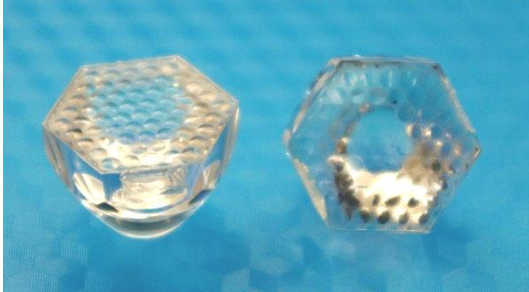
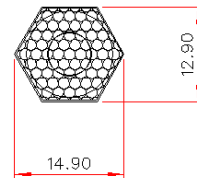


Wide Beam Multi-lens Collimator Lens - Part No. 272

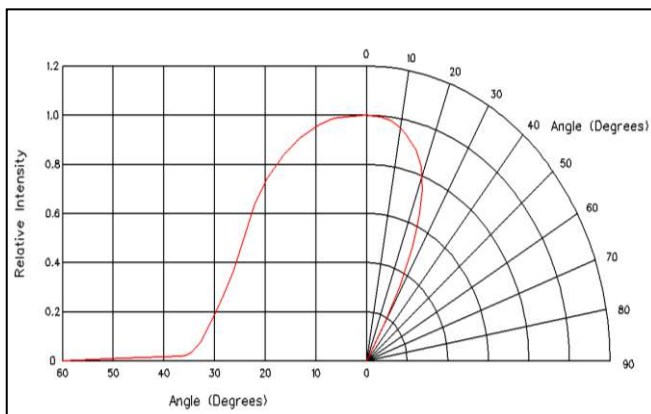


- Designed for High Power Lambertian LED sources
- High light collection efficiency of >85%
- Precision moulded in optical grade Polycarbonate for thermal stability and system durability
- Part of the Polymer Optics “Modular LED Optics”® range
- Polymer Optics “Modular LED Optics”® design, based on a hexagonal format, allows maximum packing density and assembly flexibility

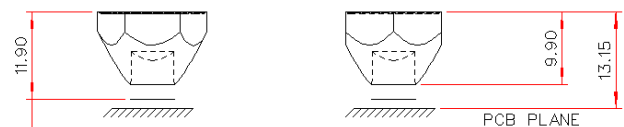
- POL optics are supplied pre-assembled into the appropriate holder to suit your chosen LED package and are ordered by part number 272/xxx, where xxx is the required holder part number.



Typical dimensional tolerances to +/-0.2mm



Typical Cartesian/Polar Output Intensity Plot with 1mm die size high Power LED



TYPICAL POSITION OF EFFECTIVE SOURCE.
CORRECT MOUNTING HEIGHT DEFINED BY
POL HOLDER TO SUIT LED

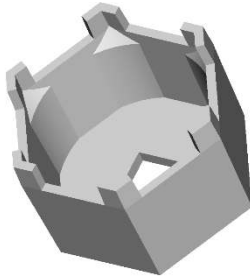
Typical peak illuminance with a 1mm die size Lambertian high power LED = 3cd/lumen

In order to determine if the particular beam properties and performance of this optic are suitable for your application with your chosen LED type, POL suggests that you obtain samples from POL or their distributors for your own product testing, as properties may vary with different LED types.

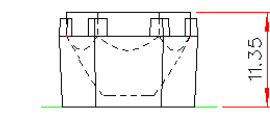
Due to continuous product improvement, POL reserve the right to change specifications without notice.

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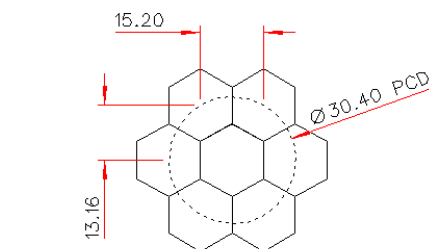
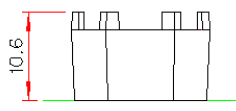
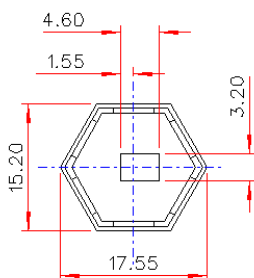
Lens Holder - Part No. 180



- Designed to fit Luxeon Rebel LED packages or similar devices
 - Simply mounts onto PCB over the LED and self-aligns to the LED package
 - Precision moulded in high quality 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
- POL optics are supplied pre-assembled into the appropriate holder to suit your chosen LED package and are ordered by part number xxx/180, where xxx is the required optic part number.
 - Please see POL’s on-line product catalogue to determine the correct holder and optic combination for your particular LED type

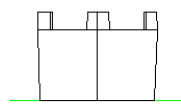


OPTIC AND HOLDER ASSY.



NESTED COMPONENTS ON 30.4MM PCD

Typical dimensional tolerances to $\pm 0.2\text{mm}$



The POL optics assembly can be attached to the PCB with a range of adhesives including epoxies, silicone based flexible adhesives, special super-glues, etc. The final choice of the adhesive will depend on the product application working environment. However, for most applications, POL recommends using Loctite 460 which is a cyano-acrylate “super glue” type adhesive, but a specially formulated low odour, low bloom adhesive for clear plastics. This adhesive will not produce the white cloudiness which occurs with other “super-glue” types and forms a strong bond in seconds between the optics holder and the PCB. Further information on this, and other adhesives, can be found at www.loctite.co.uk

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