

**Part No. 994**  
**Silicone 7 Cell Concentrator Optic**

This optic has been designed to concentrate the light from up to 7 extremely high power LEDs in to a small area. The primary application is for coupling light into fibre optic bundles but its high transmission of both short wavelength blue light and UV-A ultra-violet wavelengths makes it suitable for applications such as curing UV setting resin.

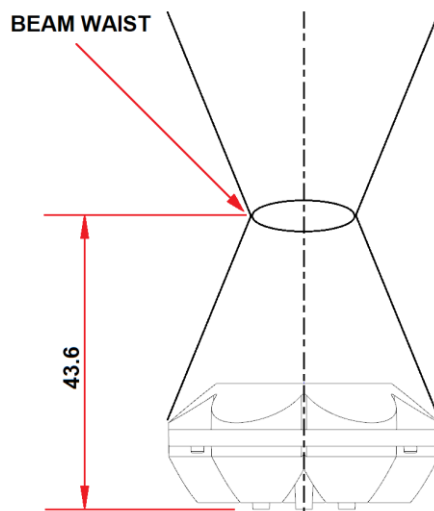


- **Designed to work with extremely high flux LEDs such as the Cree XM-L2, XHP35, Luxeon M or Osram Ostar Boost.**
- **Exceptional photothermal stability to combat yellowing. Capable of long term operation with LEDs emitting more than 10000 lumens in total.**
- **No significant loss of clarity after 10 000 hours at 150°C.**
- **Light transmission efficiency of 85%**
- **Extended transmission wavelength range of 350nm to 1500nm.**
- **Resistant to thermal shock and cracking.**

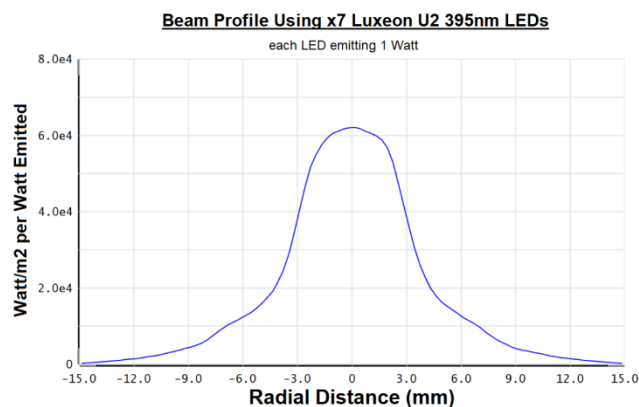
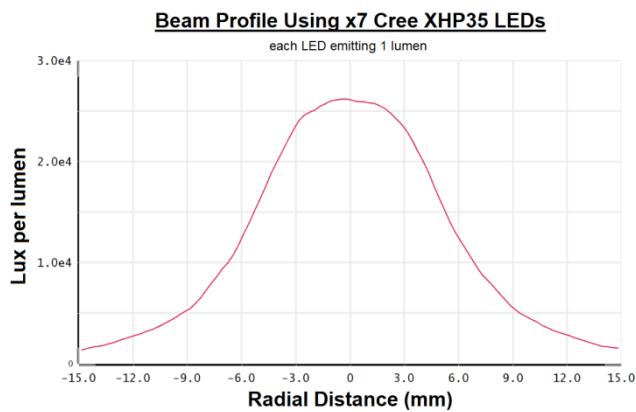
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The position of the beam waist is shown below.

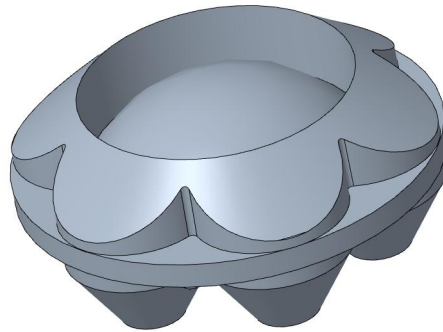


The graph below shows the size of the beam waist for different LED emitting source.



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The picture below is a 3D interactive model of the part. Click to activate.



The focal position of the PCB relative to the optic is set by three legs. The angular orientation can be referenced using the three  $\text{\O}2\text{mm}$  pins on the flange.

