

SAGA-HB-IP-WHT

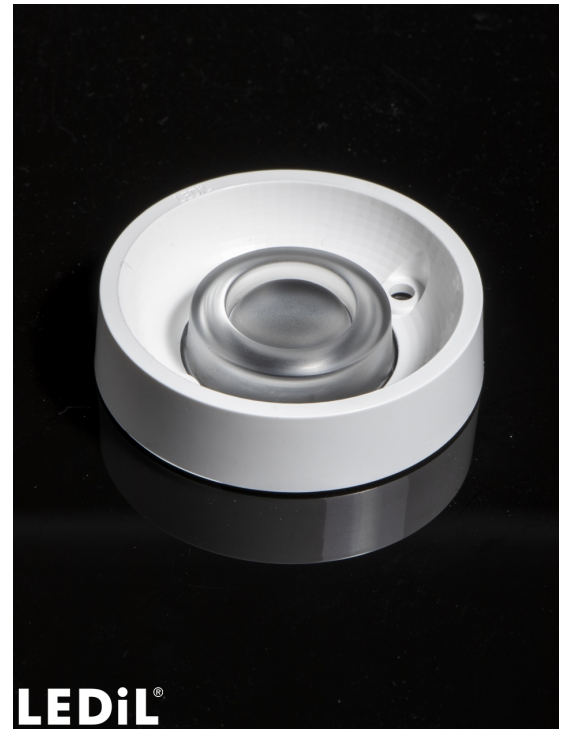
~60° high bay beam

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 50.0 mm
Height	12 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes ⓘ

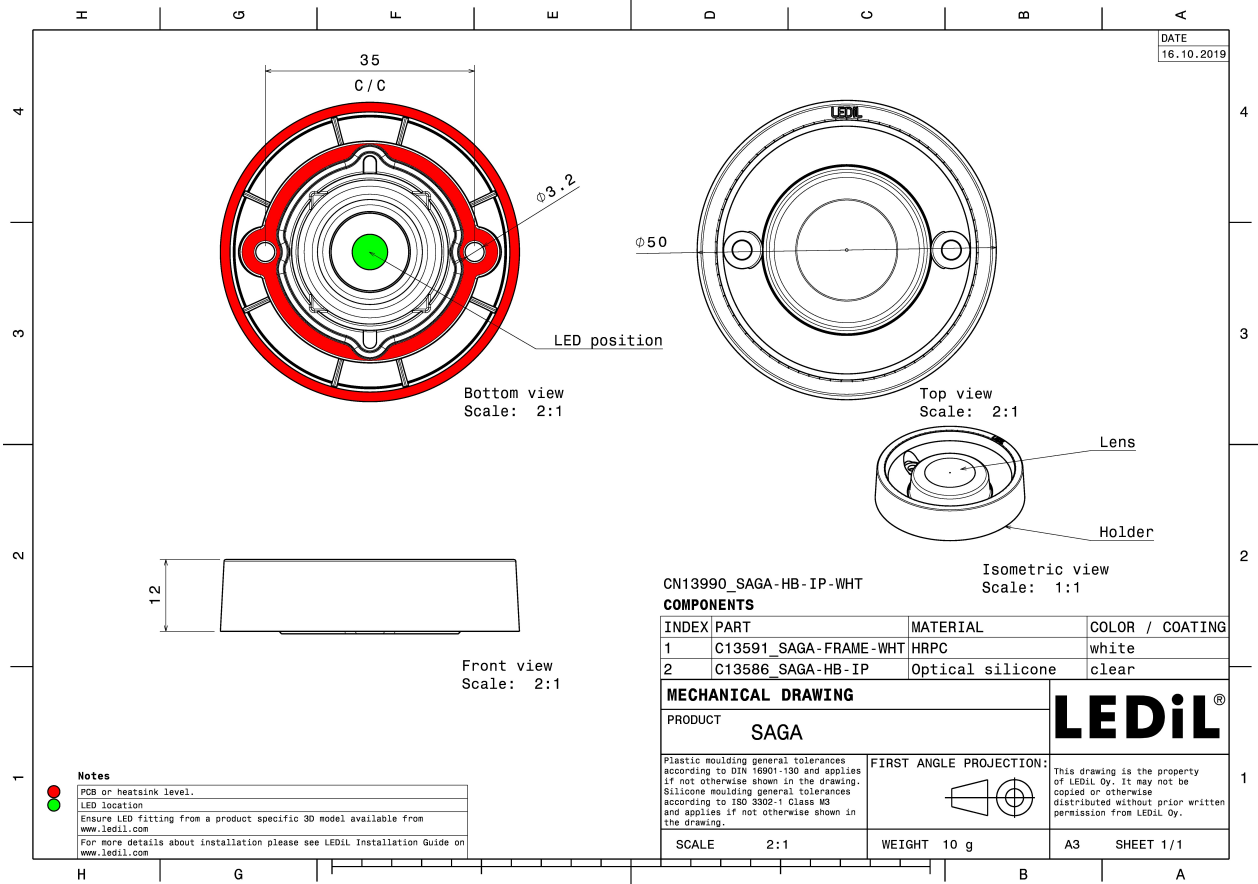
MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
SAGA-HB-IP	Single lens	Silicone	clear	
SAGA-FRAME-WHT	Holder	HRPC	white	







