

MIRELLA-50-W

~40° wide beam

SPECIFICATION:

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

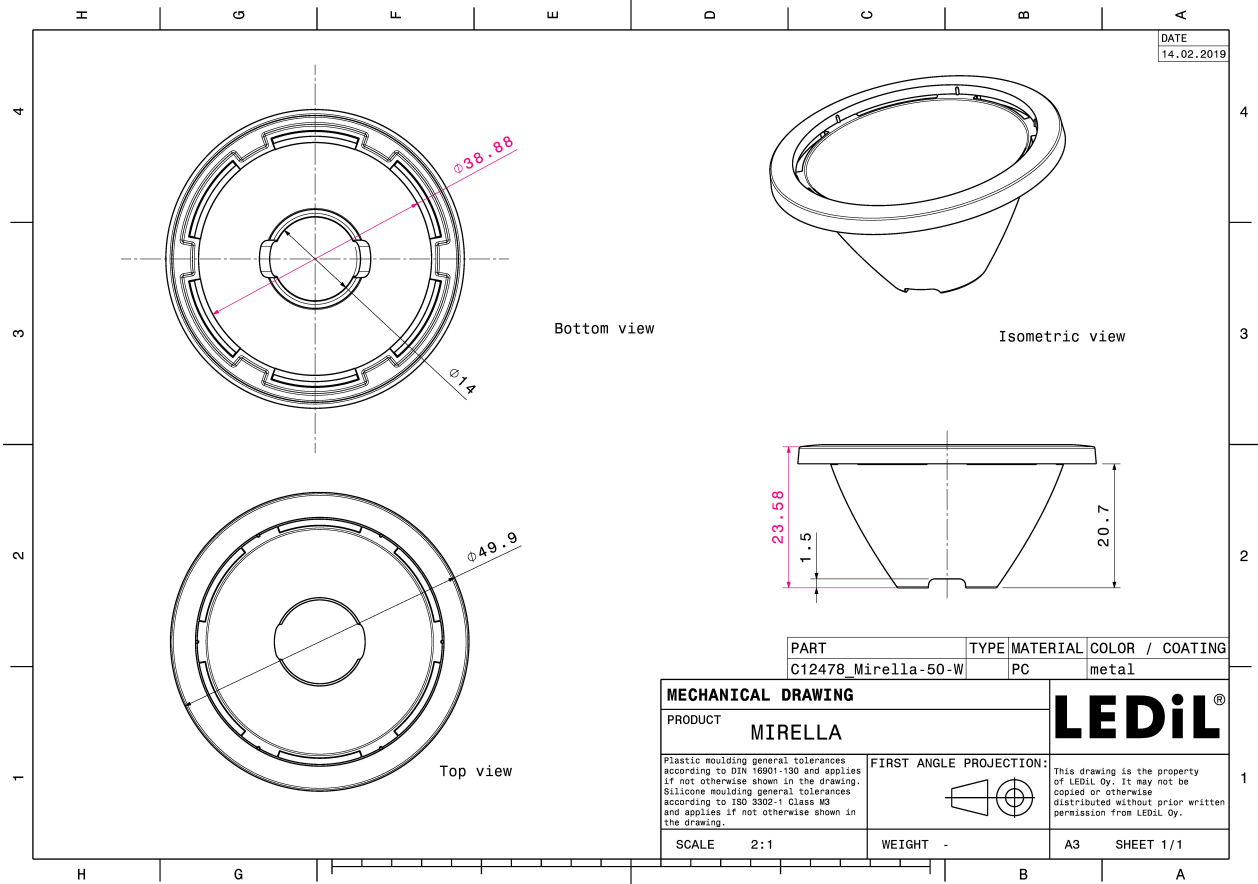
MATERIALS:

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





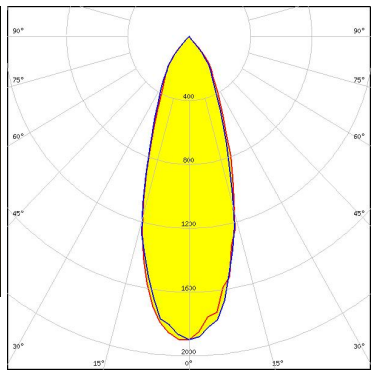

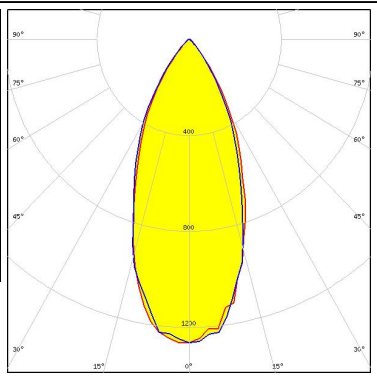

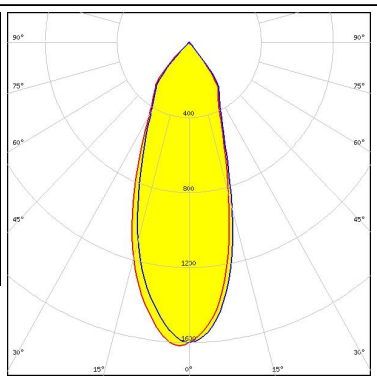
ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C12478_MIRELLA-50-W » Box size: 480 x 280 x 300 mm	336	112	28	3.0



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

OPTICAL RESULTS (MEASURED):

<p>bridgelux.</p> <p>LED BXRA LS</p> <p>FWHM / FWTM 42.0° / 78.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 1.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13333_MIRELLA-CL</p>		
<p>bridgelux.</p> <p>LED BXRA LS</p> <p>FWHM / FWTM 35.0° / 78.0°</p> <p>Efficiency 88 %</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>bridgelux.</p> <p>LED BXRA LS</p> <p>FWHM / FWTM 43.0° / 78.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 1.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C12479_MIRELLA-DL</p>		
<p>CITIZEN</p> <p>LED CLL01x</p> <p>FWHM / FWTM 44.0° / 85.0°</p> <p>Efficiency %</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

OPTICAL RESULTS (MEASURED):

CITIZEN

LED CLL01x
FWHM / FWTM 50.0° / 86.0°
Efficiency %
LEDs/each optic 1
Light colour White
Required components:
C12479_MIRELLA-DL



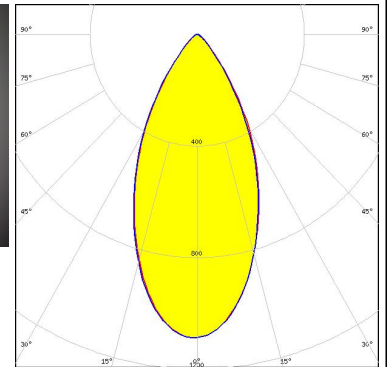
CITIZEN

LED CLL01x
FWHM / FWTM 48.0° / 80.0°
Efficiency 84 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13333_MIRELLA-CL



CITIZEN

LED CLL02x/CLU02x (LES10)
FWHM / FWTM 50.0° / 84.0°
Efficiency 83 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12479_MIRELLA-DL



CITIZEN

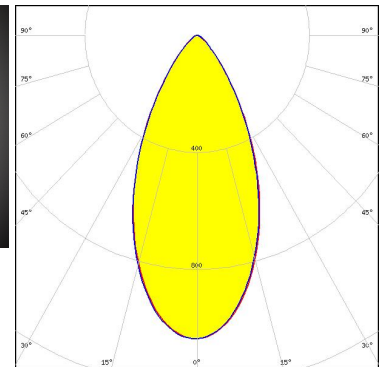
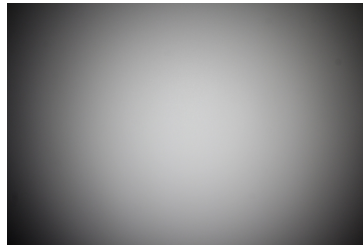
LED CLL02x/CLU02x (LES10)
FWHM / FWTM 42.0° / 82.0°
Efficiency 90 %
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (MEASURED):

CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM / FWTM 50.0° / 87.0°
 Efficiency 82 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13723_MIRELLA-RZL



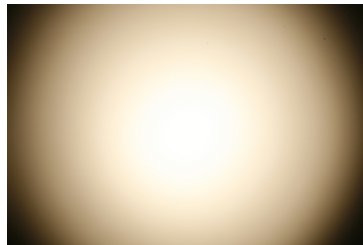
CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM / FWTM 48.0° / 82.0°
 Efficiency 82 %
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



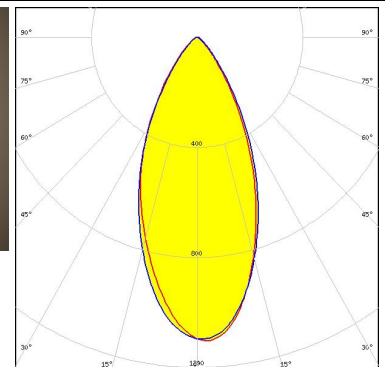
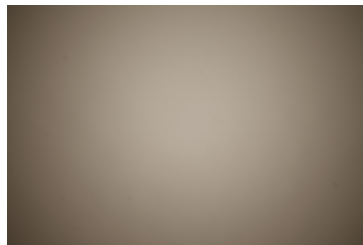
CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM / FWTM 46.0° / 78.0°
 Efficiency 84 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



CITIZEN

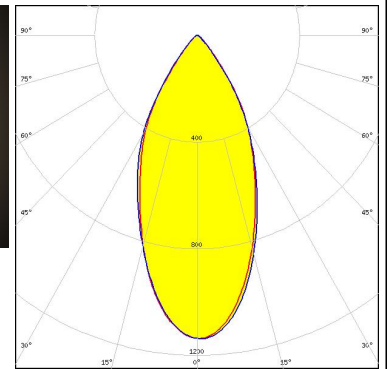
LED CLU700/701/702/703
 FWHM / FWTM 46.0° / 83.0°
 Efficiency 80 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13723_MIRELLA-RZL



OPTICAL RESULTS (MEASURED):

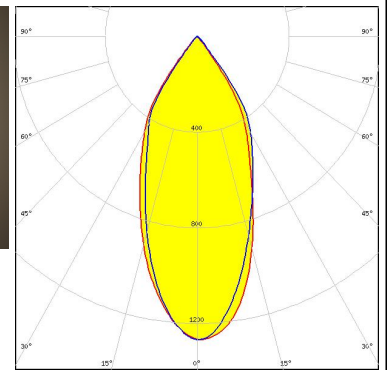
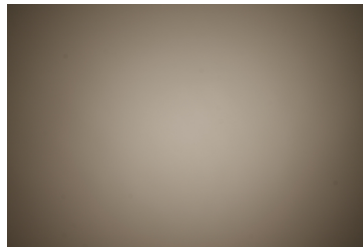
CITIZEN

LED CLU700/701/702/703
 FWHM / FWTM 47.0° / 81.0°
 Efficiency 82 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



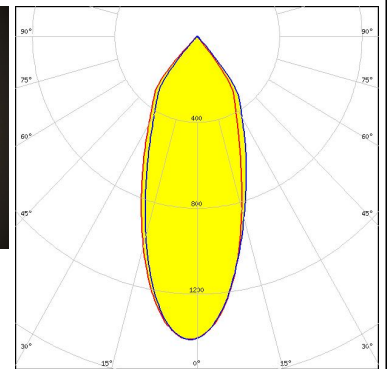
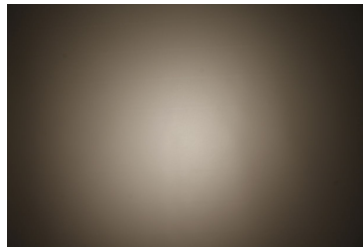
CITIZEN

LED CLU700/701/702/703
 FWHM / FWTM 44.0° / 77.0°
 Efficiency 82 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



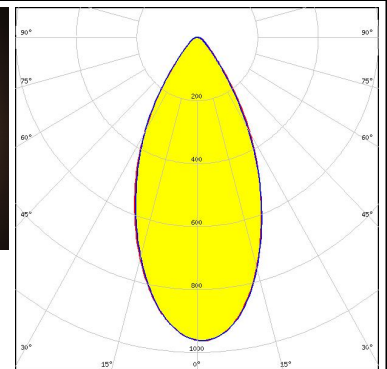
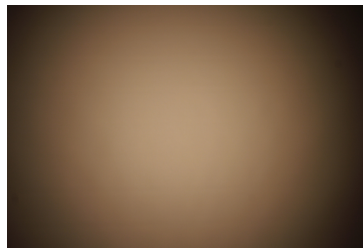
CITIZEN

LED CLU700/701/702/703
 FWHM / FWTM 40.0° / 83.0°
 Efficiency 88 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



CITIZEN

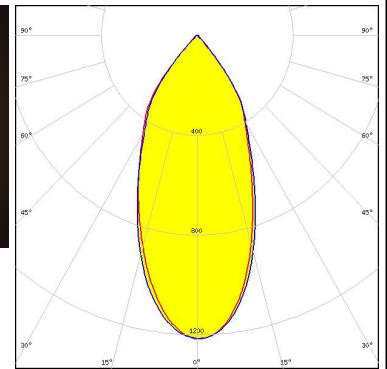
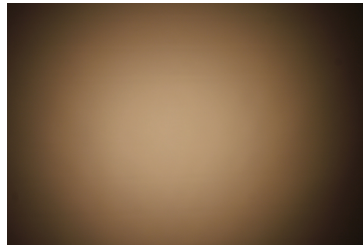
LED CLU710/711
 FWHM / FWTM 50.0° / 85.0°
 Efficiency 79 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



OPTICAL RESULTS (MEASURED):

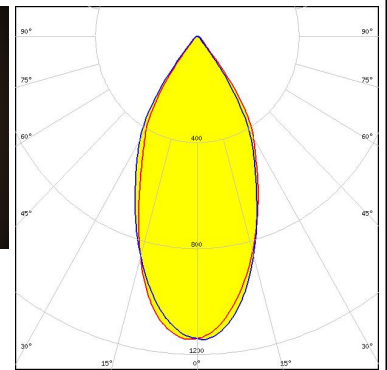
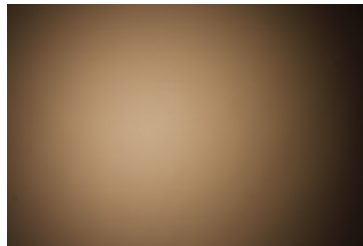
CITIZEN

LED CLU710/711
 FWHM / FWTM 46.0° / 84.0°
 Efficiency 88 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



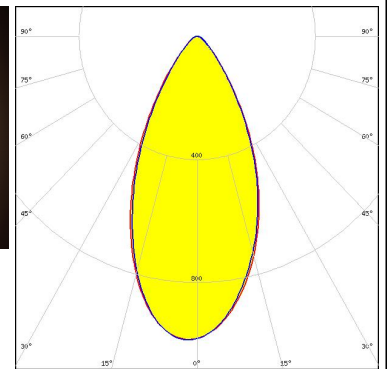
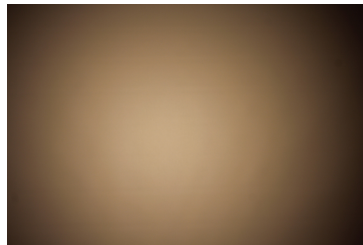
CITIZEN

