

MIRELLA-50-M

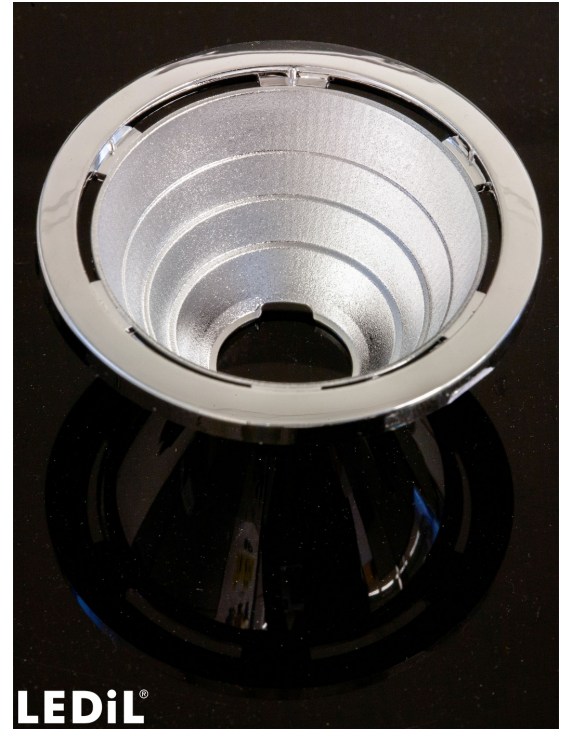
~30° medium beam

SPECIFICATION:

Dimensions	Ø 49.9 mm
Height	23.9 mm
Fastening	glue
ROHS compliant	yes ⓘ

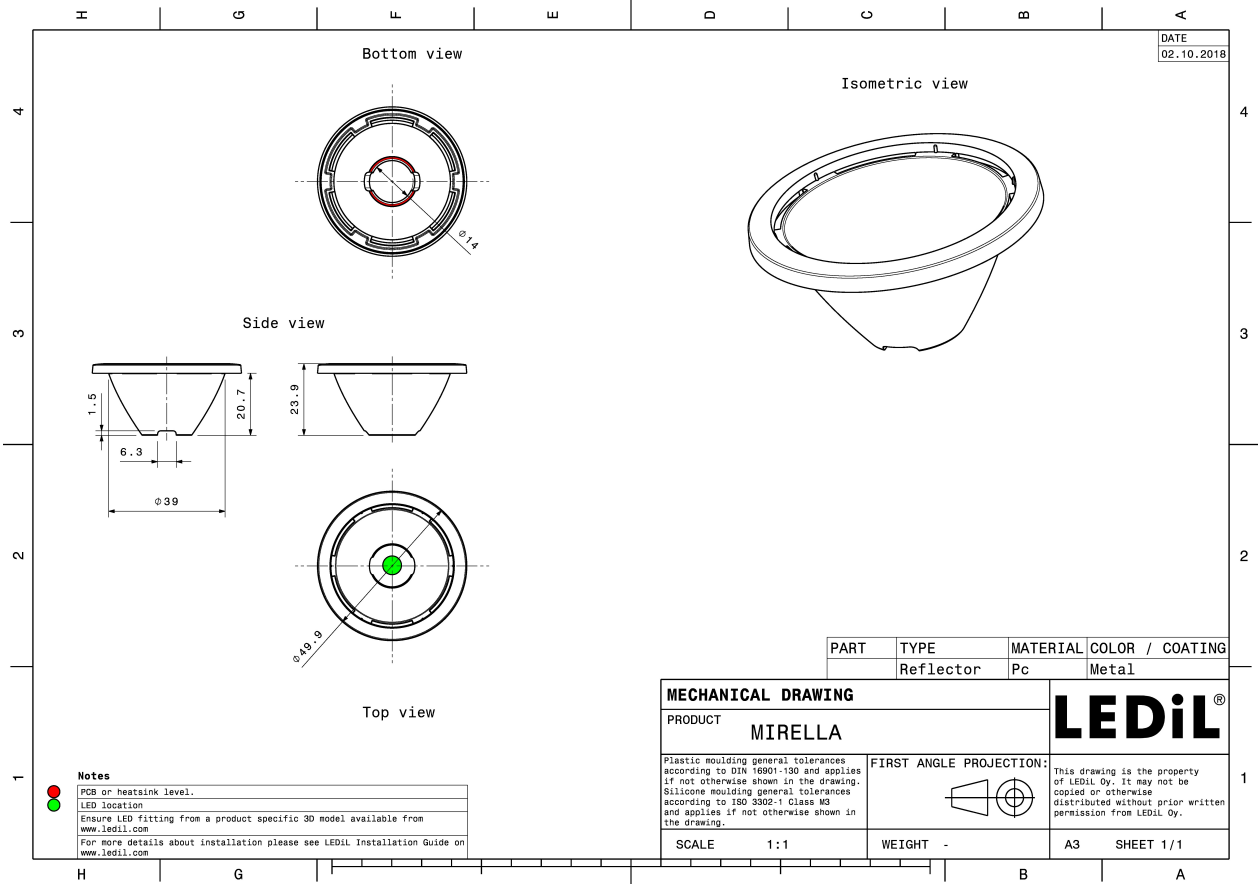
MATERIALS:

Component	Type	Material	Colour	Finish	Coating
MIRELLA-50-M	Reflector	PC	metal		lacquer




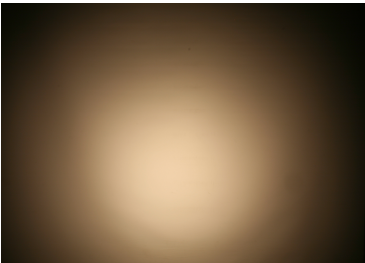
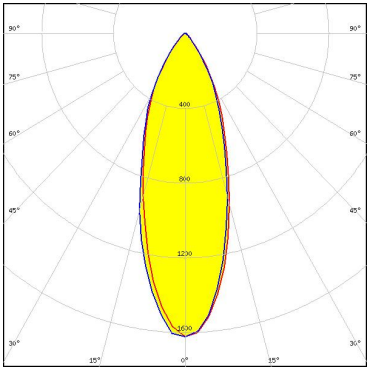

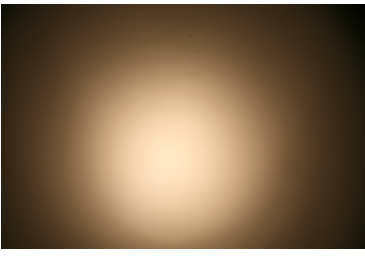
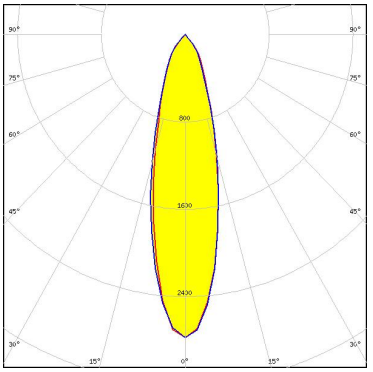



ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C12477_MIRELLA-50-M » Box size: 480 x 280 x 300 mm	336	112	28	2.8



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

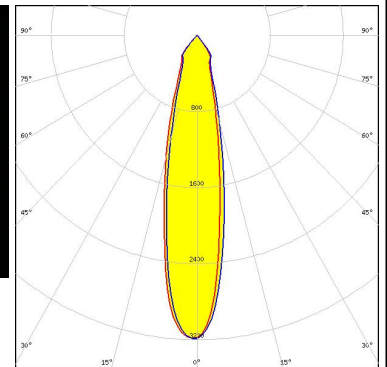
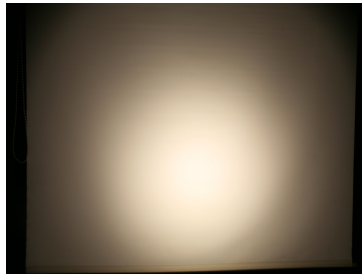
OPTICAL RESULTS (MEASURED):

