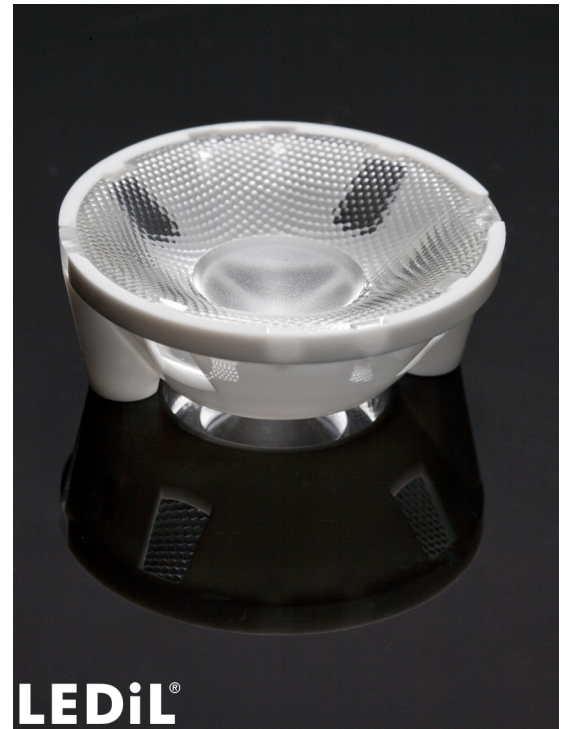


WINNIE-M

~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 ⓘ

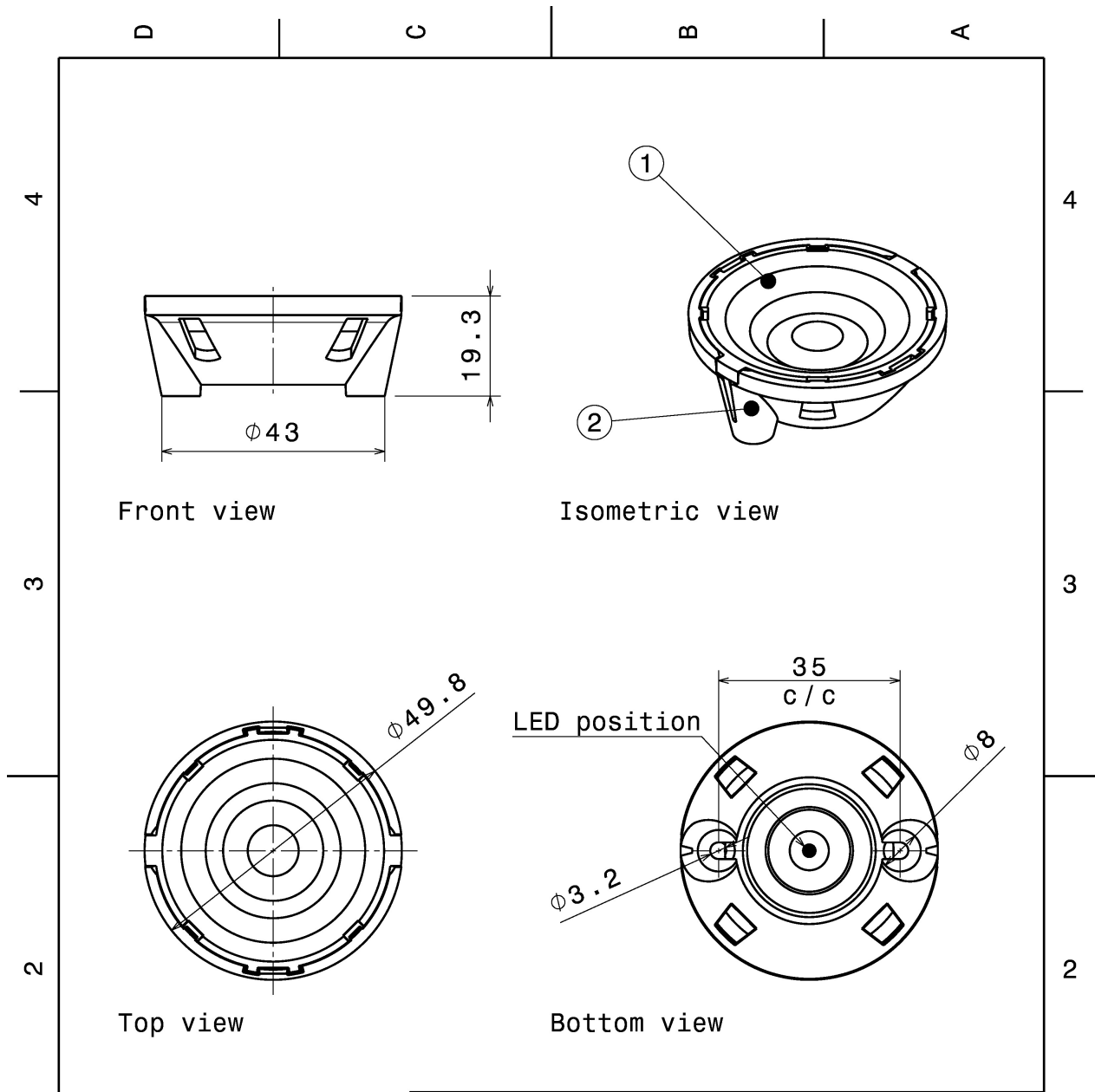


MATERIAL SPECIFICATIONS:

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


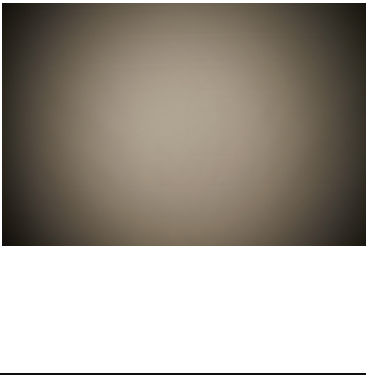
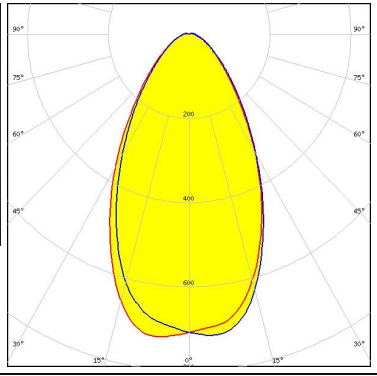





