

**CU**  
**Phosco**  
**LIGHTING**

100

*Celebrating a Century  
of British Manufacturing*

# Traditional Lighting Solutions

New Improved Performance



+44 1920 860600

[cuphosco.com](http://cuphosco.com)

[enquiries@cuphosco.com](mailto:enquiries@cuphosco.com)

## NEW IMPROVED PERFORMANCE

Our traditional lighting solution range has been reengineered in celebration of our centenary and now features 4th generation LED light engines, providing improved performance and value for money.

With superior efficacy and lighting quality, the range is ideal for retrofit lighting or projects that needs a traditional-style lantern with the latest LED technology for optimal energy savings.

### KEY FEATURES

- Cost effective, high performance heritage lantern
- 4th generation LED, with improved colour rendering (70Ra)
- A range of light engines and control options
- CCT options from 2200K to 4000K
- Minimal upward light
- Up to 172lm/W

### EXCEPTIONAL OPTICAL PERFORMANCE

- Asymmetric or symmetric light distribution
- High quality LEDs, PMMA or silicon optics
- Not subject to UV degradation
- Improved mesopic vision
- Exceptional uniformity

### PHOTOMETRIC DISTRIBUTION

- 37 LED has four optical distributions
- 28 LED options have seven optical distributions

### PROGRAMMABLE DRIVER

- Long lifetime and robust protection against temperature, moisture and vibration
- Driver Temperature Protection (DTP)
- Integrated dimming regime or DALI control
- Adjustable Output Current (AOC)
- Constant Light Output (CLO)

### LIGHT ENGINE

- Three LED type options for selecting best cost/performance
- Metal core PCB to maintain low LED temperatures
- Optimised custom heatsink for efficient heat dissipation

### OPTIMISED THERMAL MANAGEMENT

Gear and optical compartments are separated for optimal thermal management. The high pressure die cast heatsink is thermally linked to the lantern body components which help spread the generated heat, significantly improving longevity of the LED as well as the driver.



These luminaires comply with ETL guidelines for White Light Emitting Diode Lighting Units and are eligible for the Enhanced Capital Allowance (ECA) scheme.