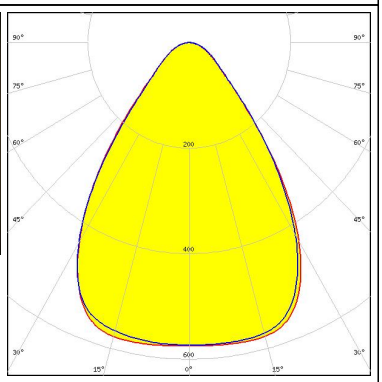

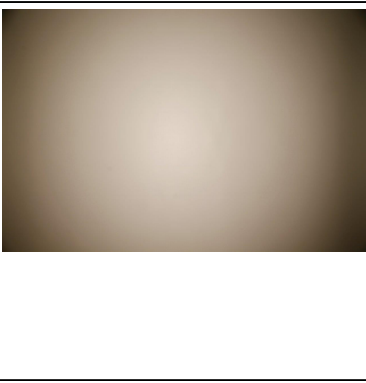
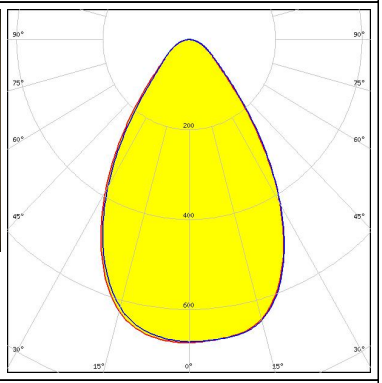

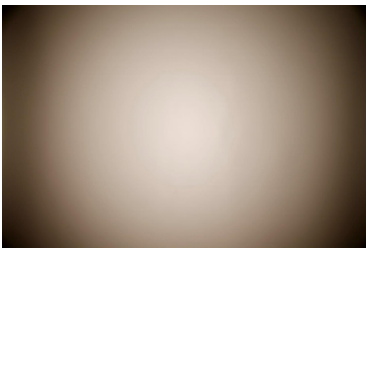
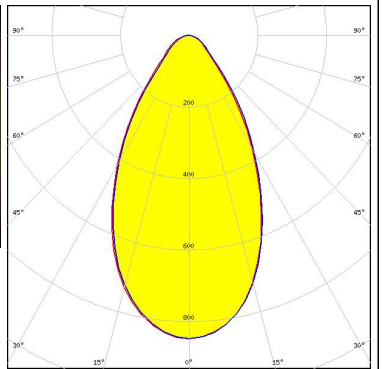
ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
CN13990_SAGA-HB-IP-WHT » Box size: 480 x 280 x 300 mm	Single lens	520		26	0.0



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

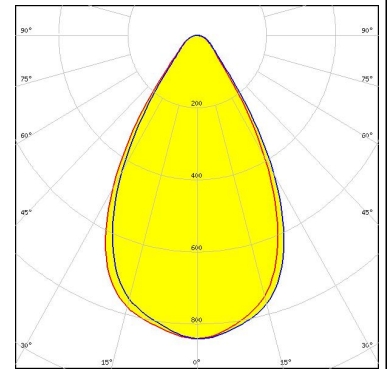
PHOTOMETRIC DATA (MEASURED):