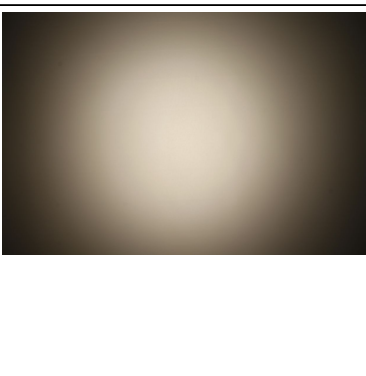
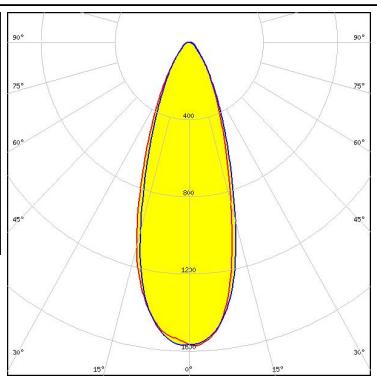
A4

CN14237

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

See also our general installation guide: www.ledil.com/installation_guide

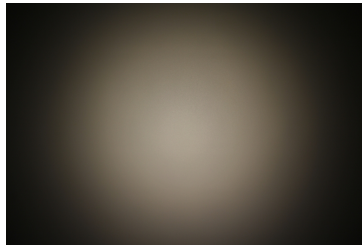
PHOTOMETRIC DATA (MEASURED):

