

R110x100-0-G-001 Preliminary Datasheet

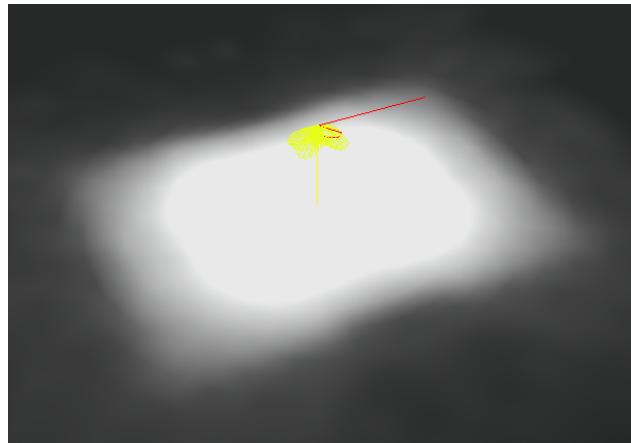
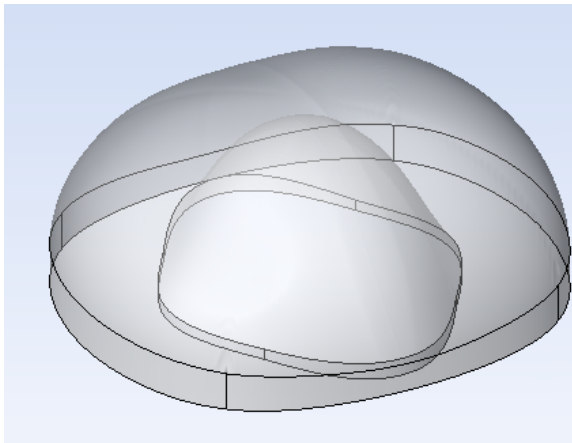
R110x100-0-G-001 - part of Upstream FreeForm optics - provides high efficiency, rapidly opening beam for uniform rectangular illumination.

Applications

- Parking lot and site lighting
- Hall lighting
- Navigation area lamps
- Machine vision illumination
- Specialty illumination

Compatible LED sources

- Luxeon Rebel
- Cree XPE, Cree XPG, Osram Oslon



Upstream FreeForm optics

Upstream FreeForm optics are based on an advanced proprietary design algorithms that are allowing unbeatable efficiency and light distribution characteristics for LED lighting applications. It is especially good choice when a wide area needs to be illuminated uniformly. The FreeForm technology provides uniform solid beam with smaller optics size.

Upstream FreeForm optics can create the desired light beam for your application - whether you prefer rectangular or circular beam shape with wide or narrow angle. With the optimized application specific light distribution, all the light from the LED chip is used to illuminate the object without wasting light and energy for undesired places. This provides very significant - up to 80% - energy saving compared to normal LED lamps.

Contact Information

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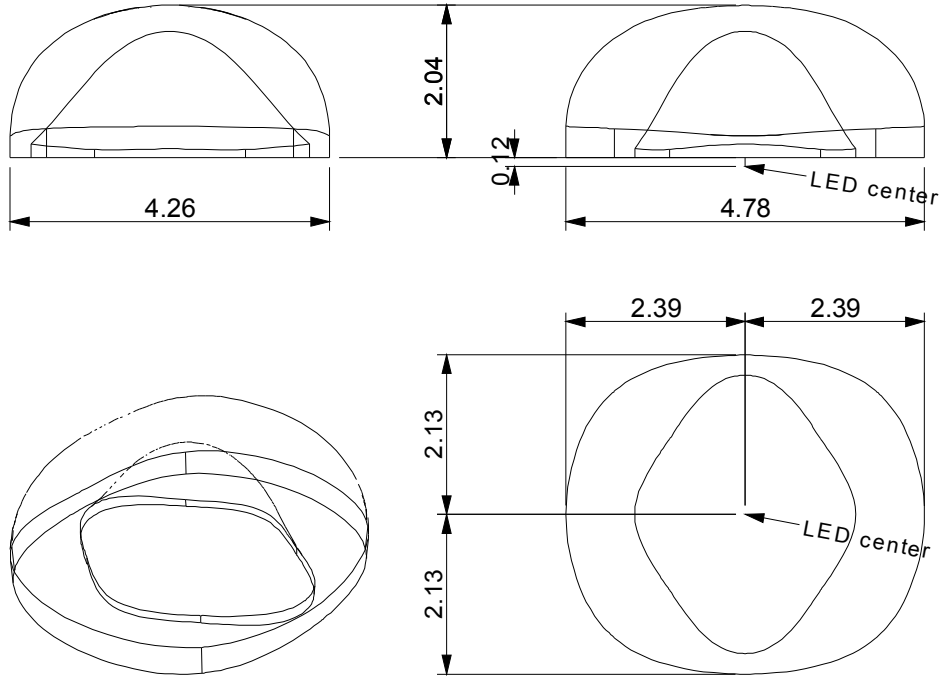
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Mechanical

Lens dimensions: 4.78 x 4.26 x 2.04 (millimeters)

Lens material: PMMA



Photometrics

Beam angular output: 110 x 100 deg full opening angle, no offset
 Illumination at a plane: 4:3 smoothed rectangle

Beam size (FWHM):

Distance	x-width	y-width
1 m	3.0 m	2.3 m
4 m	12.0 m	9.2 m
8 m	24.0 m	18.4

Eulumdat file available on request.