LED CLU710/711
 FWHM / FWTM 48.0° / 79.0°
 Efficiency 83 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



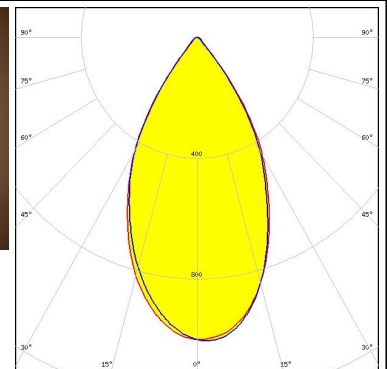
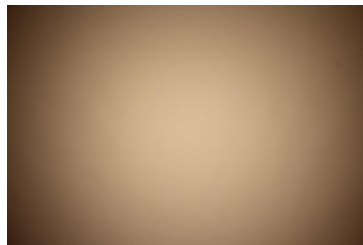
CITIZEN

LED CLU710/711
 FWHM / FWTM 49.0° / 87.0°
 Efficiency 80 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13723_MIRELLA-RZL



CITIZEN

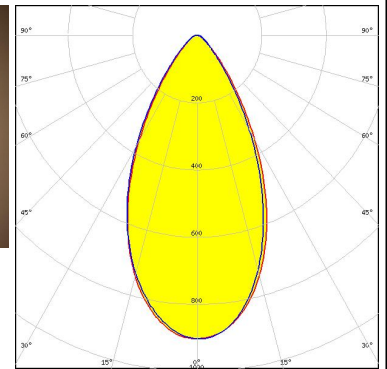
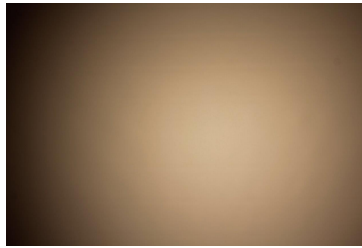
LED CLU720/721/723
 FWHM / FWTM 55.0° / 81.0°
 Efficiency 83 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



OPTICAL RESULTS (MEASURED):

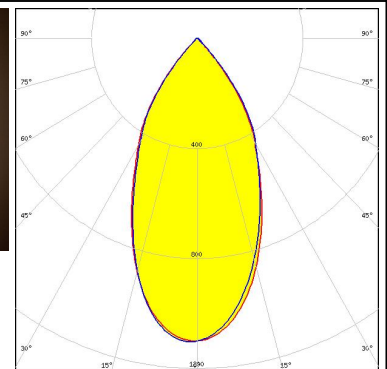
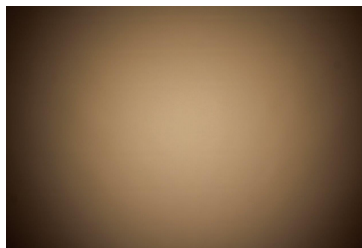
CITIZEN

LED CLU720/721/723
 FWHM / FWTM 53.0° / 90.0°
 Efficiency 80 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13723_MIRELLA-RZL



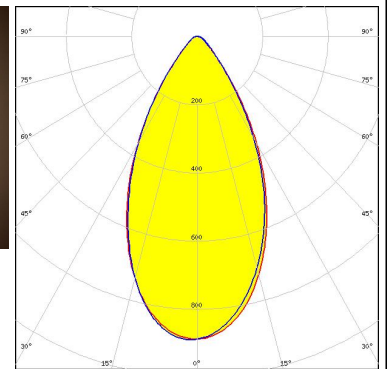
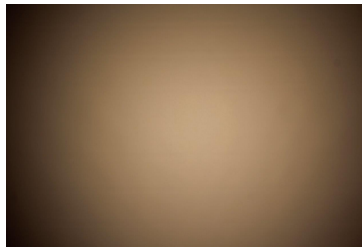
CITIZEN

LED CLU720/721/723
 FWHM / FWTM 51.0° / 85.0°
 Efficiency 88 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

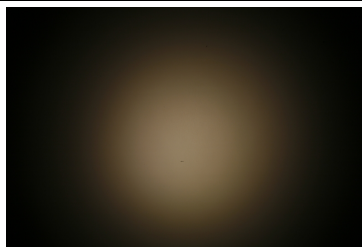


CITIZEN


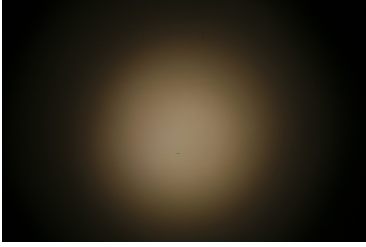
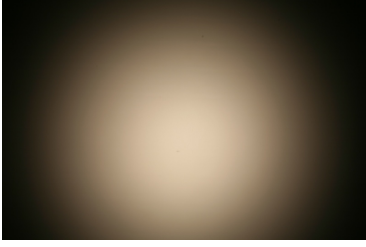
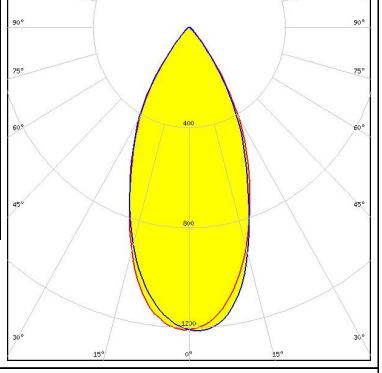
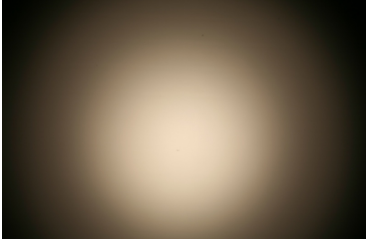
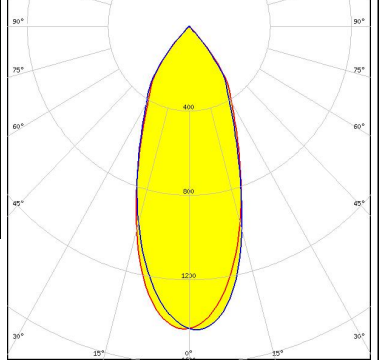
LED CLU720/721/723
 FWHM / FWTM 53.0° / 88.0°
 Efficiency 79 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



LED CXA/B 13xx
 FWHM / FWTM 43.0° / 76.0°
 Efficiency 81 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



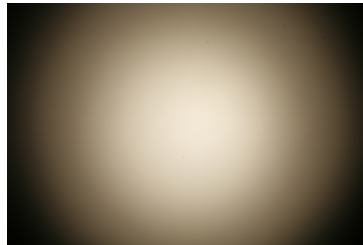
OPTICAL RESULTS (MEASURED):

<p>CREE LEDs</p> <p>LED CXA/B 13xx FWHM / FWTM 37.0° / 80.0° Efficiency 86 % Peak intensity 1.8 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>CREE LEDs</p> <p>LED CXA/B 13xx FWHM / FWTM 42.0° / 76.0° Efficiency 81 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p>		
<p>CREE LEDs</p> <p>LED CXA/B 15xx FWHM / FWTM 50.0° / 82.0° Efficiency 87 % Peak intensity 1.1 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 42.0° / 84.0° Efficiency 91 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

