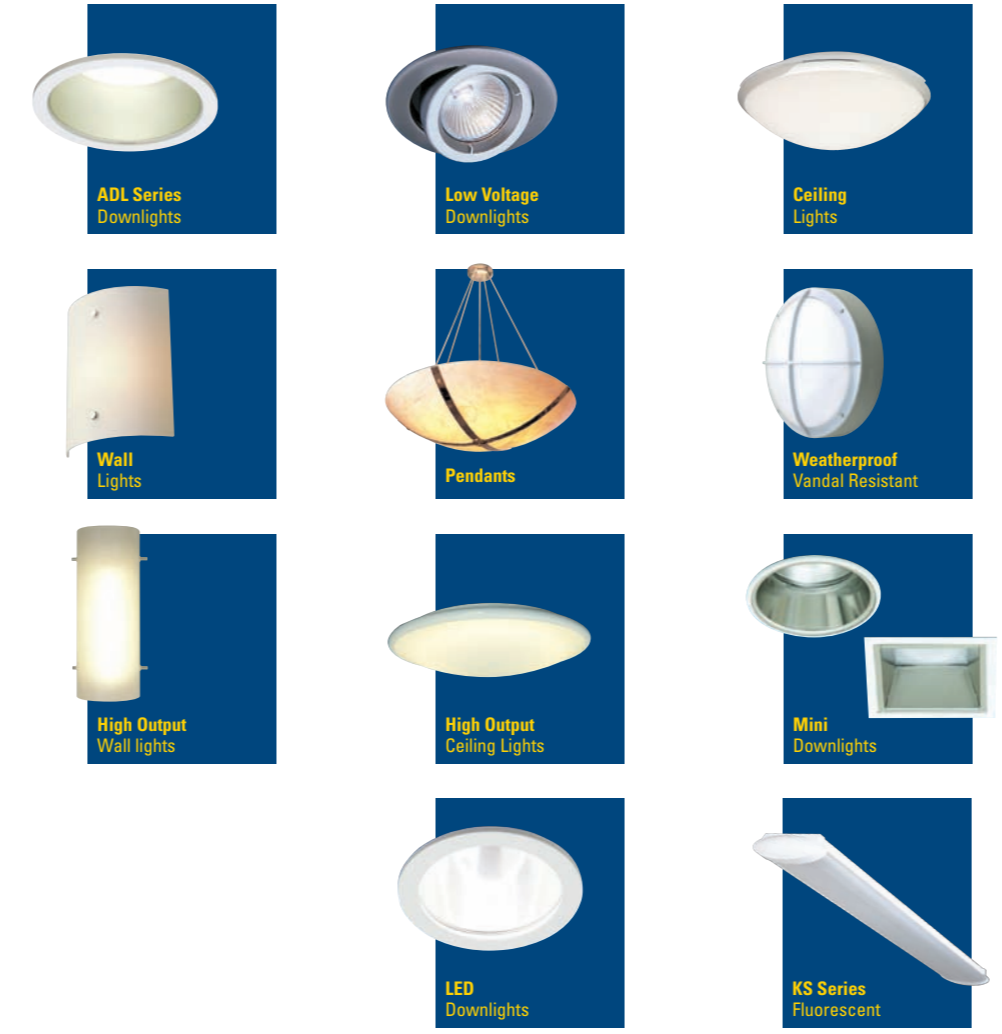


Efficient Lighting Systems manufactures a wide range of commercial lighting fixtures. Other brochures are available including the following.



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Efficient lighting systems

NEW
 Mini LED Downlights



Edition 1 December 2010

LED downlights

without the glare



Introducing the ADL LED downlight range - for high efficiency and visual comfort

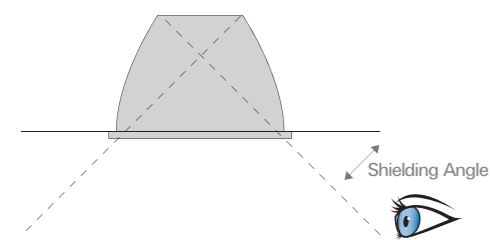
Australian designed & made

The ELS ADL range of down lights utilize Cree XR-E LED's. Cree has long been recognized as a leader in LED technology and quality. The ELS LED MCPCB's are Australian designed and made to ensure top quality.

