



Our Focus is in Plastics

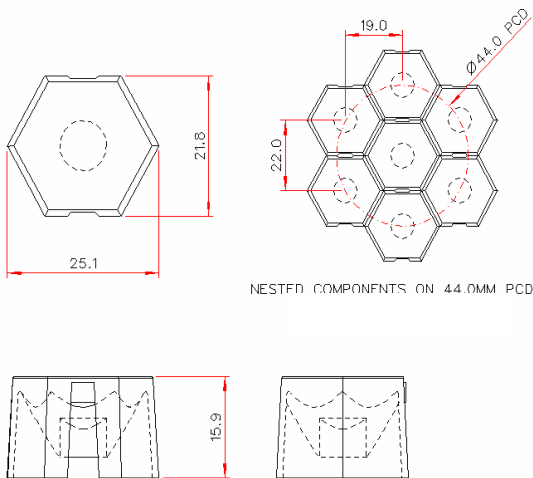
Polymer Optics Ltd.

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

6 Degree Supa-Hex© LED Lens - Part No. 152



- Suitable for Seoul Semiconductor P3 and P4 LED's
- High light collection efficiency of >85%
- New single piece, holder-less design for easier assembly, lower cost and improved luminaire aesthetics.
- Patent applied for hexagonal shape for close packed uniform look of luminaire.
- Designed for standard 22mm pitch to replace existing large format LED collimator products on the market.
- Precision moulded in optical grade Polycarbonate for thermal stability and system durability



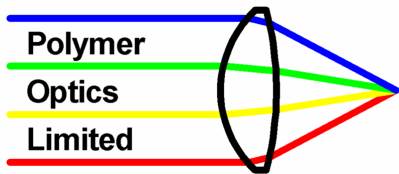
Typical dimensional tolerances
to +/-0.2mm



POL's unique hexagonal shaped optics close pack in arrays for a uniform illuminated look to the luminaire and superior projected illumination uniformity.

Each optic simply fits over the LED package and self-aligns to the optical axis. No other assembly required.

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

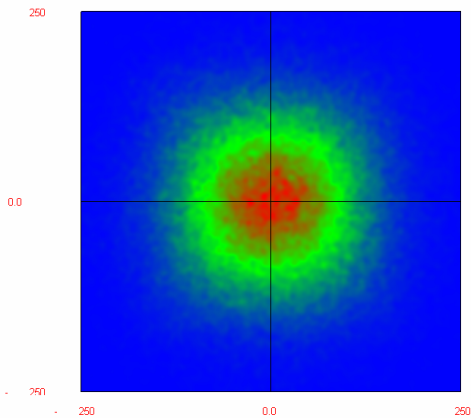


Our Focus is in Plastics

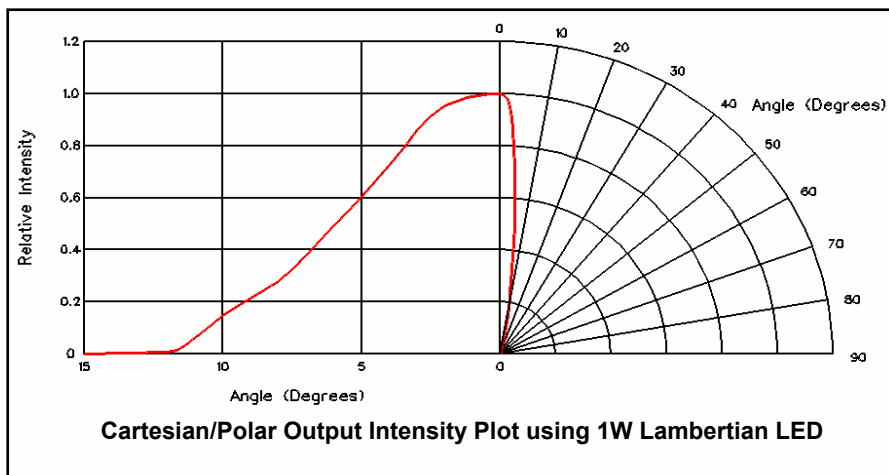
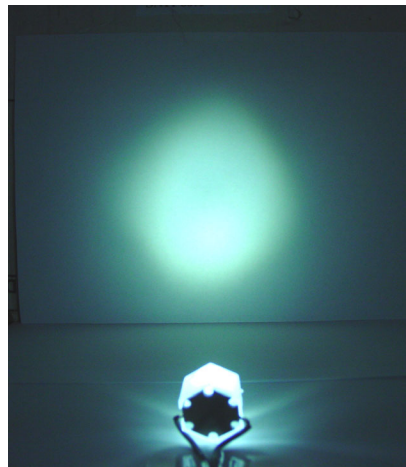
Polymer Optics Ltd.