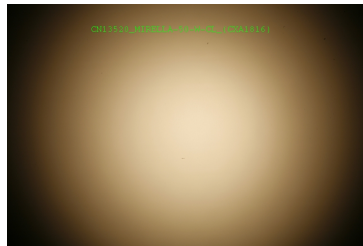
OPTICAL RESULTS (MEASURED):



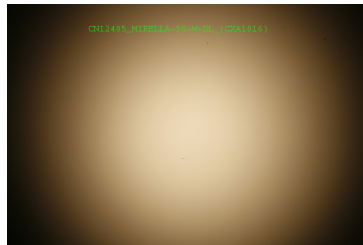
LED CXA/B 15xx
FWHM / FWTM 46.0° / 79.0°
Efficiency 85 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13333_MIRELLA-CL



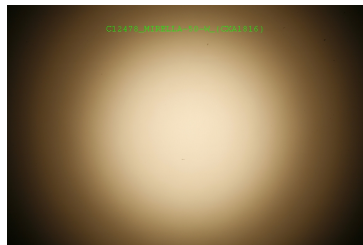
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM 56.0° / 84.0°
Efficiency 82 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13333_MIRELLA-CL



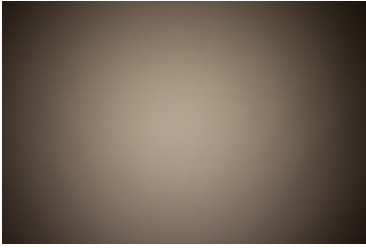
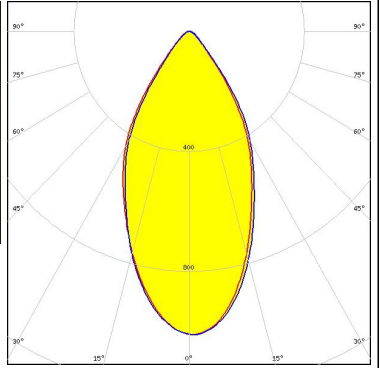
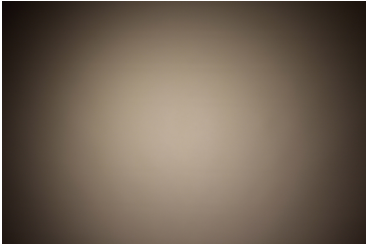
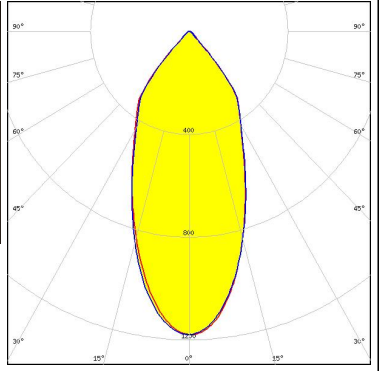
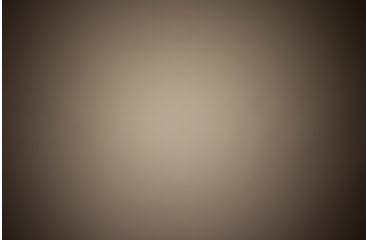
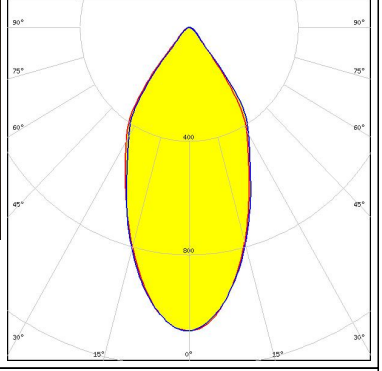

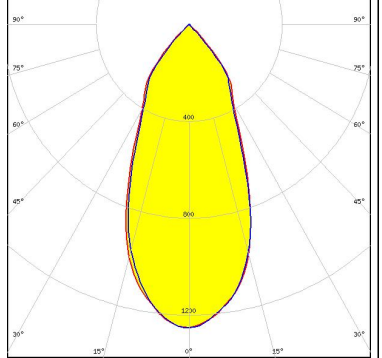
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM 52.0° / 84.0°
Efficiency 82 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12479_MIRELLA-DL




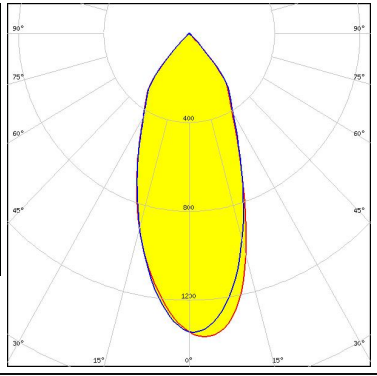

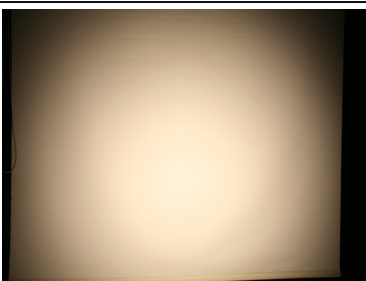
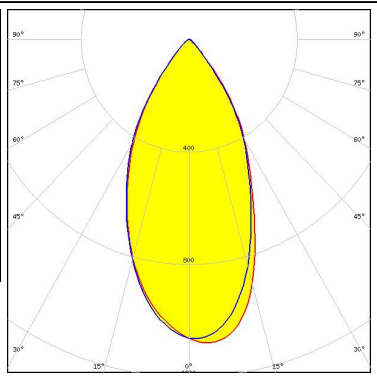
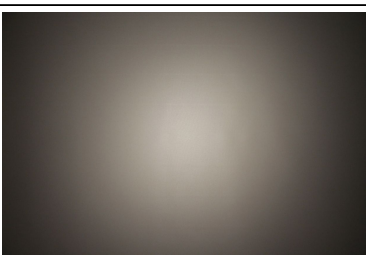
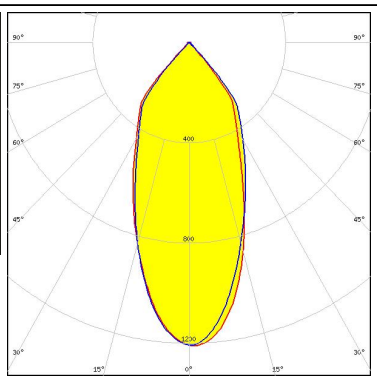
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM 52.0° / 88.0°
Efficiency 87 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