<p></p> <p>LED BXRA LS FWHM / FWTM 35.0° / 73.0° Efficiency 83 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		
<p></p> <p>LED BXRA LS FWHM / FWTM 27.0° / 64.0° Efficiency 89 % Peak intensity 2.8 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p></p> <p>LED BXRA LS FWHM / FWTM 27.0° / 69.0° Efficiency 84 % Peak intensity 2.4 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p>		
<p>CITIZEN</p> <p>LED CLL01x FWHM / FWTM 35.0° / 76.0° Efficiency 83 % Peak intensity 1.7 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p>		

OPTICAL RESULTS (MEASURED):

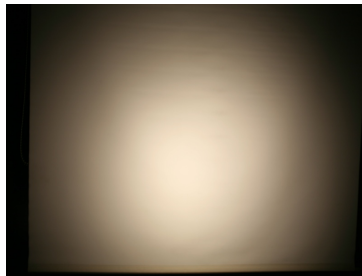
CITIZEN

LED CLL01x
 FWHM / FWTM 29.0° / 77.0°
 Efficiency %
 Peak intensity 3.2 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



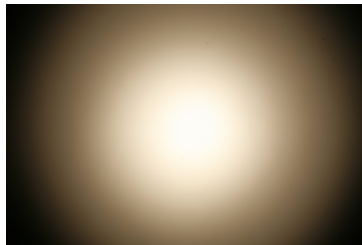
CITIZEN

LED CLL01x
 FWHM / FWTM 39.0° / 77.0°
 Efficiency %
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



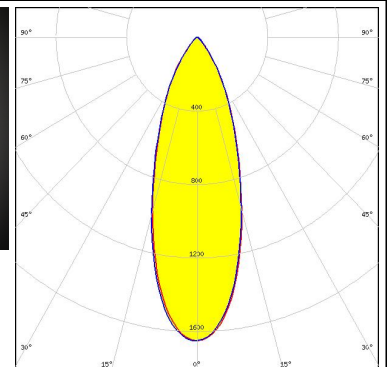
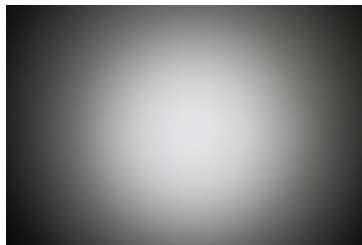
CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM / FWTM 30.0° / 71.0°
 Efficiency 84 %
 Peak intensity 2.2 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



CITIZEN

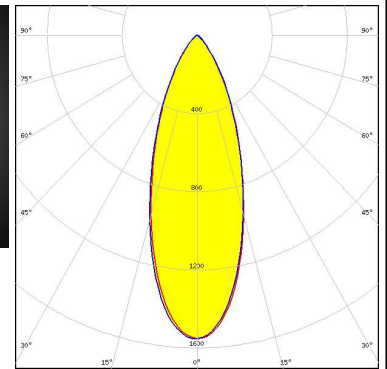
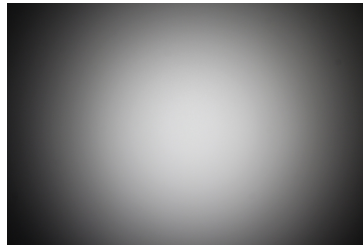
LED CLL02x/CLU02x (LES10)
 FWHM / FWTM 35.0° / 73.0°
 Efficiency 82 %
 Peak intensity 1.7 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



OPTICAL RESULTS (MEASURED):

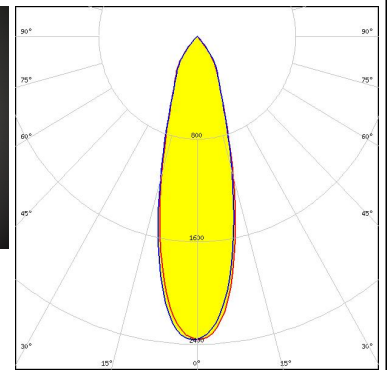
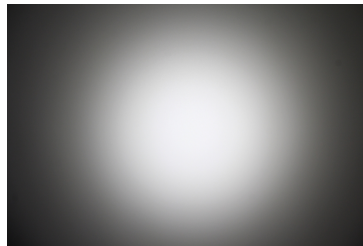
CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM / FWTM 37.0° / 75.0°
 Efficiency 82 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13723_MIRELLA-RZL



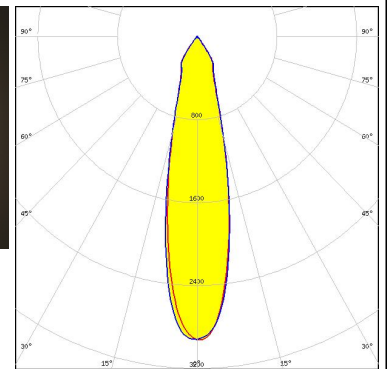
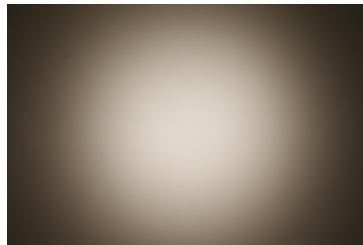
CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM / FWTM 30.0° / 71.0°
 Efficiency 88 %
 Peak intensity 2.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



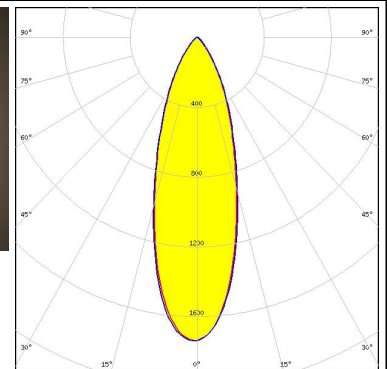
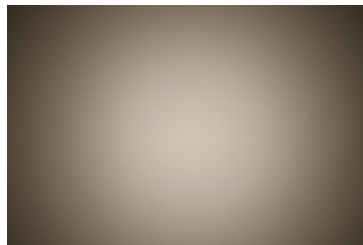
CITIZEN

LED CLU700/701/702/703
 FWHM / FWTM 24.0° / 64.0°
 Efficiency 83 %
 Peak intensity 2.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



CITIZEN

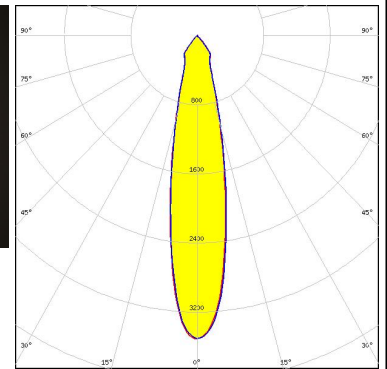
LED CLU700/701/702/703
 FWHM / FWTM 33.0° / 70.0°
 Efficiency 82 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13723_MIRELLA-RZL



OPTICAL RESULTS (MEASURED):

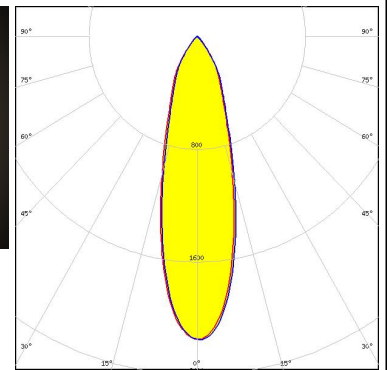
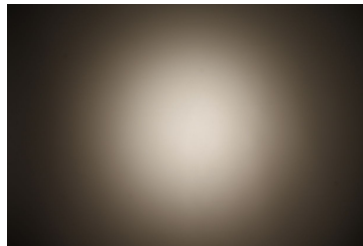
CITIZEN