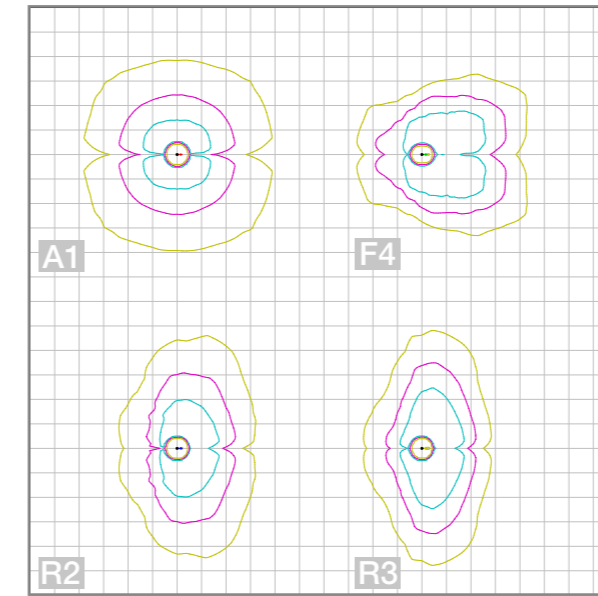
# P111



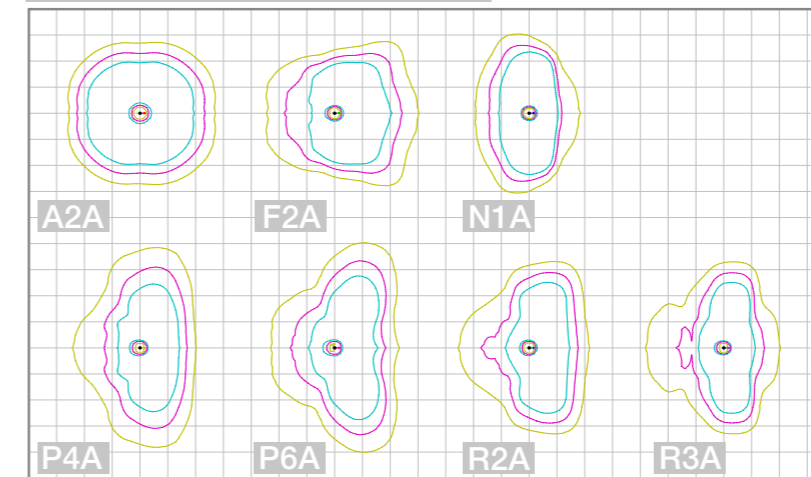
	CSP	CSP LEDs	Mid Power LEDs
Light Source	CSP	CSP LEDs	Mid Power LEDs
Number of LEDs	37	28	28
Power Consumption	11 - 70W	9 - 65W	5 - 29W
Correlated Colour Temperature	4000K 3000K	4000K 3000K 2700K	4000K 3000K 2700K 2200K
Glare Class	Up to G2	G3	G3
Colour Rendering Index	>70	>70	>70
Optical Cover	PMMA	PMMA	PMMA
Luminaire Luminous Flux	1564 - 8989 lm	1372 - 8449 lm	701 - 3661 lm
Luminaire Efficacy	Up to 148 lm/W	up to 155 lm/W	Up to 151 lm/W
Electrical Class	I		
Control System Input	DALI / 1 - 10V		
Lumen Maintenance Output	L84 > 100Khrs (1400mA)	L85 > 100Khrs (1500mA)	L81 > 100Khrs (1050mA)
Driver Current (50mA steps)	200mA - 1400mA	200mA - 1500mA	200mA - 1050mA
Surge Protection	10kV Com. Mode 6 kV Diff. Mode to IEC 61000-4-5		
Dimming Control	Multi step dimming		
Lighting Regulation	Mini Photocell . Wireless CMS Options		
Operating Temperature	-30°C to +20°C		
Installation Height	4 - 10m		
Installation	PT 60 - 76mm		
Tilt	None		
Material	Die cast aluminium, polycarbonate bowl and spun aluminium cover		
Finish	Polyester powder coat cured under heat		
Colours	Black RAL 9005		
Ingress Protection	IP66 LED module, IP54 Body		
Wind Area (EPA)	0.17m <sup>2</sup>		
Weight	6.3g		