<p> LED V10 Gen6</p> <p>FWHM / FWTM 58.0° / 106.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 0.8 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p> LED V6 Gen6</p> <p>FWHM / FWTM 73.0° / 115.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 0.6 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p> LED V8 Gen6</p> <p>FWHM / FWTM 66.0° / 109.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 0.7 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p> LED VERO10</p> <p>FWHM / FWTM 58.0° / 101.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 0.9 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

PHOTOMETRIC DATA (MEASURED):

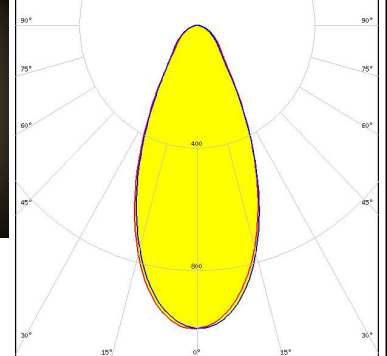
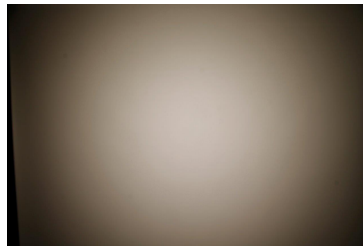
CITIZEN

LED CLL01x
 FWHM / FWTM 61.0° / 93.0°
 Efficiency 92 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



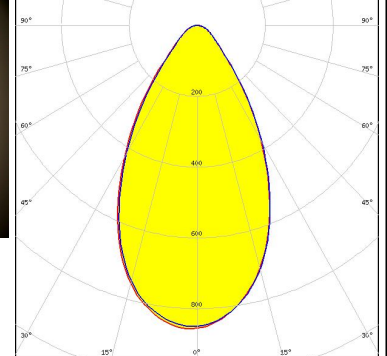
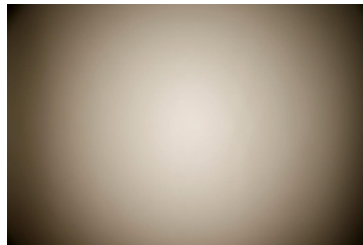
CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM / FWTM 47.0° / 95.0°
 Efficiency 86 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 434 Typ L6



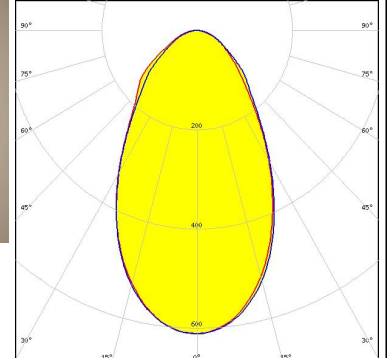
CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM / FWTM 58.0° / 98.0°
 Efficiency 91 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



CITIZEN

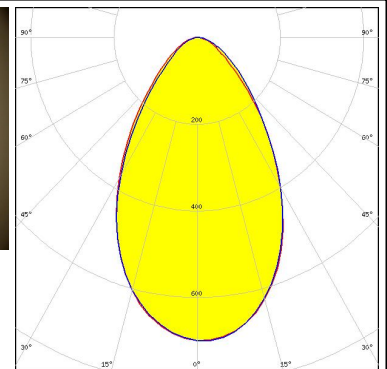
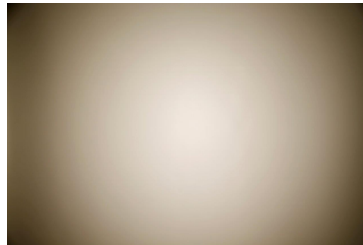
LED CLL03x/CLU03x
 FWHM / FWTM 61.0° / 125.0°
 Efficiency 84 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 433 Typ L6



PHOTOMETRIC DATA (MEASURED):

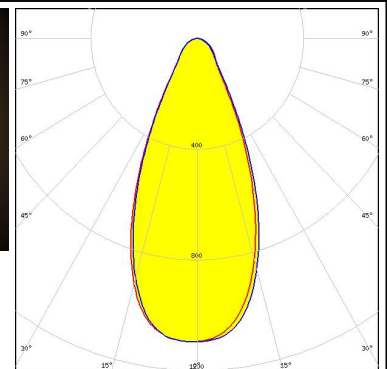
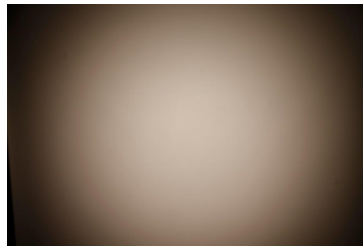
CITIZEN

