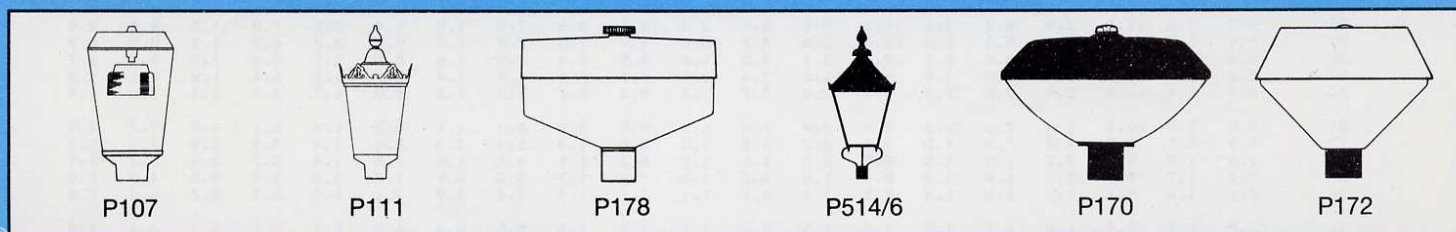
Sealed to IP54

D.L.O.R. > 0.75



Reflector version of P109 on reinstated concrete column with CU steel extension brackets to 6m and painted blue.

Suitable for:



CU
Phosco
LIGHTING

Charles House, Great Amwell, Ware, Herts. SG12 9TA. Tel: (0920) 462272. Fax (0920) 461370. Telex: 81398.

Decorative Post Top Lantern

BS 4533 SEC 102.3 IP23
Electrical Rating: Class 1.

Large scale Georgian style lantern to recapture the elegance of the period in areas suitable for restoration.

Specification

- For a variety of discharge lamps up to 250 W.
- GRP Canopy and Ornamental Corona.
- Base casting of LM6-M aluminium alloy.
- DR acrylic vandal resistant cone.
- White stove-enamelled aluminium internal reflector.
- (Option): internal dome refractor(s) for non-axial asymmetric light distribution.

For access to the interior of the lantern the top final is unscrewed and the canopy removed. The lampholder assembly may then be lifted out, a plug and socket being provided for easy disconnection from the supply.

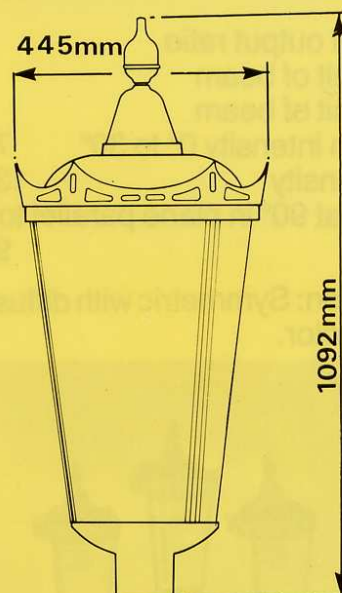
Finish

Stove enamel black. Other colours and gilt decoration available on application.

Dimensions

| | |
|------------------|--------------------|
| Diameter at base | 279mm |
| Projected area | 0.33m ² |
| Weight | 11kg |
| Fixing (spigot) | 76mm x 76mm |

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



| Catalogue No. | Lampholder | Max Lamp Wattage and Type |
|---------------|-------------|---------------------------|
| P109/1 | BC | 150w GLS |
| P109/2 | BC (3-slot) | 125w MBF |
| P109/3 | ES | 125w MBF 110w SON |
| P109/4 | GES | 250w MBF 250w SON |
| P109/5 | BI-pin | 2 or 4 x 20w or 40w MCFE |
| P109/55 | BC | 55w SOX |

Add Suffix RT for Transparent cone with Refractor/s.

Add Suffix D for Diffusing cone.

