

MIRELLA-50-S

~15° spot beam

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 49.9 mm
Height	24 mm
Fastening	glue
ROHS compliant	yes ⓘ

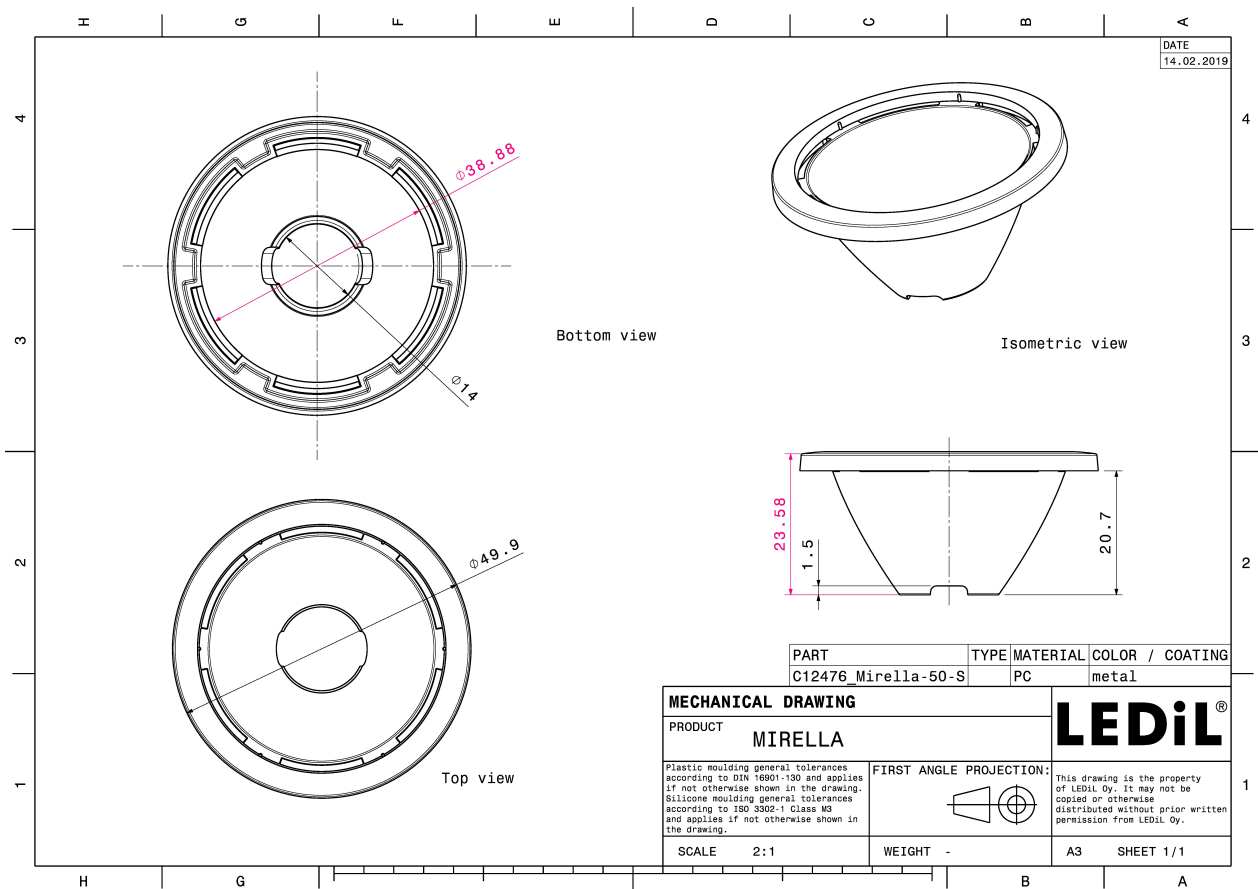
MATERIAL SPECIFICATIONS:

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



ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C12476_MIRELLA-50-S » Box size: 480 x 280 x 300 mm	336	112	28	3.0