Quality lighting without glare for visual comfort

A common fault with many LED light fittings is glare. The very nature of all LED's being a very small, high intensity light source, means they are a source of glare and require luminaires to be designed to minimise glare – a major cause of visual discomfort.

All the ELS ADL down lights use reflector systems or baffles to provide a shielding angle. When viewed from normal viewing angles the actual LED's are not visible.



Testing & certification

All ELS ADL LED down lights have NATA certified photometric data and EMC approval. Full copies of photometric test reports are available on request. IES files are also available. At the time of printing photometric test reports for the 3000k versions were being finalised. The 3000k versions are approx 15% less lumen output.

Typical uses

Primarily this range is designed to be used in areas that traditionally would have used low voltage 20w, 35w, and 50w lamps or low wattage fluorescent lamps of 13w, 18w or 26w down lights. When compared to similar output low voltage lamps energy savings of approximately 50% can be expected.

Specifications & operating environment

Thermal management - The ADL LED range are fitted with purpose designed heat sinks to ensure the operating temperature is within the designed parameter of the LED unit. Maximum Ta temperature (ambient temperature) should not exceed 35°C. Ta temperatures in excess of 35° will have a detrimental effect on the life of the LED unit.

Lumen maintenance

When used within the specification Ta 25°C, lumen maintenance of 70% at 50,000 hours is expected (for 9000 and 9525B lumen maintenance of 70% at 35,000 hours is expected).

LED colour - CRI 81.

Colour temperature - 3000k and 4000k are available.

LED replacement - The LED units are designed as a replaceable component part.

Dimming - The standard driver is trailing edge dimmable to 20% of max.

Beam angle - The beam angle listed for each light is established at 50% of the maximum intensity.



Photometric data available on CD



ADL 90

Part Codes

3000k - ADL90.40.13.30.63
4000k - ADL90.40.13.40.63

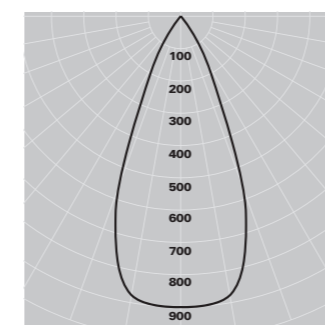
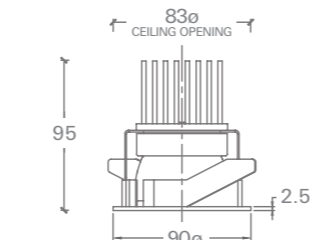
System Power 12.5W

Lumen Output 435 - 4000k

Lamp Colour 4000k and 3000k

Beam Angle 40°

- Aluminium reflector low glare with 33° shielding angle
- White polycarbonate trim
- Ceiling mounting without tools



4000k



ADL 110

Part Codes

3000k - ADL110.50.18.30.63
4000k - ADL110.50.18.40.63

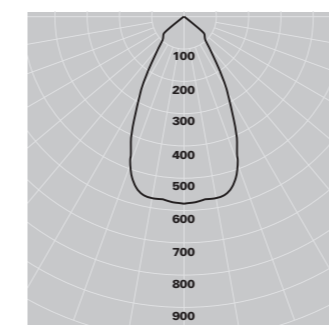
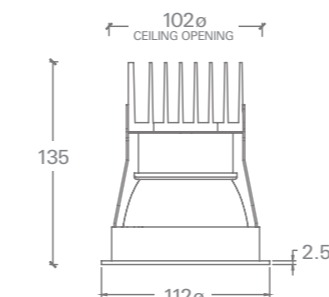
System Power 17.6W

Lumen Output 544 - 4000k

Lamp Colour 4000k and 3000k

Beam Angle 40°

- Aluminium reflector low glare with 40° shielding angle
- White polycarbonate trim
- Ceiling mounting without tools



