

### WINNIE-O

~60° + 20° oval beam. Holder with 35 mm screw hole distance according to Zhaga standard. Compatible with Bender+Wirth 4xx Typ L5 connector.

#### SPECIFICATION:

Dimensions	Ø 49.8 mm
Height	19.3 mm
Fastening	screw
ROHS compliant	yes ⓘ



#### MATERIALS:

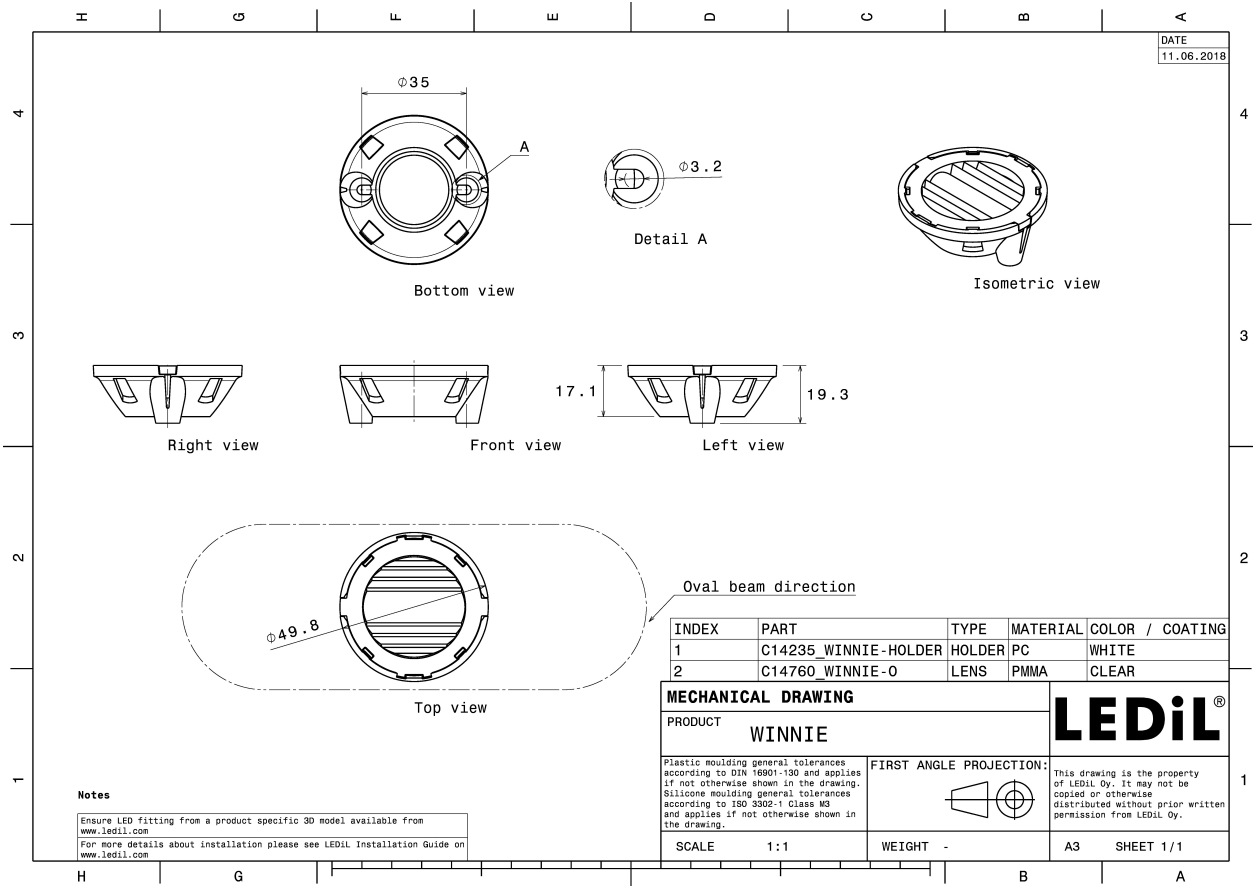
Component	Type	Material	Colour	Finish
C14760_WINNIE-O	Single lens	PMMA	clear	
C14235_WINNIE-HOLDER	Holder	PC	white	

