

# WINDSOR



## Product Features

This traditional Lantern is hand crafted in copper and retains the Victorian Heritage styling of the original, while offering two standards of ingress protection and depending on the application will meet current luminaire design standards. The Windsor lanterns with their superior optical control meet present day lighting standards across a wide range of applications and lamp combinations.

### Features

The Small, Medium and Large Windsor, have a one-piece glazing available in polycarbonate, as standard, with optional acrylic. This improves the Ingress protection rating of the fitting to IP65, this being dust and watertight, reducing maintenance and cleaning cycles.

The lanterns are mounted as standard, on galvanised powder coated frogs. The Sugg lantern differs from its competitors as the side ribs are reinforced with stainless steel rods thus spreading the weight and wind loading across the structure of the luminaire offering enhanced durability in service.

We are also able to fit windows in the tent canopy to fit cameras and floodlights for uplighting building facias or statues, etc.

### Control Gear

The gear is mounted in the tent canopy either side of the optic and in this way we can accommodate the full range of discharge lamps, and gear. We can now also include compact fluorescent lamps with gear. The table overleaf gives details relative to the individual options available.



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## Options

### Mounting Options

Frog mounted, galvanised steel, powder coated black polyester, for 76mm and 89mm shafts. Cast aluminium adaptor, powder coated black polyester for 76mm shafts. Both of these options are suitable for column and bracket mounting. Cradle fitted luminaires are also available for wall, column and corner mounting.

### Variations

#### Photocell

Single and two part electronic photocells are available as standard, including part night cells.

#### Finish variations

Natural polished copper, that will age in the environment to a deep natural patina. Polished and lacquered copper, other RAL colours can be accommodated but this is subject to quantity.

#### Lantern construction

Options of hinged lid with the IP65 version and/or an access door with the IP54 version.

## Materials

#### Lantern

Copper frame and spinning sets, double hinges for the lid and two locking mechanisms ensure easy access for re-lamping, gear and photo cell maintenance.

#### Glazing

Polycarbonate as standard, optional acrylic, structured acrylic, clear glass and etched glass.

#### Frog

Galvanised steel, which is powder coated, a cast aluminium closed frog is also available.

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## Typical Specification

Windsor **IP65 Medium** Lantern: Hand crafted copper frame with stainless steel reinforcing rods secured in frame corners for improved frog fixings. Glazing, **polycarbonate one-piece** which is secured in lantern frame. The Windsor medium lantern measures **420mm wide, 1124mm in height** (including the frog). The frog is galvanised then powder coated, and will accept a **76mm** column shaft. This will be secured to the spigot with a set of three equidistant Allen screws thus ensuring a secure fixing. The lantern is fitted with the **small road lighting** optic with integral gear, for a **100w HQI lamp**. The **E27** lampholder is positioned for a tubular lamp in a horizontal position: Lamp is not supplied.

A **part night photocell** is fitted in the tent canopy and is factory sealed to ensure the **IP65** rating is not compromised. Manufactured with stainless steel fixings. The lantern is painted in **black RAL 9005**, polyester wet paint, then stoved to ensure a durable high gloss finish is achieved.

Please note that items highlighted in bold can be changed using the options available.

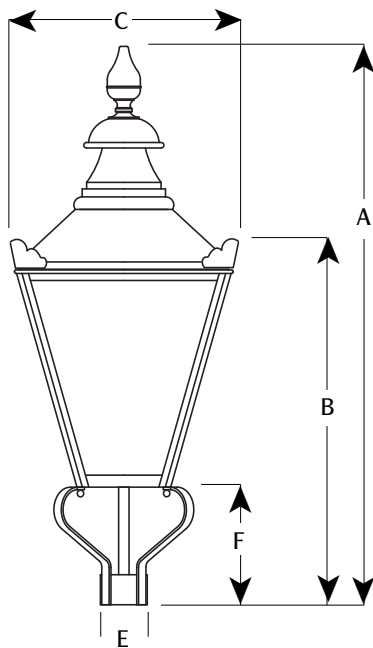
## Applications

Lighting for safety is an important requirement with any lighting scheme, but within a school environment it is of paramount importance. The project shown illustrates the Large Windsor lantern on Embellished Cannon 4.3m Columns which when combined achieve a mounting height of 5m. The kilometre drive to the school was not lit; the adjacent sports fields and accommodation blocks coupled with local traffic made the lighting of this area a must for pupil safety. The 57w Compact fluorescent lamps used offers significant energy saving coupled with a long life, are mounted within the Sugg full length refractor ensure that the carriageway and the area surrounding the roads edge was also lit revealing any pedestrian movement towards the road.

Elsewhere on the site a combination of wall mounted lanterns, with the same lamp, and illuminated bollards provided a uniformly lit environment with excellent colour rendering at relatively low levels of illumination, so providing excellent rendering of images on the schools security camera system ensuring pupil safety and security.



## Options



It is important to note Cosmopolis lamp versions are fitted with electronic gear due to space within the luminaire canopy.

DIMENSIONS	SMALL	MEDIUM	LARGE	BOXED
A Lantern Height	905mm	1124mm	1124mm	940mm
B Lamp Height	620mm	700mm	700mm	
C Diameter/Width	356mm	420mm	470mm	610mm
E Standard Entry	76mm	76mm	76mm	640mm
F Frog Height	240mm	240mm	240mm	
Windage Area	0.15m <sup>2</sup>	0.20m <sup>2</sup>	0.23m <sup>2</sup>	0.35m <sup>3</sup>
Weight	7kg	10kg	15kg	16.5kg

WATTAGES & LAMP TYPES	35W	42W	50W	70W	80W	100W	125W	150W
HPS			✓✓✓	✓✓		✓✓✓		✓✓
HQI	✓✓✓		✓✓✓	✓✓		✓✓✓		✓✓
CDM	✓✓✓			✓✓✓				✓✓✓
MBF			✓✓✓		✓✓✓		✓✓✓	
CFL		✓✓✓						

Large Road Lighting Optic	✓
Small Road Lighting Optic	✓✓
Cycle Optic	✓✓
Refractor	✓✓✓
E27 Lamp Holder only	✓✓✓
E40 Lamp Holder only	✓

GLAZING	
Acrylic	✓✓✓
Polycarbonate	✓✓✓
Opal Acrylic	✓✓✓
Glass Panels	✓✓✓

KEY: ✓ Small ✓ Medium ✓ Large