



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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Spot



Wide



Oval



Medium



## Universal TIR Optics

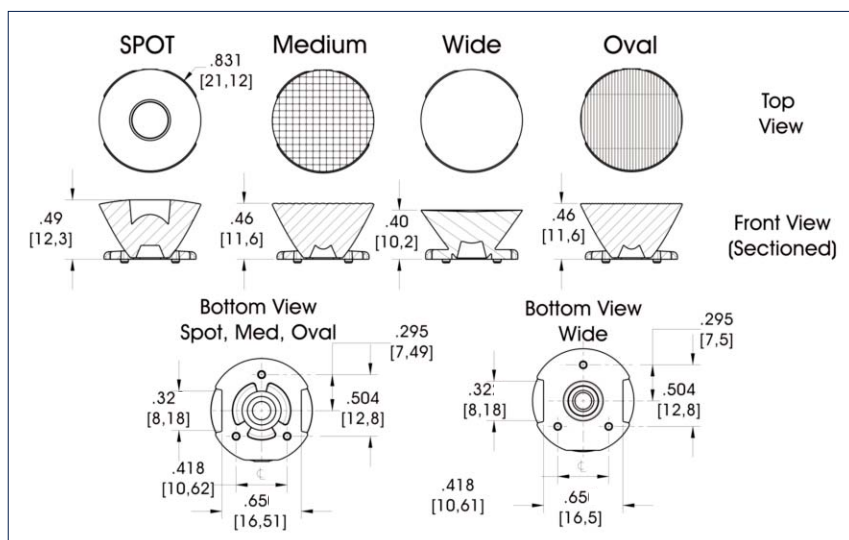
### Adhesive-Backed Lens System

#### Features / Benefits

- For LUXEON® Rebel ES, rebel LXML
- For Cree XPG and XTE
- For Nichia 219B
- Available in spot, medium, wide and oval lenses
- Integral self-adhesive pad
- Compact size
- Greater than 80% efficiency
- 3 alignment tabs to ensure accurate placement over LED

#### Specifications

Operating Temp:	-40°F to +230°F (-40°C to +110°C)
Material:	Optical grade polycarbonate
Listing:	UL 94-V2



#### Ordering Codes

BASE LENSES		
Dialight P/N	Description	Degree type
OPXC-1-SPOT	Spot Base Module	6°
OPXC-1-MED	Medium Base Module	14°
OPXC-1-WIDE	Wide Base Module	21°
OPXC-1-OVAL	Oval Base Module	6° X 20°

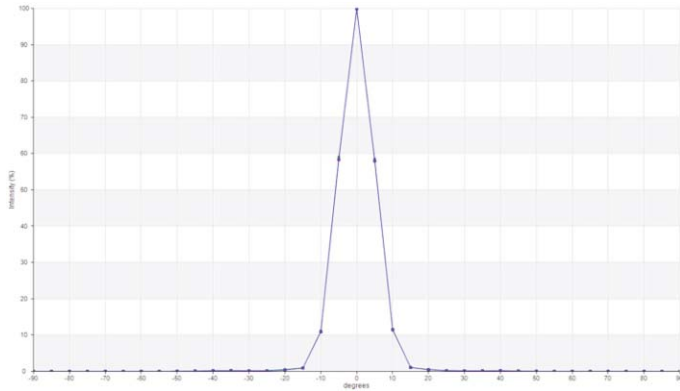
<sup>1</sup>All angles refer to half divergence  
Dashes are for reference only