# PHOTOMETRIC DISTRIBUTIONS

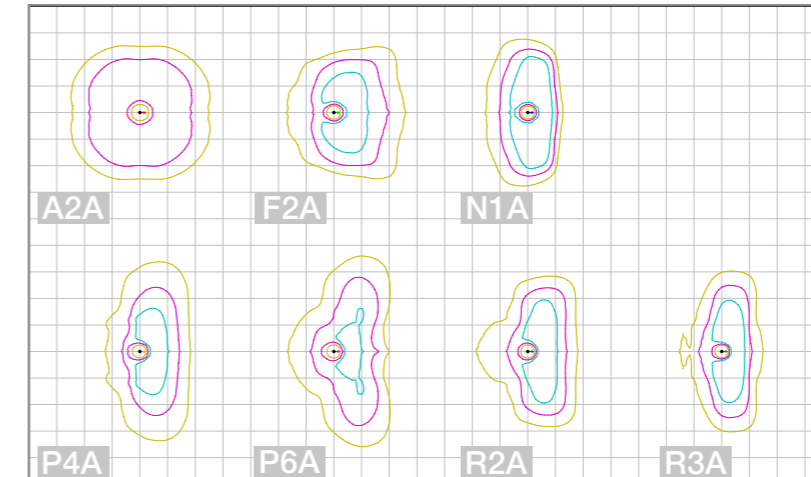
P111-37 - 8m height 10m grid



P111-28-HP - 8m height 5m grid



P111-28-LP - 8m height 5m grid



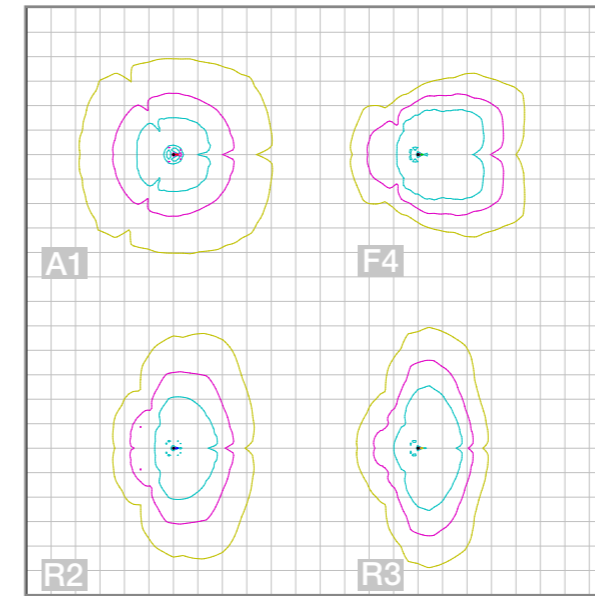
# P109



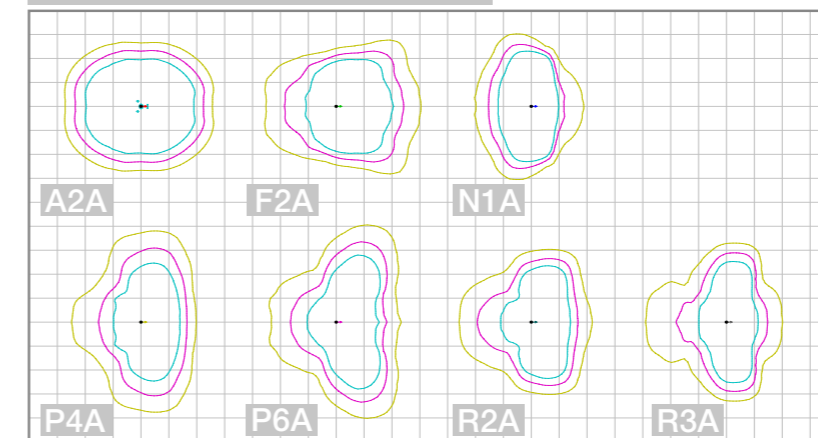
	CSP	CSP LEDs	Mid Power LEDs
Light Source	CSP	CSP LEDs	Mid Power LEDs
Number of LEDs	37	28	28
Power Consumption	11 - 75W	9 - 65W	5 - 29W
Correlated Colour Temperature	4000K 3000K	4000K 3000K 2700K	4000K 3000K 2700K 2200K
Glare Class	Up to G1	G3	G3
Colour Rendering Index	>70	>70	>70
Optical Cover	PMMA	PMMA	PMMA
Luminaire Luminous Flux	1636 - 10254 lm	1455 - 8962 lm	826 - 3841 lm
Luminaire Efficacy	Up to 156 lm/W	up to 164 lm/W	Up to 157 lm/W
Electrical Class	I		
Control System Input	DALI / 1 - 10V		
Lumen Maintenance Output	L84 > 100Khrs (1500mA)	L85 > 100Khrs (1500mA)	L81 > 100Khrs (1050mA)
Driver Current (50mA steps)	200mA - 1500mA	200mA - 1500mA	200mA - 1050mA
Surge Protection	10kV Com. Mode 6 kV Diff. Mode to IEC 61000-4-5		
Dimming Control	Multi step dimming		
Lighting Regulation	Mini Photocell . Wireless CMS Options		
Operating Temperature	-30°C to +30°C		
Installation Height	4 - 10m		
Installation	PT 60 - 76mm		
Tilt	None		
Material	Cast aluminium spigot, polycarbonate bowl and spun aluminium cover		
Finish	Polyester powder coat cured under heat		
Colours	Black RAL 9005		
Ingress Protection	IP66 LED module, IP54 Body		
Wind Area (EPA)	0.33m <sup>2</sup>		
Weight	11kg		