LED CLL03x/CLU03x
 FWHM / FWTM 64.0° / 116.0°
 Efficiency 92 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



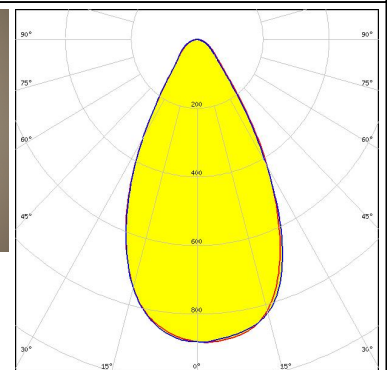
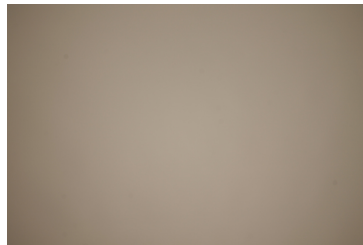
CITIZEN

LED CLU700/701/702
 FWHM / FWTM 46.0° / 82.0°
 Efficiency 86 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 434 Typ L6



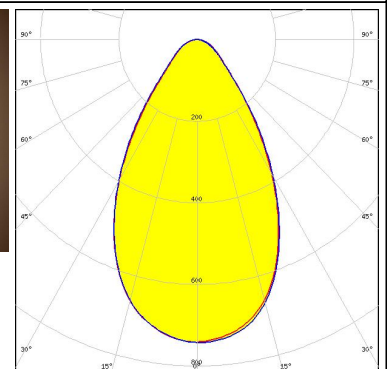
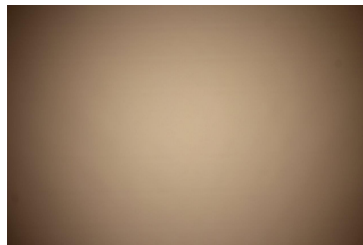
CITIZEN

LED CLU700/701/702
 FWHM / FWTM 56.0° / 90.0°
 Efficiency 87 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



CITIZEN

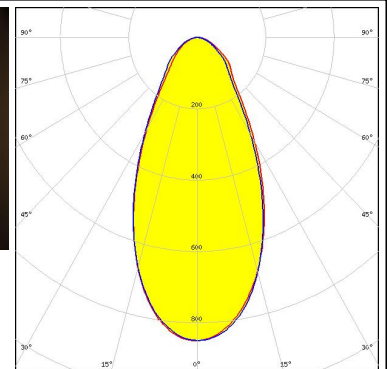
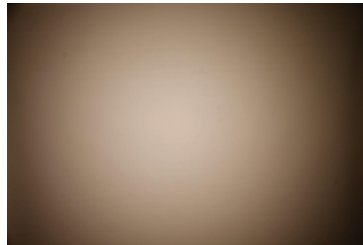
LED CLU710/711
 FWHM / FWTM 62.0° / 107.0°
 Efficiency 90 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

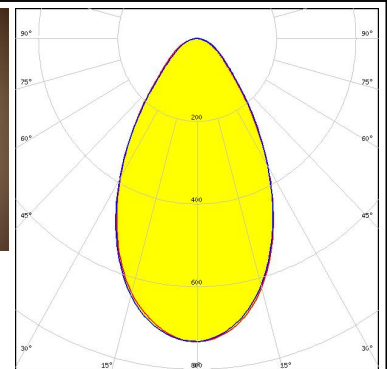
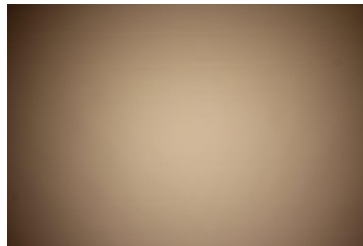
CITIZEN

LED CLU720/721
 FWHM / FWTM 50.0° / 109.0°
 Efficiency 85 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 433 Typ L6