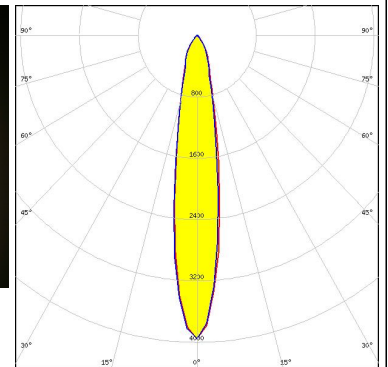


See also our general installation guide: www.ledil.com/installation_guide

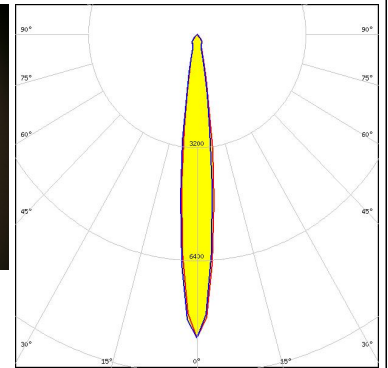
PHOTOMETRIC DATA (MEASURED):



LED BXRA LS
FWHM / FWTM 18.0° / 48.0°
Efficiency 83 %
Peak intensity 4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12479_MIRELLA-DL



LED BXRA LS
FWHM / FWTM 13.0° / 27.0°
Efficiency 89 %
Peak intensity 8.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:

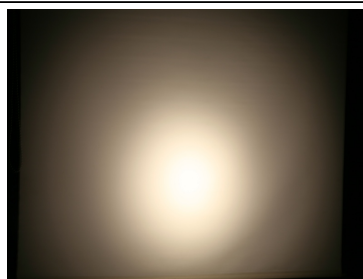


LED BXRA LS
FWHM / FWTM 14.0° / 28.0°
Efficiency 84 %
Peak intensity 6.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13333_MIRELLA-CL



CITIZEN

LED CLL01x
FWHM / FWTM 20.0° / 56.0°
Efficiency %
LEDs/each optic 1
Light colour White
Required components:
C12479_MIRELLA-DL



PHOTOMETRIC DATA (MEASURED):

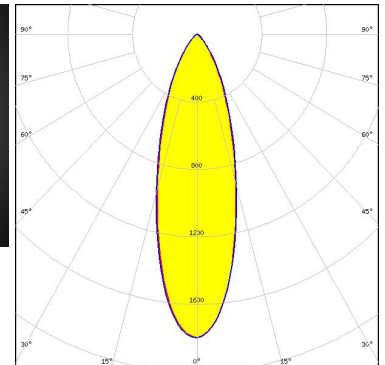
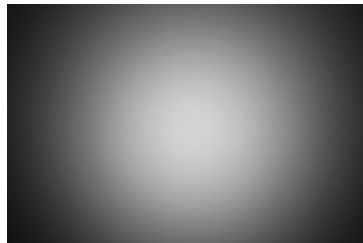
CITIZEN

LED CLL01x
 FWHM / FWTM 17.0° / 32.0°
 Efficiency 84 %
 Peak intensity 5.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM / FWTM 32.0° / 70.0°
 Efficiency 81 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13723_MIRELLA-RZL



CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM / FWTM 20.0° / 48.0°
 Efficiency 93 %
 LEDs/each optic 1
 Light colour White
 Required components:



CITIZEN

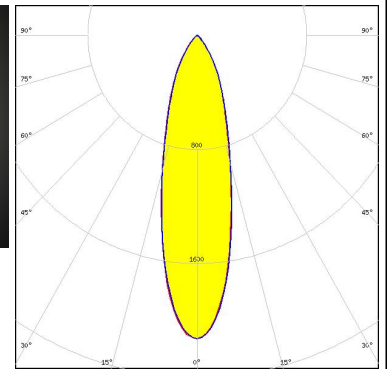
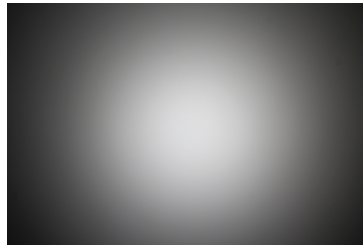
LED CLL02x/CLU02x (LES10)
 FWHM / FWTM 19.0° / 50.0°
 Efficiency 84 %
 Peak intensity 3.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



PHOTOMETRIC DATA (MEASURED):