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

6 Degree Supa-Hex© LED Lens - Part No. 152



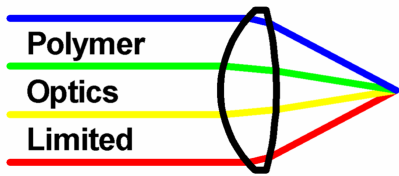
Raytrace Simulation of Typical Beam at 1m with 1W White LED



Cartesian/Polar Output Intensity Plot using 1W Lambertian LED

| Typical illuminance values using a 1W white LED at 40 lumens = 21cd/lumen | | | |
|--|----------|---------|---------|
| Range | 0.5m | 1m | 2m |
| Illuminance | 3400 lux | 850 lux | 212 lux |

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



Our Focus is in Plastics

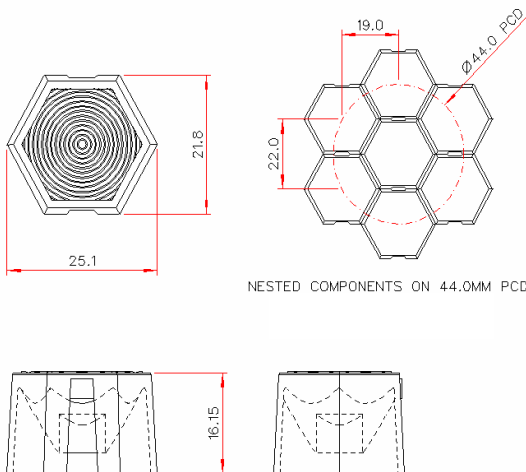
Polymer Optics Ltd.

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

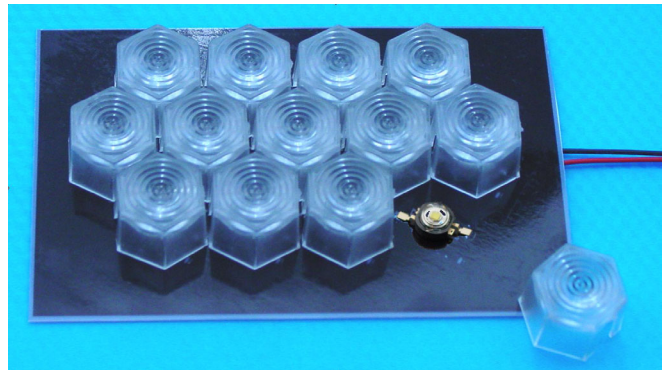
25 Degree Supa-Hex© LED Lens - Part No. 153



- Suitable for Seoul Semiconductor P3 and P4 LED's
- High light collection efficiency of >85%
- New single piece, holder-less design for easier assembly, lower cost and improved luminaire aesthetics.
- Patent applied for hexagonal shape for close packed uniform look of luminaire.
- Designed for standard 22mm pitch to replace existing large format LED collimator products on the market.
- Precision moulded in optical grade Polycarbonate for thermal stability and system durability

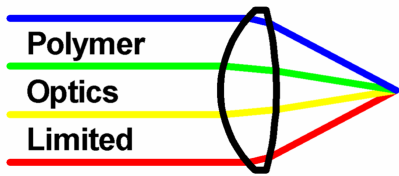


Typical dimensional tolerances
to +/-0.2mm



POL's unique hexagonal shaped optics close pack in arrays for a uniform illuminated look to the luminaire and superior projected illumination uniformity.

Each optic simply fits over the LED package and self-aligns to the optical axis. No other assembly required.

