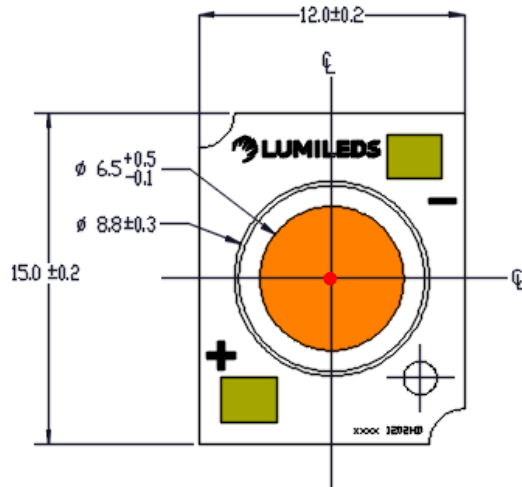


# Optical Ray File Information for LUXEON CoB Core Range – High Density

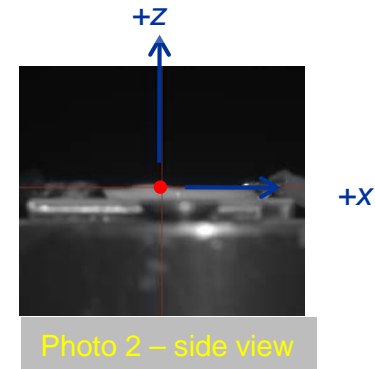
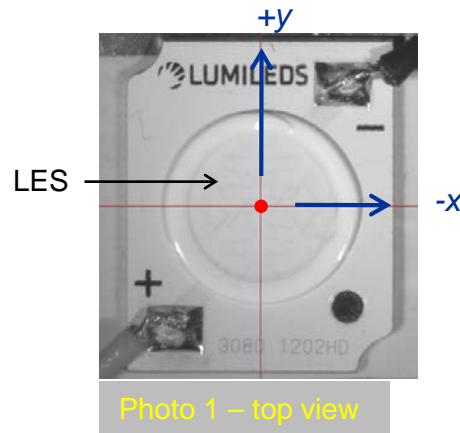
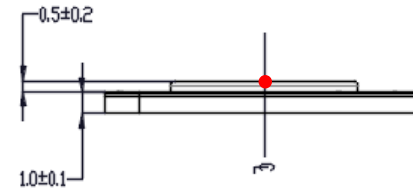
May 25<sup>th</sup>, 2017



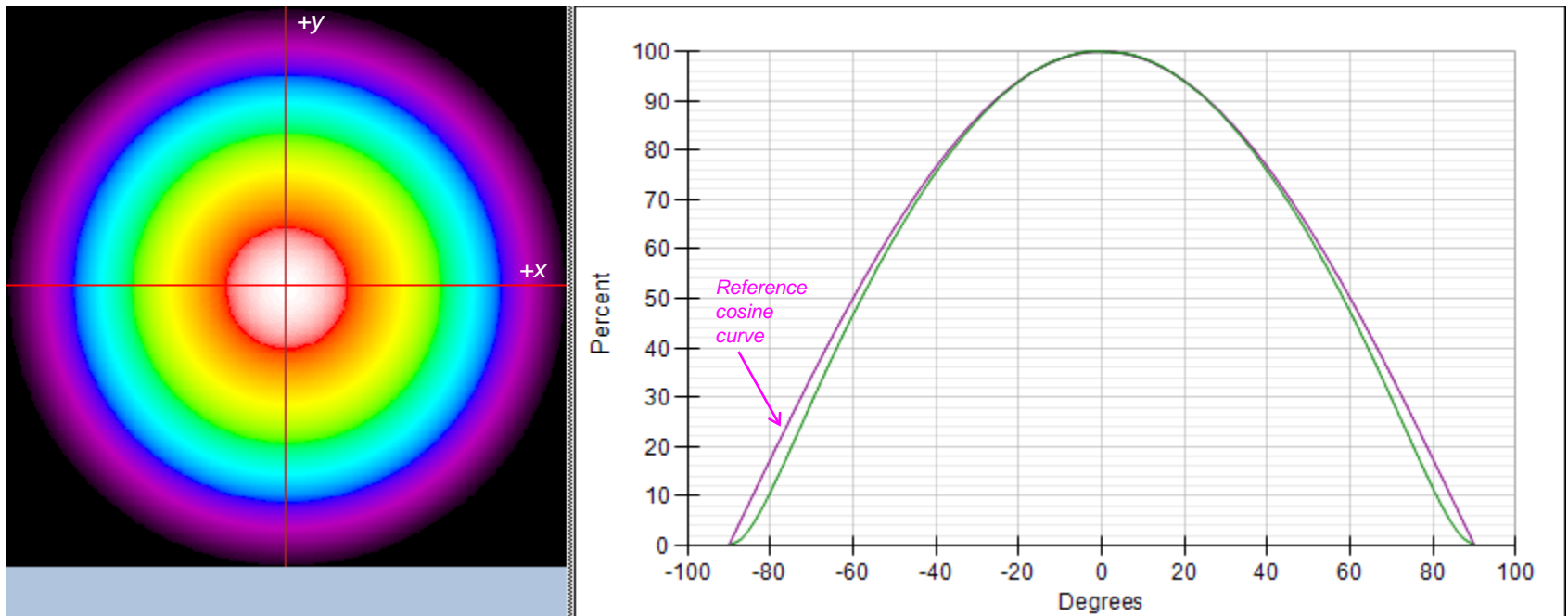
# Reference Point – LUXEON CoB 1202HD (DS189)