## PHOTOMETRIC DISTRIBUTIONS

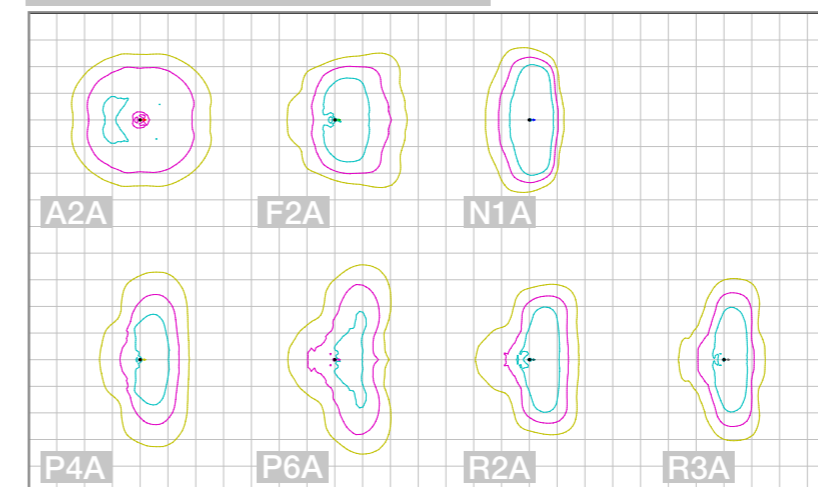
P109-37 - 8m height 10m grid



P109-28-HP - 8m height 5m grid



P109-28-LP - 8m height 5m grid





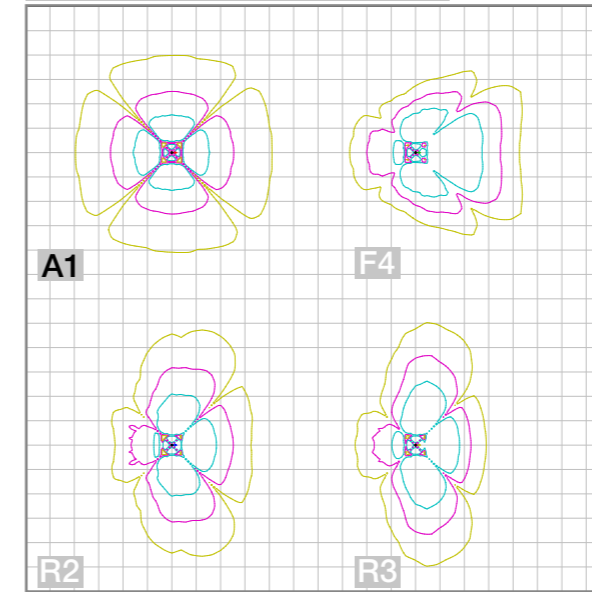
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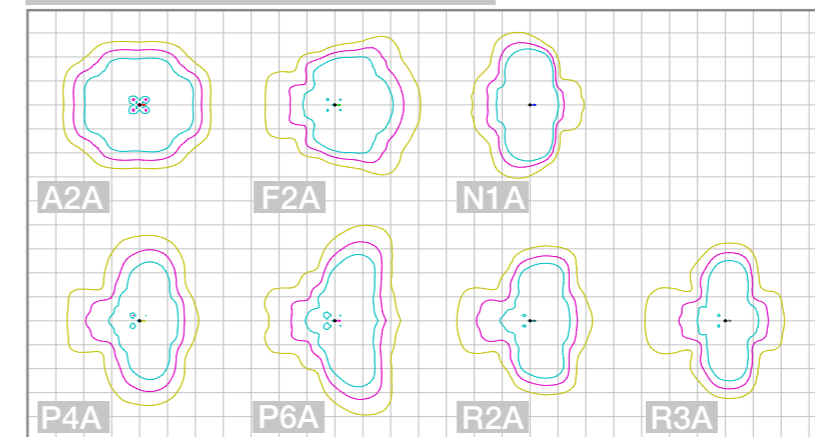
	CSP	CSP LEDs	Mid Power LEDs
Light Source	CSP	CSP LEDs	Mid Power LEDs
Number of LEDs	37	28	28
Power Consumption	11 - 75W	9 - 65W	5 - 29W
Correlated Colour Temperature	4000K 3000K	4000K 3000K 2700K	4000K 3000K 2700K 2200K
Glare Class	Up to G1	G3	G3
Colour Rendering Index	>70	>70	>70
Optical Cover	PMMA	PMMA	PMMA
Luminaire Luminous Flux	1548 - 9702 lm	1374 - 8463 lm	793 - 3686 lm
Luminaire Efficacy	Up to 148 lm/W	up to 164 lm/W	Up to 157 lm/W
Electrical Class	I		
Control System Input	DALI / 1 - 10V		
Lumen Maintenance Output	L84 > 100Khrs (1500mA)	L85 > 100Khrs (1500mA)	L81 > 100Khrs (1050mA)
Driver Current (50mA steps)	200mA - 1500mA	200mA - 1500mA	200mA - 1050mA
Surge Protection	10kV Com. Mode 6 kV Diff. Mode to IEC 61000-4-5		
Dimming Control	Multi step dimming		
Lighting Regulation	Mini Photocell . Wireless CMS Options		
Operating Temperature	-30°C to +20°C		
Installation Height	4 - 10m		
Installation	PT 60 - 76mm		
Tilt	None		
Material	Steel frog, polycarbonate bowl and cover		
Finish	Polyester powder coat cured under heat		
Colours	Black RAL 9005		
Ingress Protection	IP66 LED module, IP54 Body		
Wind Area (EPA)	0.24m <sup>2</sup>		
Weight	11.2kg		