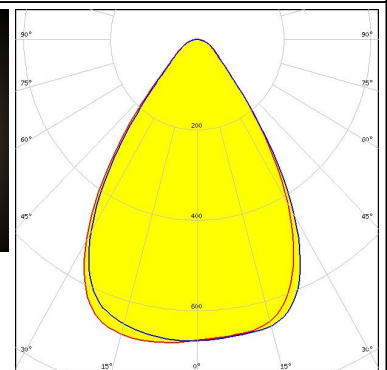
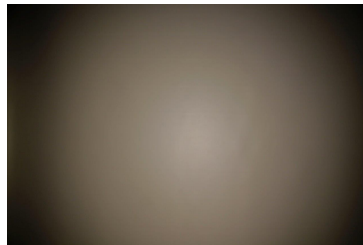
CITIZEN

LED CLU720/721
 FWHM / FWTM 61.0° / 113.0°
 Efficiency 89 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



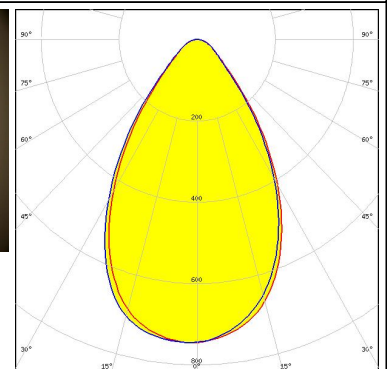
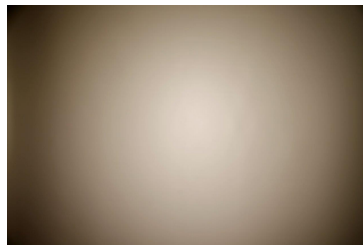
CREE

LED CXA/B 13xx
 FWHM / FWTM 70.0° / 104.0°
 Efficiency 92 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



CREE

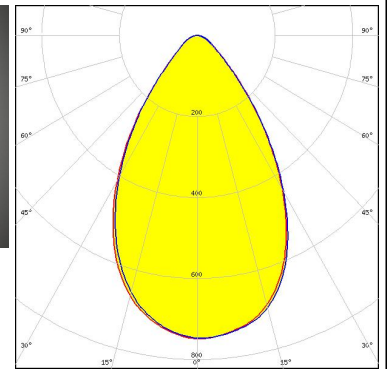
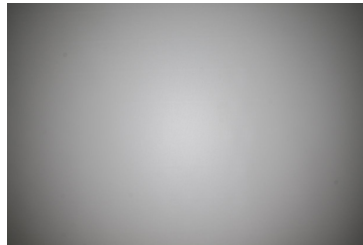
LED CXA/B 15xx
 FWHM / FWTM 64.0° / 104.0°
 Efficiency 92 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

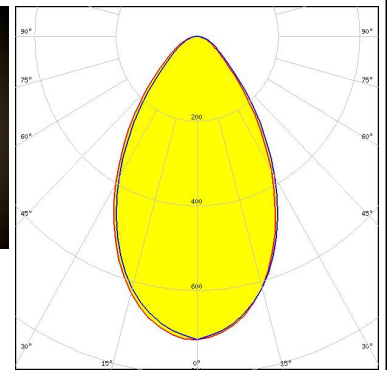
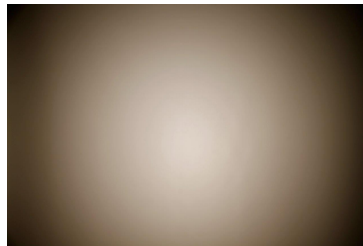
CREE

LED CXA/B 15xx
 FWHM / FWTM 64.0° / 102.0°
 Efficiency 90 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



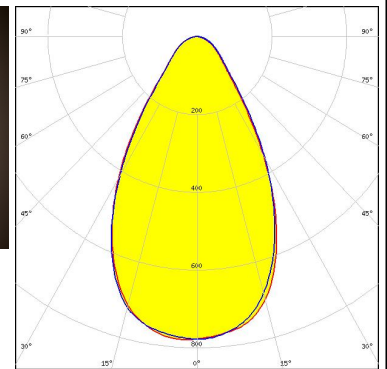
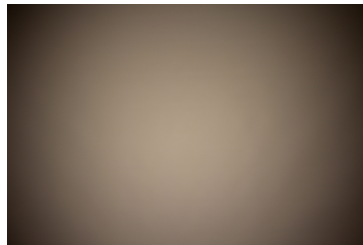
CREE

LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM / FWTM 63.0° / 111.0°
 Efficiency 90 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



