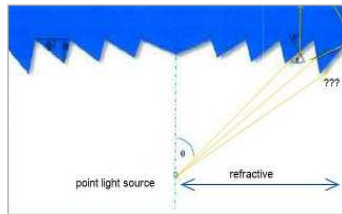


CY 584 – STRUCTURE FOR GLARE REDUCTION

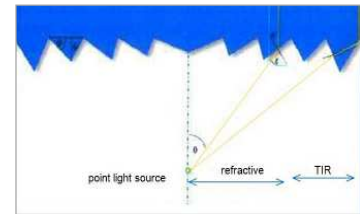
The CY 584 is a cylindrical fresnel lens which has been specifically developed for the glare reduction in lighting applications. By using this linear structure a Batwing-distribution with peaks in $\pm 25^\circ$ for very flat lamps is generated. The result is a homogeneous and uniform illumination.

The cylindrical fresnel lens CY 584 consists of linear grooves whose slope angles are getting steeper in the outer area of the lens.

In order to avoid light losses, a TIR-structure is being used. This results in an effective use of the outer segments of the lens.

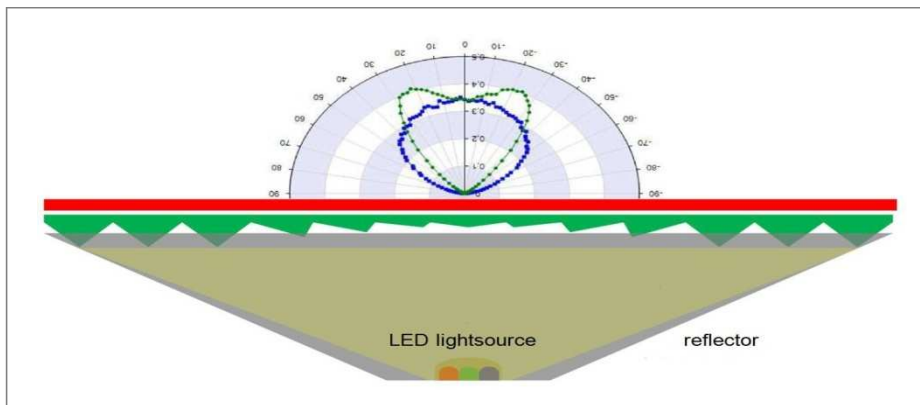


refractive structure



refractive structure and TIR-structure

Light distribution curve of the CY 584 in combination with a diffusor



Lightsource: LED with lambertian radiation pattern; Distance LED-Optic: ~ 10mm

For homogenization purposes the CY 584 can be combined with a diffusive structure on the plano side. In addition to this, it is possible to apply an antireflective coating which will enhance the energy efficiency. The mechanical resistance can be improved by the use of a hard coating.

Parameter of the CY 584

- Facet Spacing: 0.25 mm
- Clear Aperture: 100.0 mm x 150.0 mm
- Structure Width: refractive area 30 mm / TIR-area 35 mm each
- Thickness: 1.8 mm (other thicknesses are possible)
- Material: PMMA (other materials upon request)

Engineered to Manage Light™

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