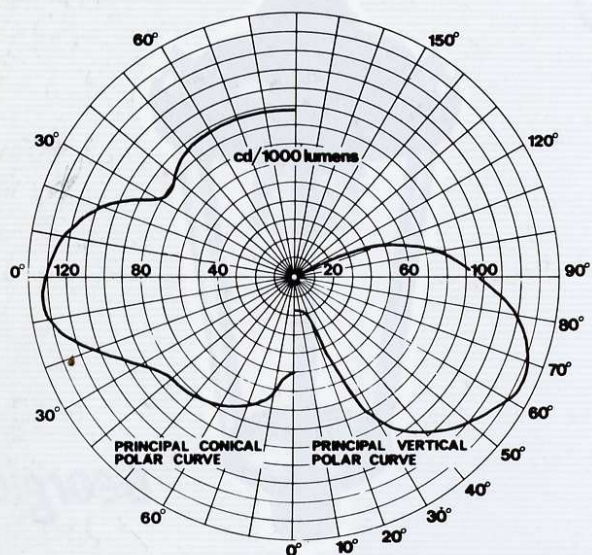
Phosco

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P109/10

Printed by Graphic 9/86 Welwyn Garden City/Hertfordshire

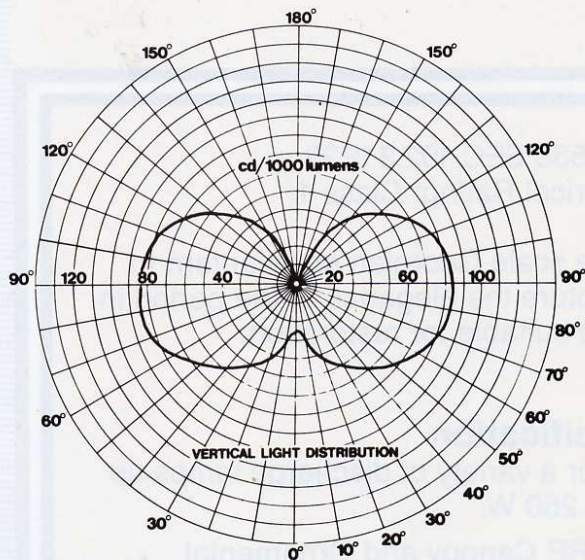
PERFORMANCE DATA



MBF (125w) SON (150w)

| | |
|---|------------|
| Total light output ratio | 0.80 |
| Upper limit of beam | 80° |
| Lower limit of beam | 51° |
| Maximum intensity 0° to 30° | 70 cd/klm |
| Peak intensity | 135 cd/klm |
| Intensity at 90° in plane parallel to street axis | 98 cd/klm |

Distribution: Symmetric with diffusing cone. Non-axial asymmetric with transparent cone and refractor.



Tubular Fluorescent 4x2' 20w

| | |
|--------------------------|-----------|
| Total light output ratio | 0.74 |
| Maximum intensity | 86 cd/klm |



A triple array of Phosco P109 lanterns.



Phosco P109 lantern on a CU Fluted Column in Fitzroy Square, London. Photograph by courtesy of The London Borough of Camden.

AMENITY/SIDE ROAD POST TOP LANTERN

A stylish period lantern designed for easy testing and maintenance with built in control gear and optional neon test facility and/or photocell

SPECIFICATION

A translucent cone of diffusing high density polythene is surmounted by a canopy, forming a single unit secured to the lantern base by special internal fasteners. The cone is removed by anti-clockwise rotation thus facilitating easy lantern cleaning and lamp replacement.

The lantern base is of cast aluminium/silicon alloy, grade LM6-M and incorporates a spigot cap suitable for mounting on a column or wall bracket secured by four stainless steel socket head screws.

The lampholder and necessary control gear are mounted in the lantern base. The electrical wiring from the lampholder and gear is connected via a shockproof plug and socket to a terminal block fixed to the lantern base.

In the event of faulty component this internal structure can be unplugged from the supply and removed after releasing two securing screws. A complete replacement gear tray can then be quickly fitted and reconnected.

