

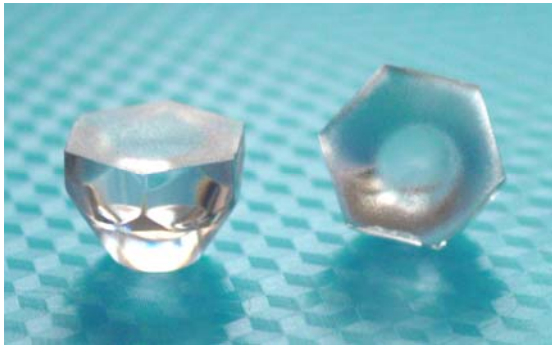


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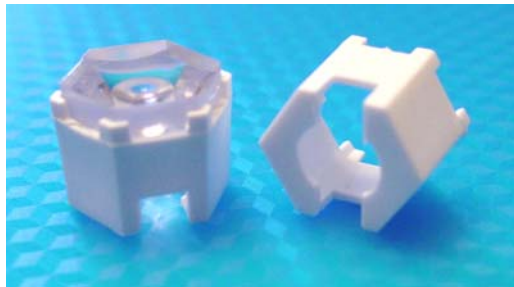
**Polymer Optics Ltd.**

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

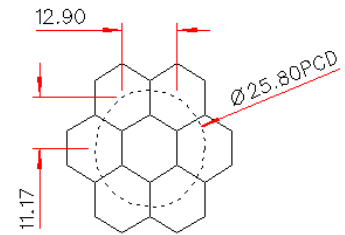
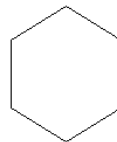
**+/-6 Degree (12 Deg) Diffuse LED Collimator Lens - Part No. 185**



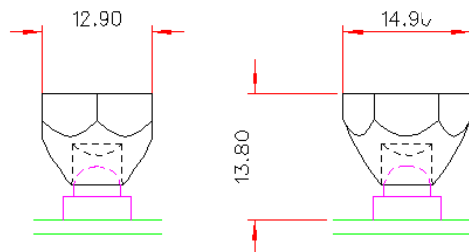
- Designed for LUXEON® Rebel and K2 LED's
- Diffuse front surface to provide better beam averaging with latest high power die technologies
- High light collection efficiency of >85%
- Precision moulded in optical grade Polycarbonate for thermal stability and system durability
- Part of the Polymer Optics "Modular LED Optics"® range



Typical dimensional tolerances to +/-0.2mm



NESTED COMPONENTS ON 25,8MM PCD (ACTUAL SIZE)



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

Holder (Part No. 121) available for mounting optics onto LUXEON® I Star or LUXEON® Emitter PCB's

Star Holder (Part No. 128) available for LUXEON® III Star formats only.

K2 Holder (Part No. 151) available for LUXEON® K2 LED range.

Rebel Holder (Part No. 180) available for LUXEON® Rebel LED range

Please refer to POL's "LUXEON® LED Optic Selection Table" to determine your optimum product configuration.

Due to continuous product improvement, POL reserve the right to change specifications without notice.



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**+/-6 Degree (12 Deg) Diffuse LED Collimator Lens - Part No. 185**



The latest LUXEON® Rebel and K2 LED die technologies, in some applications, produce a slightly square beam profile. This is due to the precise optical handling characteristics of the POL LED optics range.



To remove this potential issue, POL have introduced the new 185 optic which diffuses the square die form of the LED into a more uniform round beam with minimal increase in the collimation divergence angle

This optical phenomenon created by the LED die only affects narrow angle collimation optics.

The rest of the POL range of LED optics which provide wider angles, beam concentration or other beam profile functions all provide similar beam averaging within the optic itself.