8 degree optic for CREE XB-D LED

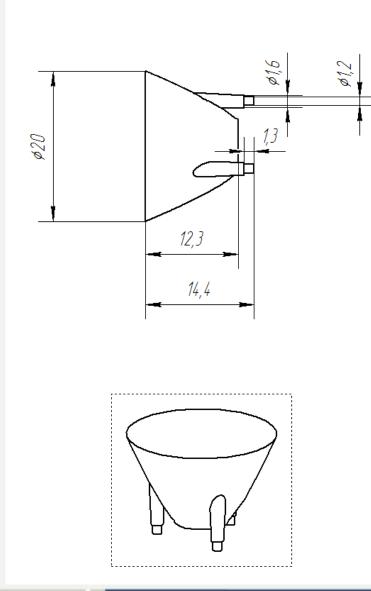
Optics for Hire

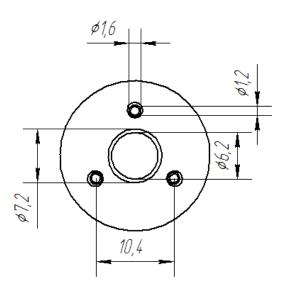
Optics for Hire 455 Massachusetts Ave Suite 1 Arlington MA 02474

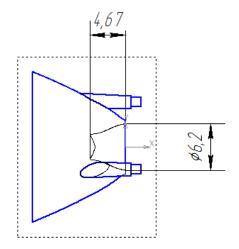
Ph: 781 583 7810 Fax: 781 583 7812 E-mail: <u>info@opticsforhire.com</u> Attn: John Ellis



