LED Ultra Floodlight, 450W, Suitable for 110V and 230V Supplies

The new Ultra 450 is the latest high performance LED floodlight from Blakley Electrics, producing a light output of 170 lumens per watt, which is nearly twice the output of our regular LED site floodlights. The Ultra 450 is rated to IP65 and is suitable for a wide range of industrial and site applications, indoors or out.

This new 450W LED broad beam floodlight is manufactured from an aluminium die-cast frame, fitted to a robust, adjustable, steel cradle bracket incorporating a fall-arrest lanyard. It is finished in a black polyester powder coating.

Light output is provided by 8 modules each consisting of a bank of 28 high quality LEDs, located under precision moulded polycarbonate optics to create a 90° broad beam. The light source modules are powered by two, high quality, Meanwell drivers, generating 77,000 lumens total output at a colour temperature of 6000K. In comparison, our standard 300W LED site floodlight has an output of 27000 lumens (90 lumens per watt).

The Ultra 450 operates at voltages of 110V or 230V, 50/60Hz and is fitted with a 500mm pre-wired H07 RN-F input lead terminated in an IP67 in-line plug. A loose coupler is provided to allow easy connection to our Flori-67 110V plug-in lighting system, or to a standard 16A plug (110V or 230V) or a hard wired terminal box.

To gain maximum benefit from the high light output, it is recommended that the Ultra 450 is installed at a height of 6m to 10m. With lower mounting heights, although high average lux levels should be achieved, the contrast (the difference between the brightest and darkest areas) will be more pronounced than with a higher mounting height. A lateral spacing of 2 to 3 times the mounting height is typical, although this will result in a greater concentration of luminaires when installed at lower heights, which will again have a positive effect on the average illumination level but a negative effect on the contrast.

On page 2 there are some typical floodlighting schemes, which are based on mounting heights of 6m and 10m, illuminating an area measuring 100m x 30m, from one side. Good average lux levels are achieved with a 6m mounting height but there is better uniformity of light with a 10m mounting height.

Photometric files are available for use with Relux and Dialux lighting design software, enabling customers to model their own lighting schemes.

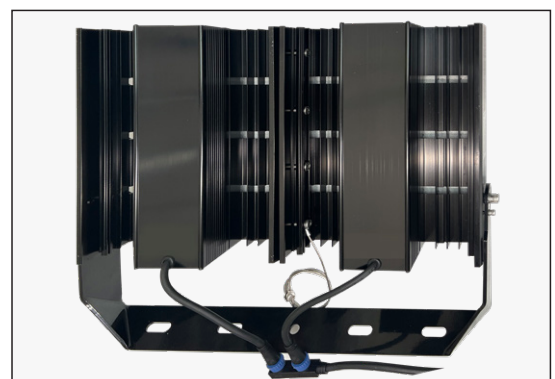S061186 - LED Ultra Floodlight, 450W

Light output provided by 8 modules

Each module contains 28 high quality LEDs

Powered by two high quality Meanwell Drivers

Part No.	Description
S061186	LED Ultra Floodlight, 110V-230V, 450W
S061200	Flori-67 adaptor (max 3 floodlights per Flori string)

Dimensions: 348 x 520 x 100mm (exc bracket) Weight: 11.5kgs

LED Ultra Floodlight, 450W, at varying mounting height and spacing

8 no. 450W fittings, 6m Mounting Height, 12m Spacing, average 127 lux

6 no. 450W fittings, 6m Mounting Height, 18m Spacing, average 91.6 lux

5 no. 450W fittings, 6m Mounting Height, 20m Spacing, average 79.2 lux

5 no. 450W fittings, 10m Mounting Height, 20m Spacing, average 68.5 lux

Illuminance [lx]

0   20   30   50   75   100   150   200

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