4000k



ADL 125

Part Codes

3000k - ADL125.50.25.30.63
4000k - ADL125.50.25.40.63

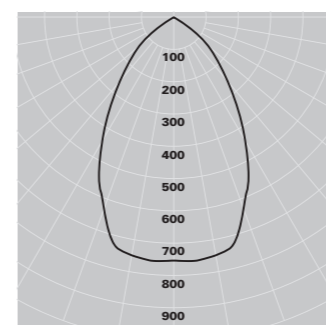
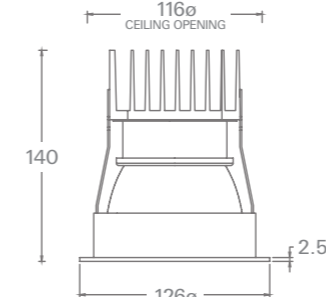
System Power 25W

Lumen Output 810 - 4000k

Lamp Colour 4000k and 3000k

Beam Angle 50°

- Aluminium reflector low glare with 40° shielding angle
- White polycarbonate trim
- Ceiling mounting without tools



4000k



ADLS 100

Part Codes

3000k - ADLS100.60.18.30.63
4000k - ADLS100.60.18.40.63

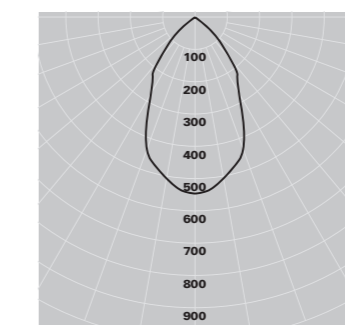
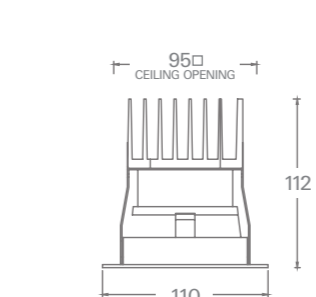
System Power 17.6W

Lumen Output 565 - 4000k

Lamp Colour 4000k and 3000k

Beam Angle 60°

- Aluminium reflector low glare with 30° shielding angle
- White painted trim
- Ceiling mounting without tools



4000k



9000

Part Codes

3000k - 9000.36.12.30.63 (W or S)
4000k - 9000.36.12.40.63 (W or S)

Tilt adjustable 20°

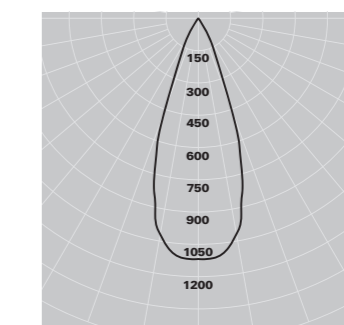
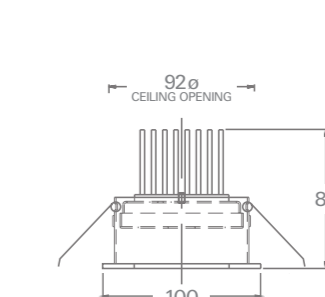
System power 11.7W

Lumen output 443-4000k

Lamp Colour 4000k and 3000k

Beam angle 30°

- Black internal with 20° shielding angle
- Ceiling mount without tools
- White or Silver painted trim



4000k



9525B

Part Codes

3000k - 9525B.36.12.30.63
4000k - 9525B.36.12.40.63

Tilt adjustable 20°

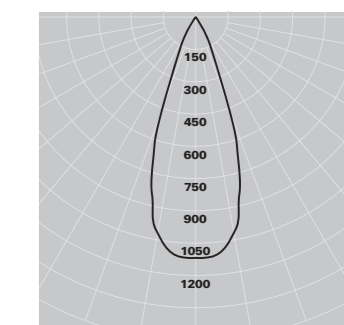
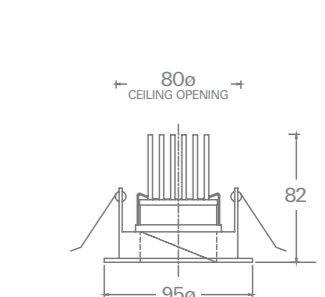
System Power 11.7W

Lumen Output 443-4000k

Lamp Colour 4000k and 3000k

Beam Angle 30°

- Black baffle low glare with 22° shielding angle
- Ceiling mounting without tools



4000k