The lantern can be supplied with a small photocell in the lantern base and a control unit complete with test switch mounted on the removable gear tray. Additional terminals on the plug and socket are provided for connecting the cell to the control unit.

Also available is a small neon indicator lamp connected across the lampholder terminals which glows only in the event of a lamp failure. A fault in the ballast or blown fuse will not cause the indicator to glow, thus assisting a deciding whether it is necessary to replace the lamp or the control gear unit in the event of a failure.

(Note: The indicator lamp is not suitable for lanterns with 35W SOX lamps.)

I.P. Classification: IP54

The P350 lantern will meet the appropriate requirements of BS 4533 Part 201.3 and BS 5489: Part 3 group B5/6 installations. Spigot: 76mm

STANDARD FINISH

Black powder coating

Options: Colour, Neon indicator, Photocell.

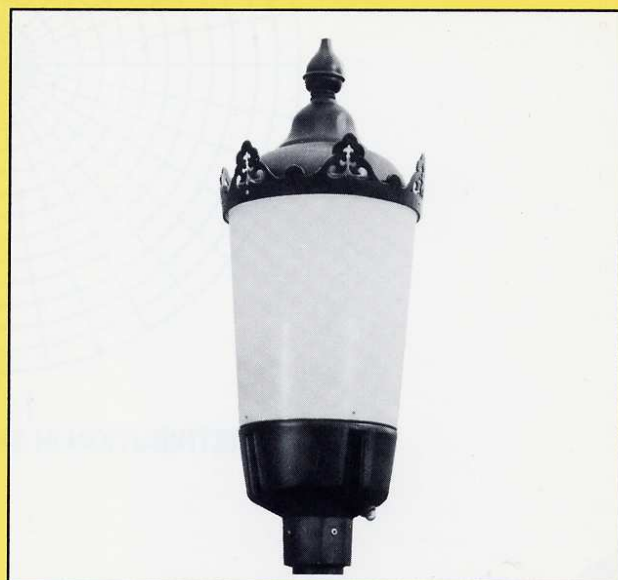
NOTE: Please add suffix 'N' to the catalogue number if a neon indicator to detect lamp failure is required, and suffix 'PC' for inclusion of photocell switch control.

EXAMPLE: P350/1/N/PC

Phosco
LIGHTING

Phosco Lighting,
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Great Amwell, Ware,
Herts, SG12 9TA
Tel: (0920) 462272
Fax: (0920) 461370

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9/92



| CATALOGUE No. | LAMP AND HOLDER | WEIGHT inc. control gear Kg |
|---------------|-------------------------|-----------------------------|
| P350/1 | 110W SON max. ES | 7.2 |
| P350/2 | 150W SON max. GES | 9.3 |
| P350/3 | 125W MBF max. BC 3 slot | 7.1 |
| P350/5 | 35W SOX max. BC | 6.8 |

