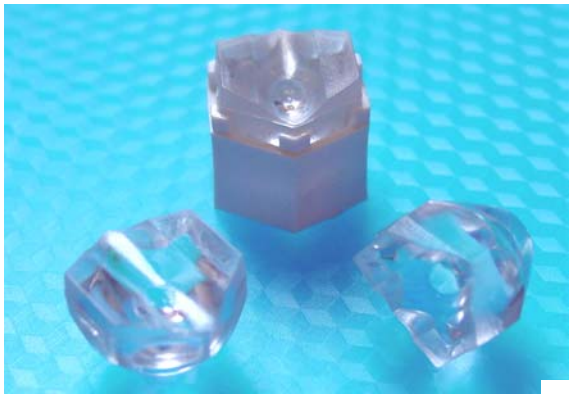
Polymer Optics Limited

*Our Focus is in Plastics*

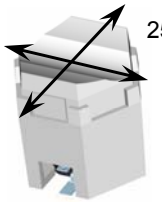
**Polymer Optics Ltd.**

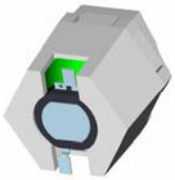
**6 Kiln Ride, Wokingham,**
**Berks., RG40 3JL, England**
**Tel/Fax: +44 (0) 1189 893341**
**www.polymer-optics.co.uk**

# +/-6x25 Degree (12x50 Deg) LED Collimator Lens - Part No. 126

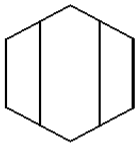


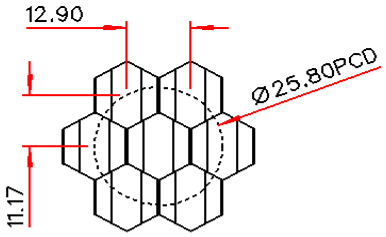
- **Designed for LUXEON® I, III and K2 LED's**
- **High light collection efficiency of >85%**
- **Suitable for all LUXEON® "Lambertian" and "Bat-wing" LED designs**
- **Precision moulded in optical grade Polycarbonate for thermal stability and system durability**
- **Part of the Polymer Optics "Modular LED Optics"® range**



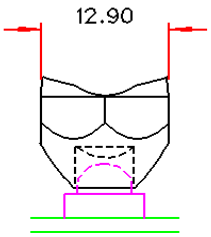
Typical dimensional tolerances
to +/-0.2mm

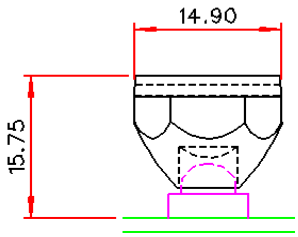


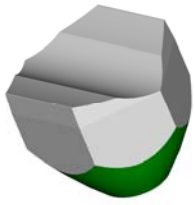



NESTED COMPONENTS ON 25.8MM PCD

FUTURE LIGHTING SOLUTIONS
NETWORK
Component Member



**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.**

**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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**On-axis illumination using 1W Luxeon Lambertian White LED typically 120cds**

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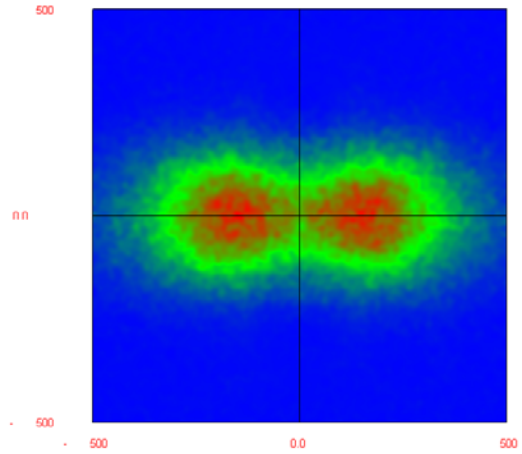
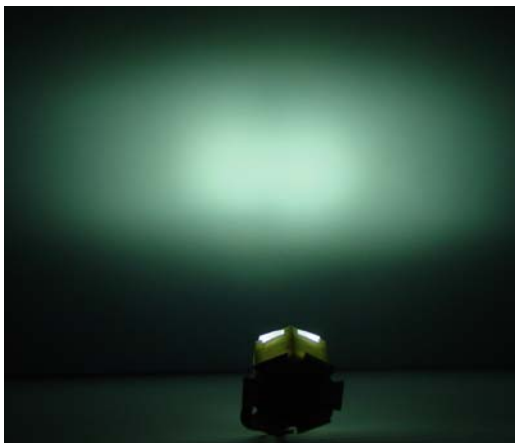
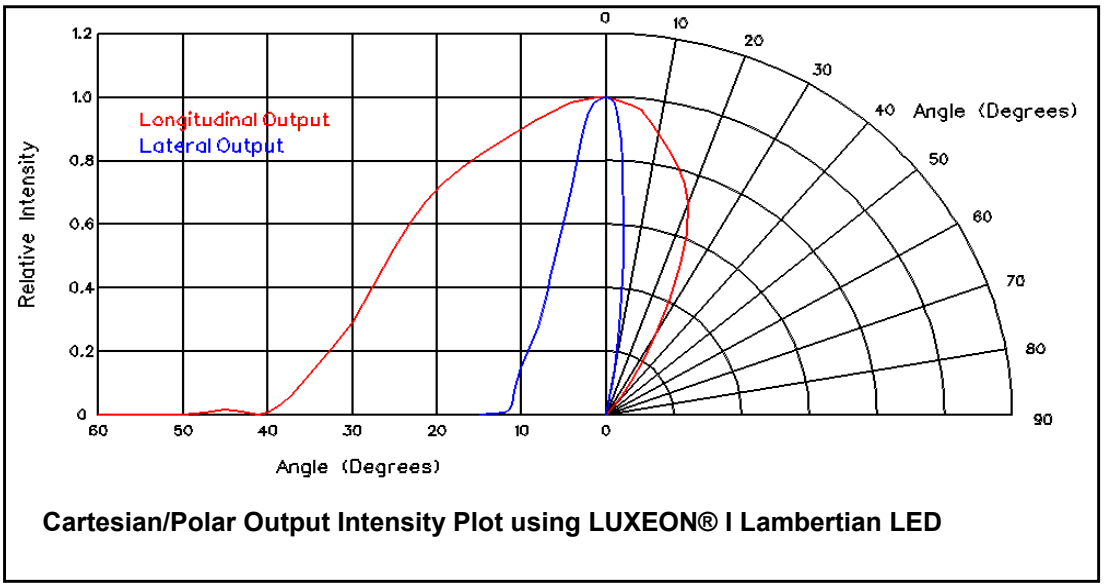



Raytrace Simulation of Typical Beam at 1m with 1W White LED






**Cartesian/Polar Output Intensity Plot using LUXEON® I Lambertian LED**

| Typical illuminace values using 25 lumen white LUXEON® I Emitter = 8cd/lumen | | | |
|---|---|---|---|
| Range | 0.5m | 1m | 2m |
| Illuminance | 800 lux | 200 lux | 50 lux |

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