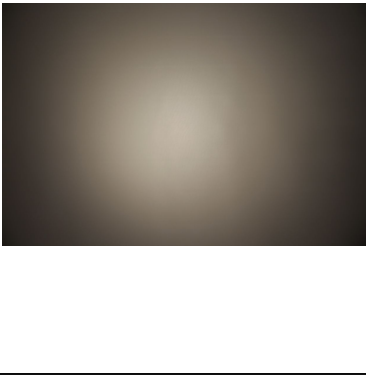
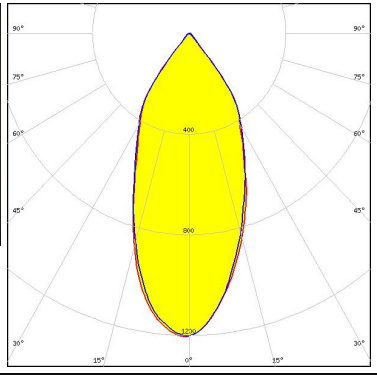
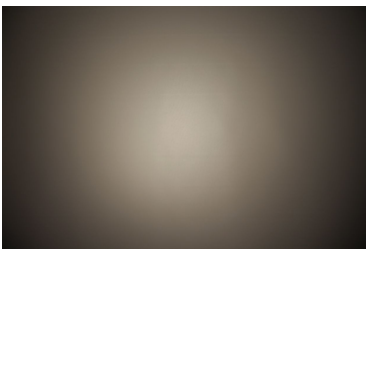
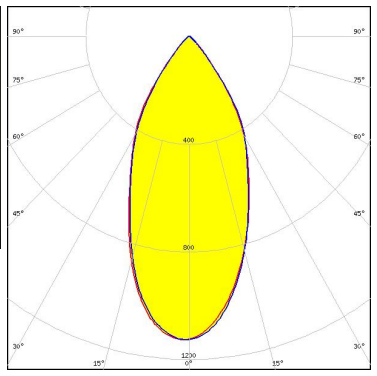
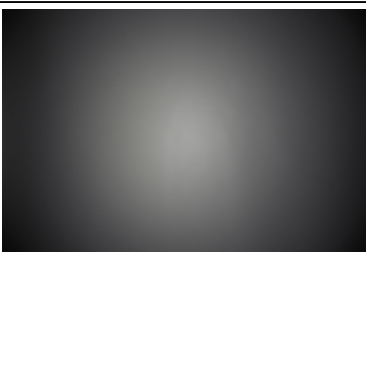
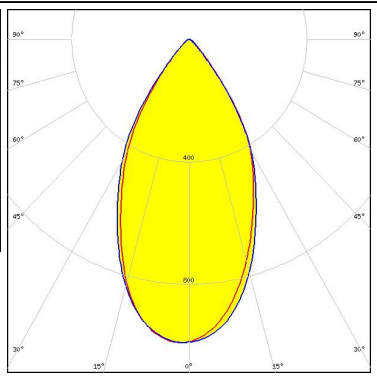
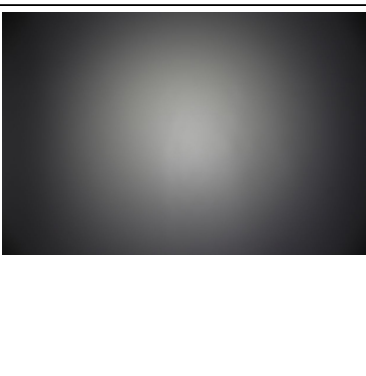
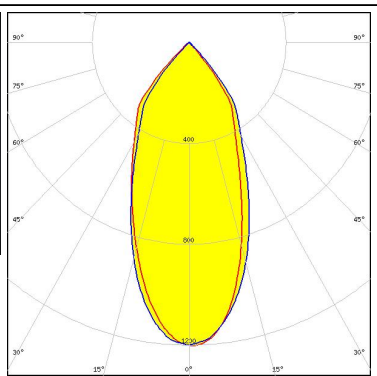
OPTICAL RESULTS (MEASURED):

<p>CREE LEDs</p> <p>LED MHD-E/G FWHM / FWTM 52.0° / 87.0° Efficiency 87 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		
<p>CREE LEDs</p> <p>LED MHD-E/G FWHM / FWTM 46.0° / 88.0° Efficiency 92 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>CREE LEDs</p> <p>LED MHD-E/G FWHM / FWTM 50.0° / 83.0° Efficiency 87 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p>		
<p>CREE LEDs</p> <p>LED MT-G FWHM / FWTM 46.0° / 86.0° Efficiency 90 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

OPTICAL RESULTS (MEASURED):

<p>CREE LEDs</p> <p>LED MT-G2 FWHM / FWTM 46.0° / 86.0° Efficiency 91 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>CREE LEDs</p> <p>LED MT-G2 FWHM / FWTM 50.0° / 82.0° Efficiency 84 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p>		
<p>CREE LEDs</p> <p>LED MT-G2 FWHM / FWTM 52.0° / 87.0° Efficiency 83 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		
<p>CREE LEDs</p> <p>LED XHP50 FWHM / FWTM 45.0° / 87.0° Efficiency 89 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

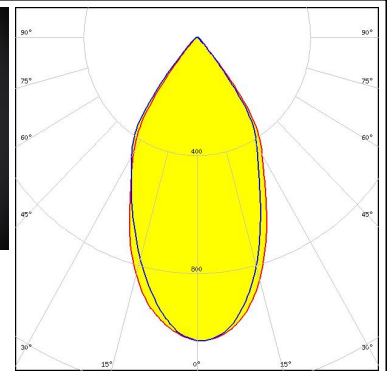
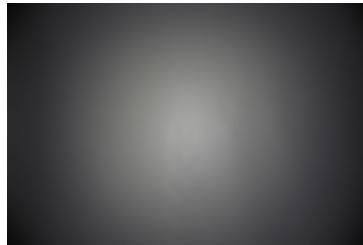
OPTICAL RESULTS (MEASURED):

<p>CREE LEDs</p> <p>LED XHP50 FWHM / FWTM 45.0° / 80.0° Efficiency 84 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p>		
<p>CREE LEDs</p> <p>LED XHP50 FWHM / FWTM 48.0° / 82.0° Efficiency 85 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		
<p>CREE LEDs</p> <p>LED XHP70 FWHM / FWTM 54.0° / 85.0° Efficiency 84 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		
<p>CREE LEDs</p> <p>LED XHP70 FWHM / FWTM 45.0° / 87.0° Efficiency 89 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

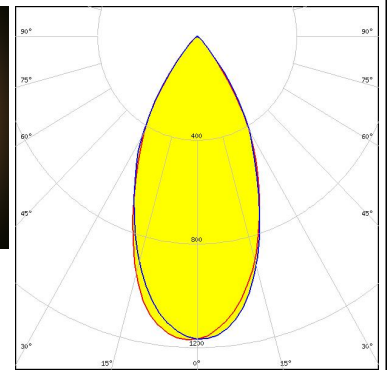
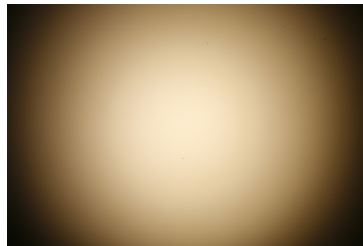
OPTICAL RESULTS (MEASURED):



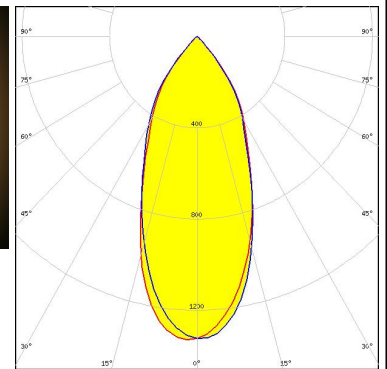
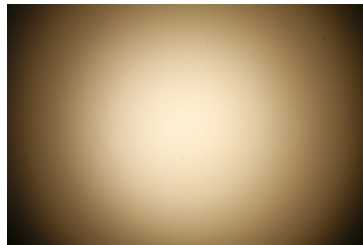
LED XHP70
 FWHM / FWTM 53.0° / 83.0°
 Efficiency 84 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



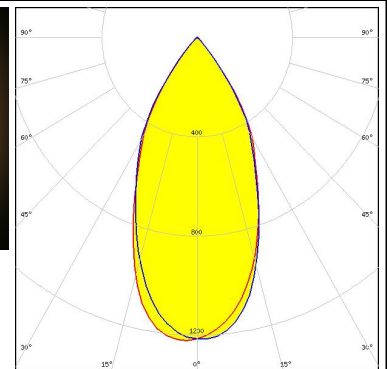
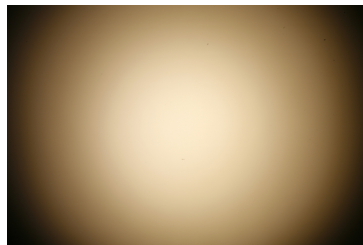
LED LUXEON CoB 1202/1203
 FWHM / FWTM 50.0° / 81.0°
 Efficiency 84 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