<p></p> <p>LED V18 Gen6 FWHM / FWTM 58.0° / 113.0° Efficiency 88 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p></p> <p>LED V6 Gen6 FWHM / FWTM 27.0° / 58.0° Efficiency 86 % Peak intensity 2.4 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p></p> <p>LED V8 Gen6 FWHM / FWTM 31.0° / 70.0° Efficiency 85 % Peak intensity 1.8 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p></p> <p>LED VERO10 FWHM / FWTM 36.0° / 74.0° Efficiency 89 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

PHOTOMETRIC DATA (MEASURED):

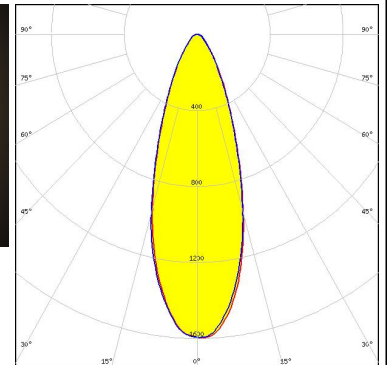
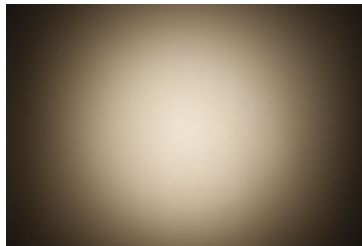
CITIZEN

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



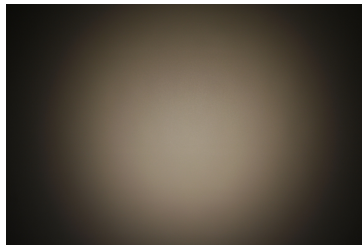
CITIZEN

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



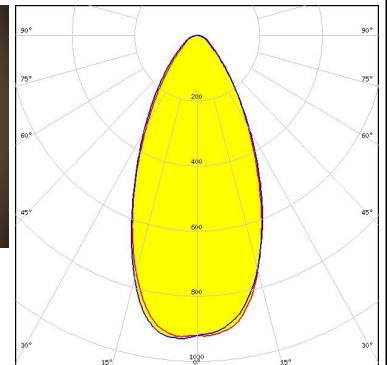
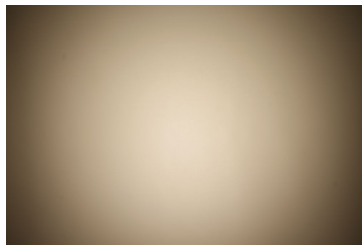
CITIZEN

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



CITIZEN

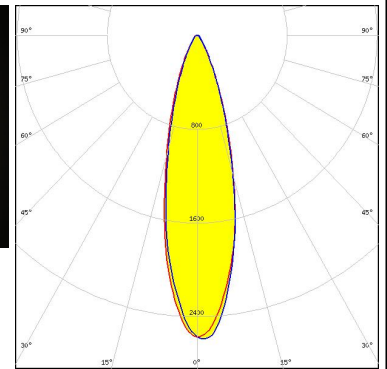
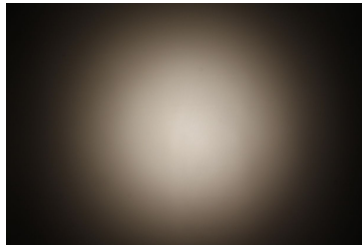
LED CLL03x/CLU03x
 FWHM / FWTM 49.0° / 95.0°
 Efficiency 86 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 433 Typ L5



PHOTOMETRIC DATA (MEASURED):

