

## WINNIE-M

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

### TECHNICAL SPECIFICATIONS:

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

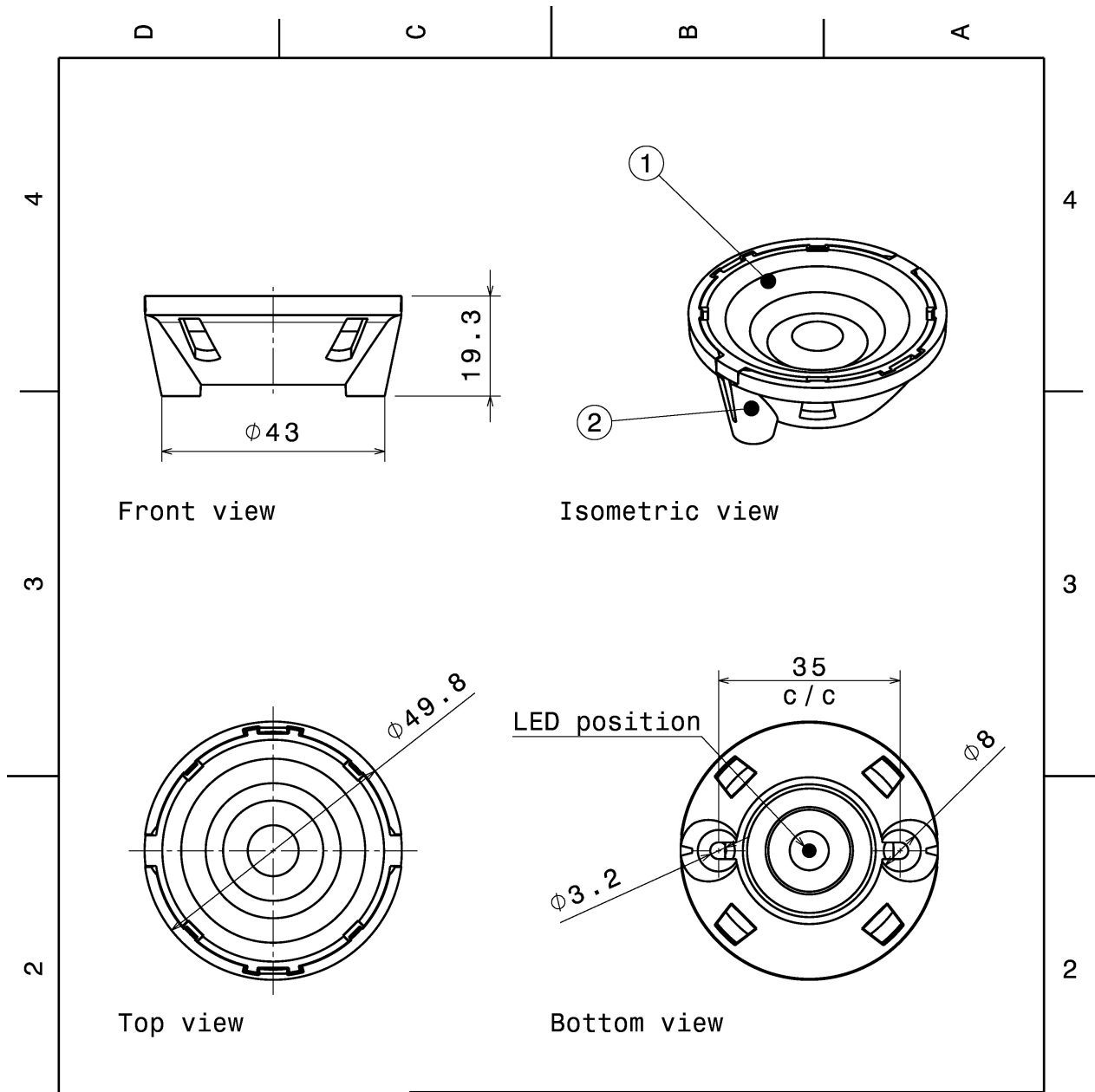


### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
WINNIE-M	Single lens	PMMA	clear	
WINNIE-HOLDER	Holder	PC	white	

### ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
CN14237_WINNIE-M	Single lens	364	84	28	0.0
» Box size:					



INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C14233	WINNIE-M	PMMA	clear
2	C14235	WINNIE-HOLDER	PC	white

Tolerances if not otherwise shown  
According to DIN ISO 2768-1  
Linear measures:  
Up to 30mm class M, otherwise class C  
According to DIN ISO 2768-2  
Form and position: class L

**LEDiL**

Ledil Oy  
Salorankatu 10  
FIN 24240 SALO  
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE

CN14237\_WINNIE-M

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SIZE PART NUMBER

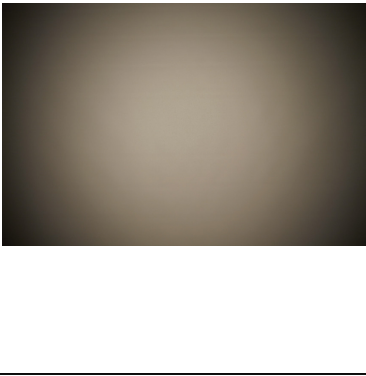
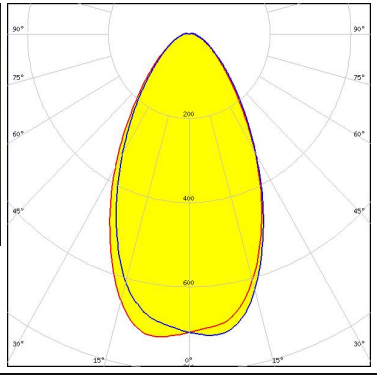


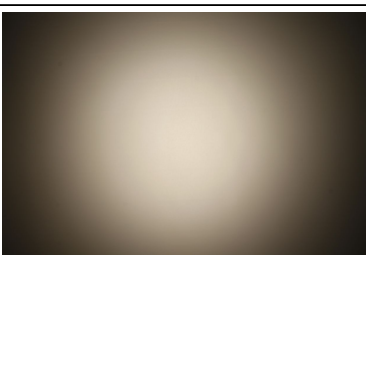
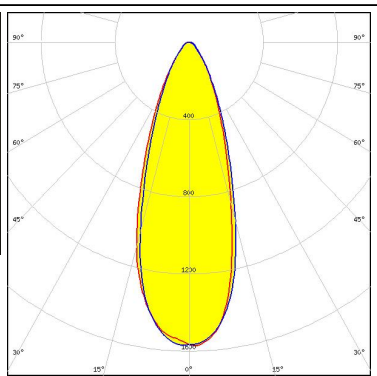
A4

CN14237

SCALE 1:1 WEIGHT 17,74 g SHEET 1/1

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

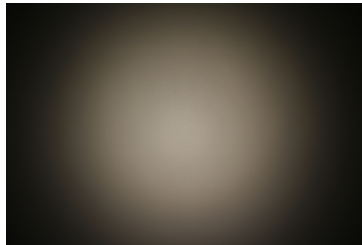
### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED V18 Gen6</p> <p>FWHM / FWTM 58.0° / 113.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 0.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>bridgelux.</p> <p>LED V6 Gen6</p> <p>FWHM / FWTM 27.0° / 58.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 2.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>bridgelux.</p> <p>LED V8 Gen6</p> <p>FWHM / FWTM 31.0° / 70.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 1.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>bridgelux.</p> <p>LED VERO10</p> <p>FWHM / FWTM 36.0° / 74.0°</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>		

### PHOTOMETRIC DATA (MEASURED):

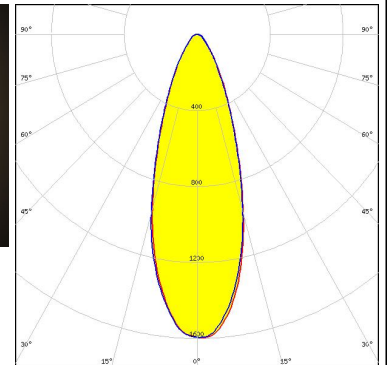
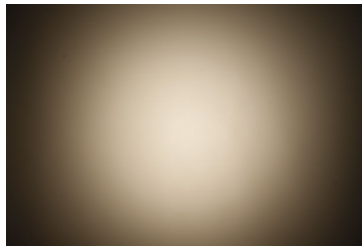
#### CITIZEN