LED CLU700/701/702/703
 FWHM / FWTM 22.0° / 51.0°
 Efficiency 90 %
 Peak intensity 3.5 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



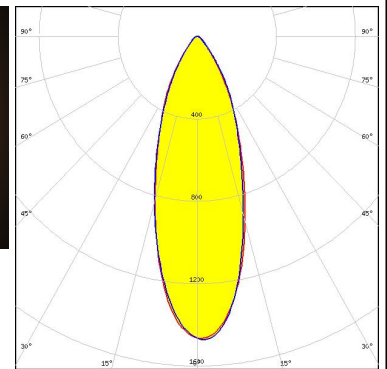
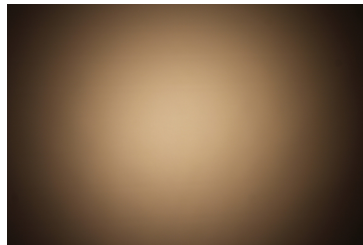
CITIZEN

LED CLU700/701/702/703
 FWHM / FWTM 29.0° / 69.0°
 Efficiency 84 %
 Peak intensity 2.2 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



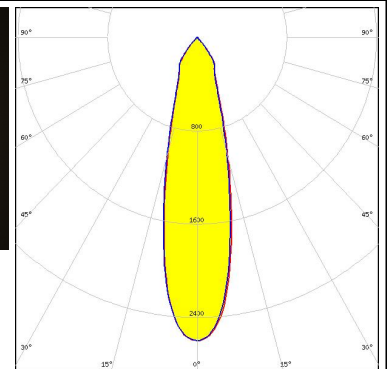
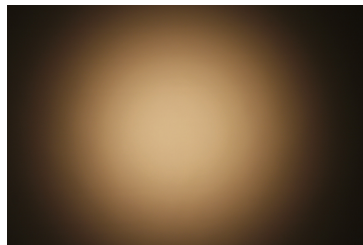
CITIZEN

LED CLU710/711
 FWHM / FWTM 35.0° / 74.0°
 Efficiency 81 %
 Peak intensity 1.5 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



CITIZEN

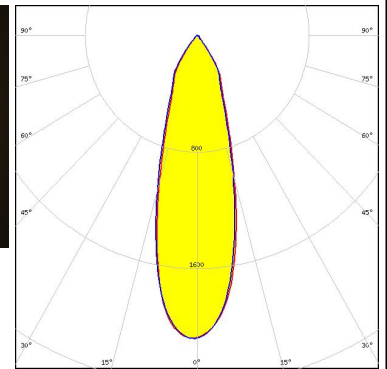
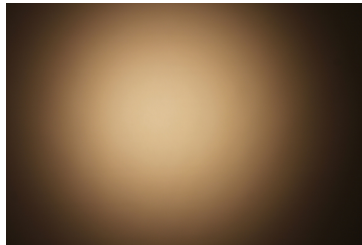
LED CLU710/711
 FWHM / FWTM 26.0° / 70.0°
 Efficiency 90 %
 Peak intensity 2.6 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

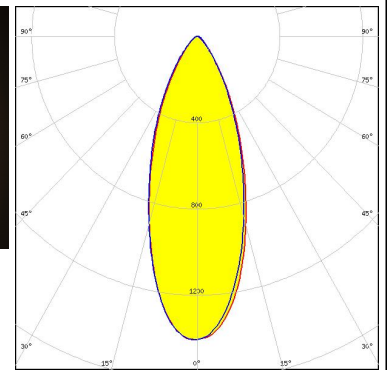
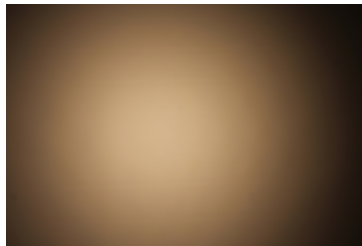
CITIZEN

LED CLU710/711
 FWHM / FWTM 30.0° / 70.0°
 Efficiency 85 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



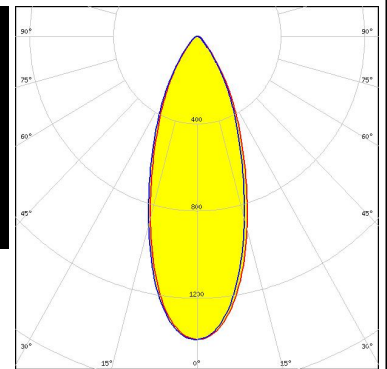
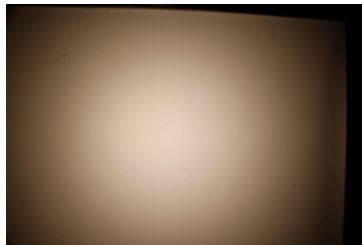
CITIZEN

LED CLU710/711
 FWHM / FWTM 38.0° / 76.0°
 Efficiency 83 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13723_MIRELLA-RZL



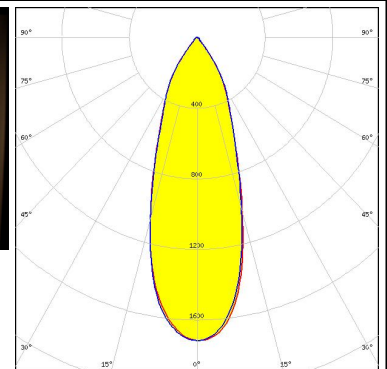
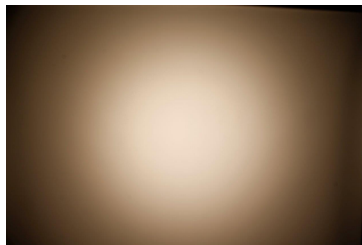
CITIZEN

LED CLU720/721/723
 FWHM / FWTM 38.0° / 76.0°
 Efficiency 82 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



CITIZEN

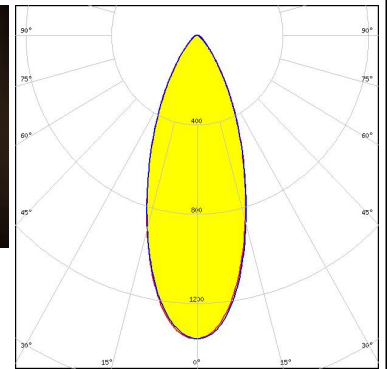
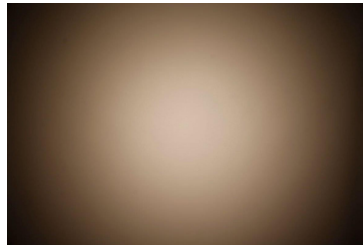
LED CLU720/721/723
 FWHM / FWTM 35.0° / 73.0°
 Efficiency 85 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



OPTICAL RESULTS (MEASURED):

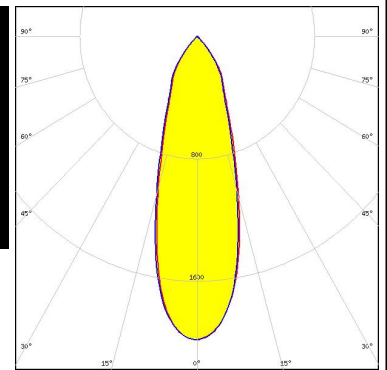
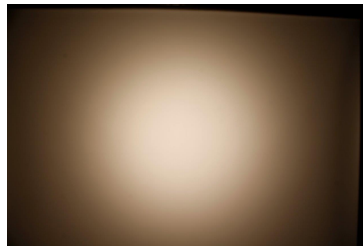
CITIZEN

LED CLU720/721/723
 FWHM / FWTM 39.0° / 77.0°
 Efficiency 83 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13723_MIRELLA-RZL



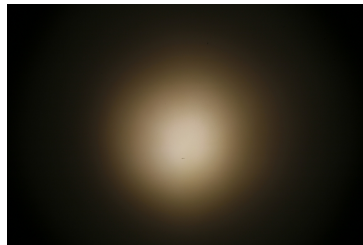
CITIZEN

LED CLU720/721/723
 FWHM / FWTM 31.0° / 75.0°
 Efficiency 90 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