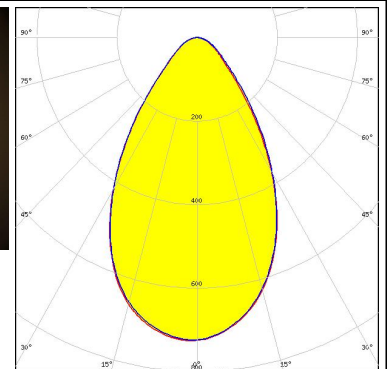
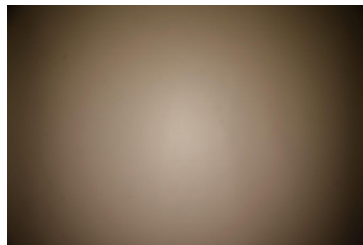
CREE

LED MHD-E/G
 FWHM / FWTM 60.0° / 105.0°
 Efficiency 90 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

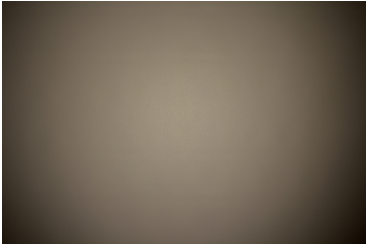
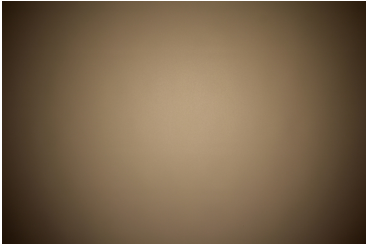
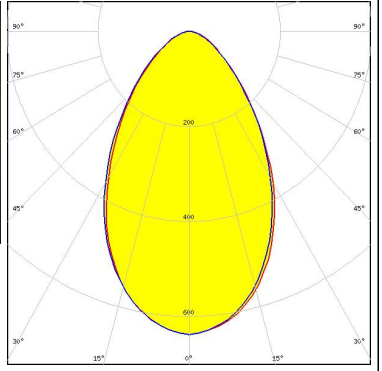
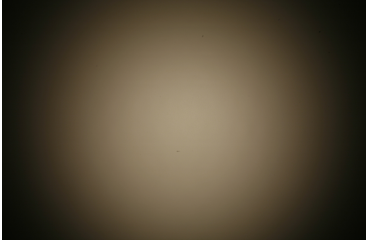
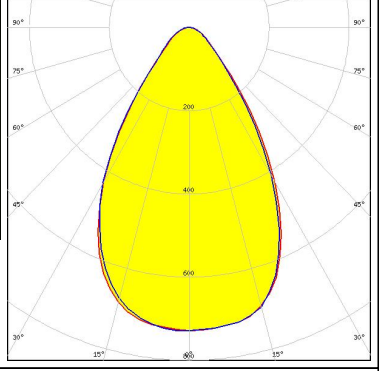
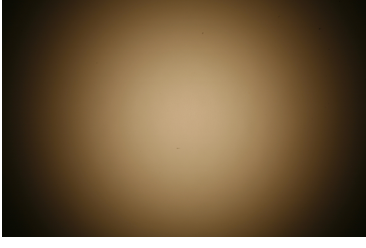
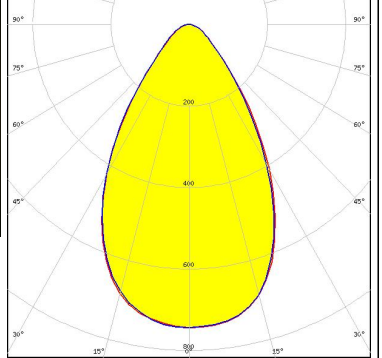


LUMILEDS

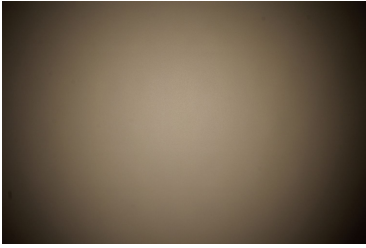
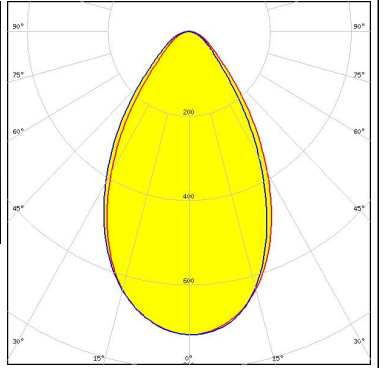
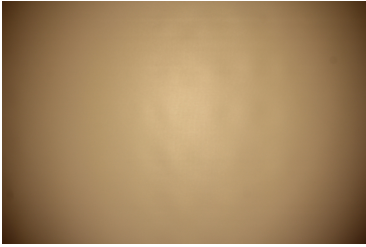