LED CLL01x  
 FWHM / FWTM 27.0° / 60.0°  
 Efficiency 85 %  
 Peak intensity 2.4 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



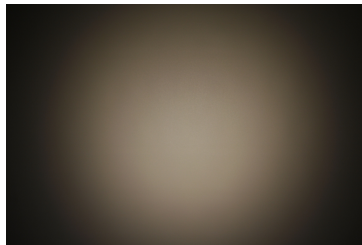
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM / FWTM 35.0° / 72.0°  
 Efficiency 86 %  
 Peak intensity 1.6 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 434 Typ L5



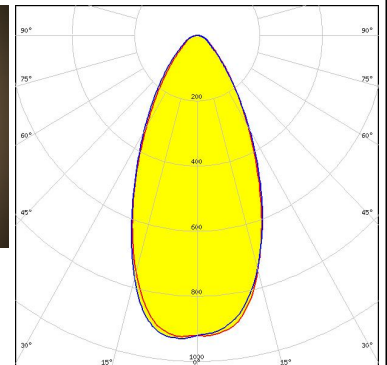
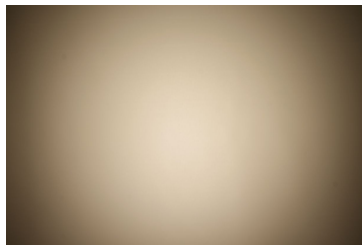
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM / FWTM 35.0° / 72.0°  
 Efficiency 87 %  
 Peak intensity 2.3 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### CITIZEN

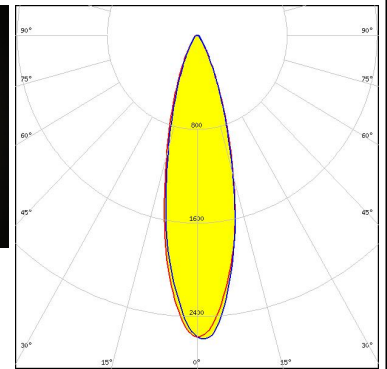
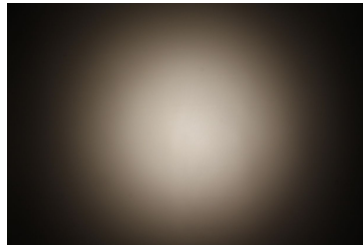
LED CLL03x/CLU03x  
 FWHM / FWTM 49.0° / 95.0°  
 Efficiency 86 %  
 Peak intensity 0.9 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 433 Typ L5



### PHOTOMETRIC DATA (MEASURED):

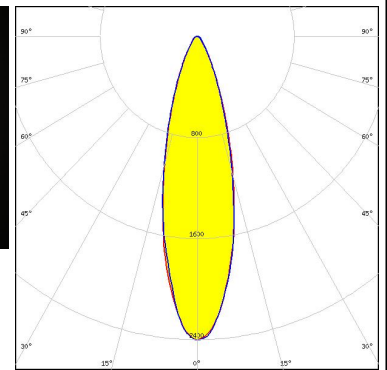
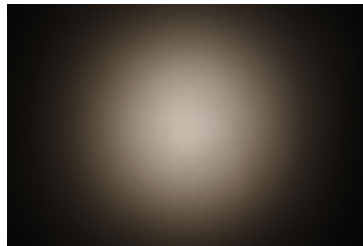
#### CITIZEN

LED CLU700/701/702  
 FWHM / FWTM 27.0° / 56.0°  
 Efficiency 89 %  
 Peak intensity 2.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



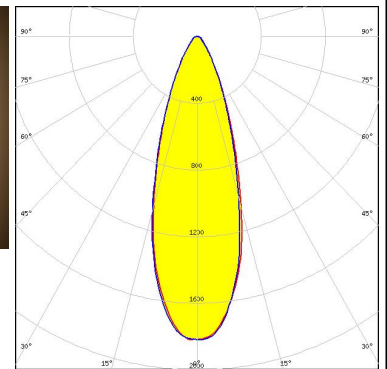
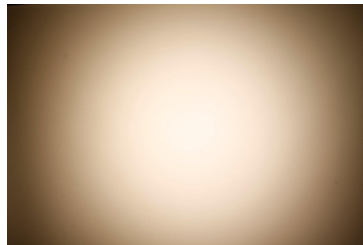
#### CITIZEN