## PHOTOMETRIC DISTRIBUTIONS

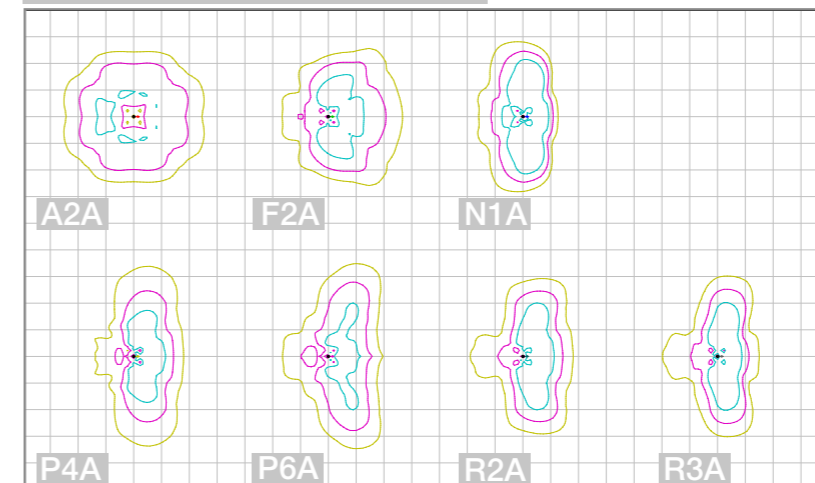
P516-37 - 8m height 10m grid



P516-28-HP - 8m height 5m grid



P516-28-LP - 8m height 5m grid



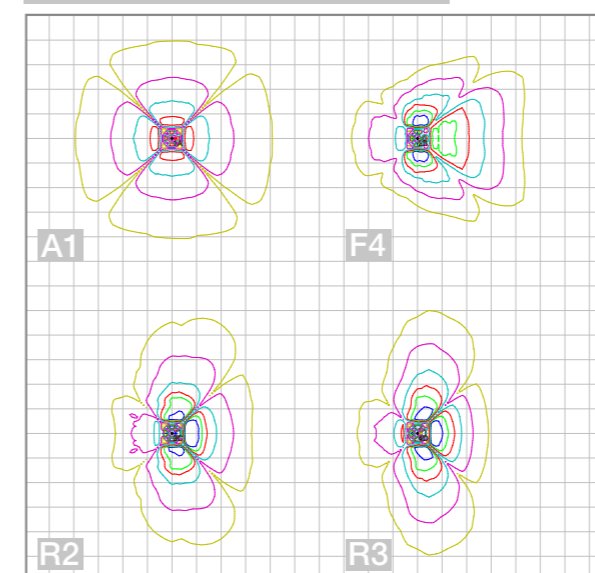
# P514



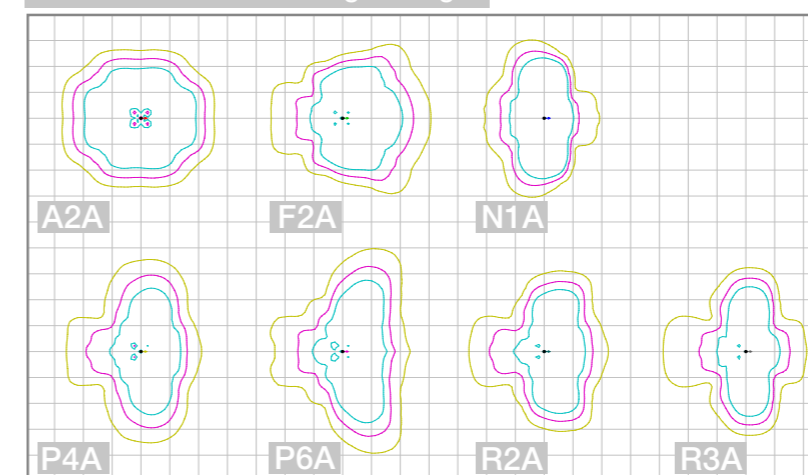
Light Source	CSP	CSP LEDs	Mid Power LEDs
Number of LEDs	37	28	28
Power Consumption	11 - 75W	9 - 65W	5 - 29W
Correlated Colour Temperature	4000K 3000K	4000K 3000K 2700K	4000K 3000K 2700K 2200K
Glare Class	Up to G1	G3	G3
Colour Rendering Index	>70	>70	>70
Optical Cover	PMMA	PMMA	PMMA
Luminaire Luminous Flux	1548 - 9557 lm	1354 - 8336 lm	781 - 3631 lm
Luminaire Efficacy	Up to 148 lm/W	up to 153 lm/W	Up to 149 lm/W
Electrical Class	I		
Control System Input	DALI / 1 - 10V		
Lumen Maintenance Output	L84 > 100Khrs (1500mA)	L85 > 100Khrs (1500mA)	L81 > 100Khrs (1050mA)
Driver Current (50mA steps)	200mA - 1500mA	200mA - 1500mA	200mA - 1050mA
Surge Protection	10kV Com. Mode 6 kV Diff. Mode to IEC 61000-4-5		
Dimming Control	Multi step dimming		
Lighting Regulation	Mini Photocell . Wireless CMS Options		
Operating Temperature	-30°C to +25°C		
Installation Height	4 - 10m		
Installation	PT 60 - 76mm		
Tilt	None		
Material	Steel frog, polycarbonate bowl and cover		
Finish	Polyester powder coat cured under heat		
Colours	Black RAL 9005		
Ingress Protection	IP66 LED module, IP54 Body		
Wind Area (EPA)	0.20m <sup>2</sup>		
Weight	8.1kg		