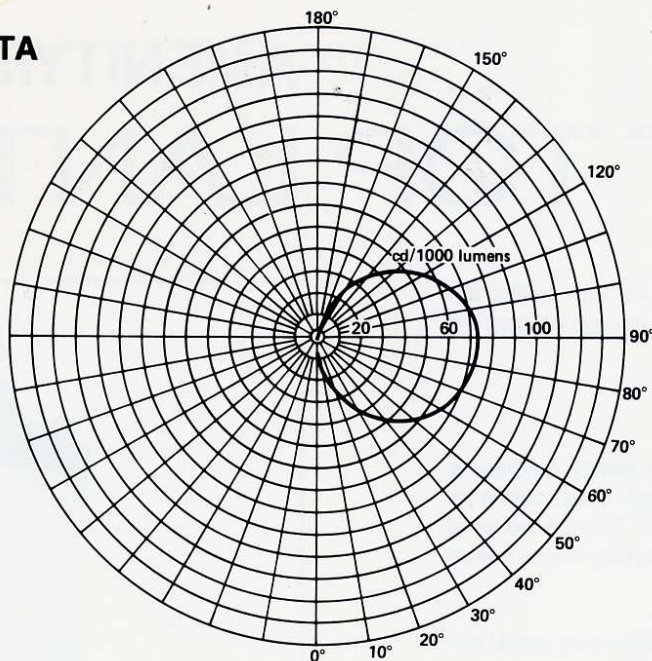
Projected area: 0.15m²



FM 13959

P350

PERFORMANCE DATA



LIGHT DISTRIBUTION IN THE VERTICAL PLANE - MBF/SON

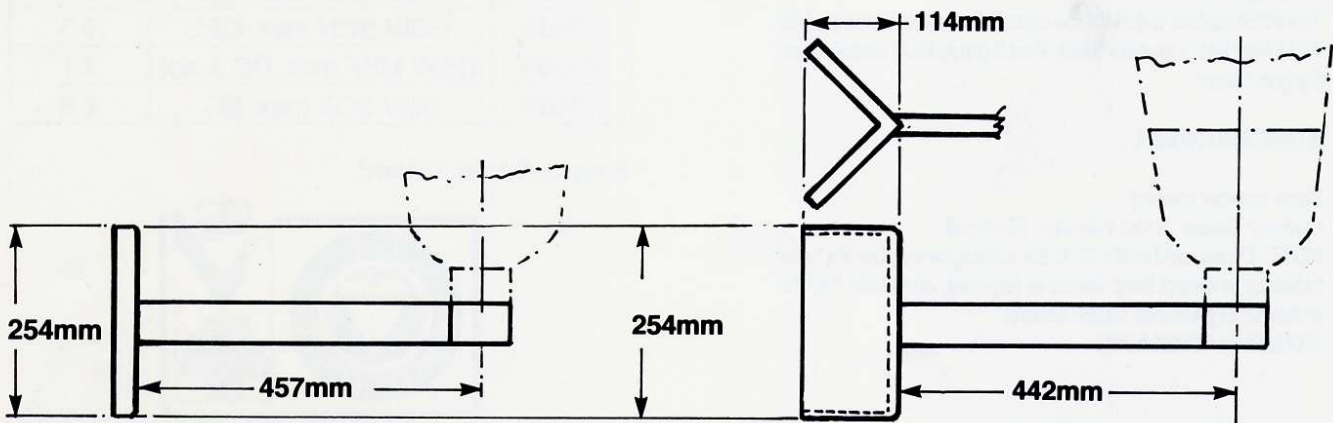


Light distribution - symmetric
Total light output ratio: 0.68

The P350 lantern with diffuser and canopy removed from the base and control gear unit.

WALL MOUNTING BRACKETS

Matt black stove enamel finish, fixing via 4 x 3/8" whitworth rawbolts.



WB500 - Flat wall
Fixing on separate wall plate at 153mm centre.

WB501 - Corner wall
Fixing via two bolts on each wall face vertical distance apart: 224mm at 100mm from corner of wall.

Decorative Post Top Lantern

BS-4533 SEC 102.3
I.P.23 Electrical Class 1
I.P.54 available to order

Period lantern for conservation areas

Specification

- For a variety of discharge lamps up to 150 W.
- Spun aluminium canopy.
- Ornamental column.
- Base casting of LM6-M aluminium alloy.
- D.R. acrylic vandal resistant cone.
- (Option): internal dome refractor(s) non-axial asymmetric light distribution.

For access to the interior the top finial is unscrewed and the canopy removed.

Finish

Stove enamel Black. Other colours and gilt decoration available on application.

NOTE: The lanterns listed in the table are without refractors and have D.R. vandal resistant acrylic plastic cones to provide symmetrical light distribution. For identification when ordering variations from these basic designs please add suffixes to the catalogue numbers as follows.