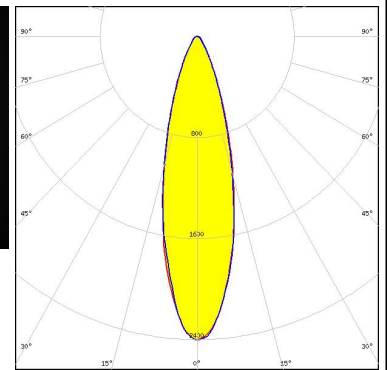
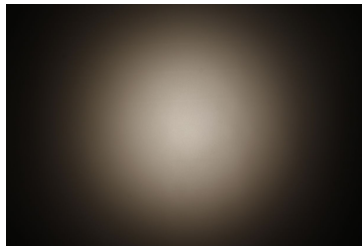
CITIZEN

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



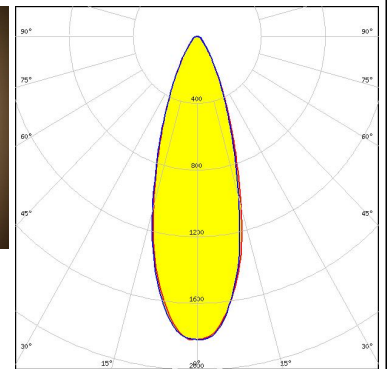
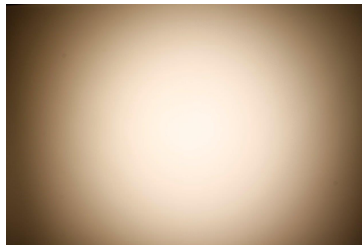
CITIZEN

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



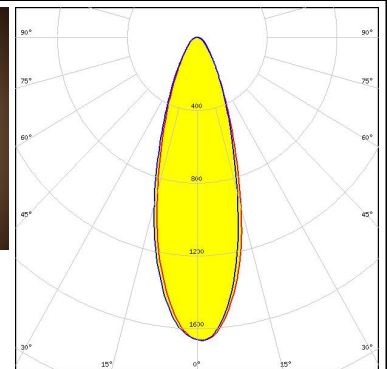
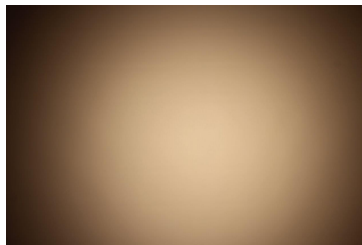
CITIZEN

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



CITIZEN

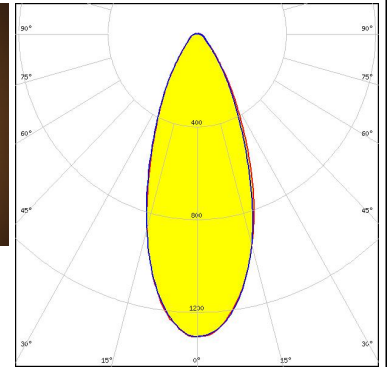
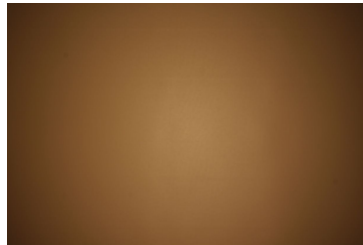
LED CLU710/711
 FWHM / FWTM 32.0° / 70.0°
 Efficiency 86 %
 Peak intensity 1.7 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

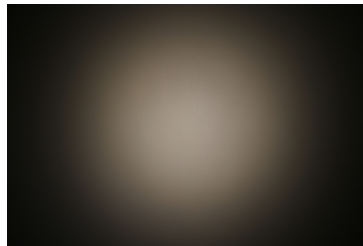
CITIZEN

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



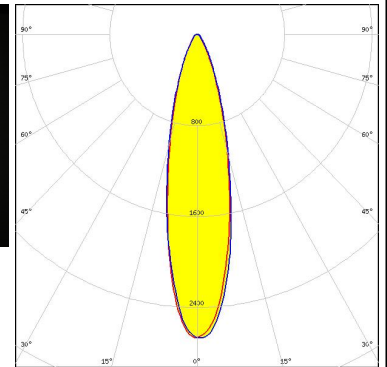
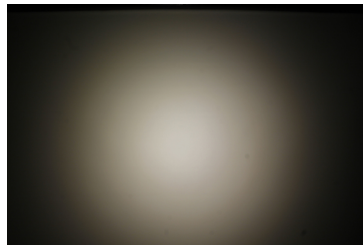
CREE