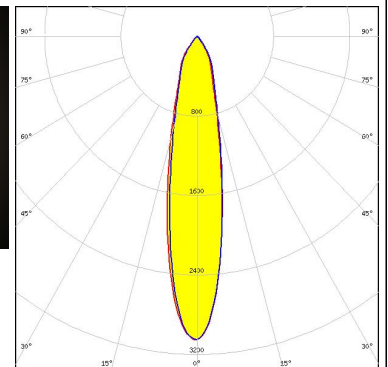
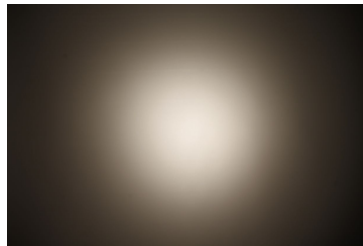
CITIZEN

LED CLL02x/CLU02x (LES10)
FWHM / FWTM 28.0° / 67.0°
Efficiency 82 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12479_MIRELLA-DL



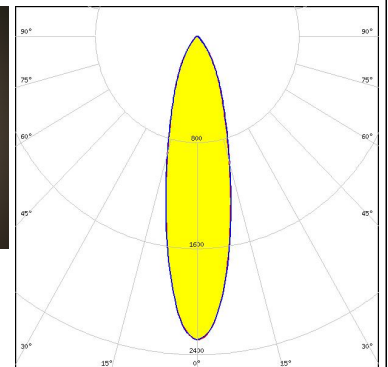
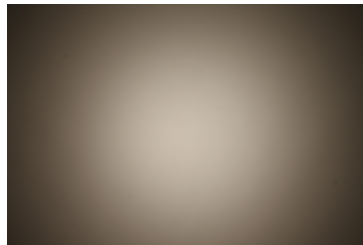
CITIZEN

LED CLU700/701/702
FWHM / FWTM 21.0° / 59.0°
Efficiency 84 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12479_MIRELLA-DL



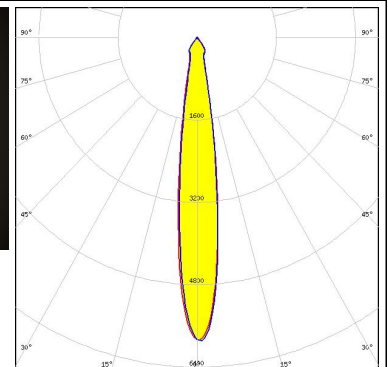
CITIZEN

LED CLU700/701/702
FWHM / FWTM 26.0° / 64.0°
Efficiency 83 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13723_MIRELLA-RZL



CITIZEN

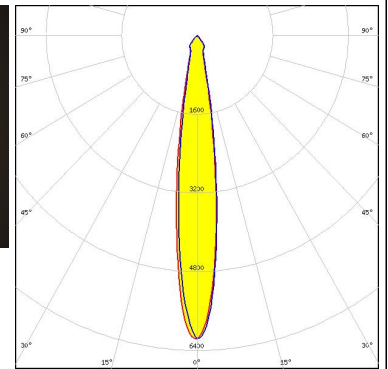
LED CLU700/701/702
FWHM / FWTM 15.0° / 32.0°
Efficiency 85 %
Peak intensity 5.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13333_MIRELLA-CL



PHOTOMETRIC DATA (MEASURED):

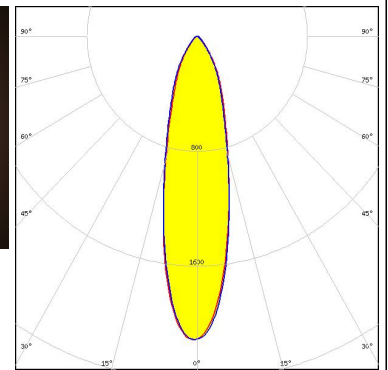
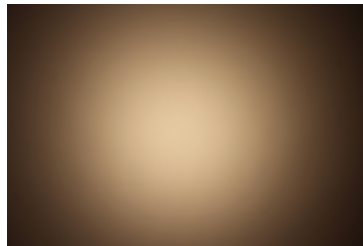
CITIZEN

LED CLU700/701/702
 FWHM / FWTM 15.0° / 32.0°
 Efficiency 90 %
 Peak intensity 6.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