With transparent D.R. acrylic —
vandal resistant plastic cone
With dome refractor and
transparent cone
With built-in control gear
With 38mm hole for 2-part —
photo-cell
Top entry version

T
RT
G
H
TE

Example: P111/2/RT/G/H



Promenade



All dimensions in millimetres

| CATALOGUE NO. | LAMP HOLDER | MAX LAMP WATTAGE AND TYPE (• = GEAR IN HEAD OPTION) |
|---------------|-------------|--|
| P111/1 | BC | 150w GLS |
| P111/2 | BC (3-slot) | 125w MBF • |
| P111/3 | ES | 125w MBF • 120w SON • 200w GLS 100w MBI • |
| P111/4 | BC | 35w SQX |
| P111/5 | GES | 150w SON |

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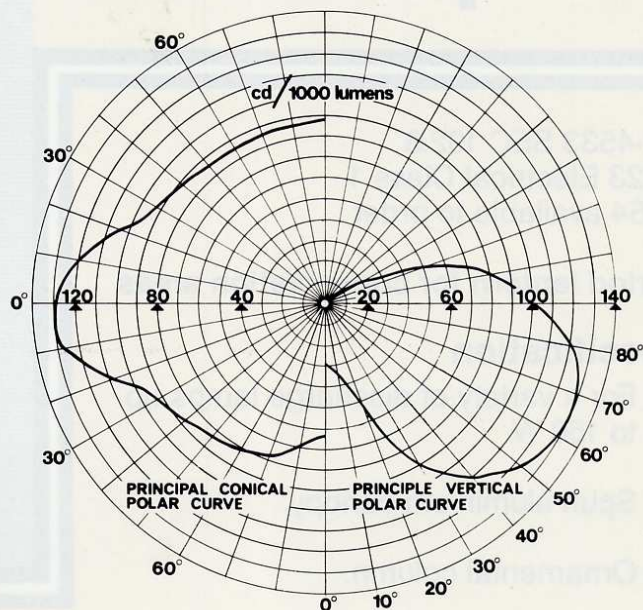
P111

Printed by Graphic 9/86 Welwyn Garden City/Hertfordshire



Photograph shows a P111 lantern on a C.U. Limited's Lightweight 5 metre steel column at Trumpington, Cambridge. Photograph by courtesy of R. Lacey Esq., OBE., FICE., FIMunE., County Surveyor, City of Cambridge.

PERFORMANCE DATA



Polar diagram for 125w MBF or 110w SON in P111/2/RT.

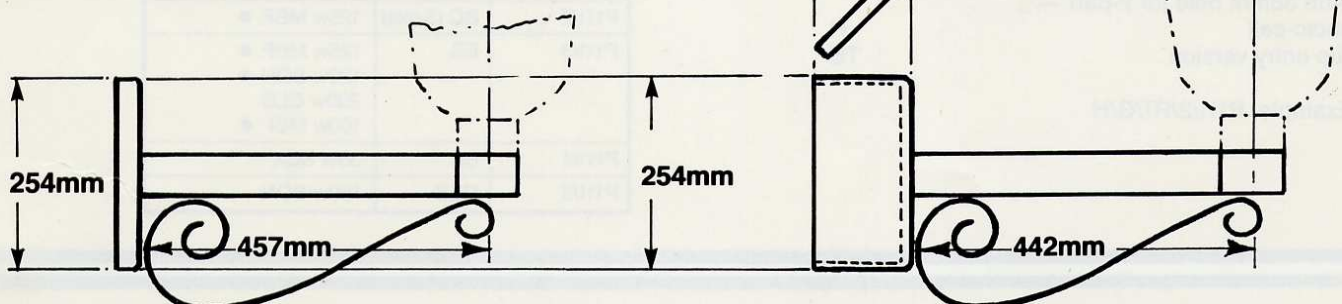
Distribution: Symmetrical without refractor
Non-axial asymmetrical with refractor and transparent cone.