#### ORDERING INFORMATION:

##### Quantities for one set:


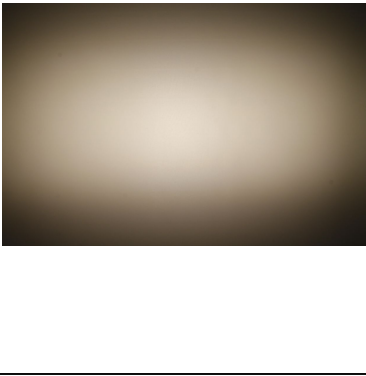
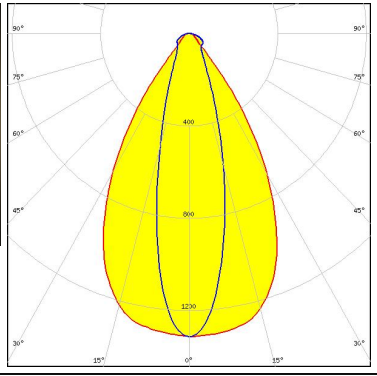

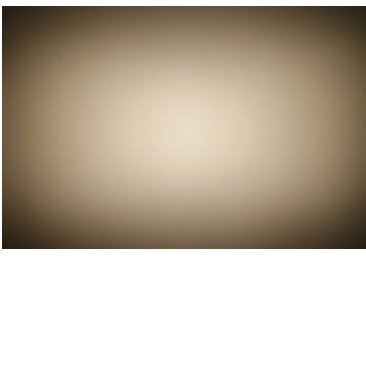
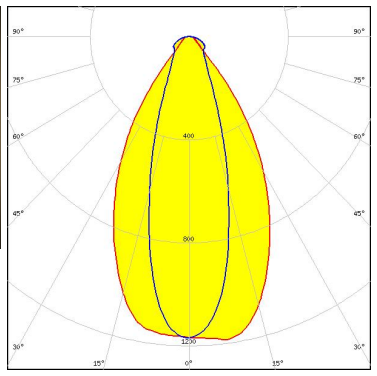

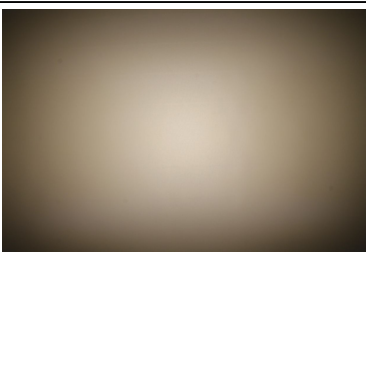
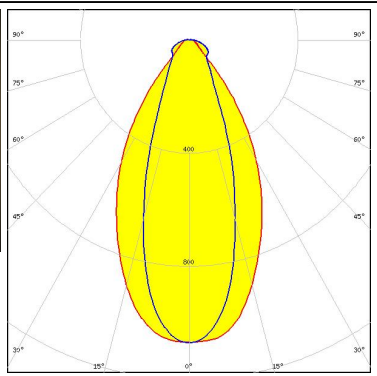

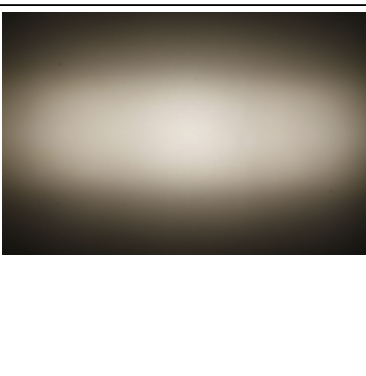
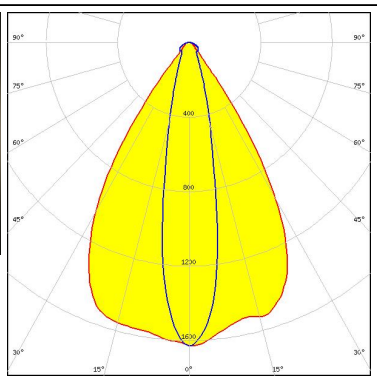
Single lens	1
Holder	1

Component		Qty in box	MOQ	MPQ	Box weight (kg)
C14760_WINNIE-O	Single lens	364	84	28	7.0
» Box size: 480 x 280 x 300 mm					
C14235_WINNIE-HOLDER	Holder	1820	84	28	7.2
» Box size: 480 x 280 x 300 mm					