CREE LEDs

LED CXA/B 13xx
 FWHM / FWTM 23.0° / 68.0°
 Efficiency 81 %
 Peak intensity 2.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



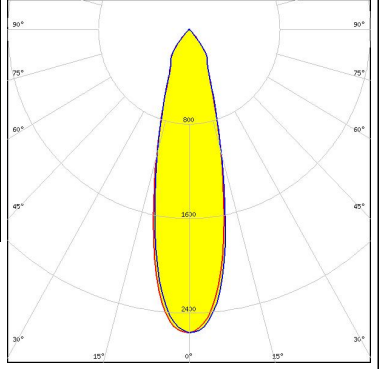
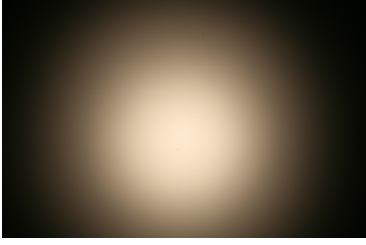
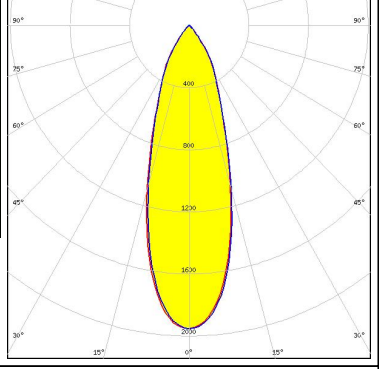



CREE LEDs

LED CXA/B 13xx
 FWHM / FWTM 20.0° / 55.0°
 Efficiency 85 %
 Peak intensity 3.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



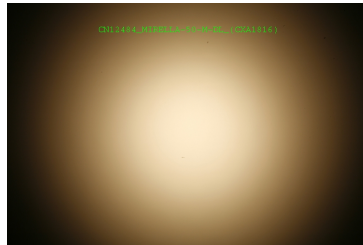
OPTICAL RESULTS (MEASURED):

<p>CREE LEDs</p> <p>LED CXA/B 13xx FWHM / FWTM 26.0° / 67.0° Efficiency 80 % Peak intensity 2.4 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		
<p>CREE LEDs</p> <p>LED CXA/B 15xx FWHM / FWTM 28.0° / 72.0° Efficiency 92 % Peak intensity 2.5 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>CREE LEDs</p> <p>LED CXA/B 15xx FWHM / FWTM 34.0° / 72.0° Efficiency 89 % Peak intensity 1.7 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		
<p>CREE LEDs</p> <p>LED CXA/B 15xx FWHM / FWTM 30.0° / 71.0° Efficiency 83 % Peak intensity 2.4 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p>		

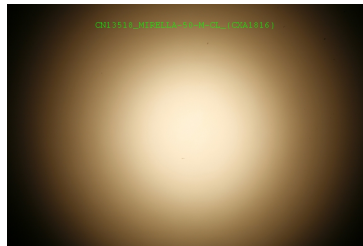
OPTICAL RESULTS (MEASURED):



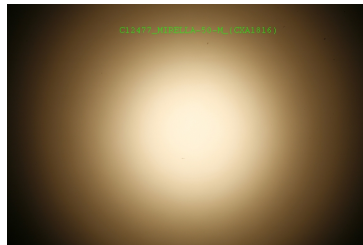
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM / FWTM 39.0° / 76.0°
 Efficiency 83 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



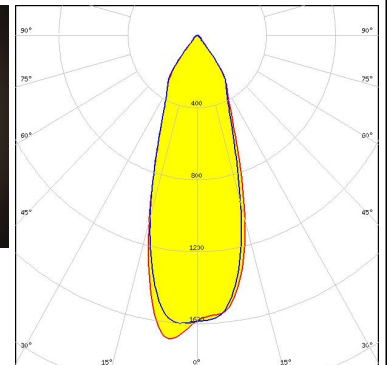
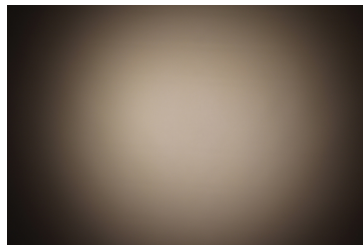
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM / FWTM 37.0° / 76.0°
 Efficiency 82 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



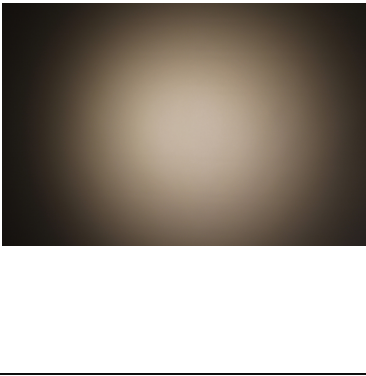
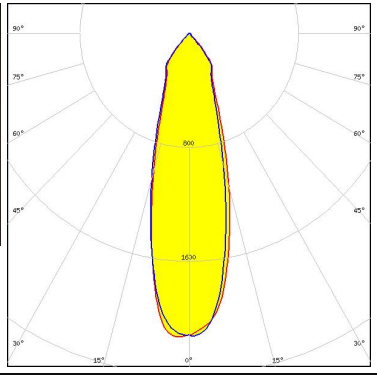

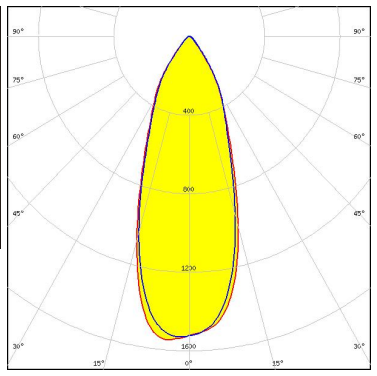

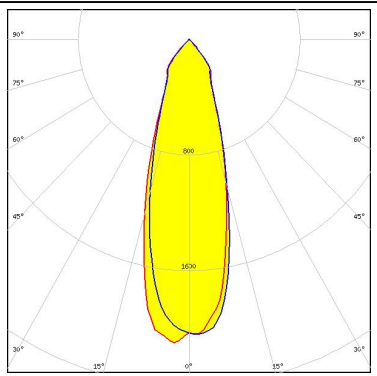

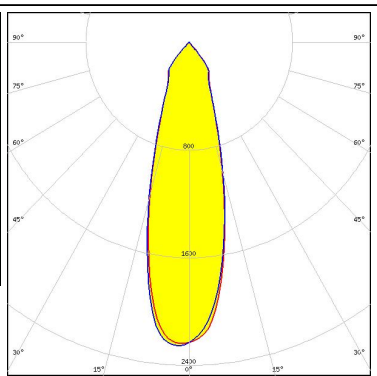
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM / FWTM 34.0° / 78.0°
 Efficiency 88 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED MHD-E/G
 FWHM / FWTM 35.0° / 76.0°
 Efficiency 88 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



OPTICAL RESULTS (MEASURED):

<p>CREE LEDs</p> <p>LED MHD-E/G FWHM / FWTM 30.0° / 79.0° Efficiency 93 % Peak intensity 2.1 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>CREE LEDs</p> <p>LED MHD-E/G FWHM / FWTM 37.0° / 76.0° Efficiency 88 % Peak intensity 1.5 cd/m LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		
<p>CREE LEDs</p> <p>LED MT-G FWHM / FWTM 31.0° / 78.5° Efficiency 91 % Peak intensity 2.1 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>CREE LEDs</p> <p>LED MT-G2 FWHM / FWTM 30.0° / 78.0° Efficiency 90 % Peak intensity 2.3 cd/m LEDs/each optic 1 Light colour White Required components:</p>		