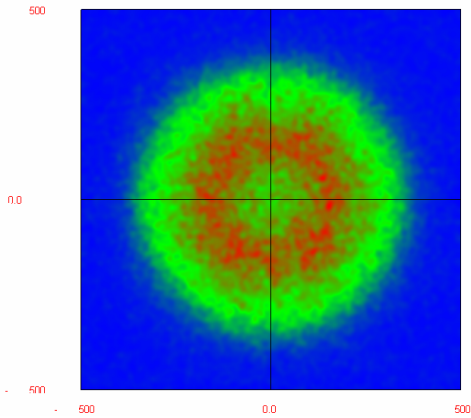


Our Focus is in Plastics

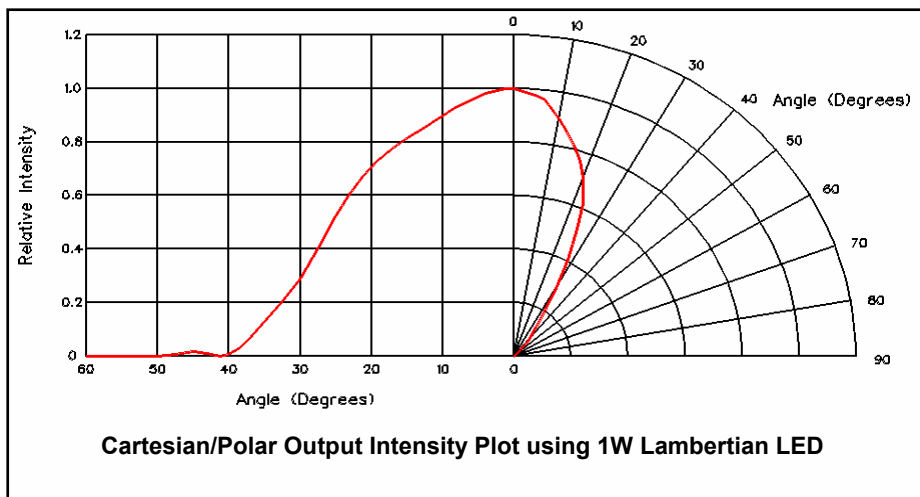
Polymer Optics Ltd.

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

25 Degree Supa-Hex© LED Lens - Part No. 153



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

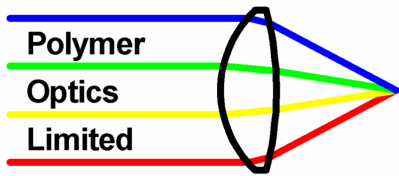


Cartesian/Polar Output Intensity Plot using 1W Lambertian LED

Typical illuminance values using a 1W white LED at 40 lumens = 3 cd/lumen

| | | | |
|-------------|---------|---------|--------|
| Range | 0.5m | 1m | 2m |
| Illuminance | 480 lux | 120 lux | 30 lux |

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



Our Focus is in Plastics

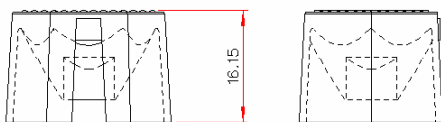
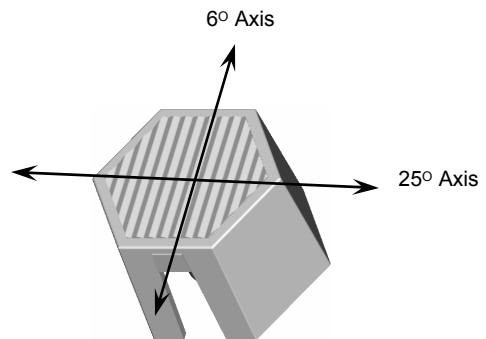
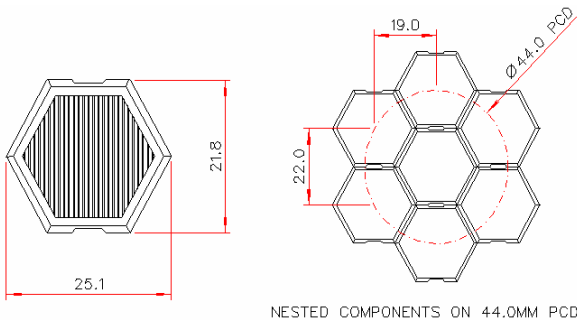
Polymer Optics Ltd.

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

6x25 Degree Supa-Hex© LED Lens - Part No. 154



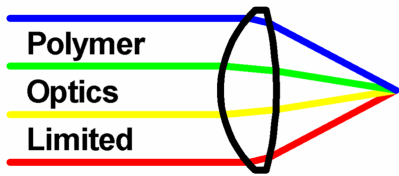
- Suitable for Seoul Semiconductor P3 and P4 LED's
- High light collection efficiency of >85%
- New single piece, holder-less design for easier assembly, lower cost and improved luminaire aesthetics.
- Patent applied for hexagonal shape for close packed uniform look of luminaire.
- Designed for standard 22mm pitch to replace existing large format LED collimator products on the market.
- Precision moulded in optical grade Polycarbonate for thermal stability and system durability



Typical dimensional tolerances
to +/-0.2mm

POL's unique hexagonal shaped optics close pack in arrays for a uniform illuminated look to the luminaire and superior projected illumination uniformity.

Each optic simply fits over the LED package and self-aligns to the optical axis. No other assembly required.