LED LUXEON CoB 1202/1203
 FWHM / FWTM 44.0° / 84.0°
 Efficiency 87 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED LUXEON CoB 1202/1203
 FWHM / FWTM 49.0° / 80.0°
 Efficiency 84 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



OPTICAL RESULTS (MEASURED):

LUMILEDS

LED LUXEON S1000
FWHM / FWTM 34.0° / 75.0°
Efficiency 84 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13333_MIRELLA-CL



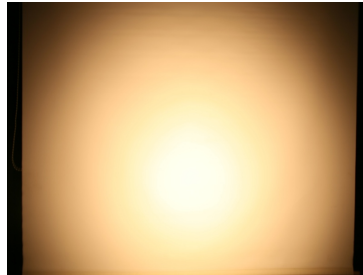
LUMILEDS

LED LUXEON S1000
FWHM / FWTM 34.0° / 79.0°
Efficiency %
LEDs/each optic 1
Light colour White
Required components:



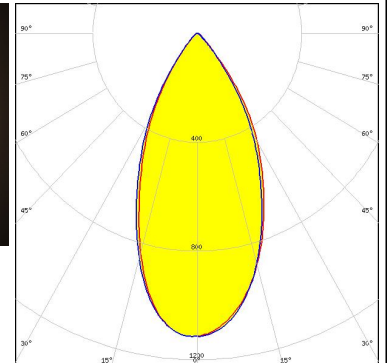
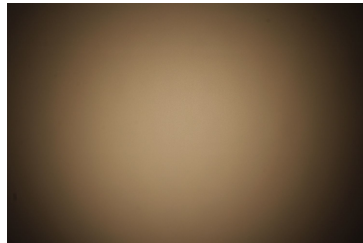
LUMILEDS

LED LUXEON S1000
FWHM / FWTM 41.0° / 79.0°
Efficiency %
LEDs/each optic 1
Light colour White
Required components:
C12479_MIRELLA-DL


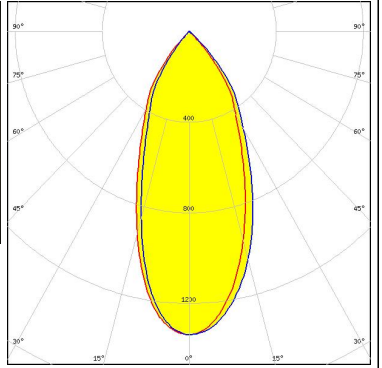
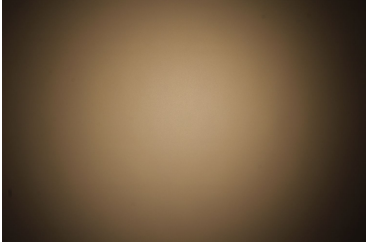
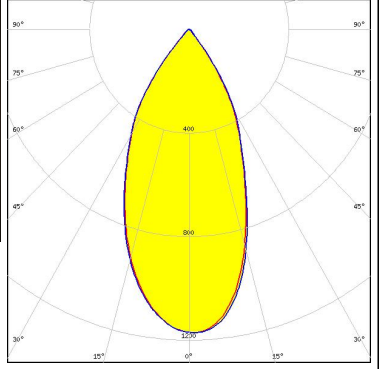
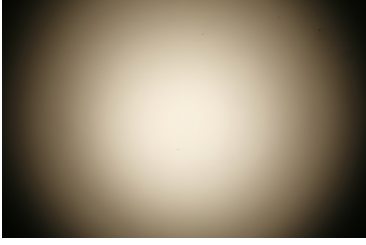
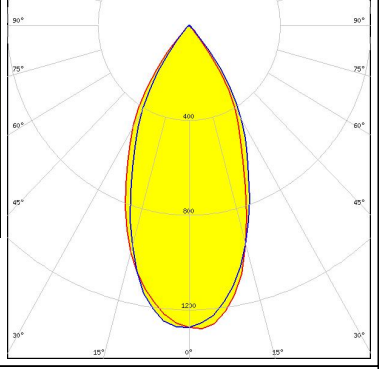
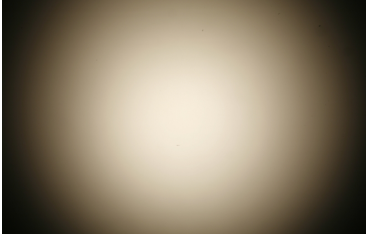
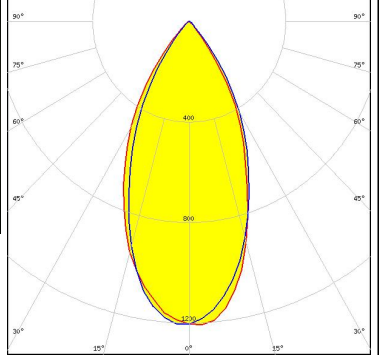


LUMINUS


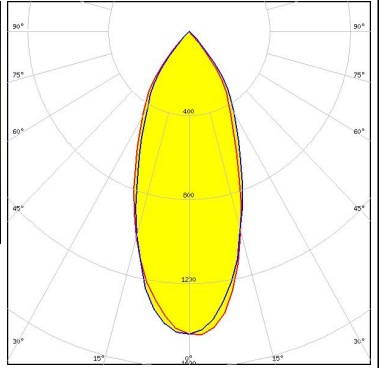

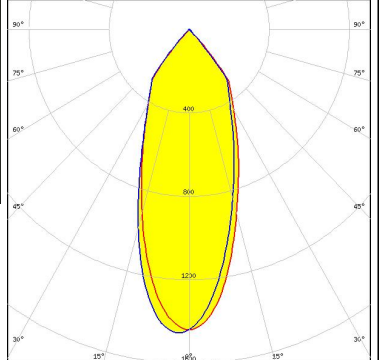

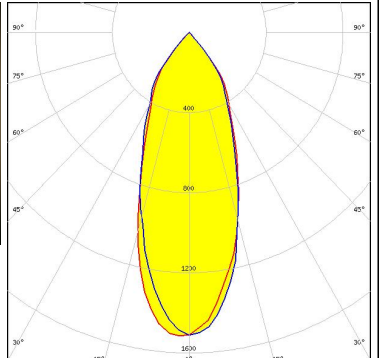
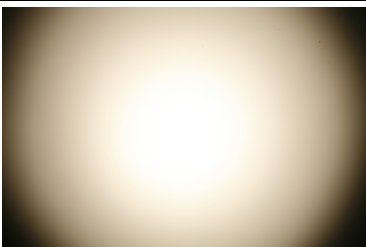
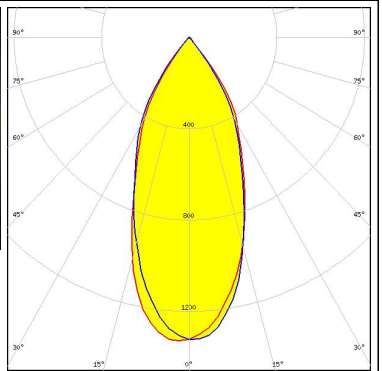
LED CxM-9 (13.5x13.5)
FWHM / FWTM 49.0° / 81.0°
Efficiency 83 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12479_MIRELLA-DL