Total light output ratio.....0.71
Upper limit of beam.....81°
Lower limit of beam.....45°
Peak intensity.....130 cd/klm
Maximum intensity in 0°-30° zone...89 cd/klm
Intensity at horizontal in vertical plane parallel to street axis.....96 cd/klm

Top Entry version-P111/TE

WALL MOUNTING BRACKETS

Matt black stove enamel finish, fixing via 4 x 3/8" whitworth rawlbolts.



WB500 — (Ornamental) — Flat wall
Fixing on separate wall plate at 153mm centre

WB501 — (Ornamental) — Corner wall
Fixing via two bolts on each wall face vertical distance apart 224mm at 100mm from corner of wall

AMENITY / MAIN ROAD

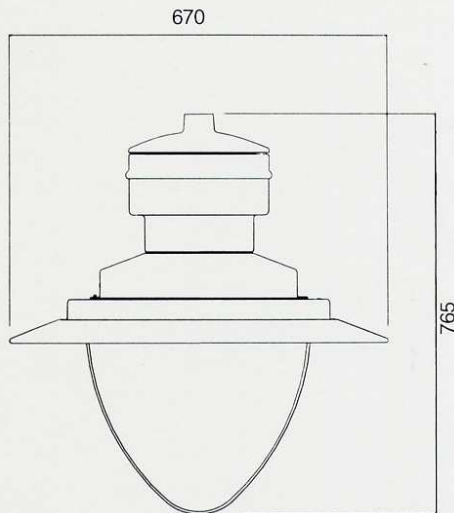
TRADITIONAL LANTERN

The P510 'Boulevard' is a Traditional Victorian style top entry lantern with variable optics. P510 complete with the requirements of BS4533 Part 2 Section 2.7 and provides a cut-off or LTI distribution.

SPECIFICATION

I.P. Classification: 54

Body: Spun S.I.C. aluminium.
Bowl: Vandal Resistant D.R. Acrylic.
Lamp holder: G.E.S.
Fixings: 1" BSP top entry.
Lamp types: 100W, 150W, 250W, 400W SON/T, 250W, 400W MBI.
Standard finish: Black powder coating
Options: Colour choice, control gear in body, miniature photocell, post top version.



All dimensions in millimetres

Weight (kg) (Without Control Gear): 14.5 kg
Projected Area (m²): 0.236

Phosco
LIGHTING

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PHOTOMETRIC DATA

Downward light output ratio: 0.82
Peak intensity: 460 cd/klm
Upper limit of beam: 68 °
Lower limit of beam: 59 °
Full distribution details available in graphical format or on a 3 1/2" Phoscalc disk.



FM 13959

P510

AMENITY/SIDE ROAD

TRADITIONAL LANTERN

The P511 'Charleston' is a Traditional Victorian Post Top lantern with optics to meet the requirements of BS5489 Part 3 Group B5/6 installations.

SPECIFICATION

BS4533 SEC 102.3

I.P. Classification: 54

Body: Spun S.I.C.
aluminium with hinged cover.
Bowl: Vandal Resistant
D.R. Acrylic.
Lamp holder: E.S.
Fixings: 76mm Spigot or 1" BSP top
entry.

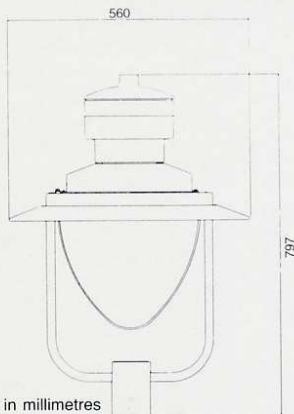
Supplied with stirrup for post top fixing.
Supplied without stirrup for top entry fixing.

Optics: Refractor or 70W SON/T
reflector

Lamp type: 80W, 125W MBF, 75W,
100W MBI, 50W, 70W,
110W, 120W SON

Standard finish: Black powder coating

Options: Colour choice,
control gear in body,
miniature photocell.