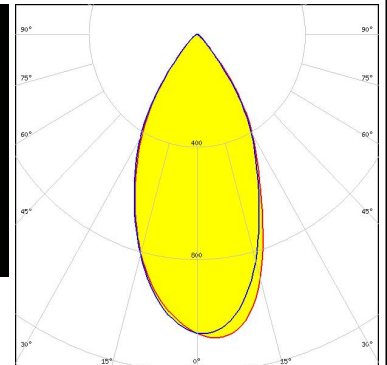
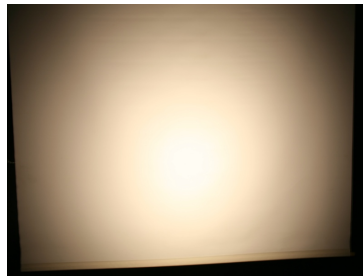
OPTICAL RESULTS (MEASURED):



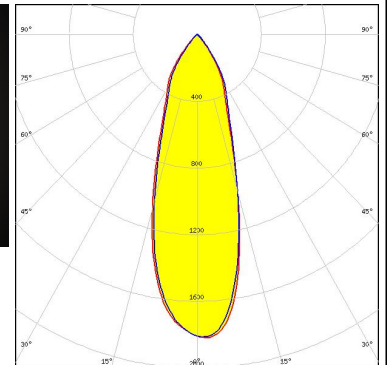
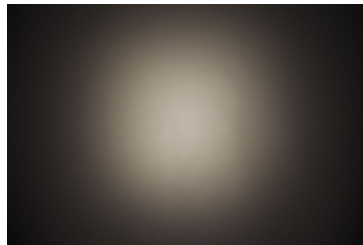
LED MT-G2
 FWHM / FWTM 35.0° / 77.0°
 Efficiency 85 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



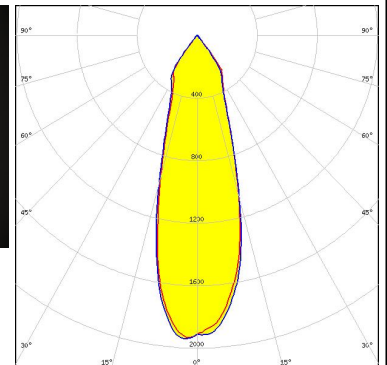
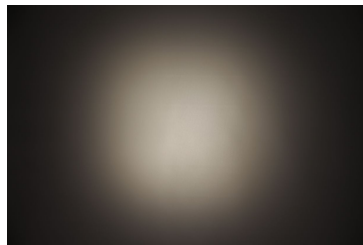
LED MT-G2
 FWHM / FWTM 38.0° / 77.0°
 Efficiency 83 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL




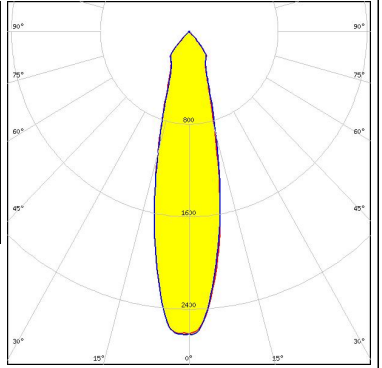

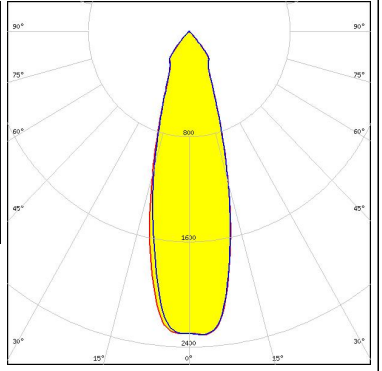
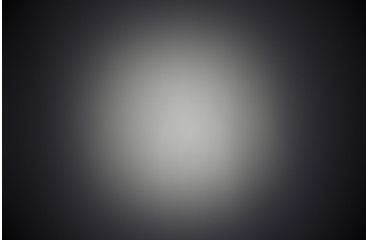
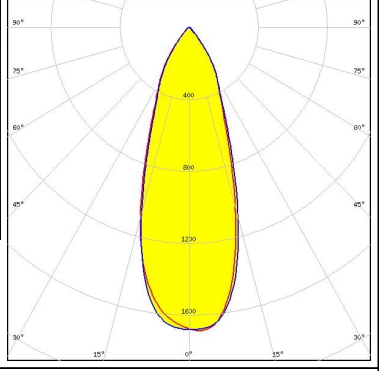
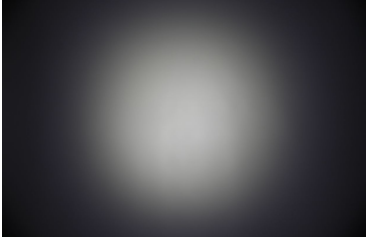
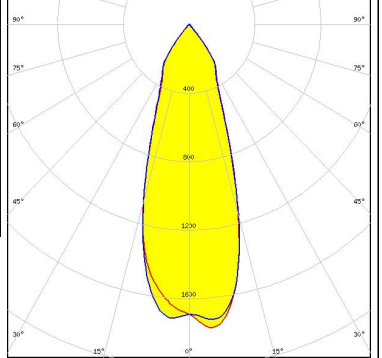
LED XHP50
 FWHM / FWTM 33.0° / 74.0°
 Efficiency 86 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL




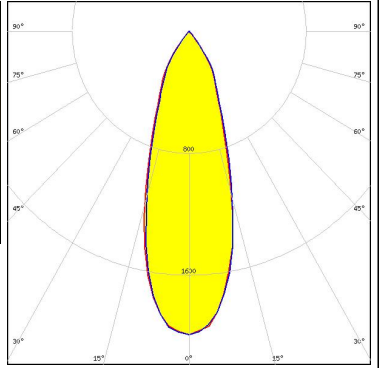

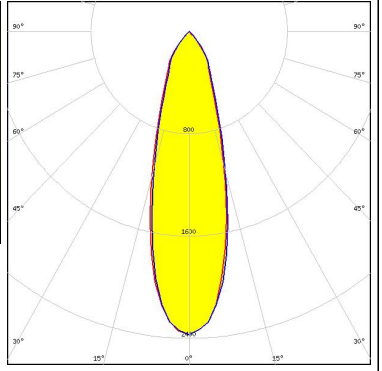
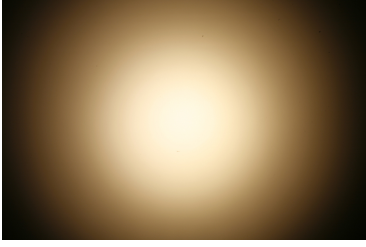
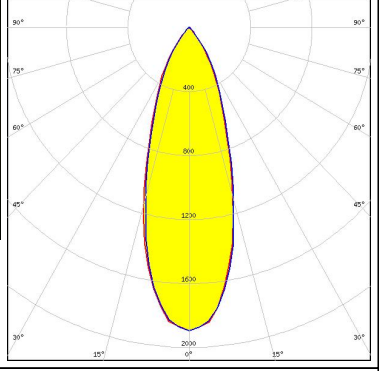

LED XHP50
 FWHM / FWTM 31.0° / 75.0°
 Efficiency 86 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL





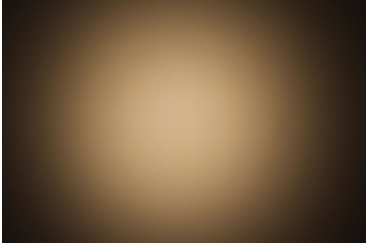
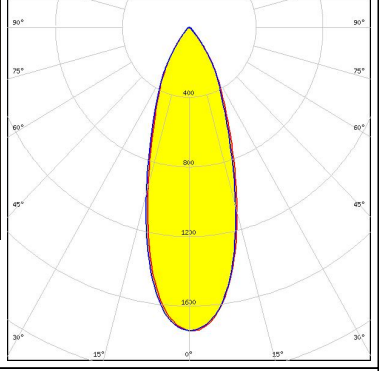
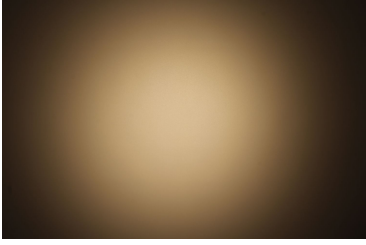
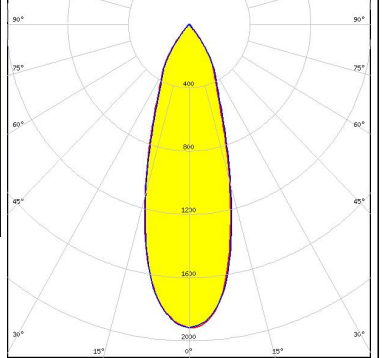
OPTICAL RESULTS (MEASURED):

<p>CREE LEDs</p> <p>LED XHP50 FWHM / FWTM 25.0° / 76.0° Efficiency 91 % Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>CREE LEDs</p> <p>LED XHP70 FWHM / FWTM 30.0° / 77.0° Efficiency 91 % Peak intensity 2.3 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>CREE LEDs</p> <p>LED XHP70 FWHM / FWTM 36.0° / 74.0° Efficiency 87 % Peak intensity 1.7 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		
<p>CREE LEDs</p> <p>LED XHP70 FWHM / FWTM 35.0° / 76.0° Efficiency 86 % Peak intensity 1.8 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p>		

OPTICAL RESULTS (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM / FWTM 33.0° / 72.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 2 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13333_MIRELLA-CL</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM / FWTM 29.0° / 72.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 2.4 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM / FWTM 35.0° / 71.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 1.9 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C12479_MIRELLA-DL</p>		
<p>LUMILEDS</p> <p>LED LUXEON S1000</p> <p>FWHM / FWTM 22.0° / 64.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 3.4 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13333_MIRELLA-CL</p>		

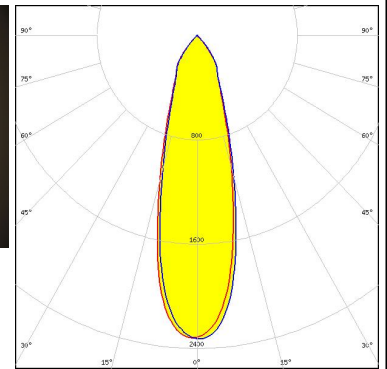
OPTICAL RESULTS (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON S1000 FWHM / FWTM 22.0° / 66.0° Efficiency % LEDs/each optic 1 Light colour White Required components:</p>		
<p>LUMILEDS</p> <p>LED LUXEON S1000 FWHM / FWTM 28.0° / 68.0° Efficiency % LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		
<p>LUMINUS</p> <p>LED CxM-9 (13.5x13.5) FWHM / FWTM 34.0° / 72.0° Efficiency 85 % Peak intensity 1.7 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		
<p>LUMINUS</p> <p>LED CxM-9 (13.5x13.5) FWHM / FWTM 33.0° / 72.0° Efficiency 85 % Peak intensity 1.9 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p>		

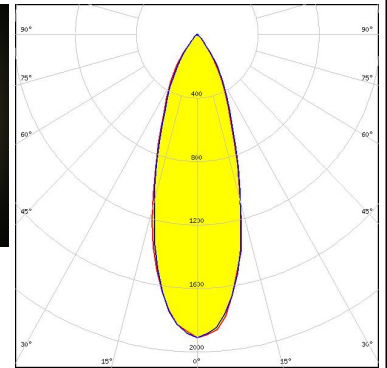
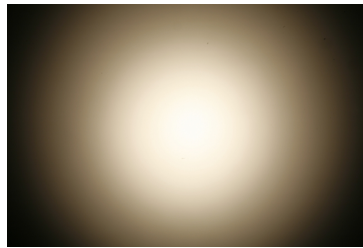
OPTICAL RESULTS (MEASURED):



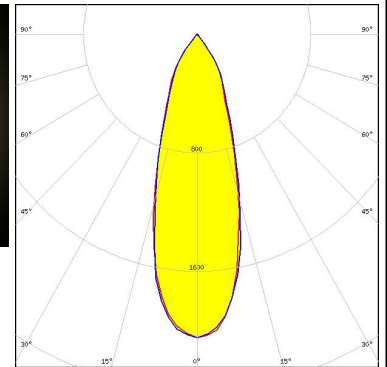
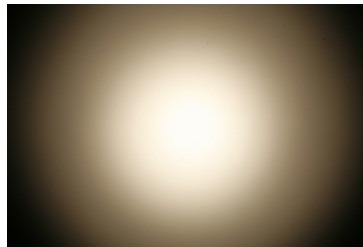
LED CxM-9 (13.5x13.5)
 FWHM / FWTM 29.0° / 73.0°
 Efficiency 90 %
 Peak intensity 2.3 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



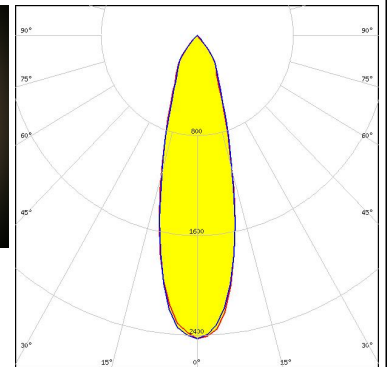
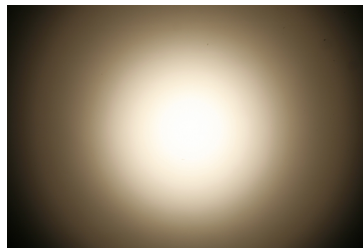
LED COB L-Type (LES 9)
 FWHM / FWTM 34.0° / 71.0°
 Efficiency 84 %
 Peak intensity 1.9 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



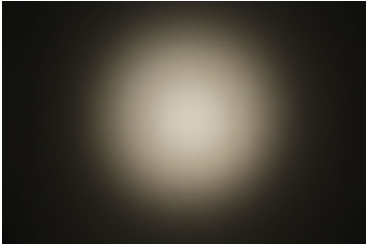
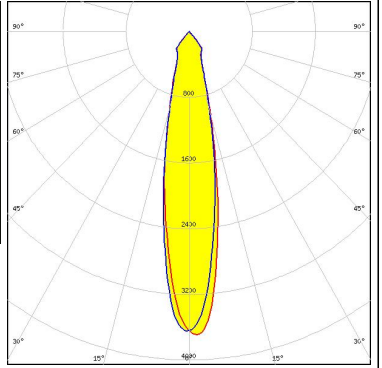

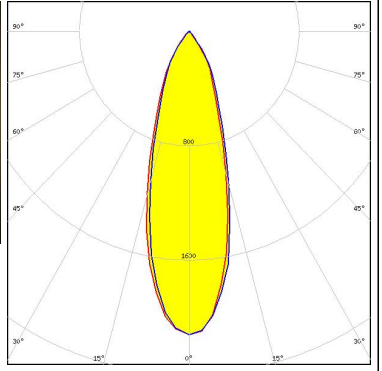
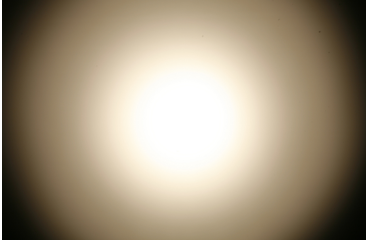
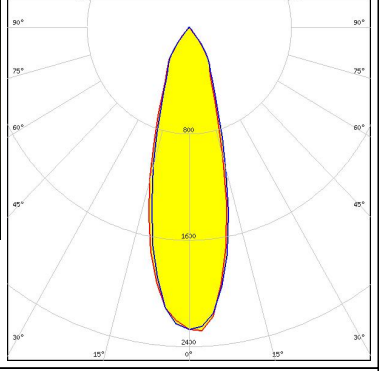