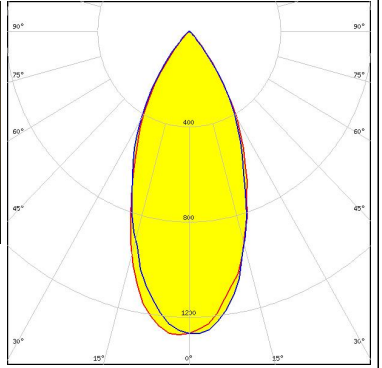
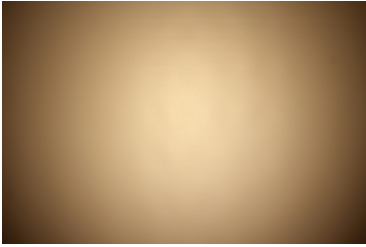
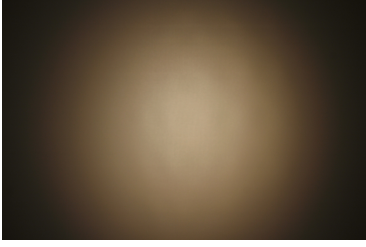
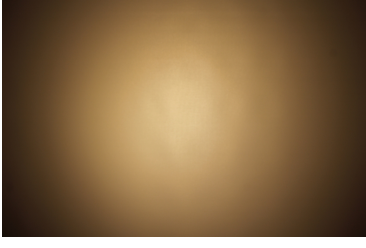
OPTICAL RESULTS (MEASURED):

<p>LUMINUS</p> <p>LED CxM-9 (13.5x13.5) FWHM / FWTM 43.0° / 83.0° Efficiency 89 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>LUMINUS</p> <p>LED CxM-9 (13.5x13.5) FWHM / FWTM 48.0° / 79.0° Efficiency 83 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p>		
<p>NICHIA</p> <p>LED COB L-Type (LES 9) FWHM / FWTM 47.0° / 79.0° Efficiency 85 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p>		
<p>NICHIA</p> <p>LED COB L-Type (LES 9) FWHM / FWTM 48.0° / 80.0° Efficiency 83 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		

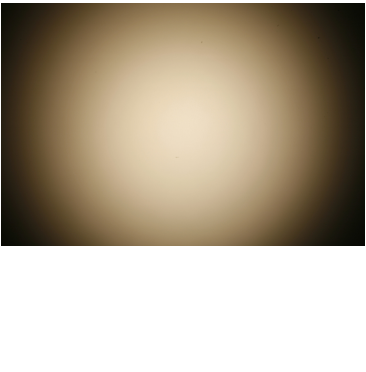
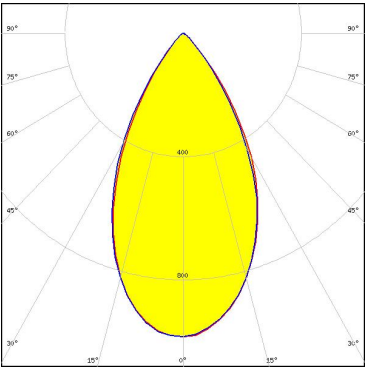
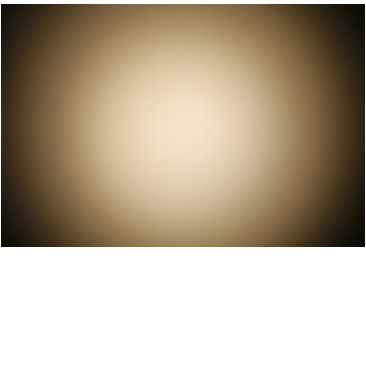
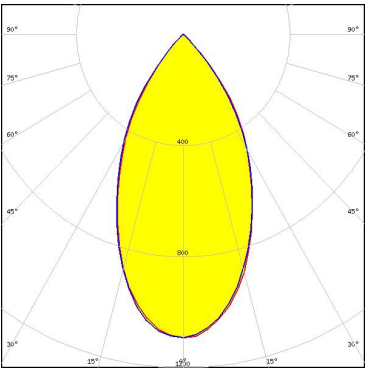
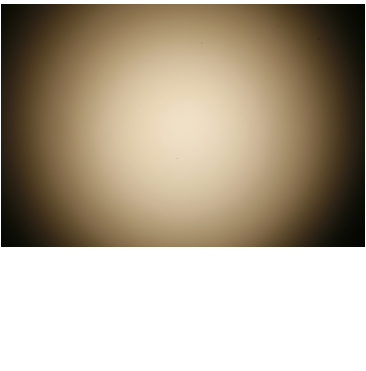
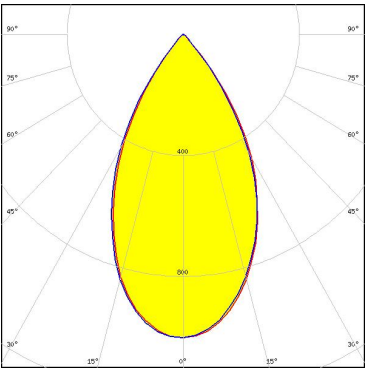

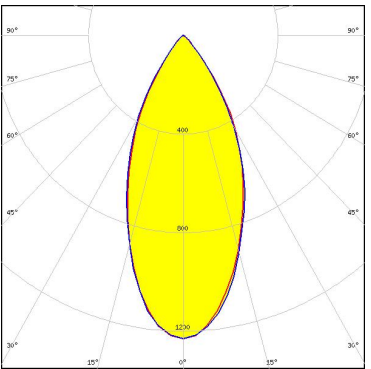
OPTICAL RESULTS (MEASURED):

<p>NICHIA</p> <p>LED COB L-Type (LES 9)</p> <p>FWHM / FWTM 42.0° / 82.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 1.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>NICHIA</p> <p>LED NFMW48xA</p> <p>FWHM / FWTM 38.0° / 83.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 1.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>NICHIA</p> <p>LED NSCxL036A</p> <p>FWHM / FWTM 40.0° / 82.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 1.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>NICHIA</p> <p>LED NSCxL036A</p> <p>FWHM / FWTM 44.0° / 78.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 1.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13333_MIRELLA-CL</p>		

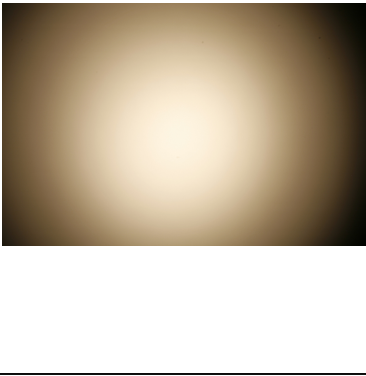
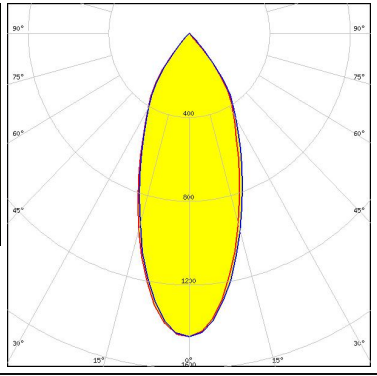