All dimensions in millimetres

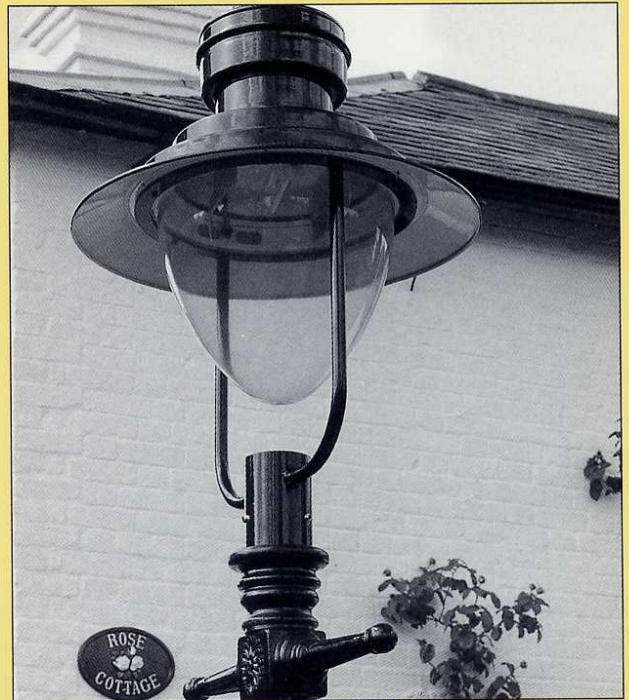
Weight (kg) (Without Control Gear): 5.48 (top entry)
7.78 (post top)

Projected Area (m²): 0.142 (top entry)
0.165 (post top)

Phosco
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PHOTOMETRIC DATA

Symmetric or Asymmetric distribution. Full details
available in graphical format or on 3 1/2" Phoscalc disk.



FM 13959

P511

Group B Post Top Lantern

The large and small Albert Square lanterns complement Phosco's well established range of period styles, the finial shape being common to all.

SPECIFICATION

The main frame and hood are made from N.S.4 aluminium finished powder coated black.

The steel frog is secured by 4 Brass Dome nuts and locking discs and the hood fixed to the main frame by 2 black nylon captive screws. All other screws and fittings are made from stainless steel.

The removable white reflector plate is complete with lampholder, refractor and wired control gear where appropriate. Albert Square lanterns are glazed with a clear vandal resistant D.R. Acrylic one piece unit. The base tray of the lantern contains a terminal block prewired to the reflector plate.

Weatherproof rating: IP23

Electrical rating: Class 1

Fixing: 76mm X 76mm spigot

Photocell control: Mini-cell detector in hood if required.

ORDERING DETAILS

| CAT NO | LAMP |
|--------|---|
| P514 | 150w. GLS (max) 125w. MBF (max) 110w. SON (max) |
| P516 | 150w. GLS (max) 125w. MBF (max) 150w. SON (max) |

Gear in hood not available for 150w. SON

State lamp to be used.

For built-in control gear add suffix G.

For photocell specify one or two part.