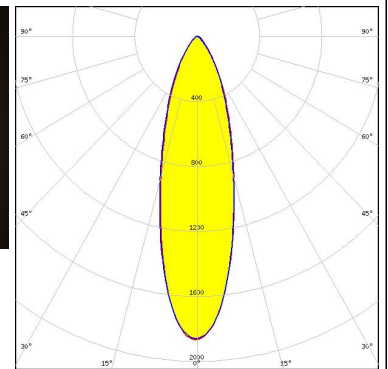
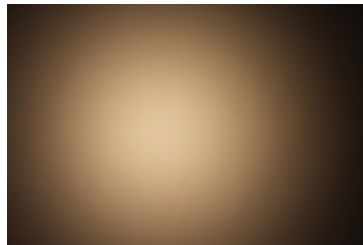
CITIZEN

LED CLU710/711
 FWHM / FWTM 26.0° / 67.0°
 Efficiency 83 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



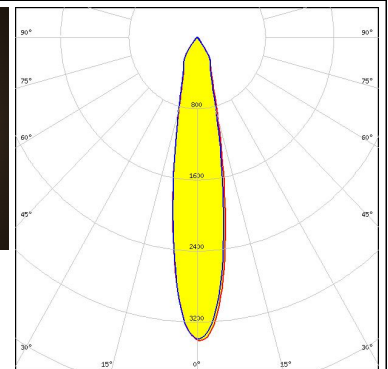
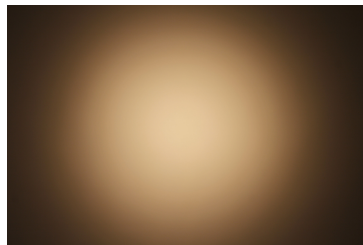
CITIZEN

LED CLU710/711
 FWHM / FWTM 29.0° / 69.0°
 Efficiency 83 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13723_MIRELLA-RZL



CITIZEN

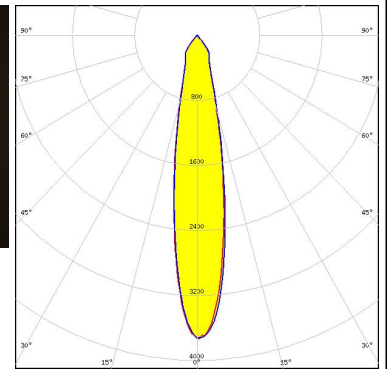
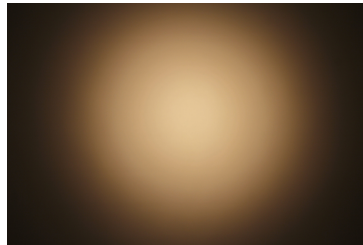
LED CLU710/711
 FWHM / FWTM 20.0° / 54.0°
 Efficiency 85 %
 Peak intensity 3.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



PHOTOMETRIC DATA (MEASURED):

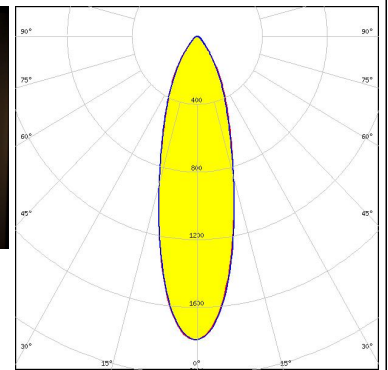
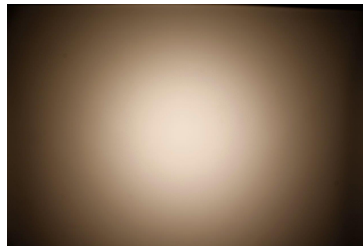
CITIZEN

LED CLU710/711
 FWHM / FWTM 20.0° / 49.0°
 Efficiency 90 %
 Peak intensity 3.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



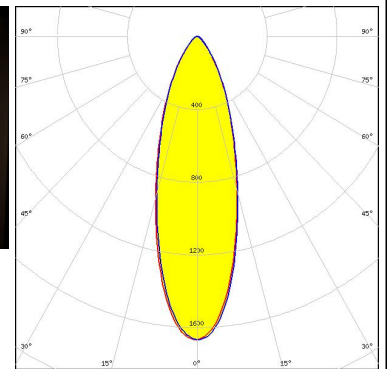
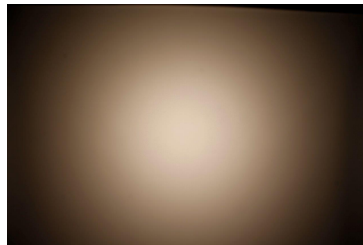
CITIZEN