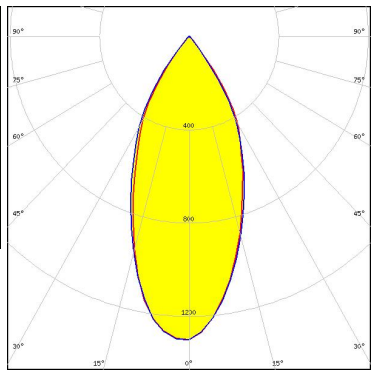

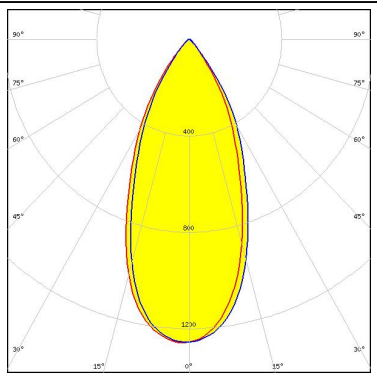

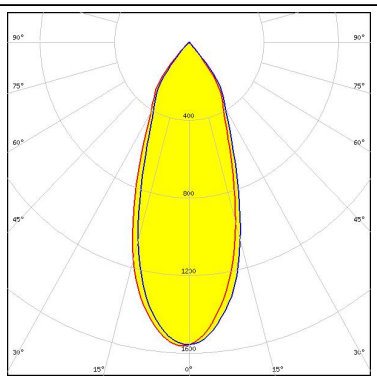
OPTICAL RESULTS (MEASURED):

<p>NICHIA</p> <p>LED NSCxL036A FWHM / FWTM 46.0° / 80.0° Efficiency 83 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED Duris S10 FWHM / FWTM 49.0° / 86.0° Efficiency 79 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED Duris S10 FWHM / FWTM 40.0° / 84.0° Efficiency 87 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED Duris S10 FWHM / FWTM 45.0° / 79.0° Efficiency 82 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p>		

OPTICAL RESULTS (MEASURED):

<p>OSRAM Opto Semiconductors</p> <p>LED Soleriq S13</p> <p>FWHM / FWTM 57.0° / 85.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 1 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 Soleriq S13</p> <p>FWHM / FWTM 55.0° / 86.0°</p> <p>Efficiency 85 %</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 57.0° / 83.0°</p> <p>Efficiency 80 %</p> <p>Peak intensity 1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13333_MIRELLA-CL</p>		
<p>SEOUL SEMICONDUCTOR</p> <p>LED ZC4/6</p> <p>FWHM / FWTM 48.0° / 80.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 1.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C12479_MIRELLA-DL</p>		

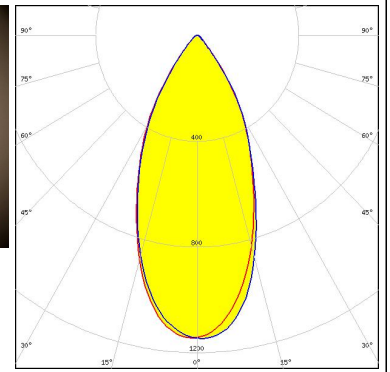
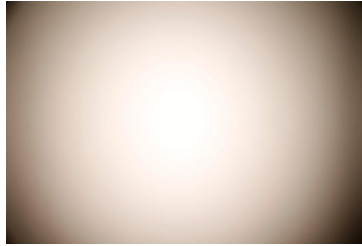
OPTICAL RESULTS (MEASURED):

<p>SEOUL SEMICONDUCTOR</p> <p>LED ZC4/6 FWHM / FWTM 42.0° / 82.0° Efficiency 86 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>SEOUL SEMICONDUCTOR</p> <p>LED ZC4/6 FWHM / FWTM 46.0° / 78.0° Efficiency 80 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p>		
<p>SHARP</p> <p>LED Mini Zenigata (GW5BM) FWHM / FWTM 45.0° / 78.0° Efficiency 84 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		
<p>SHARP</p> <p>LED Mini Zenigata (GW5BM) FWHM / FWTM 39.0° / 80.0° Efficiency 89 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

OPTICAL RESULTS (MEASURED):

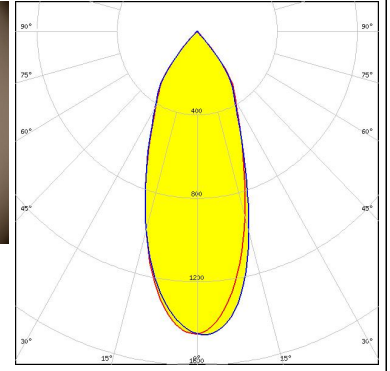
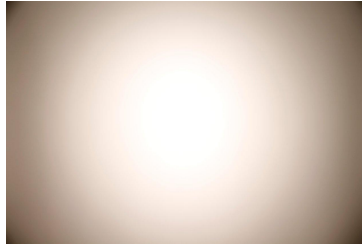
SHARP

LED Mini Zenigata (GW6BM)
FWHM / FWTM 45.0° / 80.0°
Efficiency 81 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12479_MIRELLA-DL



SHARP

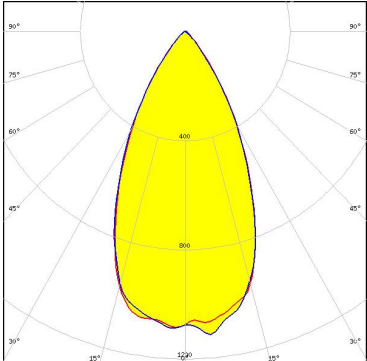
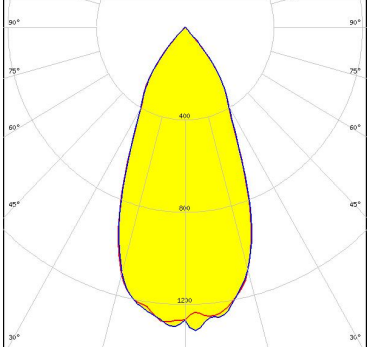
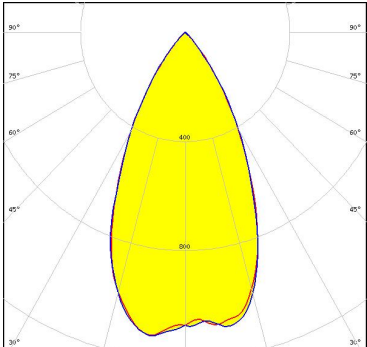
LED Mini Zenigata (GW6BM)
FWHM / FWTM 38.0° / 81.0°
Efficiency 88 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (SIMULATED):

<p>bridgelux</p> <p>LED: Vero SE 10 FWHM / FWTM: 32.0° / 72.0° Efficiency: 91 % Peak intensity: 2 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>LUMILEDS</p> <p>LED: LUXEON 7070 FWHM / FWTM: 46.0° / 83.0 + 82.0° Efficiency: 96 % Peak intensity: 1.4 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: 45.0° / 84.0° Efficiency: 91 % Peak intensity: 1.4 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: 50.0° / 78.0° Efficiency: 87 % Peak intensity: 1.2 cd/lm LEDs/each optic: 1 Light colour: White Required components: C13333_MIRELLA-CL</p>	

OPTICAL RESULTS (SIMULATED):

<p>OSRAM Opto Semiconductors</p> <p>LED: Soleriq S9</p> <p>FWHM / FWTM: 51.0° / 81.0°</p> <p>Efficiency: 85 %</p> <p>Peak intensity: 1.1 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components: C13723_MIRELLA-RZL</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED: Soleriq S9</p> <p>FWHM / FWTM: 47.0° / 83.0°</p> <p>Efficiency: 91 %</p> <p>Peak intensity: 1.3 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED: Soleriq S9</p> <p>FWHM / FWTM: 51.0° / 80.0°</p> <p>Efficiency: 85 %</p> <p>Peak intensity: 1.1 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components: C12479_MIRELLA-DL</p>	

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.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

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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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

[www.ledil.com/
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