LED CLU700/701/702  
 FWHM / FWTM 28.0° / 58.0°  
 Efficiency 87 %  
 Peak intensity 2.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 434 Typ L5



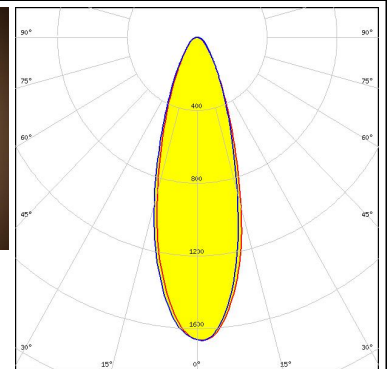
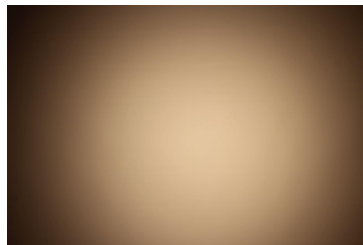
#### CITIZEN

LED CLU710/711  
 FWHM / FWTM 33.0° / 67.0°  
 Efficiency 87 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 470 Typ L5



#### CITIZEN

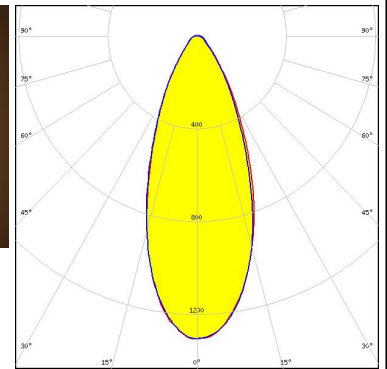
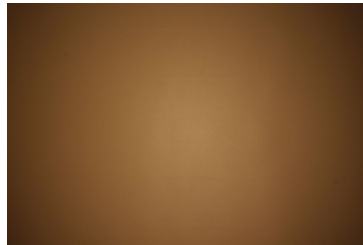
LED CLU710/711  
 FWHM / FWTM 32.0° / 70.0°  
 Efficiency 86 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### PHOTOMETRIC DATA (MEASURED):

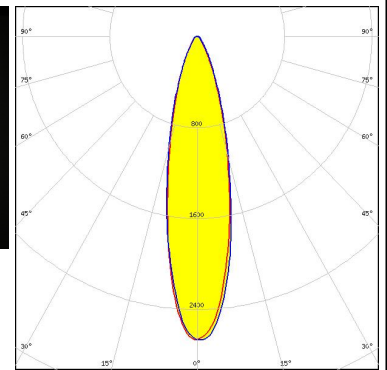
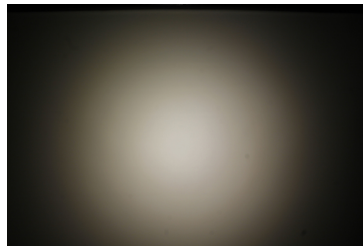
#### CITIZEN

LED CLU720/721  
 FWHM / FWTM 41.0° / 80.0°  
 Efficiency 90 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 433 Typ L5



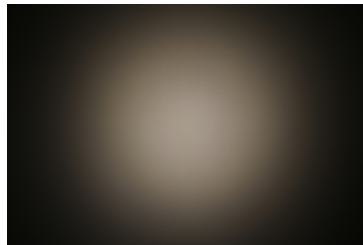
#### CREE LED

LED CXA/B 13xx  
 FWHM / FWTM 25.0° / 55.0°  
 Efficiency 88 %  
 Peak intensity 2.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