*Albert
Square*

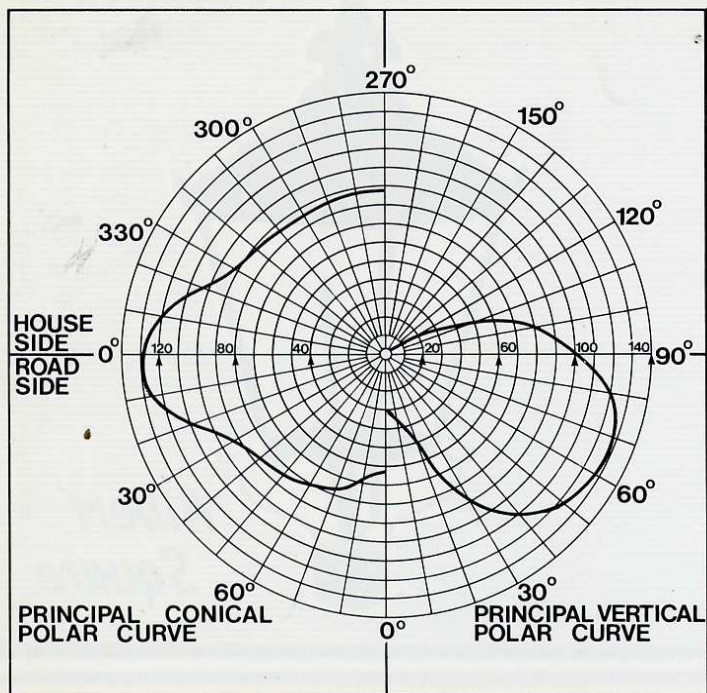


| | Weight Kg. | Projected Area m ² |
|------|------------|-------------------------------|
| P514 | 8.6 | 0.2 |
| P516 | 9.6 | 0.24 |

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LIGHTING

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**P514
P516**



PERFORMANCE DATA (PROVISIONAL)

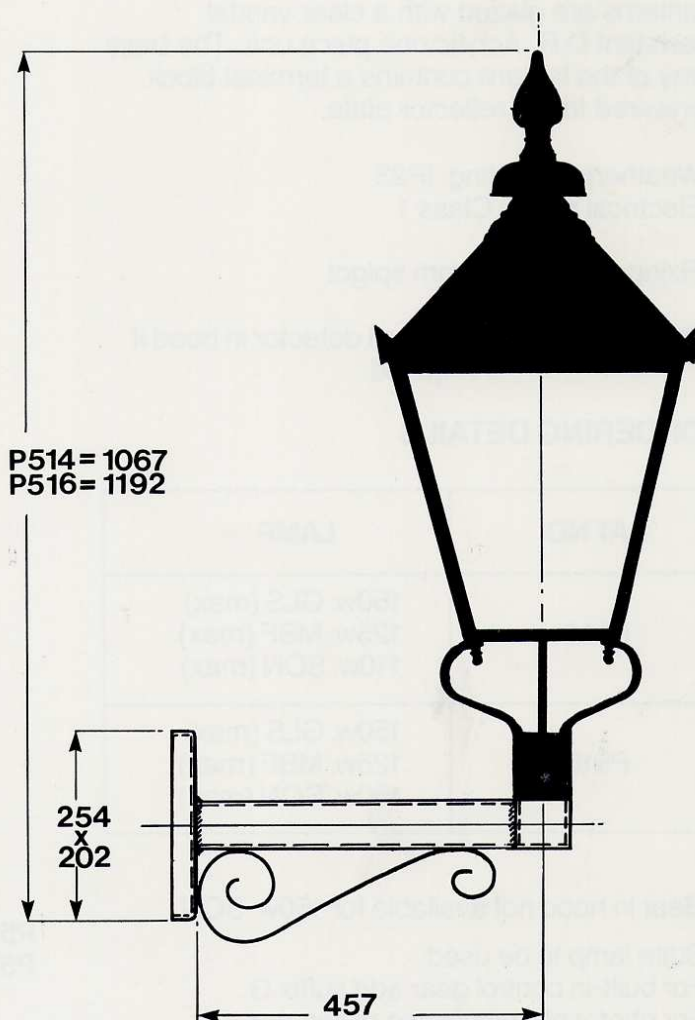
Distribution: Symmetrical without refractor.
Non-axial asymmetrical with refractor.

| | |
|---|------------|
| Total light output ratio | 0.75 |
| Upper limit of beam | 81° |
| Lower limit of beam | 45° |
| Peak intensity | 130 cd/klm |
| Maximum intensity in 0°—30° zone | 89 cd/klm |
| Intensity at horizontal in vertical plane parallel to street axis | 96 cd/klm |

Polar diagram for 125w MBF OR 110w SON in P514/6 with refractor.



The P516 Albert Square mounted on a CU 3.5 metre County column



BRACKETS

Ornamental mounting bracket available.
Material: Steel. Finish: Black. When ordering state: WB500 (ornamental).