LED 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:



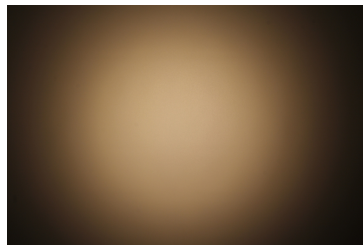
CREE

LED 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

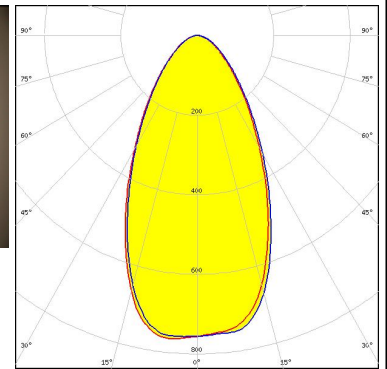
LED CXA/B 15xx
 FWHM / FWTM 31.0° / 72.0°
 Efficiency 86 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



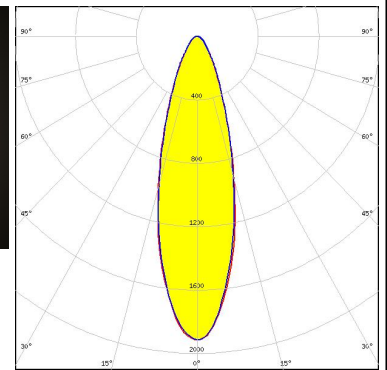
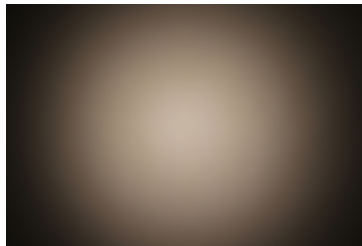
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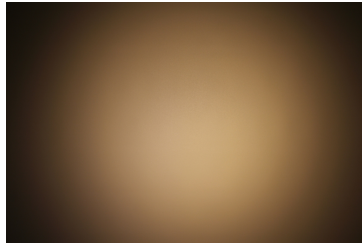
LED CXA/B 25xx
 FWHM / FWTM 55.0° / 109.0°
 Efficiency 85 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



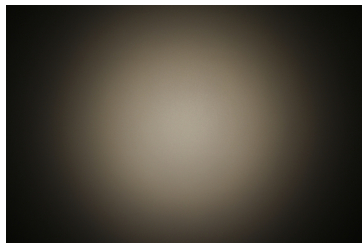
LED MHD-E/G
 FWHM / FWTM 30.0° / 67.0°
 Efficiency 87 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:




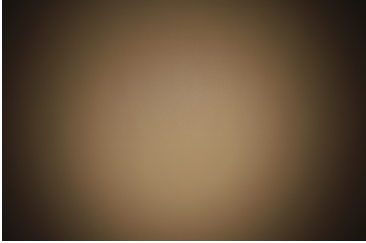

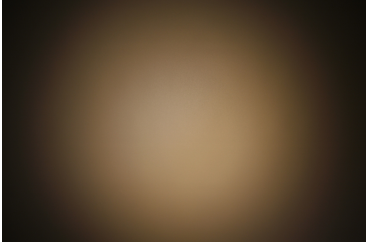

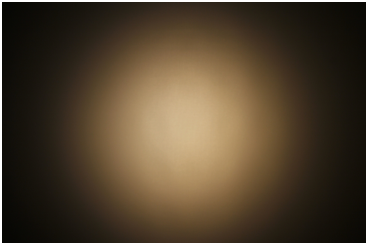

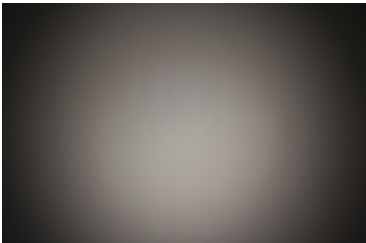
LED LUXEON CoB 1202/1203
 FWHM / FWTM 34.0° / 74.0°
 Efficiency 86 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