## PHOTOMETRIC DISTRIBUTIONS

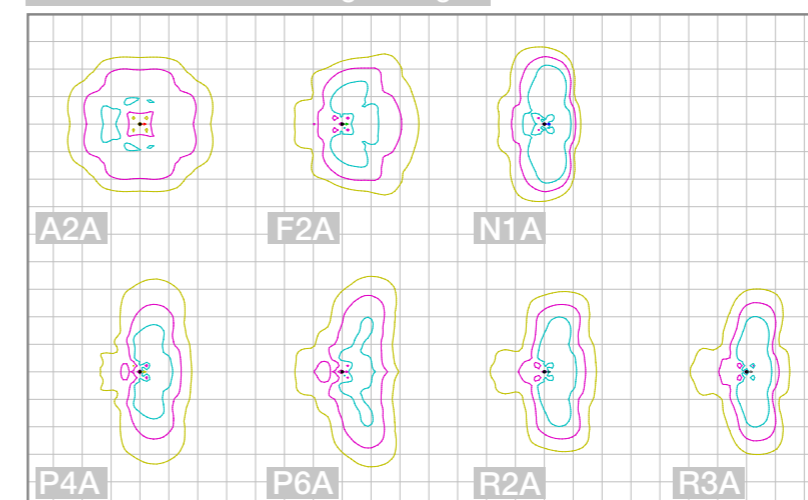
P514-37 - 8m height 10m grid



P514-28-HP - 8m height 5m grid



P514-28-LP - 8m height 5m grid



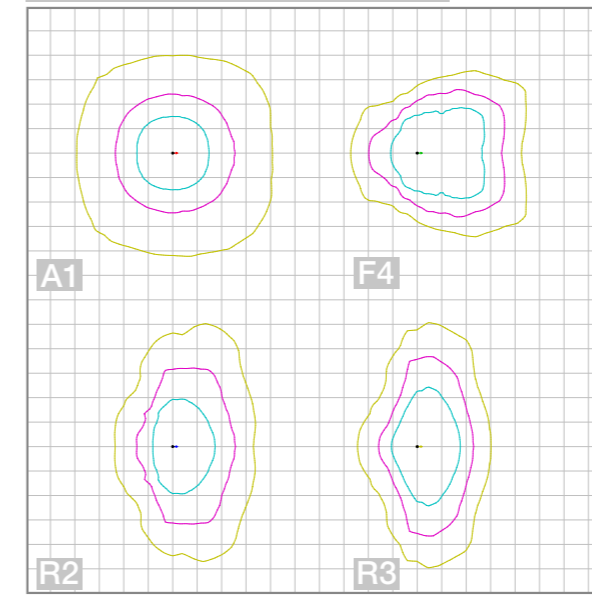
# P510



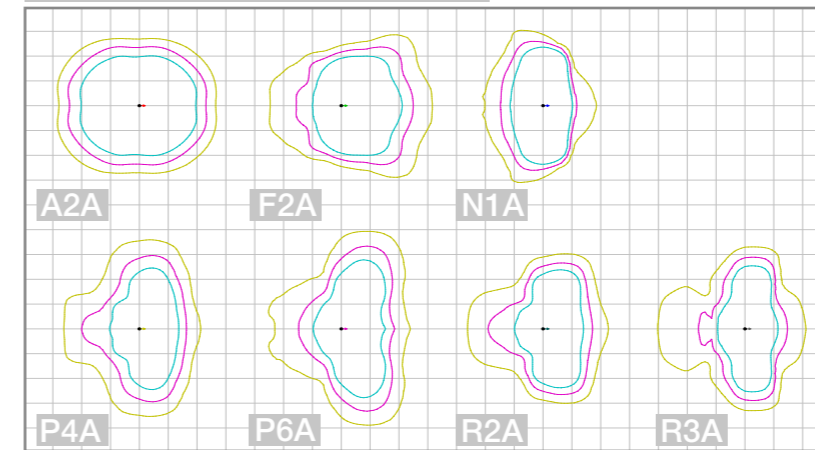
	CSP	CSP LEDs	Mid Power LEDs
Light Source	CSP	CSP LEDs	Mid Power LEDs
Number of LEDs	37	28	28
Power Consumption	11 - 75W	9 - 65W	5 - 29W
Correlated Colour Temperature	4000K 3000K	4000K 3000K 2700K	4000K 3000K 2700K 2200K
Glare Class	Up to G2	G3	G3
Colour Rendering Index	>70	>70	>70
Optical Cover	PMMA	PMMA	PMMA
Luminaire Luminous Flux	1699 - 10647 lm	1521 - 9291 lm	867 - 4031 lm
Luminaire Efficacy	Up to 162 lm/W	up to 172 lm/W	Up to 165 lm/W
Electrical Class	I		
Control System Input	DALI / 1 - 10V		
Lumen Maintenance Output	L84 > 100Khrs (1500mA)	L85 > 100Khrs (1500mA)	L81 > 100Khrs (1050mA)
Driver Current (50mA steps)	200mA - 1500mA	200mA - 1500mA	200mA - 1050mA
Surge Protection	10kV Com. Mode 6 kV Diff. Mode to IEC 61000-4-5		
Dimming Control	Multi step dimming		
Lighting Regulation	Mini Photocell . Wireless CMS Options		
Operating Temperature	-30°C to +25°C		
Installation Height	8 - 12m		
Installation	Top entry 1" BSP		
Tilt	None		
Material	Cast aluminium spigot, polycarbonate bowl and spun aluminium body		
Finish	Polyester powder coat cured under heat		
Colours	Black RAL 9005		
Ingress Protection	IP66 LED module, IP54 Body		
Wind Area (EPA)	0.24m <sup>2</sup>		
Weight	12.8kg		

