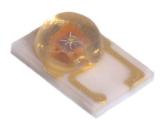


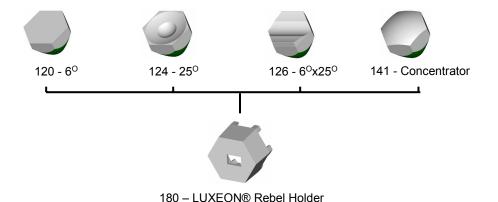
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LED Optics Range for LUXEON® Rebel

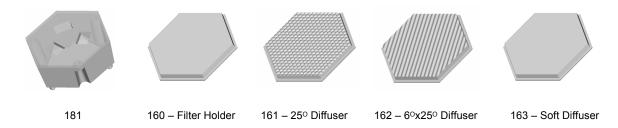


Polymer Optics "Modular LED Optics"® range now supports the revolutionary new LUXEON® Rebel LED. The ultra compact, surface mount, high power LED from Philips -Lumileds.

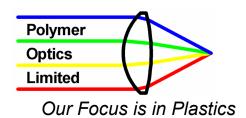
POL LED Optics range has been extended with the new 180 - Rebel Holder to enable the small Single Cell hexagonal optics range to be used with the LUXEON® Rebel LEDs.



Also, POL's unique Colour Mixer optic range has been adapted to suit the LUXEON® Rebel package to provide compact colour mixing solutions for high power, miniature, low cost, luminaire products.







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Holder for LUXEON® Rebel - Part No. 180

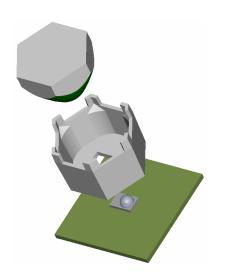


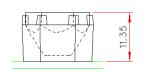
- Designed for use with Polymer Optics "Modular LED Optics"

 and other custom Polymer Optics designs
- Designed for the LUXEON® Rebel LED
- Simply mounts onto PCB and self-aligns to LUXEON® Rebel
- Precision moulded in optical grade Polycarbonate for thermal stability and system durability
- Part of the Polymer Optics "Modular LED Optics"® range

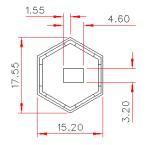
Polymer Optics "Modular LED Optics" design, based on a hexagonal format, allows maximum packing density and assembly flexibility

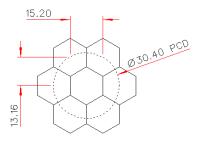
Other Holders are available for the POL Optics range to suit the LUXEON® I, III, V and K2 LEDs in Emitter and Star formats (part numbers 121, 128 and 151)





OPTIC AND HOLDER ASSY.





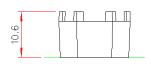
NESTED COMPONENTS ON 30.4MM PCD

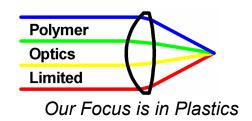
Typical dimensional tolerances to +/-0.2mm





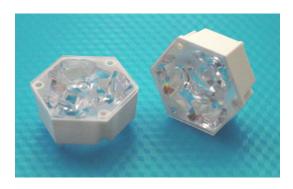






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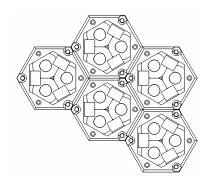
Narrow Angle Colour Mixer Assembly for LUXEON® Rebel LED - Part No. 181



- Designed for LUXEON® Rebel LED devices
- High collection efficiency and narrow angle beam output
- Precision moulded in optical grade Polycarbonate for thermal stability and system durability
- Part of the Polymer Optics "Modular LED Optics"® range



 POL's novel hexagonal design allows the optics to be clustered together to make larger narrow angle colour mixing arrays