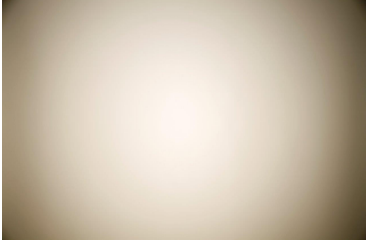
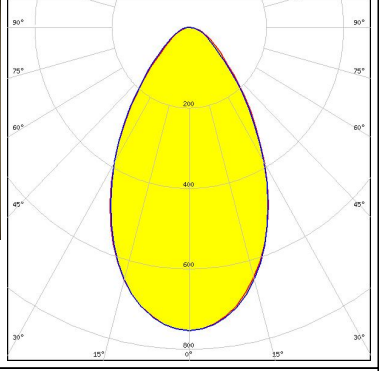
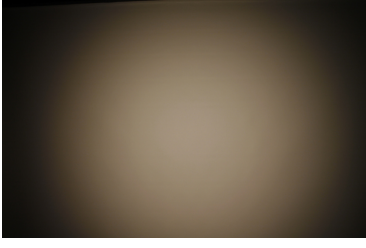
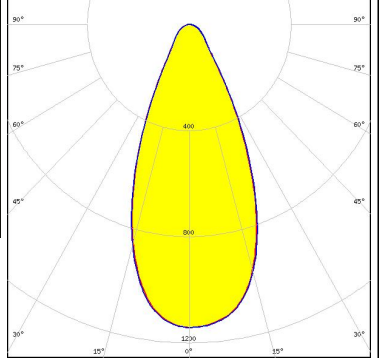
LED LUXEON CoB 1202/1203
 FWHM / FWTM 63.0° / 108.0°
 Efficiency 89 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON CoB 1202s</p> <p>FWHM / FWTM 67.0° / 106.0°</p> <p>Efficiency 90 %</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>LUMINUS</p> <p>LED CxM-14 (19x19)</p> <p>FWHM / FWTM 66.0° / 121.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 0.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>LUMINUS</p> <p>LED CxM-6 (12x13)</p> <p>FWHM / FWTM 66.0° / 104.0°</p> <p>Efficiency 89 %</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>LUMINUS</p> <p>LED CXM-7 (13x13)</p> <p>FWHM / FWTM 64.0° / 105.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 0.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

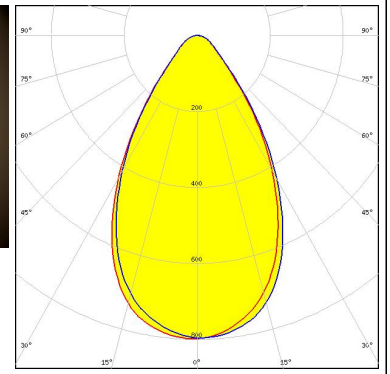
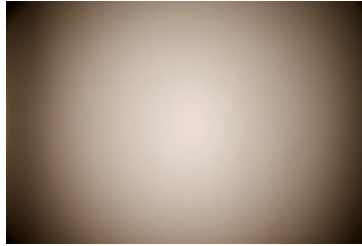
PHOTOMETRIC DATA (MEASURED):

<p>LUMINUS</p> <p>LED CxM-9 (13.5x13.5)</p> <p>FWHM / FWTM 63.0° / 109.0°</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>OSRAM Opto Semiconductors</p> <p>LED Duris S10</p> <p>FWHM / FWTM 74.0° / 106.0°</p> <p>Efficiency 91 %</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>OSRAM Opto Semiconductors</p> <p>LED Soleriq S13</p> <p>FWHM / FWTM 61.0° / 110.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 0.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>SEOUL SEMICONDUCTOR</p> <p>LED MJT COB LES 6</p> <p>FWHM / FWTM 46.0° / 79.0°</p> <p>Efficiency 87 %</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: 434 Typ L6</p>		