## PHOTOMETRIC DISTRIBUTIONS

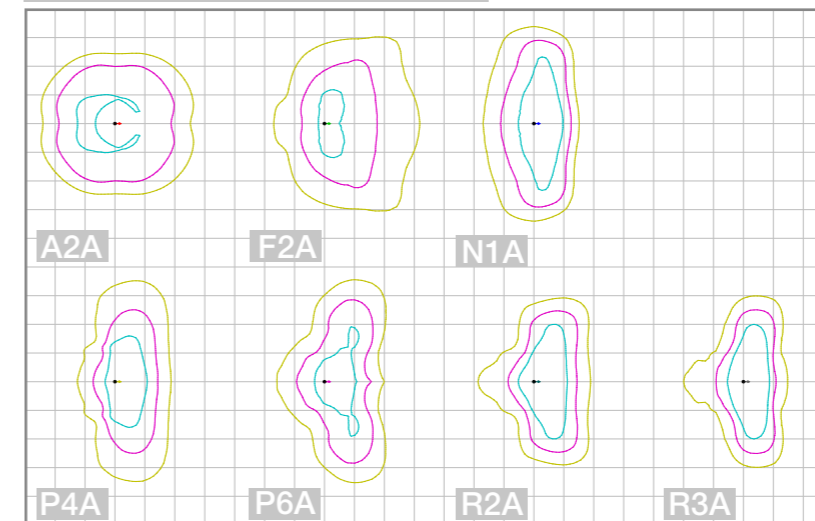
P510-37 - 8m height 10m grid



P510-28-HP - 8m height 5m grid



P510-28-LP - 8m height 5m grid



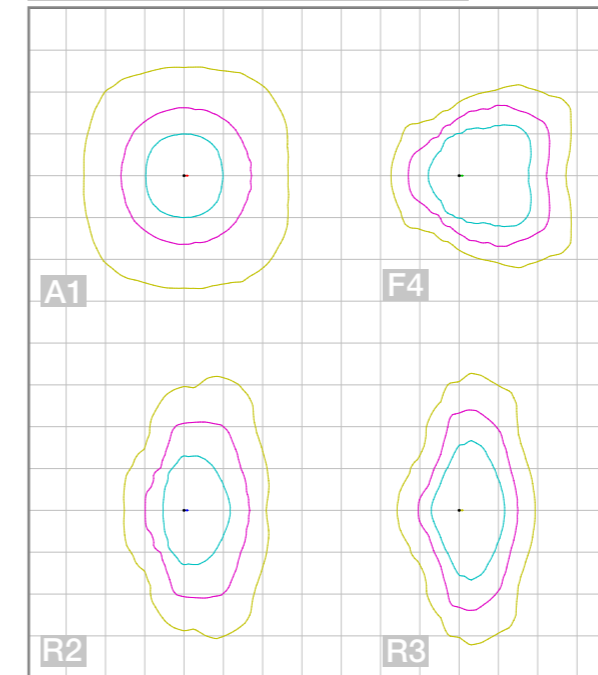
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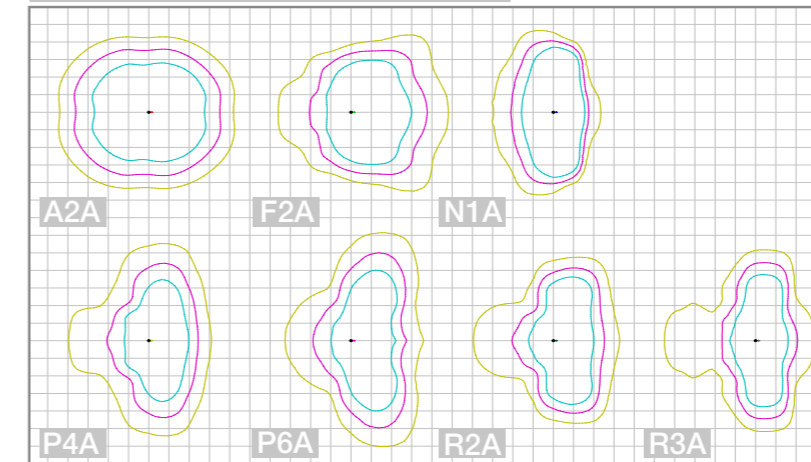
	CSP	CSP LEDs	Mid Power LEDs
<b>Light Source</b>	CSP	CSP LEDs	Mid Power LEDs
<b>Number of LEDs</b>	74	56	56
<b>Power Consumption</b>	22 - 151W	18 - 130W	11 - 57W
<b>Correlated Colour Temperature</b>	4000K 3000K	4000K 3000K 2700K	4000K 3000K 2700K 2200K
<b>Glare Class</b>	Up to G2	G3	G3
<b>Colour Rendering Index</b>	>70	>70	>70
<b>Optical Cover</b>	PMMA	PMMA	PMMA
<b>Luminaire Luminous Flux</b>	2976 - 18645 lm	2664 - 16406 lm	1518 - 7058 lm
<b>Luminaire Efficacy</b>	Up to 162 lm/W	up to 172 lm/W	Up to 165 lm/W
<b>Electrical Class</b>	I		
<b>Control System Input</b>	DALI / 1 - 10V		
<b>Lumen Maintenance Output</b>	L84 > 100Khrs (1500mA)	L85 > 100Khrs (1500mA)	L81 > 100Khrs (1050mA)
<b>Driver Current (50mA steps)</b>	200mA - 1500mA	200mA - 1500mA	200mA - 1050mA