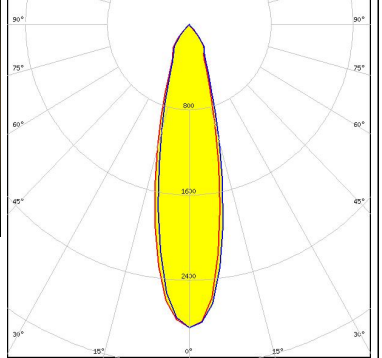
LED COB L-Type (LES 9)
 FWHM / FWTM 33.0° / 71.0°
 Efficiency 86 %
 Peak intensity 2.1 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



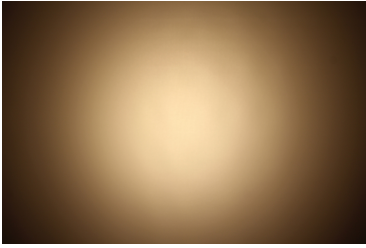
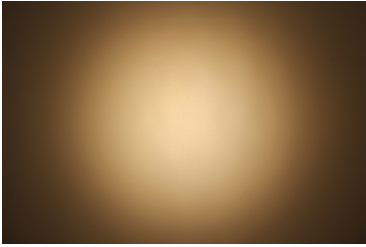
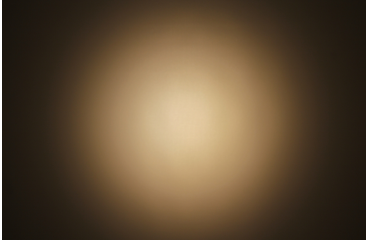
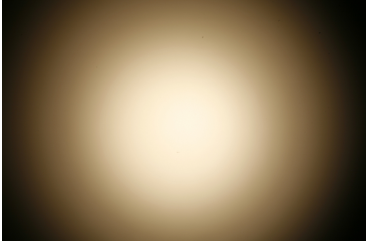
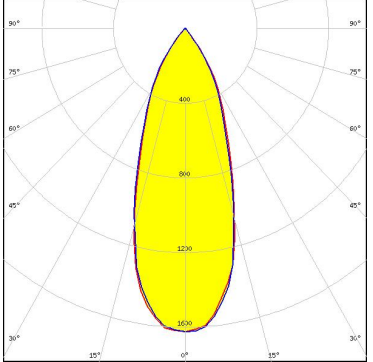
LED COB L-Type (LES 9)
 FWHM / FWTM 29.0° / 72.0°
 Efficiency 90 %
 Peak intensity 2.4 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



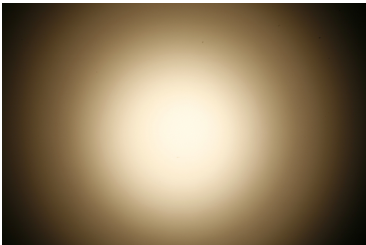
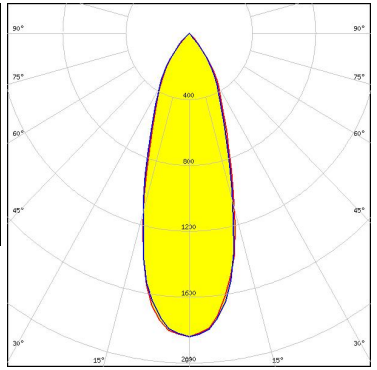
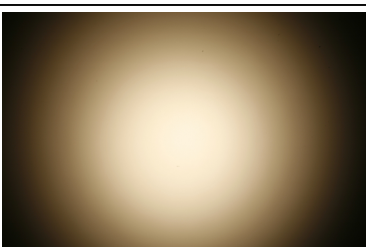
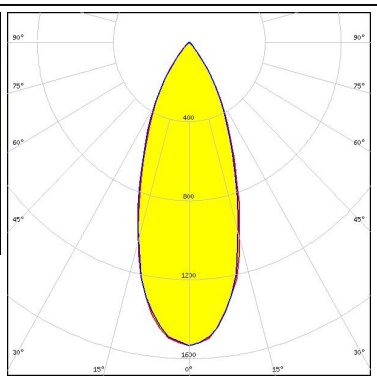
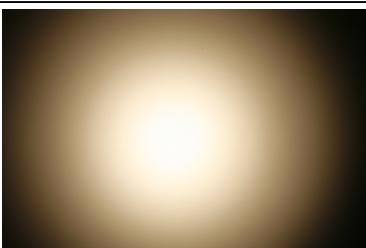
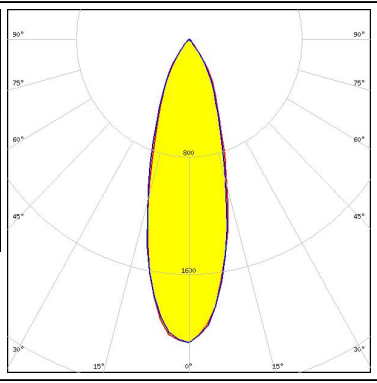
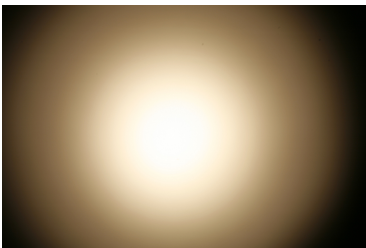
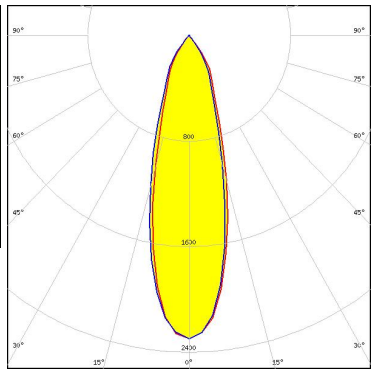
OPTICAL RESULTS (MEASURED):

<p>NICHIA</p> <p>LED NFMW48xA FWHM / FWTM 21.0° / 53.0° Efficiency 82 % Peak intensity 3.3 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>NICHIA</p> <p>LED NSCxL036A FWHM / FWTM 32.0° / 70.0° Efficiency 85 % Peak intensity 2.1 cd/m LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		
<p>NICHIA</p> <p>LED NSCxL036A FWHM / FWTM 30.0° / 70.0° Efficiency 85 % Peak intensity 2.3 cd/m LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p>		
<p>NICHIA</p> <p>LED NSCxL036A FWHM / FWTM 26.0° / 64.0° Efficiency 88 % Peak intensity 2.8 cd/m LEDs/each optic 1 Light colour White Required components:</p>		