See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

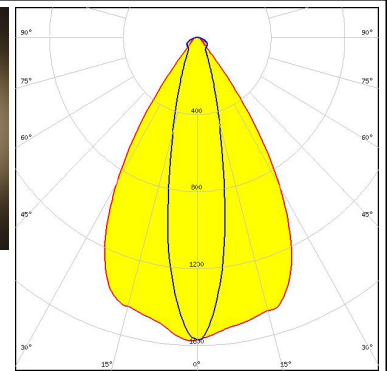
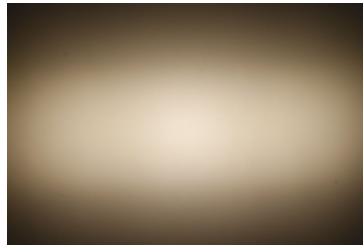
### OPTICAL RESULTS (MEASURED):

<p></p> <p>LED V13 Gen6</p> <p>FWHM / FWTM 62.0 + 27.0° / 85.0 + 60.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 1.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p></p> <p>LED V15 Gen6</p> <p>FWHM / FWTM 59.0 + 31.0° / 87.0 + 71.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 1.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p></p> <p>LED V18 Gen6</p> <p>FWHM / FWTM 57.0 + 35.0° / 89.0 + 80.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 1.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p></p> <p>LED V8 Gen6</p> <p>FWHM / FWTM 65.0 + 21.0° / 81.0 + 47.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 1.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

## OPTICAL RESULTS (MEASURED):

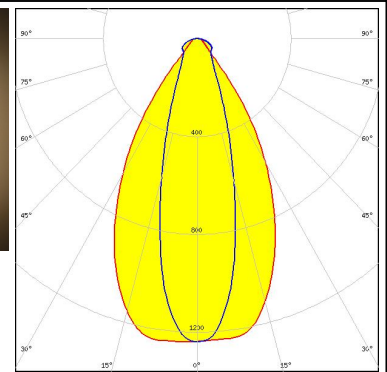
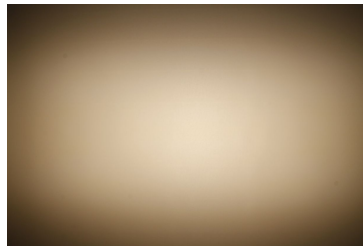
### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM / FWTM 63.0 + 22.0° / 82.0 + 52.0°  
 Efficiency 90 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 434 Typ L5



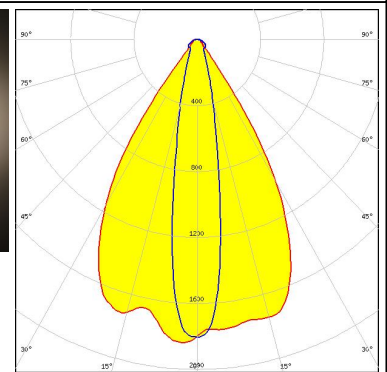
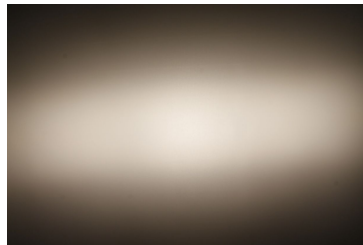
### CITIZEN

LED CLL03x/CLU03x  
 FWHM / FWTM 59.0 + 29.0° / 85.0 + 66.0°  
 Efficiency 90 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 433 Typ L5



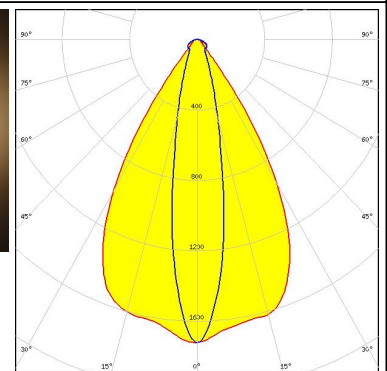
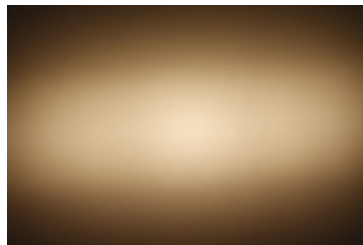
### CITIZEN

LED CLU700/701/702/703  
 FWHM / FWTM 64.0 + 18.0° / 79.0 + 43.0°  
 Efficiency 91 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### CITIZEN