Designed optics





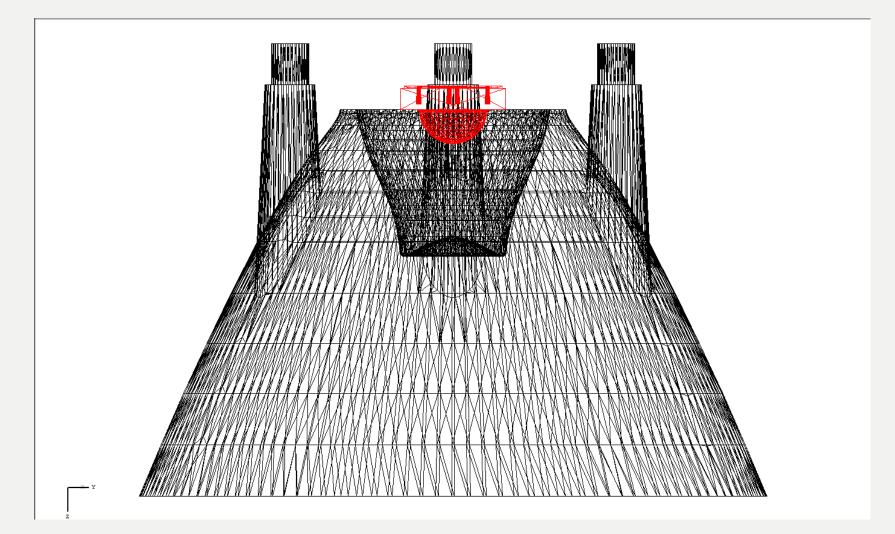


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LED position

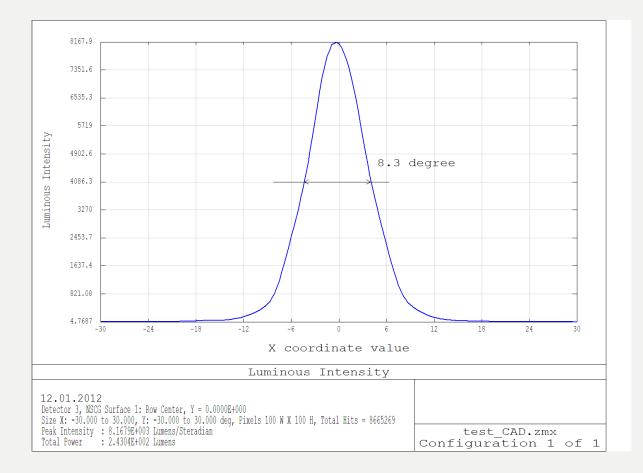




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Intensity vs. angle

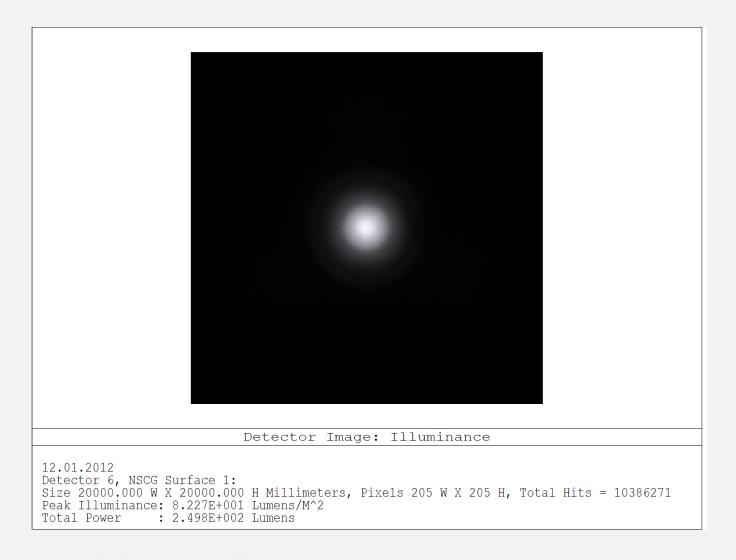
Angle is +/- 8.3 degree at half maximum, LED flux is used for chart is 300 lumen.





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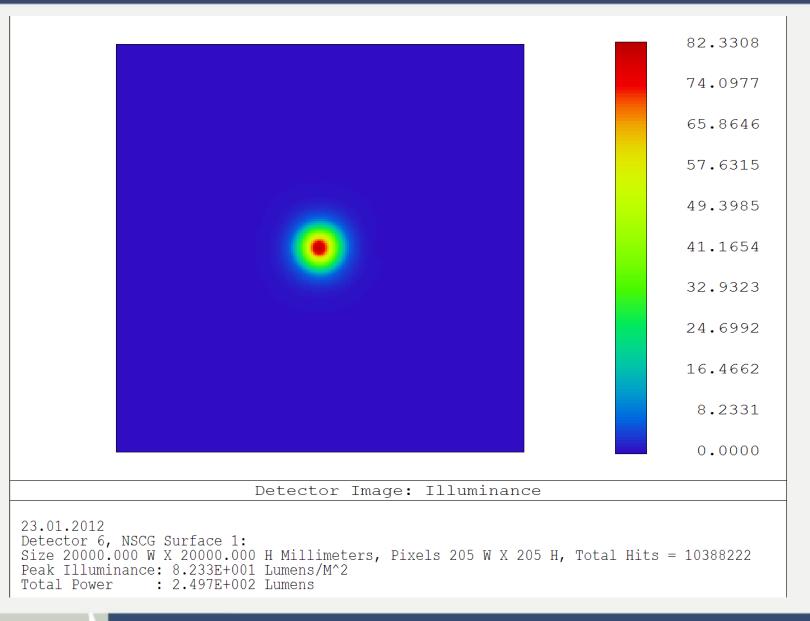
www.opticsforhire.com

Light spot in false color



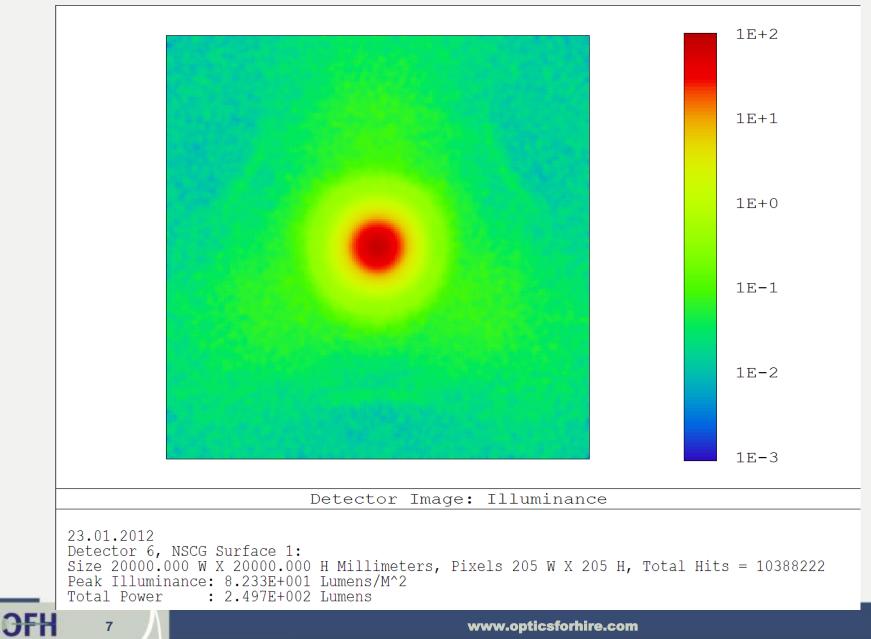
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Light spot in false color in log scale



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Performance Data

• Theoretical efficiency is 93% but depends of manufacturing process. This is defined as 93% of light is directed to target from lens. Typically molded part has 85-90% total efficiency