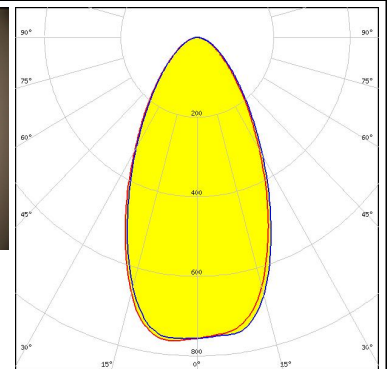
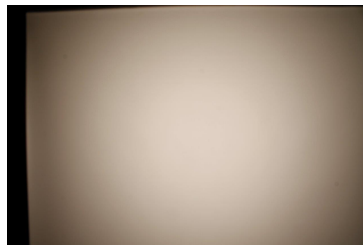
#### CREE LED

LED CXA/B 13xx  
 FWHM / FWTM 26.0° / 58.0°  
 Efficiency 87 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### CREE LED

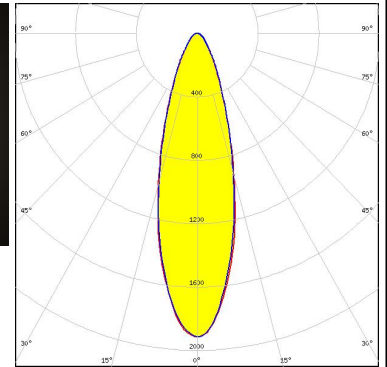
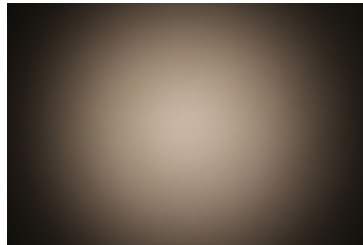
LED CXA/B 25xx  
 FWHM / FWTM 55.0° / 109.0°  
 Efficiency 85 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



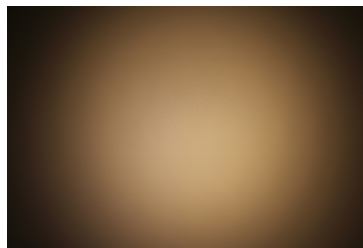
### PHOTOMETRIC DATA (MEASURED):



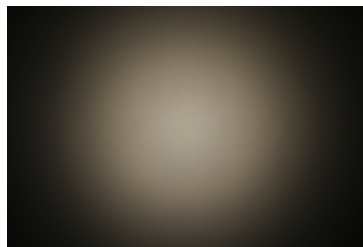
LED MHD-E/G  
 FWHM / FWTM 30.0° / 67.0°  
 Efficiency 87 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



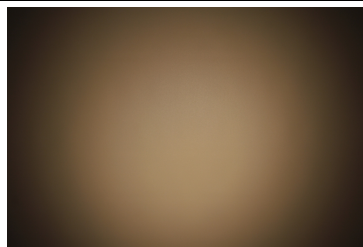
LED LUXEON CoB 1202/1203  
 FWHM / FWTM 34.0° / 74.0°  
 Efficiency 86 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:




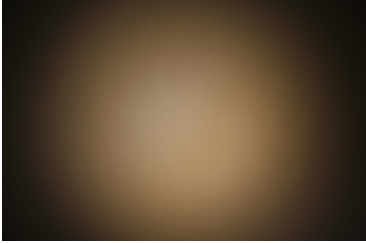






LED LUXEON CoB 1202s  
 FWHM / FWTM 27.0° / 60.0°  
 Efficiency 86 %  
 Peak intensity 2.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED CxM-14 (19x19)  
 FWHM / FWTM 45.0° / 94.0°  
 Efficiency 85 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### PHOTOMETRIC DATA (MEASURED):

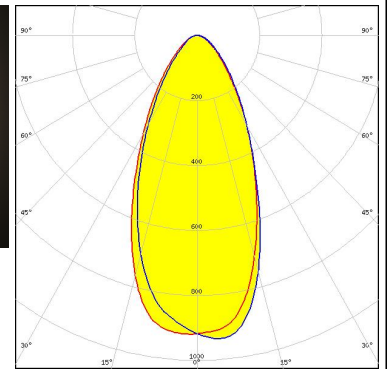
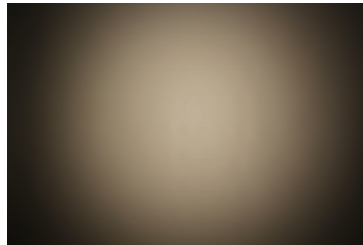
 LED CxM-9 (13.5x13.5) FWHM / FWTM 36.0° / 76.0° Efficiency 87 % Peak intensity 1.7 cd/lm LEDs/each optic 1 Light colour White Required components:	
 LED Duris S10 FWHM / FWTM 24.0° / 58.0° Efficiency 88 % Peak intensity 3.1 cd/lm LEDs/each optic 1 Light colour White Required components:	
 LED Soleriq S13 FWHM / FWTM 41.0° / 88.0° Efficiency 85 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components:	
 LED Soleriq S19 FWHM / FWTM 55.0° / 104.0° Efficiency 83 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required components:	



