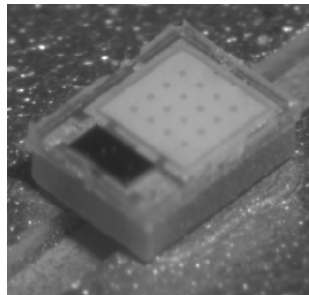


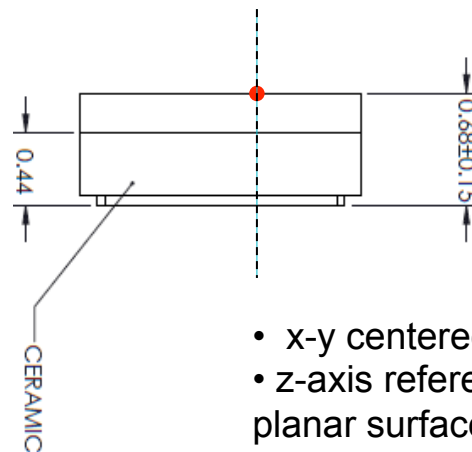
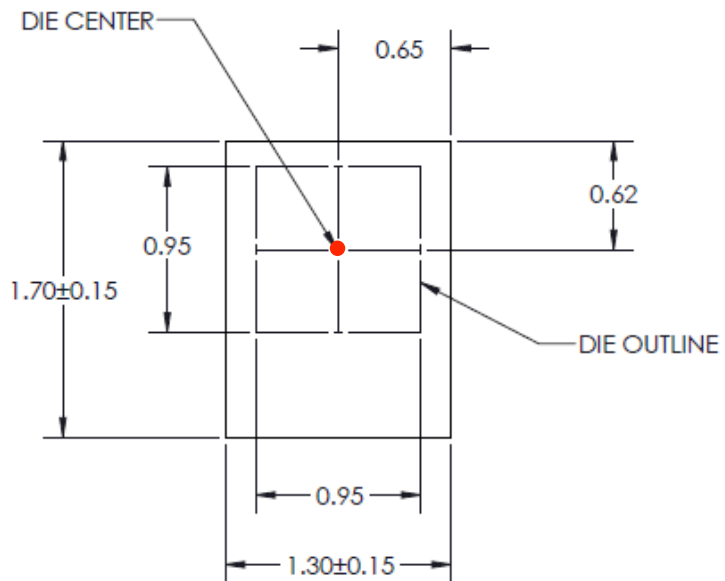
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Optical Ray File Information for LUXEON® UV

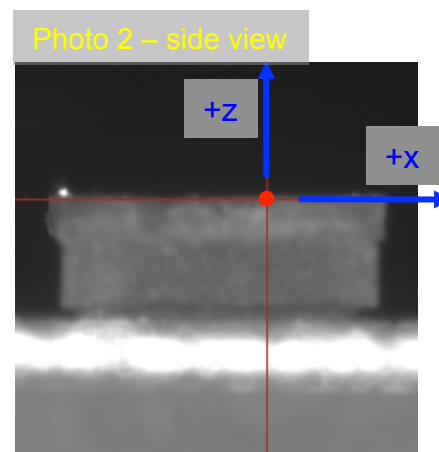
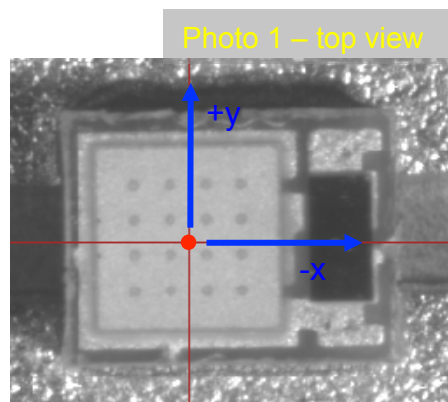
May 29th 2013



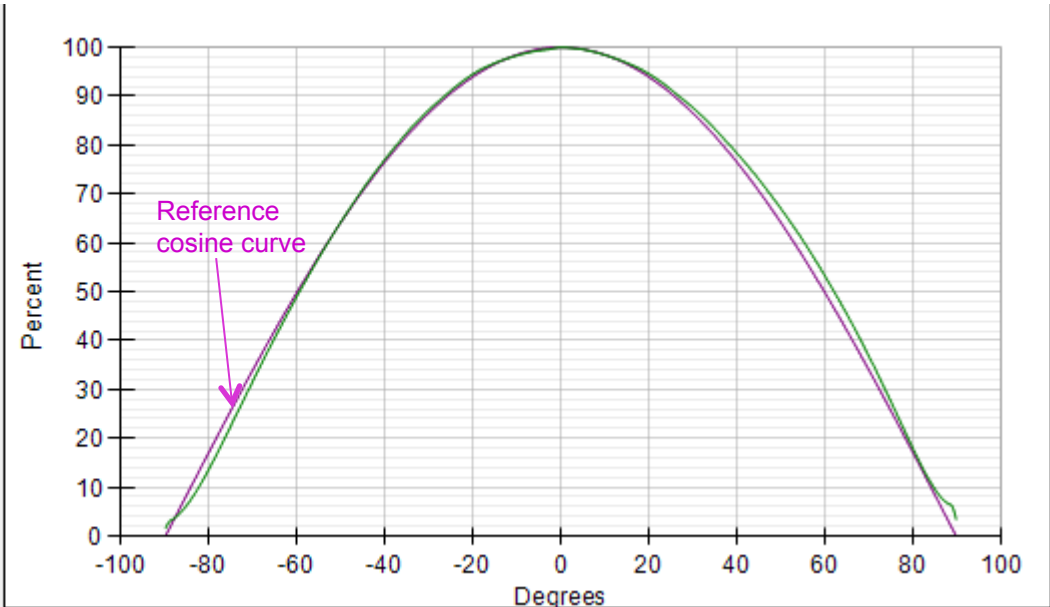
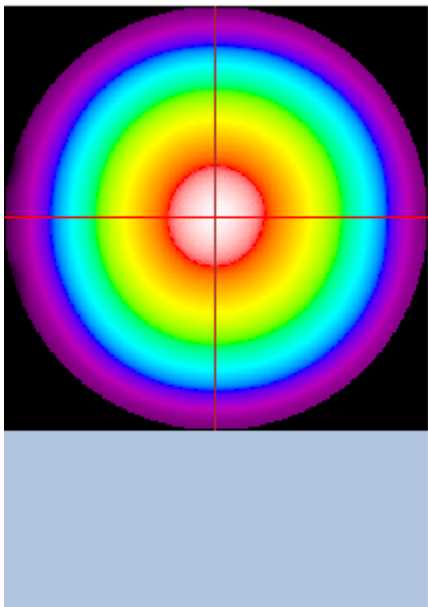
Location of Reference Point



- x-y centered on chip as shown
- z-axis referenced above silicone planar surface as shown below



Radiation Pattern





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