3 x Support legs on 28mm PCD

LED Ctrs on 14mm PCD

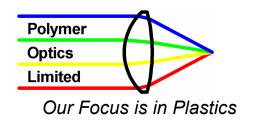
35.8

Ø1.5

Ø2.5

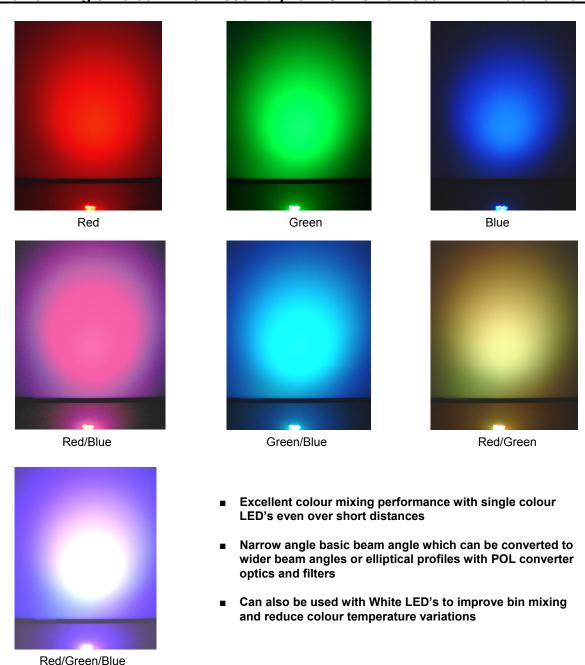


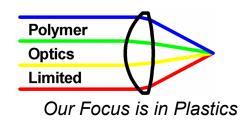
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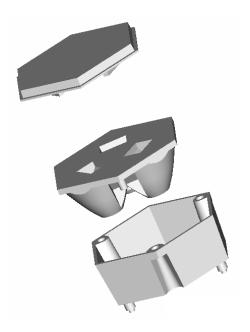
Narrow Angle Colour Mixer Assembly for LUXEON® Rebel LED - Part No. 181



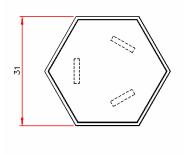


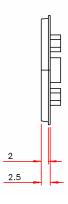
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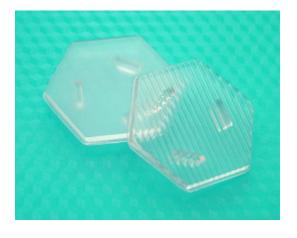
Converter Optics for Narrow Angle LED Colour Mixer Assembly



- Beam Converter Optics simply interference push fit onto the front of the 181 - Colour Mixer Optic.
- Precision moulded in optical grade PMMA acrylic for improved scratch resistance on the outside of the assembly.
- The Beam Converter Optics fit within the area of the 181- Colour Mixer Optic so the assemblies can still be arranged in close packed arrays.
- Flanged edge of the Beam Converter Optics allows bezels and cover plates to be located to the optical assembly for aesthetic product finishing.
- Part of the Polymer Optics "Modular LED Optics"® range

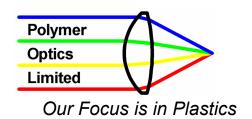








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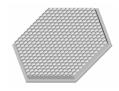
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Converter Optics for Narrow Angle LED Colour Mixer Assembly



Plain Filter Holder - 160

- 160 Plain Filter Holder can be used with Physical Optics Corporation (POC) Light Shaping Diffuser films to produce a wide range of beam profiles, available from POL or direct from www.poc.com.
- Other custom beam angles can be produced cost effectively from POL's modular production tooling. Please enquire for details

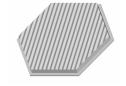


25 Deg Diffuser - 161









6 x 25 Deg Line Diffuser - 162









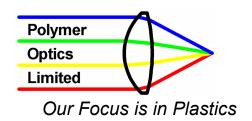


Soft Beam Diffuser - 163









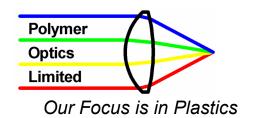
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Price List for LED Optics Range for LUXEON® Rebel

Product Image	Description	Usage	100-1K Batches	1K-5K Batches	5K-10K Batches	10K+ Batches
120/180	6° Collimator + Holder for LUXEON® Rebel	LUXEON® Rebel Emitters	£1.25	£0.98	£0.77	£0.72
124/180	25° Collimator + Holder for LUXEON® Rebel	LUXEON® Rebel Emitters	£1.25	£0.98	£0.77	£0.72
126/180	6°x25° Line + Holder for LUXEON® Rebel	LUXEON® Rebel Emitters	£1.25	£0.98	£0.77	£0.72
141/180	Single Cell Concentrator Optic + Holder for LUXEON® Rebel	LUXEON® Rebel Emitters	£1.25	£0.98	£0.77	£0.72

Please contact POL for quotations on higher volumes and custom variants

^{*} A minimum order value applies of £50+shipping - All prices "ex-works"



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Price List for LED Optics Range for LUXEON® Rebel

Product Image	Description	Usage	100-1K Batches	1K-5K Batches	5K-10K Batches	10K+ Batches
181	6º Colour Mixer Collimator Assembly	LUXEON® Rebel Emitters	£3.80	£3.60	£3.20	£3.00
160	Filter Holder	Fits to 181 Optic	£0.32	£0.30	£0.27	£0.25
161	25° Beam Converter Optic	Fits to 181 Optic	£0.32	£0.30	£0.27	£0.25
162	6°x25° Beam Converter Optic	Fits to 181 Optic	£0.32	£0.30	£0.27	£0.25
163	Beam Diffuser Filter	Fits to 181 Optic	£0.32	£0.30	£0.27	£0.25

Please contact POL for quotations on higher volumes and custom variants

^{*} A minimum order value applies of £50+shipping - All prices "ex-works"