<b>Surge Protection</b>	10kV Com. Mode 6 kV Diff. Mode to IEC 61000-4-5		
<b>Dimming Control</b>	Multi step dimming		
<b>Lighting Regulation</b>	Mini Photocell . Wireless CMS Options		
<b>Operating Temperature</b>	-30°C to +25°C		
<b>Installation Height</b>	8 - 12m		
<b>Installation</b>	Top entry 1" BSP		
<b>Tilt</b>	None		
<b>Material</b>	Cast aluminium spigot, polycarbonate bowl and spun aluminium body		
<b>Finish</b>	Polyester powder coat cured under heat		
<b>Colours</b>	Black RAL 9005		
<b>Ingress Protection</b>	IP66 LED module, IP54 Body		
<b>Wind Area (EPA)</b>	0.24m <sup>2</sup>		
<b>Weight</b>	13.5kg		

## PHOTOMETRIC DISTRIBUTIONS

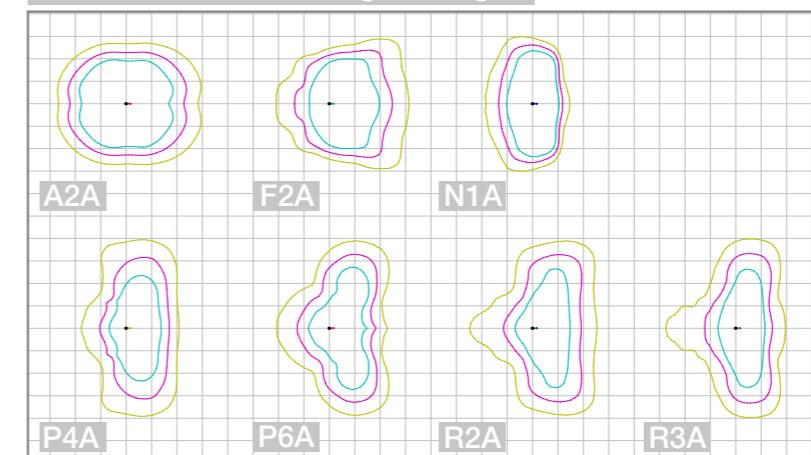
P510-74 - 10m height 10m grid



P510-56-HP - 10m height 5m grid



P510-56-LP - 8m height 5m grid





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100

*Celebrating a Century  
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Charles House  
Gt. Amwell, Ware  
UK, SG12 9TA

+44 (0) 1920 860600  
hello@cuphosco.com

[cuphosco.com](http://cuphosco.com)