### PHOTOMETRIC DATA (MEASURED):

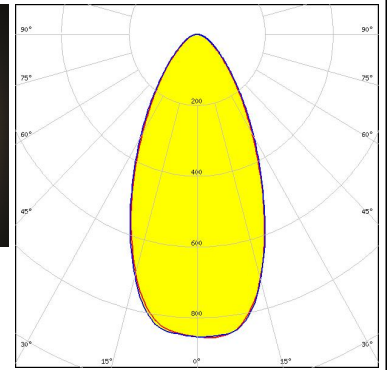
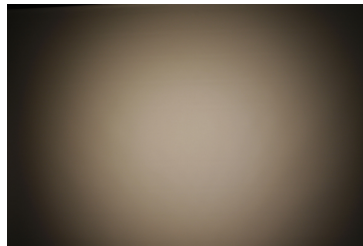
#### SAMSUNG

LED LC016D / LC019D / LC026D / LC033D  
 FWHM / FWTM 48.0° / 98.0°  
 Efficiency 85 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



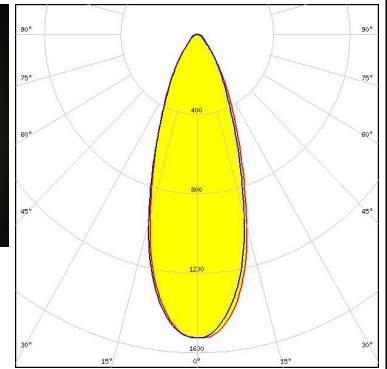
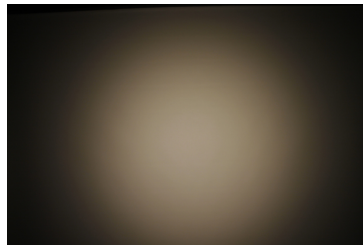
SEOUL SEMICONDUCTOR

LED MJT COB LES 14.5  
 FWHM / FWTM 51.0° / 101.0°  
 Efficiency 84 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 433 Typ L5



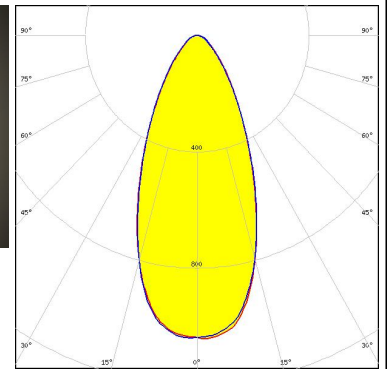
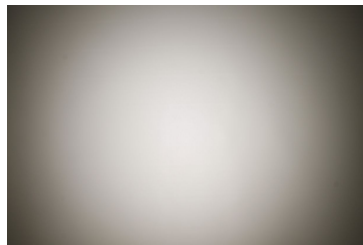
SEOUL SEMICONDUCTOR

LED MJT COB LES 9.8  
 FWHM / FWTM 36.0° / 75.0°  
 Efficiency 89 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 434 Typ L5