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:



PHOTOMETRIC DATA (MEASURED):

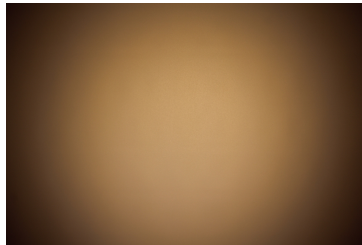
 LED CxM-14 (19x19) FWHM / FWTM 45.0° / 94.0° Efficiency 85 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components:	
 LED CxM-9 (13.5x13.5) FWHM / FWTM 36.0° / 76.0° Efficiency 87 % Peak intensity 1.7 cd/lm LEDs/each optic 1 Light colour White Required components:	
 <small>Osram Opto Semiconductors</small> 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:	
 <small>Osram Opto Semiconductors</small> 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:	

PHOTOMETRIC DATA (MEASURED):

OSRAM

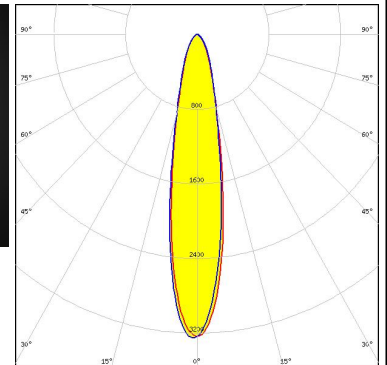
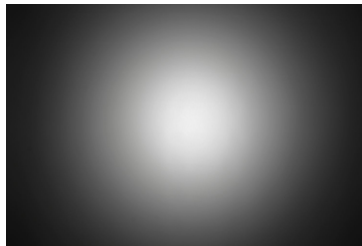
Opto Semiconductors

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:



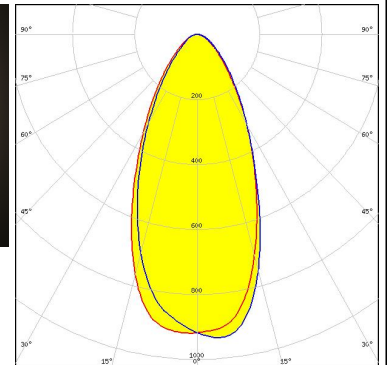
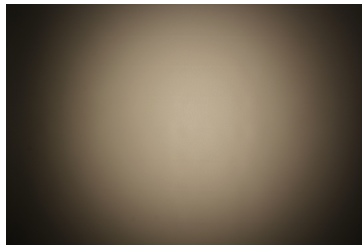
SAMSUNG

LED LC003D / LC006D / LC009D / LC013D
 FWHM / FWTM 35.0° / 72.0°
 Efficiency 87 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



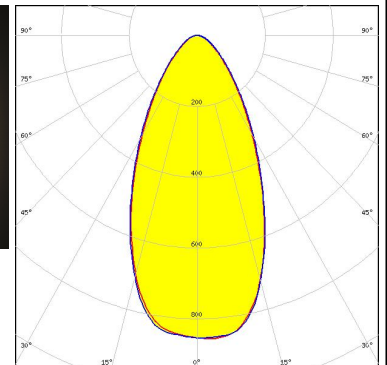
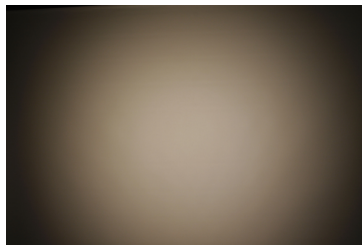
SAMSUNG

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:


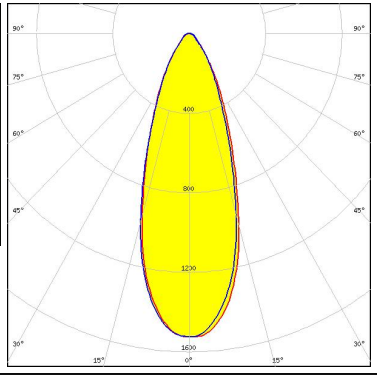
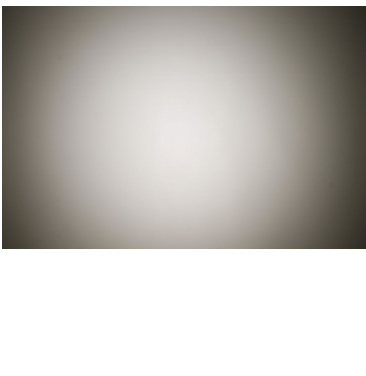
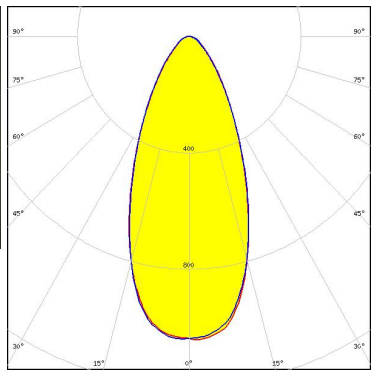
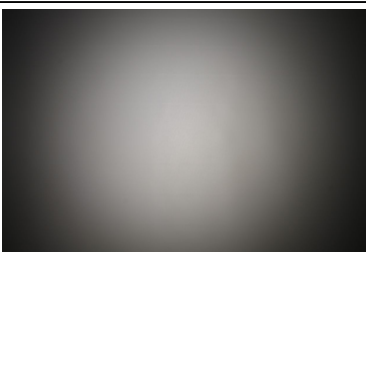
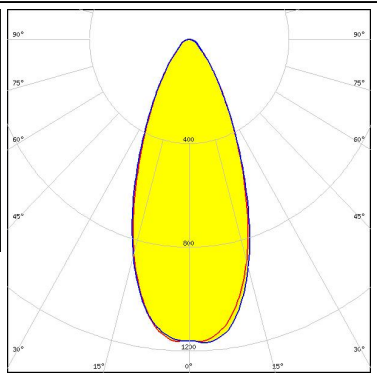
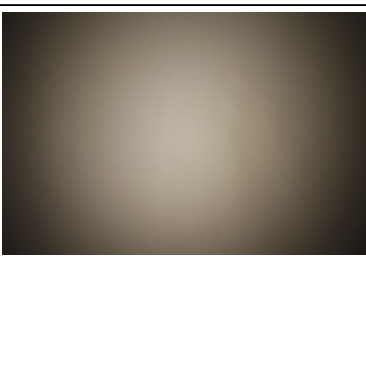
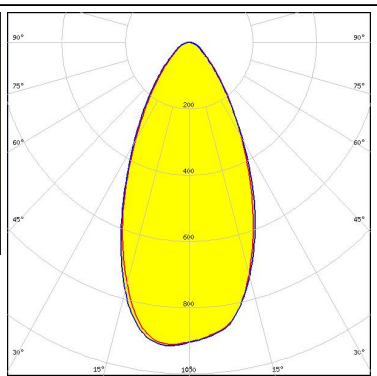


SEOUL SEMICONDUCTOR

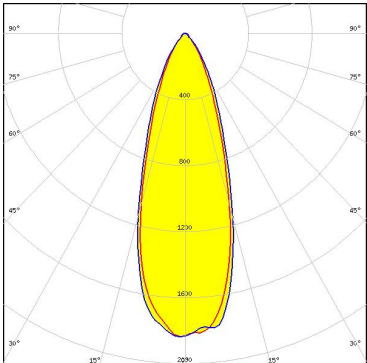
LED MJT COB LES 14.5
 FWHM / FWTM 51.0° / 101.0°
 Efficiency 84 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 433 Typ L5