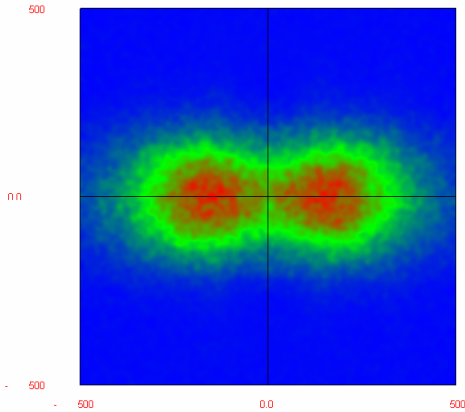


Our Focus is in Plastics

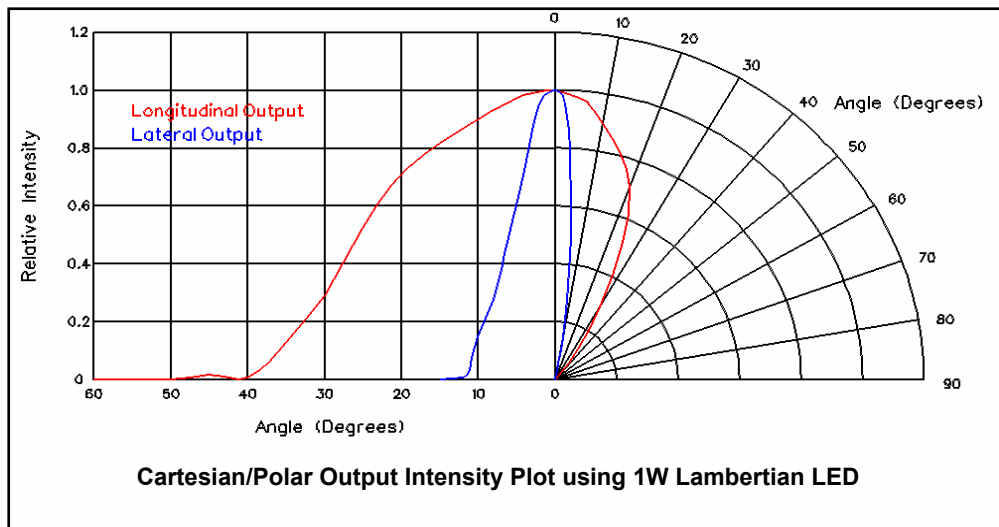
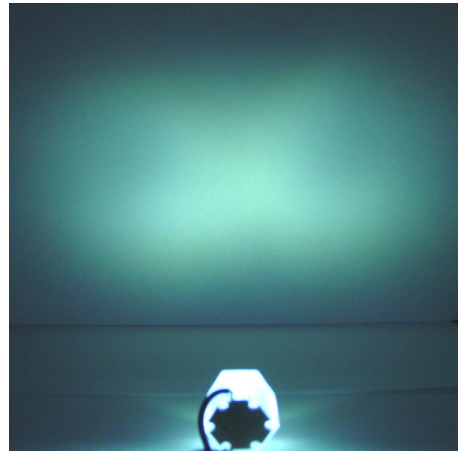
Polymer Optics Ltd.

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

6x25 Degree Supra-Hex© LED Lens - Part No. 154

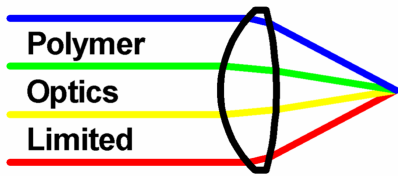


Raytrace Simulation of Typical Beam at 1m with 1W White LED



| Typical illuminance values using a 1W white LED at 40 lumens = 5.25 cd/lumen | | | |
|---|---------|---------|--------|
| Range | 0.5m | 1m | 2m |
| Illuminance | 840 lux | 210 lux | 53 lux |

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


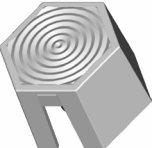
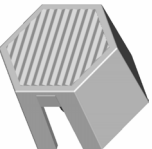


Our Focus is in Plastics

Polymer Optics Ltd.

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

Supa-Hex© LED Optic Product Summary and Price List

| Product Image | Description | Usage | 100-1K Batches | 1K-5K Batches | 5K-10K Batches | 10K-50K Batches | 50K-100K Batches |
|--|----------------------|--------------------|----------------|---------------|----------------|-----------------|------------------|
|  152 | 6° Supa-Hex Optic | P3 and P4 Emitters | £1.00 | £0.70 | £0.50 | £0.40 | £0.33 |
|  153 | 25° Supa-Hex Optic | P3 and P4 Emitters | £1.00 | £0.70 | £0.50 | £0.40 | £0.33 |
|  154 | 6x25° Supa-Hex Optic | P3 and P4 Emitters | £1.00 | £0.70 | £0.50 | £0.40 | £0.33 |

A minimum order value £50+shipping - All prices “ex-works”

Please contact POL for higher volumes and custom variants