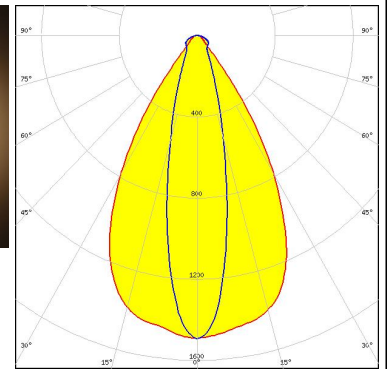
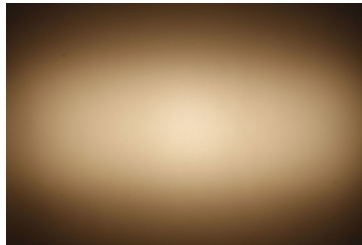
LED CLU710/711  
 FWHM / FWTM 63.0 + 20.0° / 81.0 + 48.0°  
 Efficiency 91 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 470 Typ L5



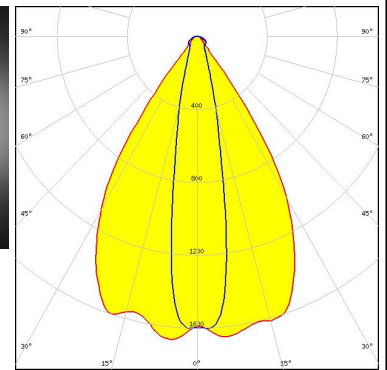
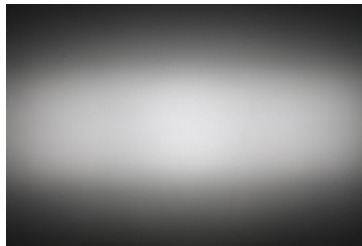
### OPTICAL RESULTS (MEASURED):

#### CITIZEN

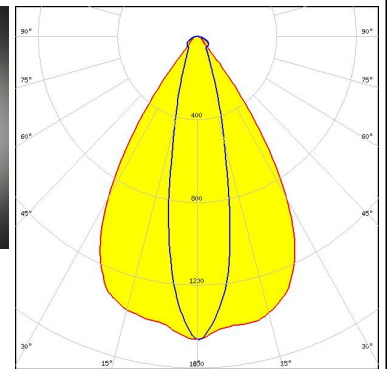
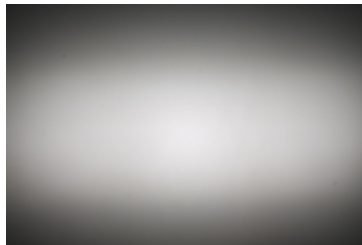
LED CLU720/721/723  
 FWHM / FWTM 61.0 + 23.0° / 83.0 + 55.0°  
 Efficiency 90 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 433 Typ L5



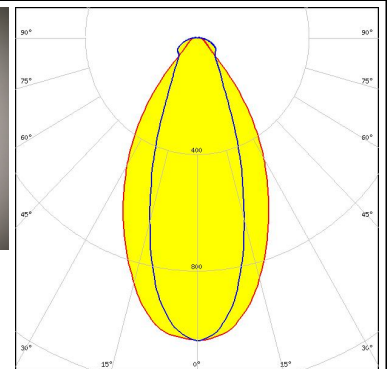
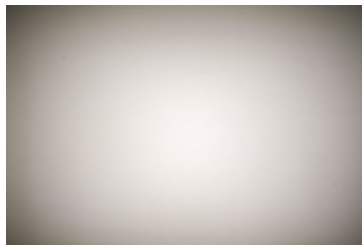
LED CXA/B 13xx  
 FWHM / FWTM 66.0 + 20.0° / 81.0 + 45.0°  
 Efficiency 90 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



