



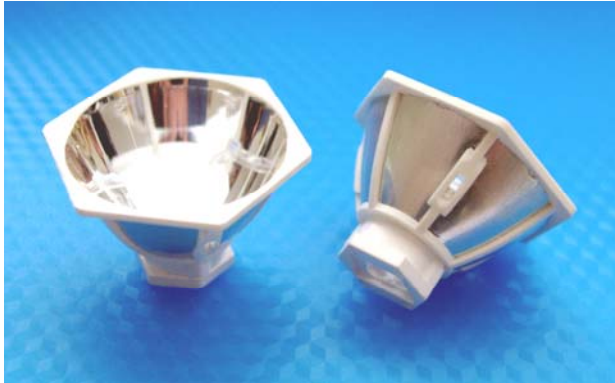
**Polymer
Optics
Limited**

Our Focus is in Plastics

Polymer Optics Ltd.

6 Kiln Ride, Wokingham,
Berks., RG40 3JL, England
Tel/Fax: +44 (0) 1189 893341
www.polymer-optics.co.uk

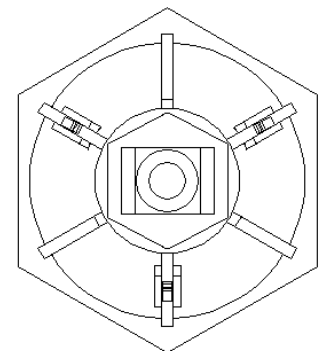
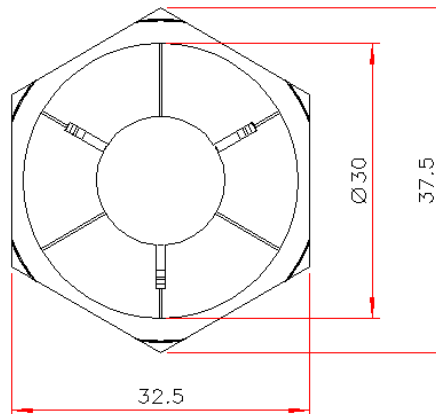
30mm Colour Mixer Reflector for Cree MC-E LED - Part No. 250



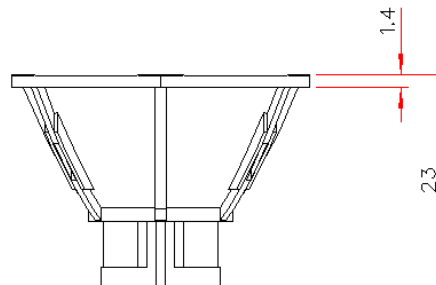
- Designed for Cree MC-E RGBA and RGBW multi-die LED
- High light collection efficiency of >60%
- Precision moulded using POL's patent applied for metallised optical insert moulding technique with a polycarbonate frame construction for superior mechanical and thermal stability
- Also available for other Cree LED package types
- Part of the Polymer Optics "Modular LED Optics"® range

Polymer Optics "Modular LED Optics"® design, based on a hexagonal format, allows maximum packing density and assembly flexibility. Arrays of single colour or colour mixed cells can be easily constructed

The 250 Reflector Optic base is designed to push fit over the Cree MC-E LED package to align to the LED source