PHOTOMETRIC DATA (MEASURED):

SHARP

LED Mini Zenigata (GW6BM)
FWHM / FWTM 62.0° / 100.0°
Efficiency 92 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

LED LUXEON CoB Compact
 FWHM / FWTM 67.0° / 106.0°
 Efficiency 90 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

LUMINUS

LED CxM-14 (19x19)
 FWHM / FWTM 61.0° / 125.0°
 Efficiency 84 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 433 Typ L6

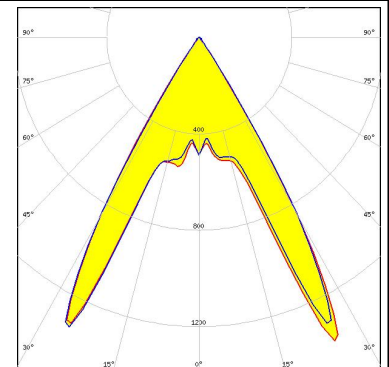
LUMINUS

LED CxM-9 (13.5x13.5)
 FWHM / FWTM 47.0° / 95.0°
 Efficiency 86 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 434 Typ L6

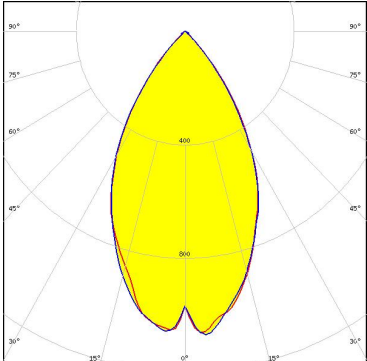
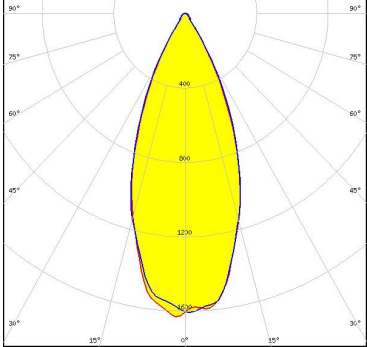
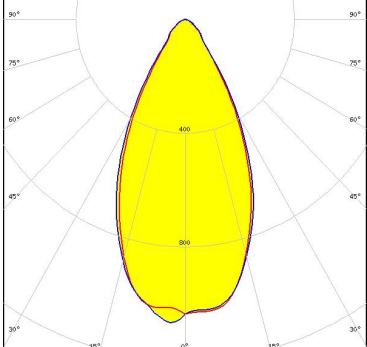
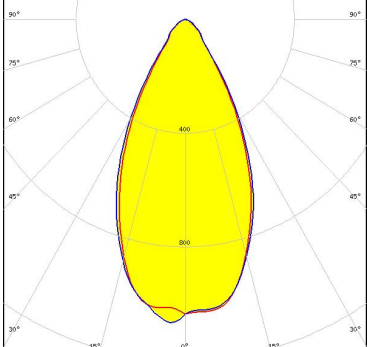
NICHIA

LED NCSU334A
 FWHM / FWTM 62.0° / 70.0°
 Efficiency 76 %
 LEDs/each optic 1
 Light colour UV-C
 Required components:


The UVC LED result tolerance is ± 10 %



PHOTOMETRIC DATA (SIMULATED):

<p>OSRAM Opto Semiconductors</p> <p>LED Soleriq S9</p> <p>FWHM / FWTM 56.0° / 87.0°</p> <p>Efficiency 93 %</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>SAMSUNG</p> <p>LED LC020C</p> <p>FWHM / FWTM 42.0° / 66.0°</p> <p>Efficiency 87 %</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: 479 Typ L6</p>	
<p>SAMSUNG</p> <p>LED LC040C</p> <p>FWHM / FWTM 51.0° / 81.0°</p> <p>Efficiency 87 %</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: 480 Typ L6</p>	
<p>SEOUL SEMICONDUCTOR</p> <p>LED ZC12/18</p> <p>FWHM / FWTM 61.0° / 125.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 0.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 433 Typ L6</p>	

PHOTOMETRIC DATA (SIMULATED):

	
SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM / FWTM	47.0° / 95.0°
Efficiency	86 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Bender Wirth: 434 Typ L6	

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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