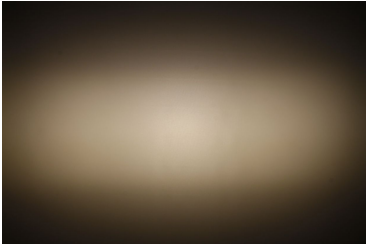
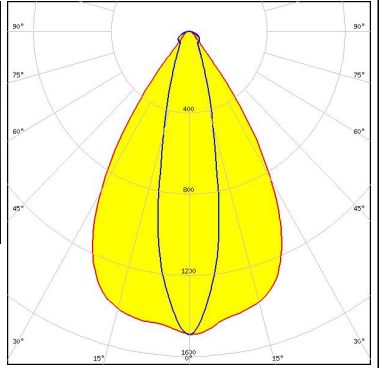
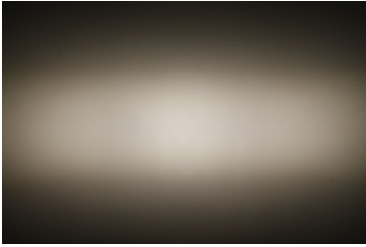
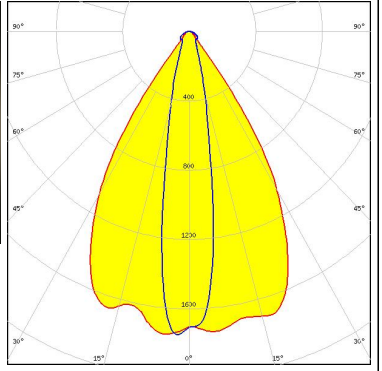
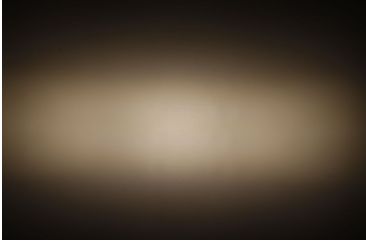
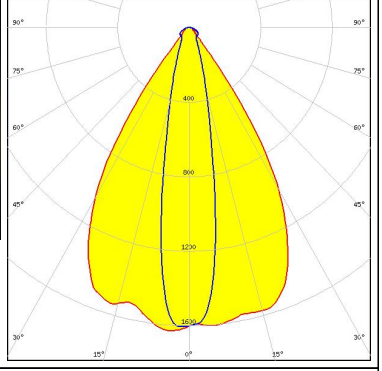
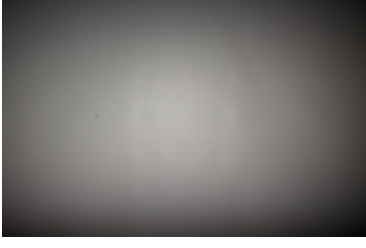
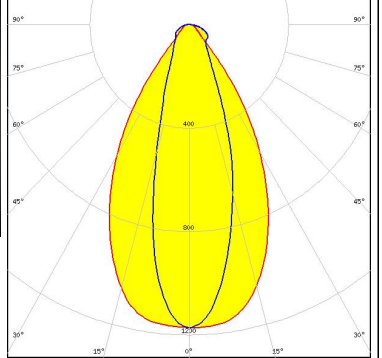
LED CXA/B 15xx  
 FWHM / FWTM 65.0 + 23.0° / 83.0 + 52.0°  
 Efficiency 89 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED CXA/B 25xx  
 FWHM / FWTM 57.0 + 37.0° / 91.0 + 83.0°  
 Efficiency 89 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



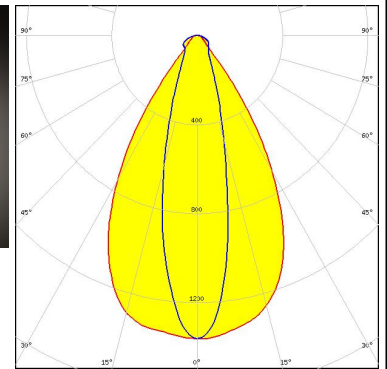
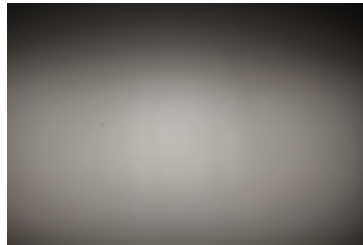
### OPTICAL RESULTS (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM / FWTM 64.0 + 23.0° / 82.0 + 53.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 1.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202s</p> <p>FWHM / FWTM 65.0 + 19.0° / 80.0 + 43.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 1800 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB Compact</p> <p>FWHM / FWTM 65.0 + 20.0° / 81.0 + 46.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 1.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>NICHIA</b></p> <p>LED COB J-Type</p> <p>FWHM / FWTM 59.0 + 31.0° / 86.0 + 71.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 1.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