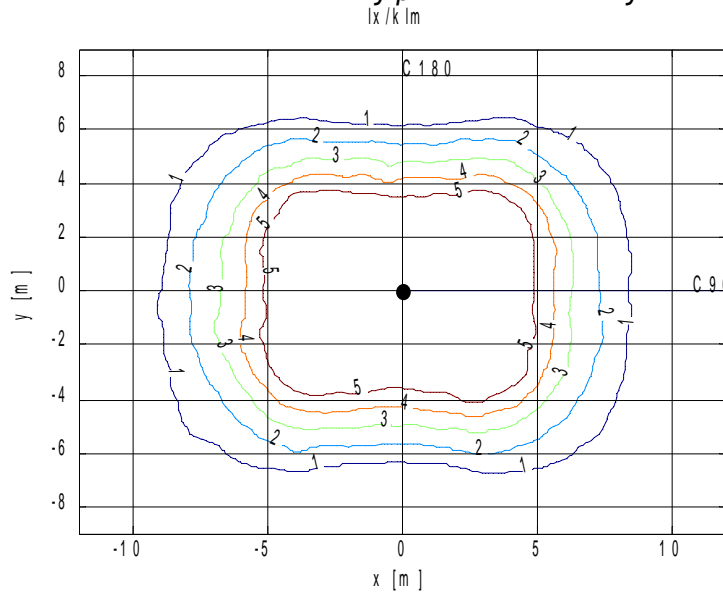
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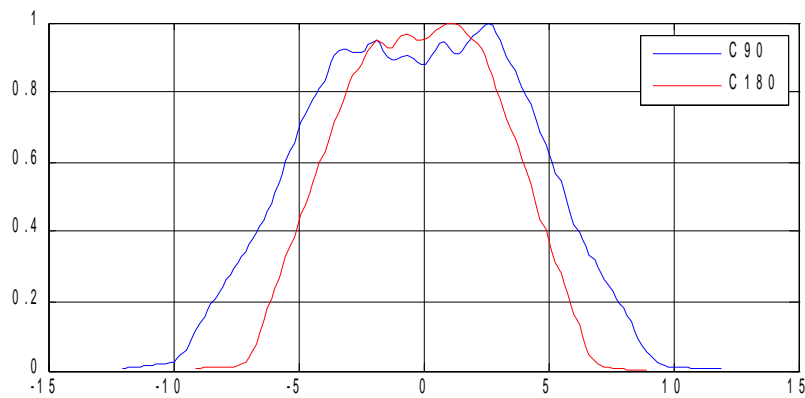
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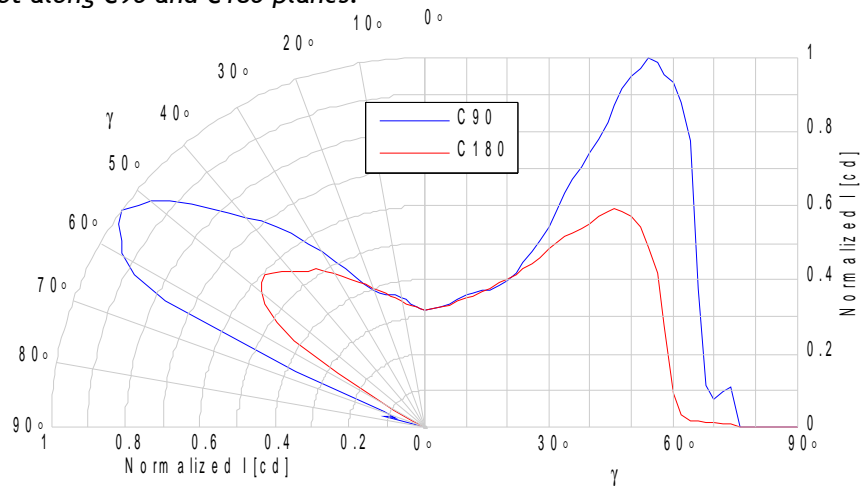
Beam beam cross section at $z = 4$ m distance. Lens xy -position is shown by a black dot.



Beam profiles along C270-C90 and C0-C180 planes.



Relative candela plot along C90 and C180 planes.



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