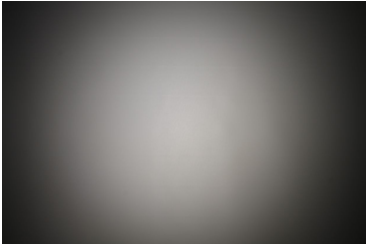
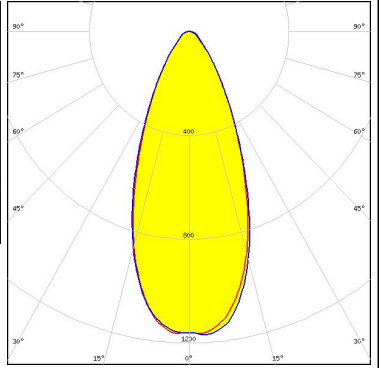
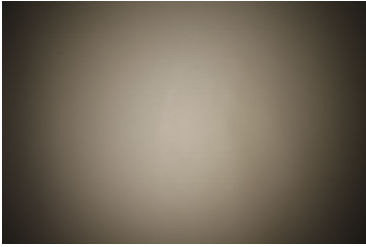
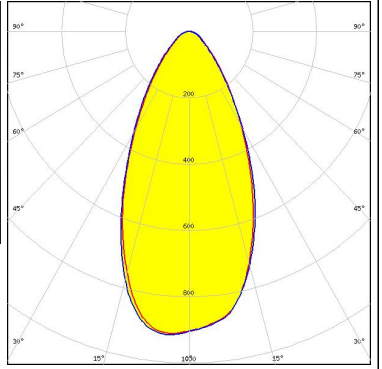


SEOUL SEMICONDUCTOR

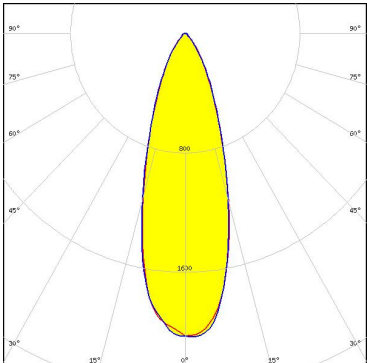
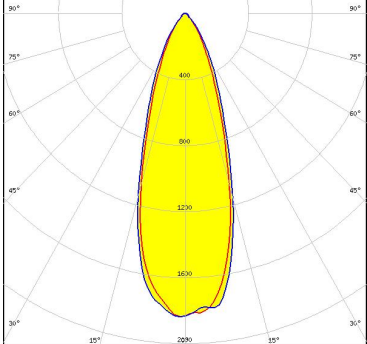
LED ZC12/18  
 FWHM / FWTM 46.0° / 91.0°  
 Efficiency 87 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 433 Typ L5



### PHOTOMETRIC DATA (MEASURED):

<p><b>VS LIGHTING SOLUTIONS</b></p> <p>LED DMC 124 / 125</p> <p>FWHM / FWTM 44.0° / 84.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 1.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 433 Typ L5</p>		
<p><b>VS LIGHTING SOLUTIONS</b></p> <p>LED DMC 128</p> <p>FWHM / FWTM 50.0° / 96.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 0.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 433 Typ L5</p>		

### PHOTOMETRIC DATA (SIMULATED):

<p><b>CREE LED</b></p> <p>LED: CXA/B 15xx            FWHM / FWTM: 33.0° / 68.0°            Efficiency: 93 %            Peak intensity: 2 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED: LUXEON CoB 1202/1203            FWHM / FWTM: 34.0° / 69.0°            Efficiency: 89 %            Peak intensity: 1.9 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:            Bender Wirth: 441 Typ L5</p>	
<p><b>LUMILEDS</b></p> <p>LED: LUXEON CoB Compact            FWHM / FWTM: 27.0° / 60.0°            Efficiency: 86 %            Peak intensity: 2.5 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>LUMINUS</b></p> <p>LED: CxM-14 (19x19)            FWHM / FWTM: 49.0° / 95.0°            Efficiency: 86 %            Peak intensity: 0.9 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:            Bender Wirth: 433 Typ L5</p>	

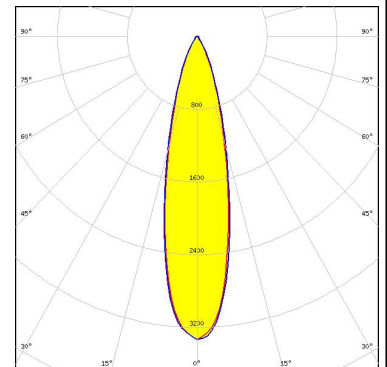
### PHOTOMETRIC DATA (SIMULATED):