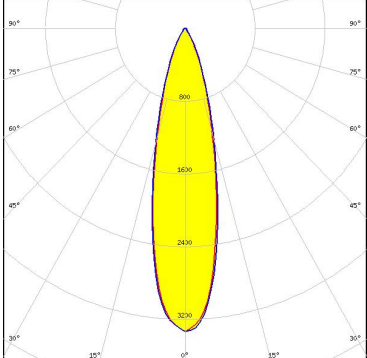
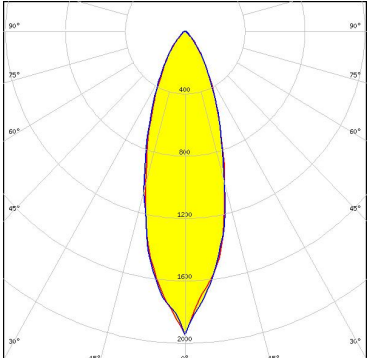
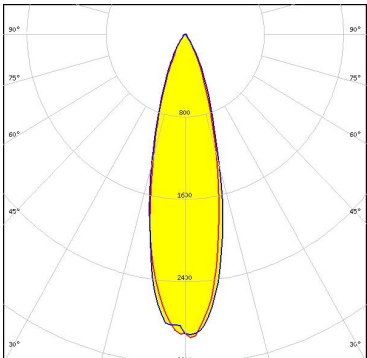
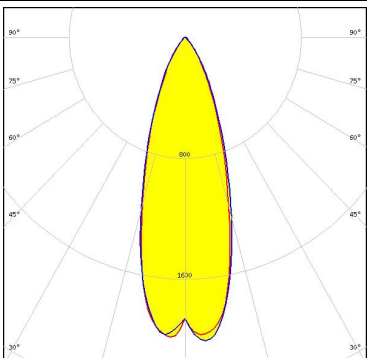
PHOTOMETRIC DATA (MEASURED):

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

PHOTOMETRIC DATA (SIMULATED):

<p>LUMILEDS</p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM / FWTM 34.0° / 69.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 1.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 441 Typ L5</p>	
<p>LUMILEDS</p> <p>LED LUXEON CoB Compact</p> <p>FWHM / FWTM 27.0° / 60.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 2.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>LUMINUS</p> <p>LED CxM-14 (19x19)</p> <p>FWHM / FWTM 49.0° / 95.0°</p> <p>Efficiency 86 %</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>	
<p>LUMINUS</p> <p>LED CxM-9 (13.5x13.5)</p> <p>FWHM / FWTM 35.0° / 72.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 1.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 434 Typ L5</p>	

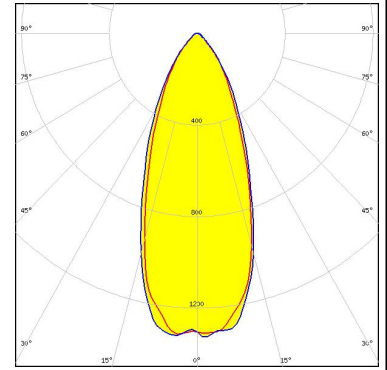
PHOTOMETRIC DATA (SIMULATED):

<p>NICHIA</p> <p>LED COB S-Type (LES 6)</p> <p>FWHM / FWTM 25.0° / 53.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 3.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED Soleriq S9</p> <p>FWHM / FWTM 32.0° / 71.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 1.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>SAMSUNG</p> <p>LED LC010C</p> <p>FWHM / FWTM 27.0° / 56.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 479 Typ L5</p>	
<p>SAMSUNG</p> <p>LED LC020C</p> <p>FWHM / FWTM 32.0° / 66.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 2.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 479 Typ L5</p>	

PHOTOMETRIC DATA (SIMULATED):

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:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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