LED CLU720/721
 FWHM / FWTM 30.0° / 71.0°
 Efficiency 82 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



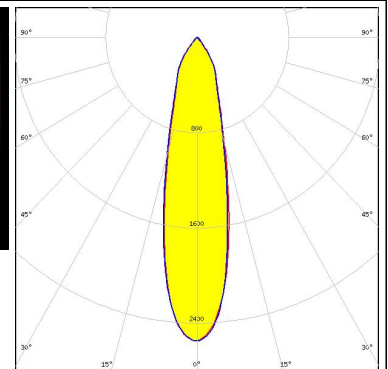
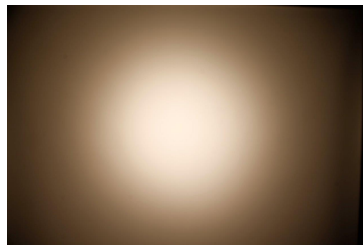
CITIZEN

LED CLU720/721
 FWHM / FWTM 32.0° / 73.0°
 Efficiency 83 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13723_MIRELLA-RZL



CITIZEN

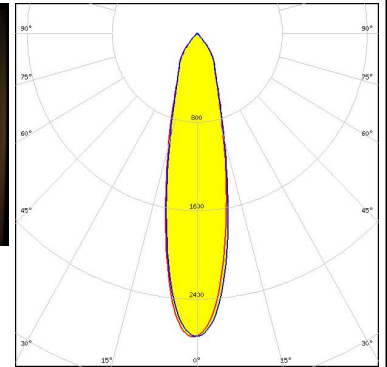
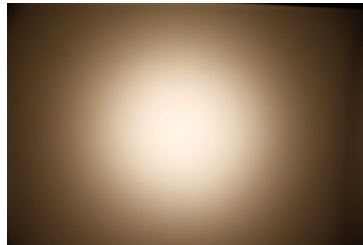
LED CLU720/721
 FWHM / FWTM 25.0° / 66.0°
 Efficiency 85 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



PHOTOMETRIC DATA (MEASURED):

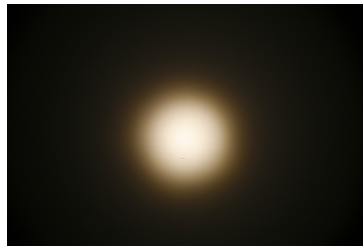
CITIZEN

LED CLU720/721
 FWHM / FWTM 24.0° / 68.0°
 Efficiency 90 %
 Peak intensity 2.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



CREE LED

LED CXA/B 13xx
 FWHM / FWTM 12.0° / 25.0°
 Efficiency 87 %
 Peak intensity 9.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



CREE LED

LED CXA/B 13xx
 FWHM / FWTM 12.0° / 25.0°
 Efficiency 82 %
 Peak intensity 8.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



CREE LED

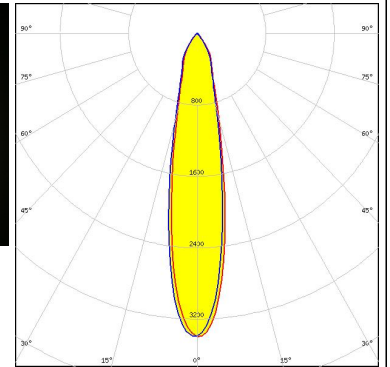
LED CXA/B 13xx
 FWHM / FWTM 15.0° / 36.0°
 Efficiency 81 %
 Peak intensity 5.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



PHOTOMETRIC DATA (MEASURED):

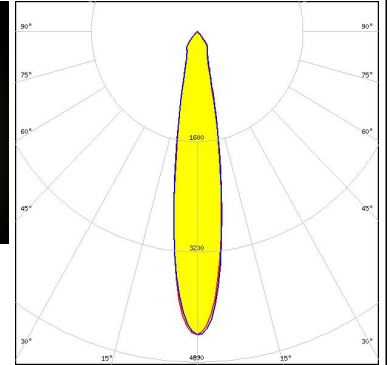
CREE LED

LED CXA/B 15xx
FWHM / FWTM 20.0° / 60.0°
Efficiency 90 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12479_MIRELLA-DL