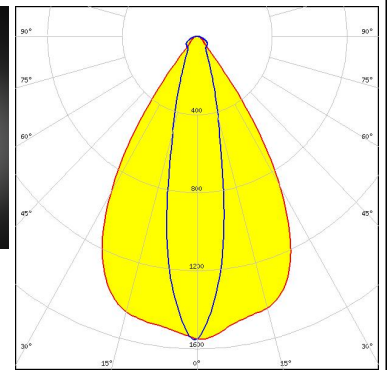
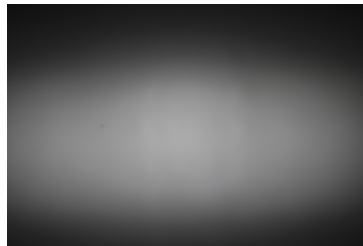
## OPTICAL RESULTS (MEASURED):



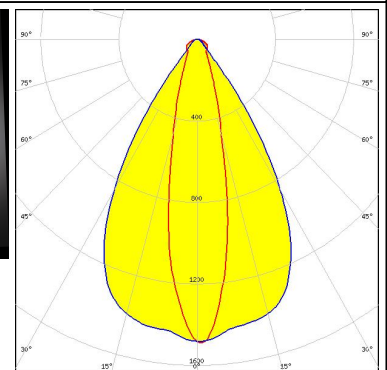
LED COB L-Type (LES 11)  
 FWHM / FWTM 62.0 + 25.0° / 83.0 + 59.0°  
 Efficiency 89 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



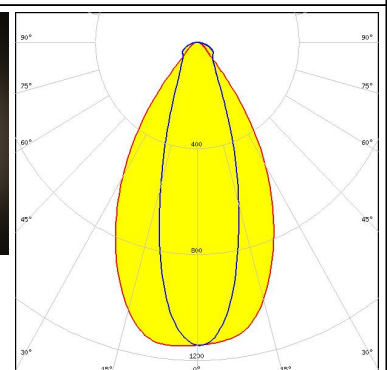
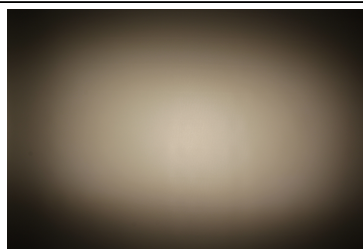
LED COB L-Type (LES 11)  
 FWHM / FWTM 64.0 + 22.0° / 82.0 + 51.0°  
 Efficiency 90 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LC003D / LC006D / LC009D / LC013D  
 FWHM / FWTM 63.0 + 23.0° / 82.0 + 53.0°  
 Efficiency 87 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



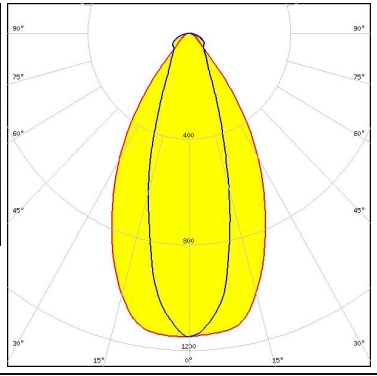


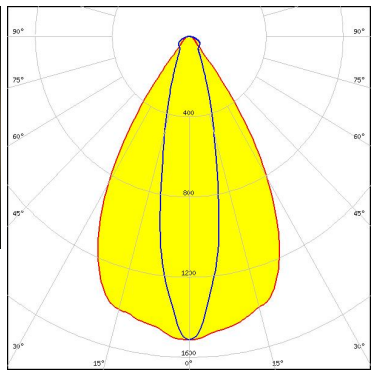


LED LC016D / LC019D / LC026D / LC033D  
 FWHM / FWTM 59.0 + 31.0° / 87.0 + 71.0°  
 Efficiency 85 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

