

P700 Luminaire

An ultra high-efficiency minor-road luminaire for side entry or post top fixing. The P700 is purpose designed for the CDM lamp unlike its competitors which are adapted SON luminaires. The modern design is also suitable for any situations where white light is required at a minimal cost.

FEATURES

- High pressure die-cast LM6 aluminium body, grey-blue for low visual impact.
- Unique 'CDM' reflector will replace 35w SOX lamps and improve light levels without increasing power usage.
- Low glare injection-moulded Polycarbonate anti-vandal bowl.
- IP65 sealed lamp compartment with equal pressure gasket system for minimal cleaning.
- Integral gear on easily removable tray, accessible in one operation – for minimum stocks and quick scheme changes.
- Captive bowl, which will not detach accidentally, hangs vertically for easy access.

OPTIONS AND EXTRAS

- Miniature and NEMA photocell options.
- Flat glass option for full cut off use, near airports etc.
- Choice of RAL colours at extra cost – see inside back cover for details.
- Side entry or post top.
- Wall Bracket option. WB517
- Plug in gear tray for speedier change of control gear.
- Electronic control gear.

Recommended Applications: Minor roads, residential areas, car parks, industrial areas, footpaths, cycleways, railways, airports.

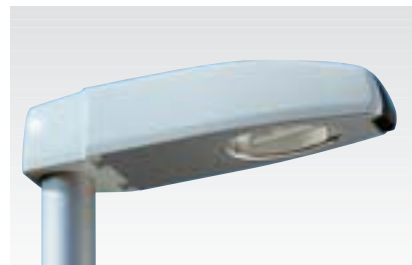
Suggested Column: 5-6m column for fixing on a side-entry bracket or post top spigot.

Wind area: 0.065m²

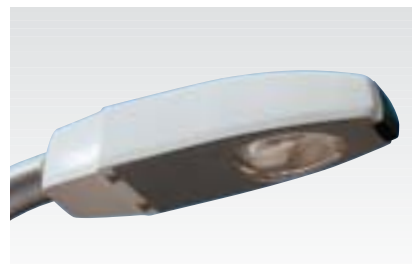
Spigot SE: 34mm x 95mm or 42mm x 95mm
PT: 76mm x 76mm

IP65 Optic

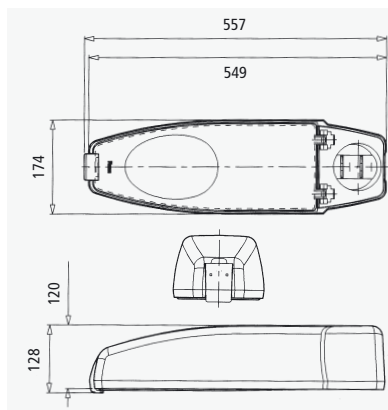
IP54 Gear



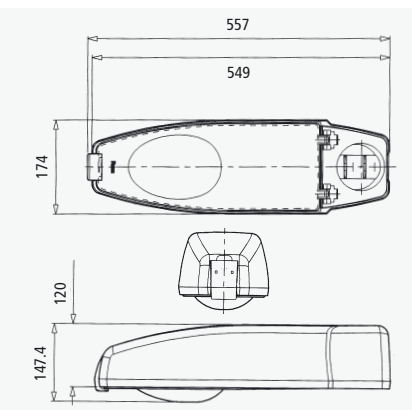
P700PT flat glass and post top spigot



P700SE dished bowl and side entry spigot



P700 flat glass, full cut-off



P700 dished bowl

Description	Product Number	Weight
Luminaire Reference	P700	3.8 kg
Side Entry spigot	SE	0.1 kg
Post Top spigot	PT	-
35w CDM control gear	35 CDMT	1.6 kg
50w SON/T control gear	50 SONT	1.6 kg
70w SON/T control gear	70 SONT	1.9 kg
70w CDM control gear	70 CDMTT	1.9 kg
Options		
NEMA photocell socket	NEMA	-
Miniature 1 part photocell	MINI	-
Flat glass	FCO	-
Plug in gear tray	PL	-
Electronic control gear	Electronic	-
Special colour RAL number	RAL	-
Prewired with suitable length of cable	EW	-

CDM REFLECTOR DESIGN

The P700 35w CDM lantern is purpose designed for the CDM lamp unlike its competitors that are merely adapted SON luminaires. In the early days of SON lighting the lamp manufacturers made their lamps elliptical with a fluorescent coating to ape the lamp characteristics of the MBFU lamp. This meant that a SON lamp could be fitted in a MBFU lantern without affecting its photometry unduly. The same cannot be done with CDM and SON/T lamps. CDM lamps fitted in SON luminaires can sometimes produce a peaky uneven light distribution, due to the CDM lamps more compact light source. This is particularly so with the modern one piece 'pot' optic, which can be more efficient than other reflector systems. Thus the P700 pot optic has been designed for the CDM lamp and is optimised for it.

FILTERSEALED

The P700 reflector is FILTERSEALED, a FILTERSEALED lantern is one which is sealed to IP65 and also incorporates an activated filter. As air passes through the filter it traps even microscopic traces of contaminants. The FILTERSEALING of lanterns has many advantages some of which are:

1. High performance due to an absence of deterioration to components within the luminaire.
2. The reflector and the inside of the bowl need not be cleaned thus minimising maintenance costs.
3. As the only deterioration in performance is from lamp ageing and pollution on the outside of the fitting, higher maintenance factors may be used than with many other luminaires.

The real advantage of a FILTERSEALED luminaire over a sealed unit becomes apparent on analysis of the effect of a leak, even one the size of a pin hole. The effect of such a leak is that air will be sucked in and out of the luminaire through the leak due to expansion and contraction of air as the fitting heats up and cools down. The FILTERSEALED luminaire will breathe in and out the same volume of air but the activated filter provides a low resistance flow path which the air will follow and thus be cleaned.



Before with SOX Lamp



After with P700CDM



Before with SOX Lamp



After with P700CDM