ORIENTATION OF BASE TO CREE MC-E PACKAGE



Typical dimensional tolerances to +/-0.2mm



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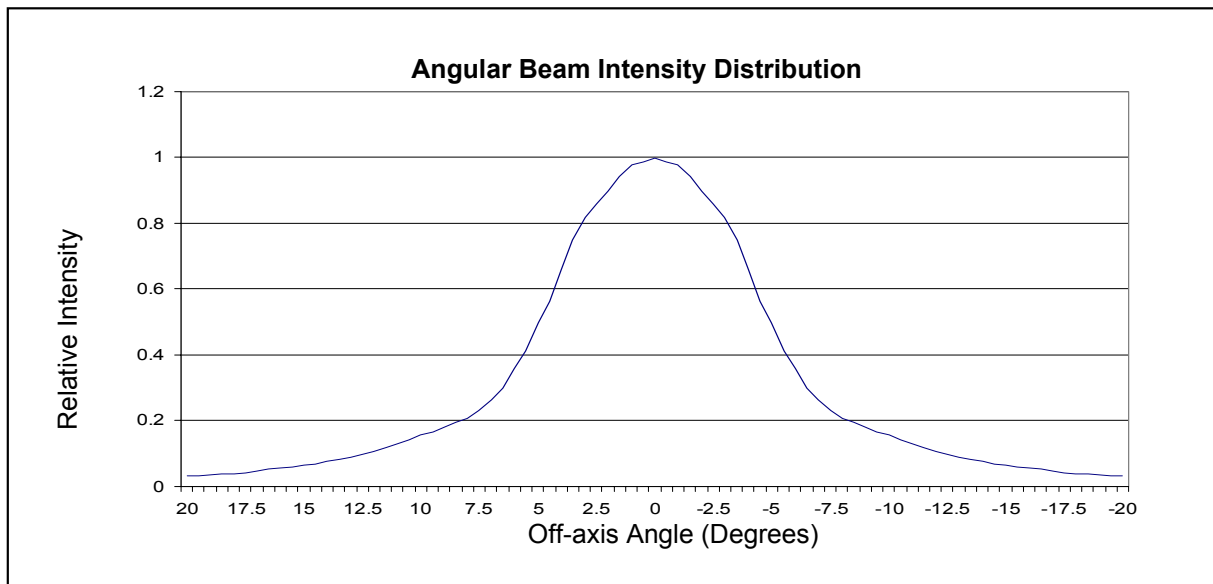
The perfect colour mixing achieved with the POL 250 optic allows an infinite range of illumination colours to be produced with a constant and stable beam geometry.

An additional advantage is that the appearance of the emitted light from the POL 250 optic is a uniform mixed colour too, removing the usual visible spots of RGB seen in other colour mixing products.



The POL 250 optic's narrow, high intensity beam is ideal for demanding applications, such as:

- ✓ Architectural spot lights
- ✓ Theatrical lights and follow-spots
- ✓ Forensic torches
- ✓ Medical lighting applications



Performance values given are typical values and will vary dependant on LED binning, colour and drive profile

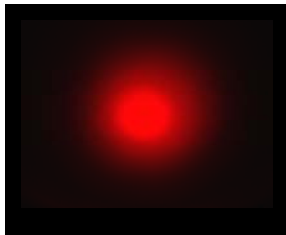


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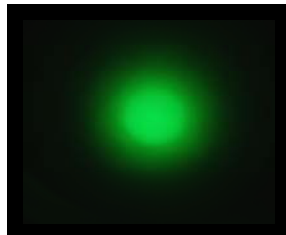
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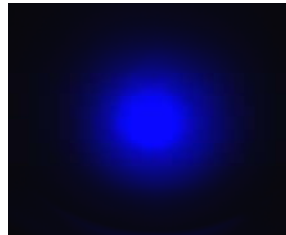
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Green



Red

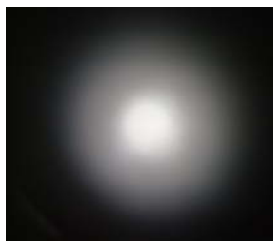
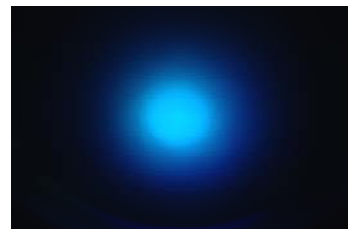
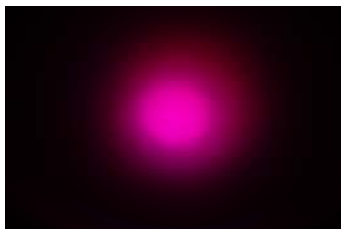
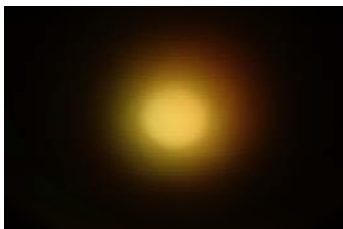


Blue



White

The example system shown here uses the Cree MC-E Red, Green, Blue, White device. With this simple mix of colours, a vast range of mixed colours and controlled correlated colour temperature (CCT) whites can be mixed. Some examples of the mixed colours are shown below.



Cool White



Neutral White



Warm White