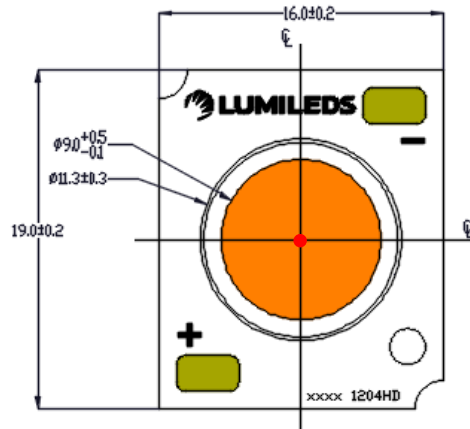
x-y center on light emitting surface (LES)  
z-axis referenced to top of LES area



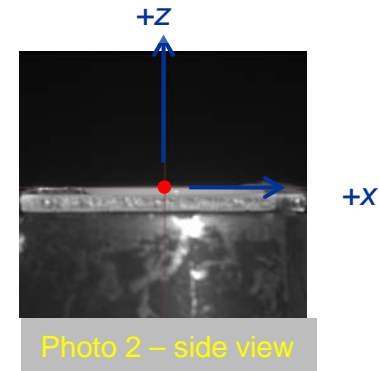
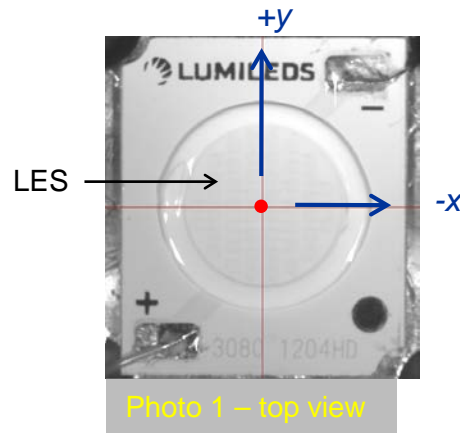
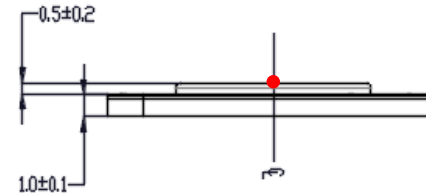
# Radiation Pattern – LUXEON CoB 1202HD