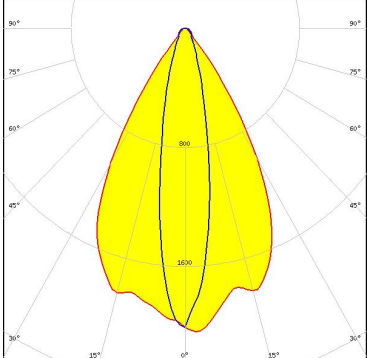
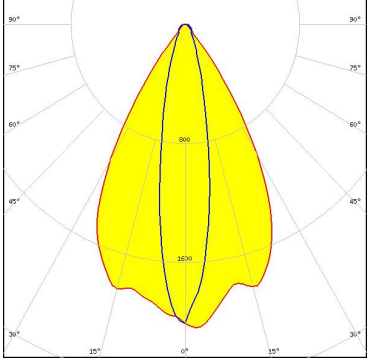
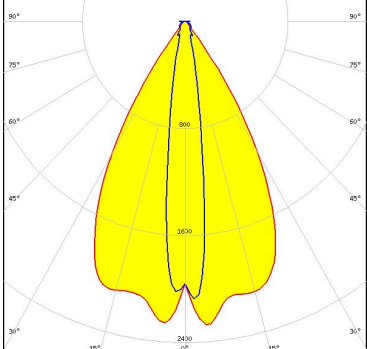
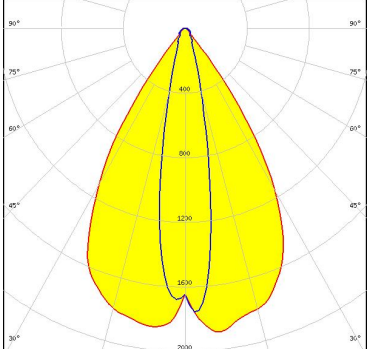




### OPTICAL RESULTS (MEASURED):

<p> SEOL SEMICONDUCTOR</p> <p>LED MJT COB LES 14.5</p> <p>FWHM / FWTM 58.0 + 32.0° / 86.0 + 73.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 1.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 433 Typ L5</p>		
<p> SEOL SEMICONDUCTOR</p> <p>LED MJT COB LES 9.8</p> <p>FWHM / FWTM 62.0 + 23.0° / 82.0 + 53.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 1.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 434 Typ L5</p>		

### OPTICAL RESULTS (SIMULATED):

<p><b>bridgelux</b></p> <p>LED: VERO10            FWHM / FWTM: 60.0 + 20.0° / 80.0 + 48.0°            Efficiency: 100 %            Peak intensity: 2.1 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>CREE LEDs</b></p> <p>LED: XP-E2            FWHM / FWTM: 60.0 + 14.0° / 75.0 + 29.0°            Efficiency: 93 %            Peak intensity: 2.9 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>CREE LEDs</b></p> <p>LED: XP-G3            FWHM / FWTM: 60.0 + 15.0° / 76.0 + 32.0°            Efficiency: 91 %            Peak intensity: 2.3 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED: LUXEON M/MX            FWHM / FWTM: 20.0 + 64.0° / 41.0 + 81.0°            Efficiency: 92 %            Peak intensity: 1.9 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	

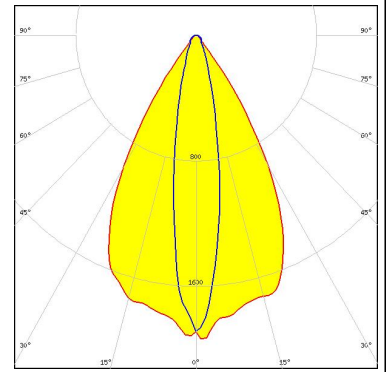
### OPTICAL RESULTS (SIMULATED):

<p><b>LUMINUS</b></p> <p>LED SBT-90            FWHM / FWTM 56.0 + 12.0° / 74.0 + 32.0°            Efficiency 93 %            Peak intensity 3 cd/lm            LEDs/each optic 1            Light colour Red            Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLOM Square CSSRM2/CSSRM3            FWHM / FWTM 58.0 + 14.0° / 76.0 + 30.0°            Efficiency 91 %            Peak intensity 2.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Soleriq S9            FWHM / FWTM 61.0 + 24.0° / 83.0 + 51.0°            Efficiency 88 %            Peak intensity 1.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>SAMSUNG</b></p> <p>LED LC010C            FWHM / FWTM 56.0 + 16.0° / 78.0 + 40.0°            Efficiency 92 %            Peak intensity 2.2 cd/lm            LEDs/each optic 1            Light colour White            Required components:            Bender Wirth: 479 Typ L5</p>	

### OPTICAL RESULTS (SIMULATED):

#### SAMSUNG

LED LC020C  
FWHM / FWTM 60.0 + 18.0° / 79.0 + 44.0°  
Efficiency 89 %  
Peak intensity 1.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
Bender Wirth: 479 Typ L5



#### SAMSUNG

LED LC040C  
FWHM / FWTM 60.0 + 24.0° / 82.0 + 55.0°  
Efficiency 87 %  
Peak intensity 1.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
Bender Wirth: 479 Typ L5