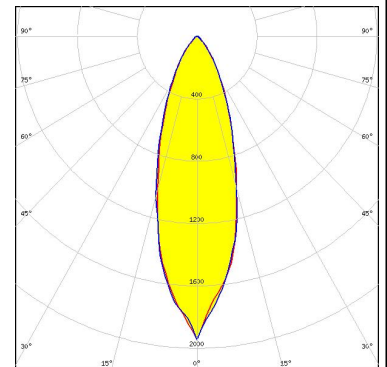
LED CxM-9 (13.5x13.5)  
 FWHM / FWTM 35.0° / 72.0°  
 Efficiency 86 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 434 Typ L5



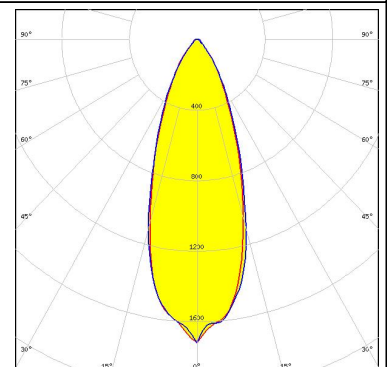
LED COB S-Type (LES 6)  
 FWHM / FWTM 25.0° / 53.0°  
 Efficiency 92 %  
 Peak intensity 3.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED Soleriq S9  
 FWHM / FWTM 32.0° / 71.0°  
 Efficiency 90 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



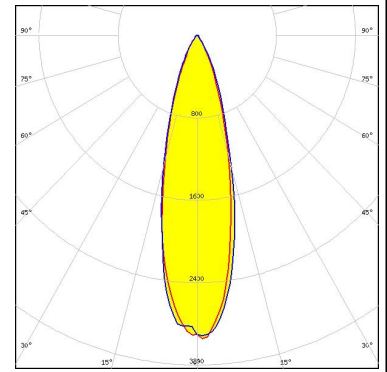
LED LC003D / LC006D / LC009D / LC013D  
 FWHM / FWTM 36.0° / 74.0°  
 Efficiency 92 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### PHOTOMETRIC DATA (SIMULATED):

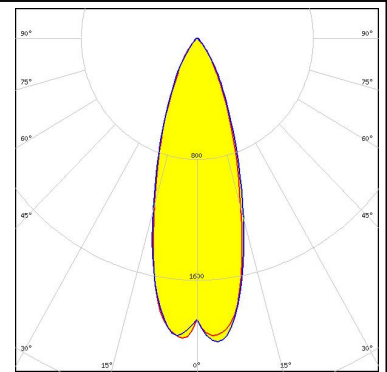
#### SAMSUNG

LED LC010C  
 FWHM / FWTM 27.0° / 56.0°  
 Efficiency 92 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 479 Typ L5



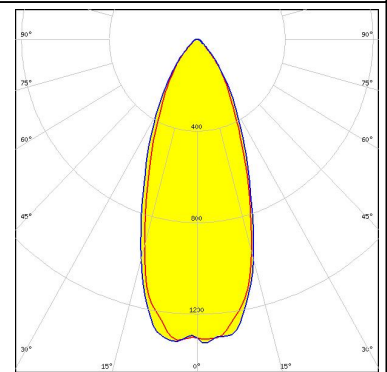
#### SAMSUNG

LED LC020C  
 FWHM / FWTM 32.0° / 66.0°  
 Efficiency 90 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 479 Typ L5



#### SAMSUNG

LED LC040C  
 FWHM / FWTM 40.0° / 82.0°  
 Efficiency 89 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 479 Typ L5



SEOUL SEMICONDUCTOR

LED ZC4/6  
 FWHM / FWTM 35.0° / 72.0°  
 Efficiency 86 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 434 Typ L5

### GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

### MATERIALS:

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#### LEDiL Oy

Joensuunkatu 13  
FI-24240 SALO  
Finland

#### LEDiL Inc.

228 West Page Street  
Suite D  
Sycamore IL 60178  
USA

#### Ledil Optics Technology (Shenzhen) Co., Ltd.

# 405 , Block B  
Casic Motor Building  
Shenzhen 518057  
P.R.CHINA

#### Local sales and technical support

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