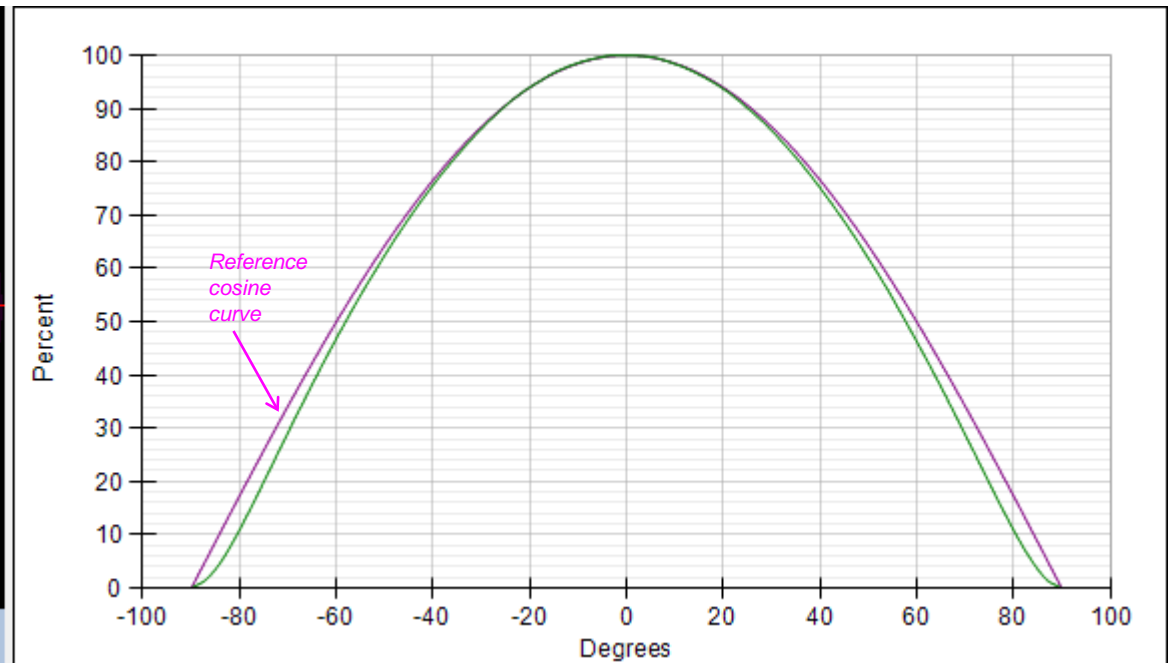
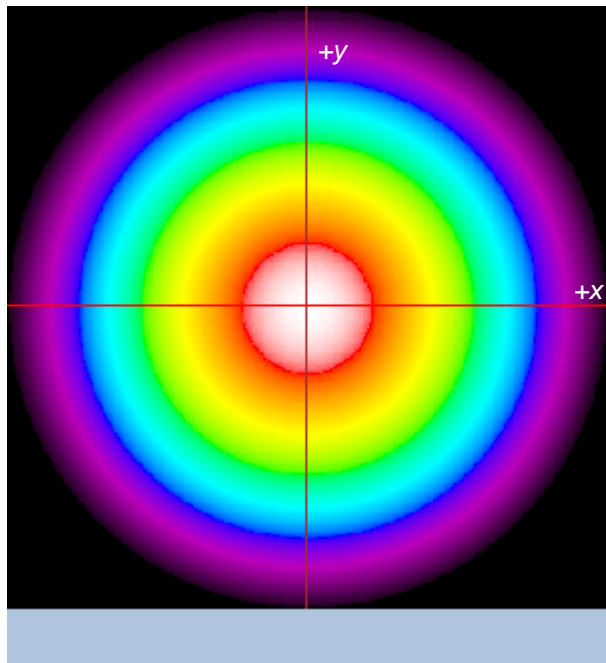
# Reference Point – LUXEON CoB 1204HD (DS189)



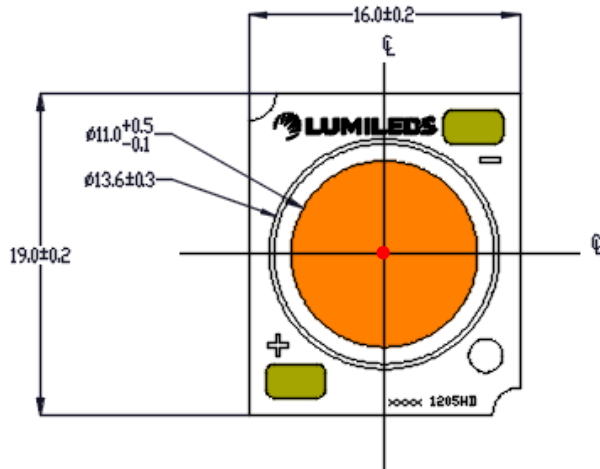
x-y center on light emitting surface (LES)  
z-axis referenced to top of LES area



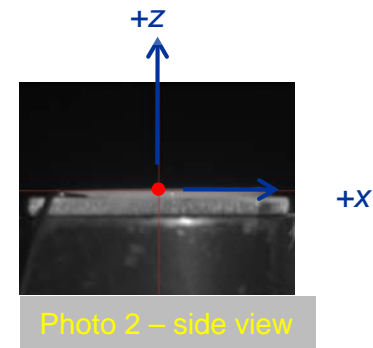
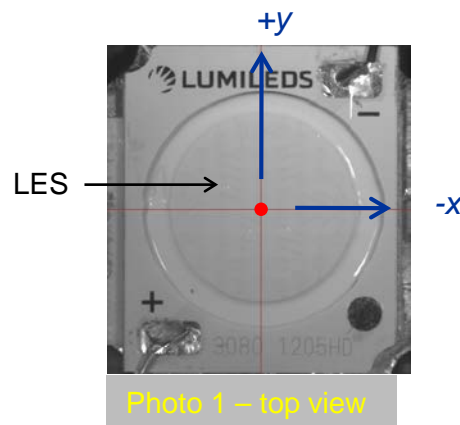
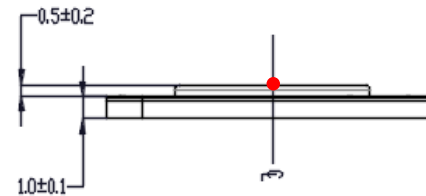
# Radiation Pattern – LUXEON CoB 1204HD



# Reference Point – LUXEON CoB 1205HD (DS189)



x-y center on light emitting surface (LES)  
z-axis referenced to top of LES area



# Radiation Pattern – LUXEON CoB 1205HD