# Universal TIR Optics

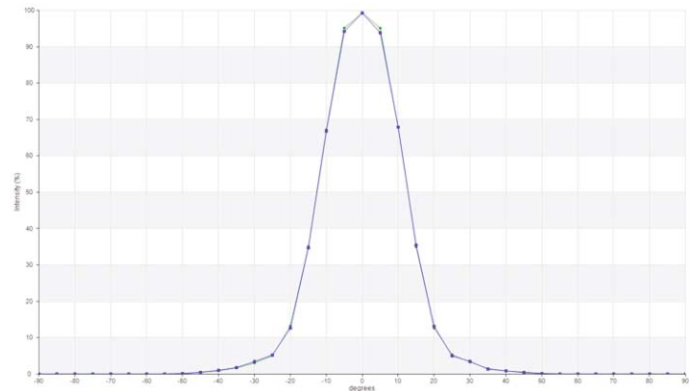
## Light Intensity Distribution

### Spot



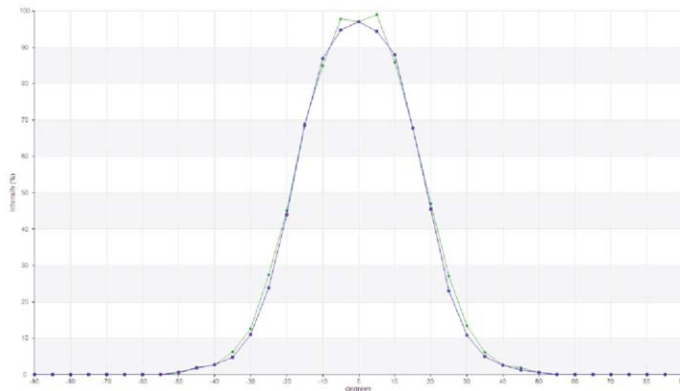
The typical full-width at half-maximum emission angle  
 10° (+/- 5 degree) for Cree XPG  
 10° (+/- 5 degree) for Cree XTE  
 12° (+/- 6 degree) for Luxeon rebel ES  
 10° (+/- 5 degree) for Luxeon rebel LXLM  
 13° (+/- 6.5 degree) for Nichia 219B

### Medium



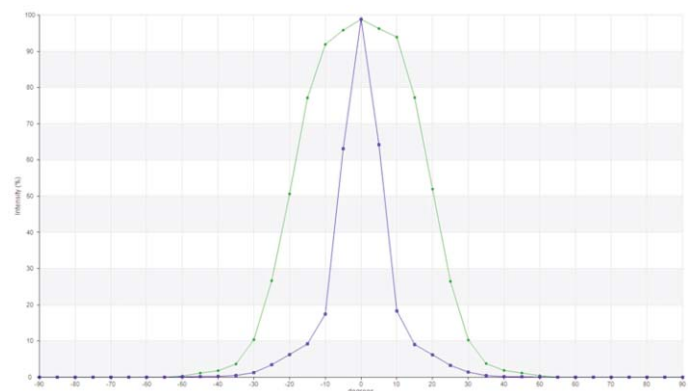
The typical full-width at half-maximum emission angle  
 23° (+/- 12.5 degree) for Cree XPG  
 24° (+/- 12 degree) for Cree XTE  
 24° (+/- 12 degree) for Luxeon rebel ES  
 27° (+/- 13.5 degree) for Luxeon rebel LXLM  
 24° (+/- 12 degree) for Nichia 219B

### Wide



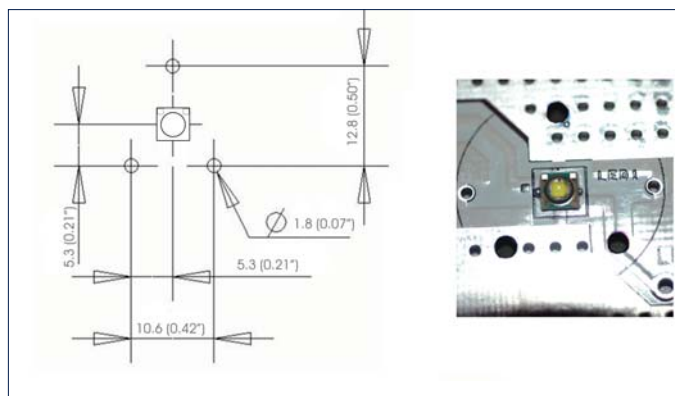
The typical full-width at half-maximum emission angle  
 47° (+/- 23 degree) for Cree XPG  
 50° (+/- 25 degree) for Cree XTE  
 50° (+/- 25 degree) for Luxeon rebel ES  
 40° (+/- 20 degree) for Luxeon rebel LXLM  
 50° (+/- 25 degree) for Nichia 219B

### Oval



The typical full-width at half-maximum emission angle  
 44° x 15° (+/- 22x7 degree) for Cree XPG  
 44° x 15° (+/- 22x7.5 degree) for Cree XTE  
 43° x 17° (+/- 21.5x8.5 degree) for Luxeon rebel ES  
 43° x 18° (+/- 21.5x9 degree) for Luxeon rebel LXLM  
 44° x 18° (+/- 22x9 degree) for Nichia 219B

## PCB ALIGNMENT DIMENSION DETAILS



For photometric data on other models, please contact factory

Dialight reserves the right to make changes at any time in order to supply the best product possible.

The most current version of this document will always be available at:

[www.dialight.com/Assets/Brochures\\_And\\_Catalogs/Illumination/MDEXLUMADBCREEXP.pdf](http://www.dialight.com/Assets/Brochures_And_Catalogs/Illumination/MDEXLUMADBCREEXP.pdf)