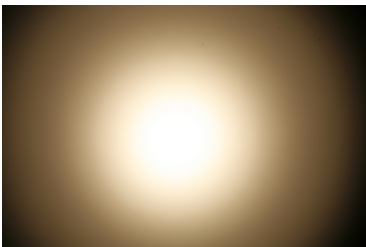
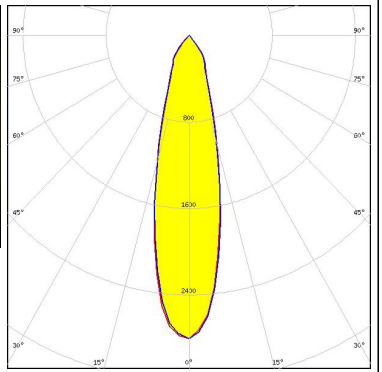
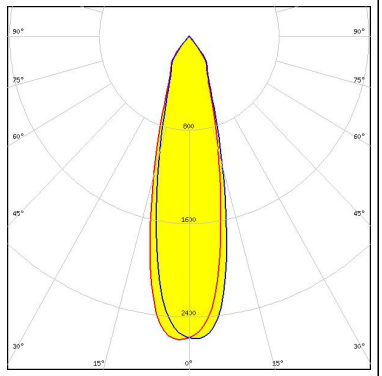
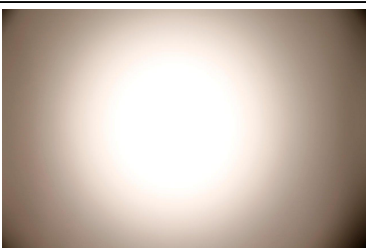
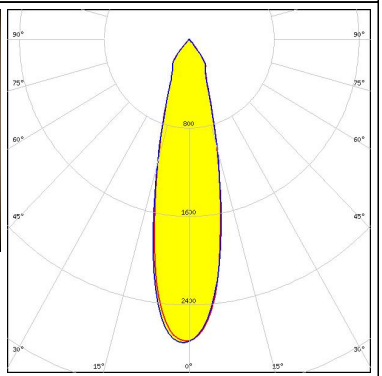
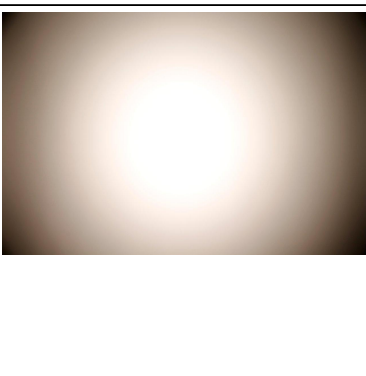
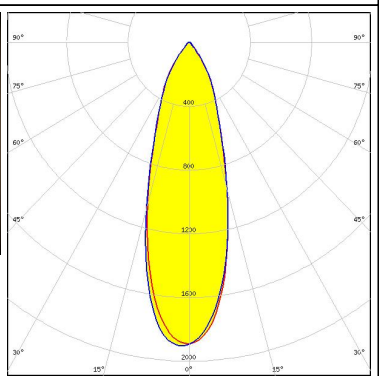
OPTICAL RESULTS (MEASURED):

<p>OSRAM Opto Semiconductors</p> <p>LED Duris S10</p> <p>FWHM / FWTM 32.0° / 72.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 1.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C12479_MIRELLA-DL</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED Duris S10</p> <p>FWHM / FWTM 29.0° / 71.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 2.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13333_MIRELLA-CL</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED Duris S10</p> <p>FWHM / FWTM 24.0° / 63.0°</p> <p>Efficiency 88 %</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 S13</p> <p>FWHM / FWTM 38.0° / 74.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 1.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13333_MIRELLA-CL</p>	 

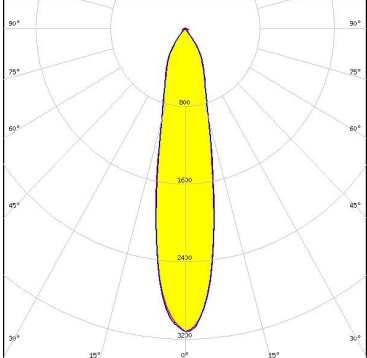
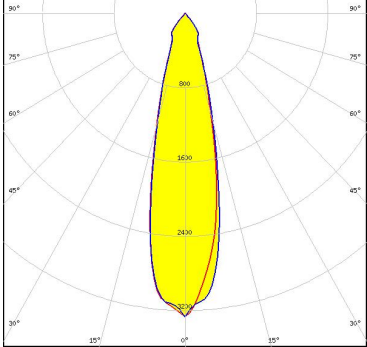
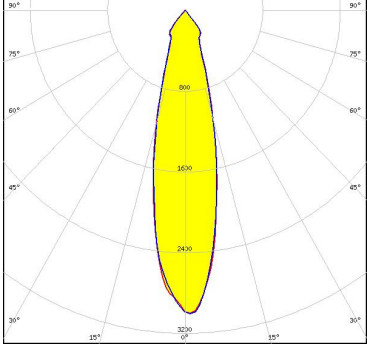
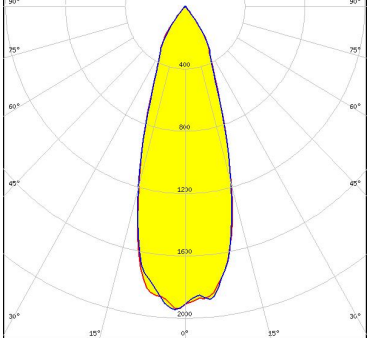
OPTICAL RESULTS (MEASURED):

<p>OSRAM Opto Semiconductors</p> <p>LED Soleriq S13</p> <p>FWHM / FWTM 35.0° / 76.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 1.8 cd/m</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 39.0° / 75.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 1.5 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C12479_MIRELLA-DL</p>		
<p>SEOUL SEMICONDUCTOR</p> <p>LED ZC4/6</p> <p>FWHM / FWTM 32.0° / 70.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 2.1 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C12479_MIRELLA-DL</p>		
<p>SEOUL SEMICONDUCTOR</p> <p>LED ZC4/6</p> <p>FWHM / FWTM 30.0° / 69.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 2.3 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13333_MIRELLA-CL</p>		

OPTICAL RESULTS (MEASURED):

<p> SEOL SEMICONDUCTOR</p> <p>LED ZC4/6</p> <p>FWHM / FWTM 26.0° / 66.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 2.8 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>SHARP</p> <p>LED Mini Zenigata (GW5BM)</p> <p>FWHM / FWTM 29.0° / 71.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 2.7 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>SHARP</p> <p>LED Mini Zenigata (GW6BM)</p> <p>FWHM / FWTM 25.0° / 73.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 2.7 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>SHARP</p> <p>LED Mini Zenigata (GW6BM)</p> <p>FWHM / FWTM 30.0° / 70.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 1.9 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C12479_MIRELLA-DL</p>		

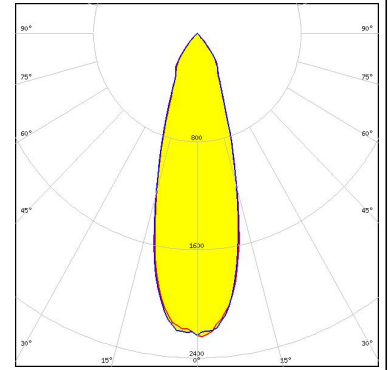
OPTICAL RESULTS (SIMULATED):

<p>bridgelux</p> <p>LED: Vero SE 10 FWHM / FWTM: 22.0° / 64.0° Efficiency: 91 % Peak intensity: 3.1 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>LUMILEDS</p> <p>LED: LUXEON 7070 FWHM / FWTM: 26.0° / 52.0° Efficiency: 96 % Peak intensity: 3.3 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED: OSCONIQ P 7070 FWHM / FWTM: 25.0° / 59.0° Efficiency: 91 % Peak intensity: 3 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED: Soleriq S9 FWHM / FWTM: 34.0° / 71.0° Efficiency: 87 % Peak intensity: 2 cd/lm LEDs/each optic: 1 Light colour: White Required components: C13333_MIRELLA-CL</p>	

OPTICAL RESULTS (SIMULATED):

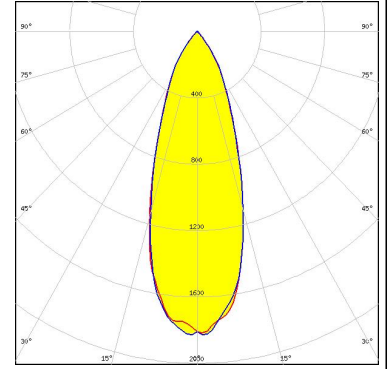
OSRAM Opto Semiconductors

LED Soleriq S9
FWHM / FWTM 31.0° / 73.0°
Efficiency 91 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM Opto Semiconductors

LED Soleriq S9
FWHM / FWTM 35.0° / 71.0°
Efficiency 85 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12479_MIRELLA-DL



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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