CREE LED

LED CXA/B 15xx
FWHM / FWTM 16.0° / 38.0°
Efficiency 93 %
Peak intensity 5.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



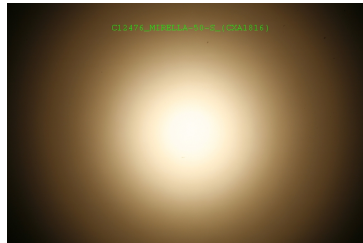
CREE LED

LED CXA/B 15xx
FWHM / FWTM 19.0° / 47.0°
Efficiency 84 %
Peak intensity 4.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13333_MIRELLA-CL



CREE LED

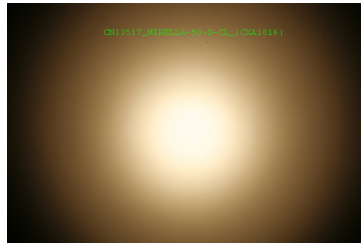
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM 23.0° / 68.0°
Efficiency 89 %
Peak intensity 3.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



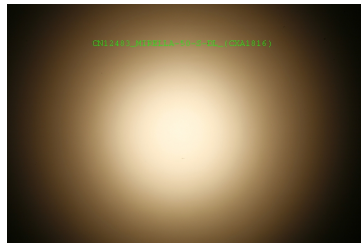
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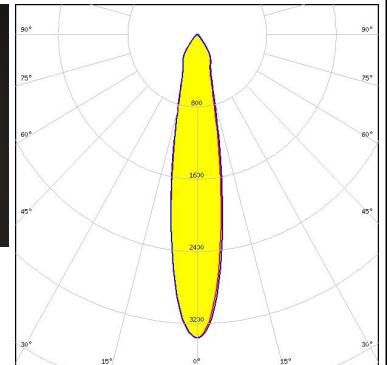
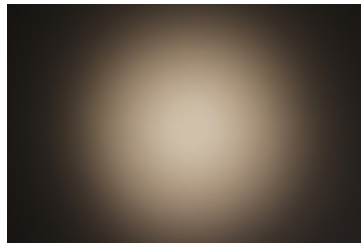
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM / FWTM 25.0° / 68.0°
 Efficiency 83 %
 Peak intensity 2.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



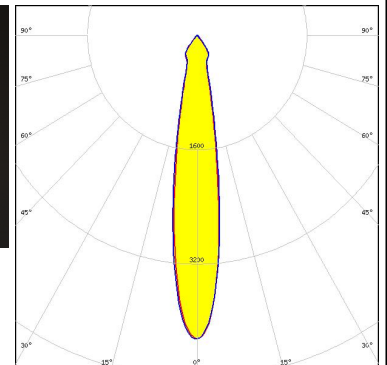
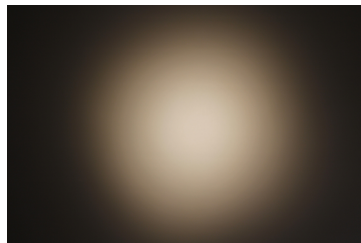
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM / FWTM 26.0° / 68.0°
 Efficiency 83 %
 Peak intensity 2.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



LED MHD-E/G
 FWHM / FWTM 20.0° / 57.0°
 Efficiency 88 %
 Peak intensity 3.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



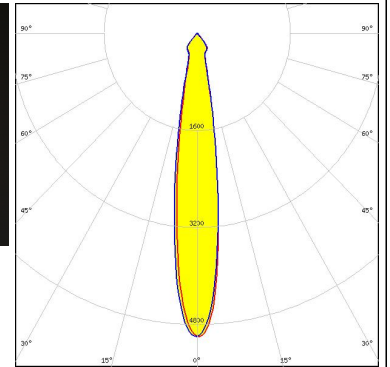
LED MHD-E/G
 FWHM / FWTM 18.0° / 40.0°
 Efficiency 89 %
 Peak intensity 4.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



PHOTOMETRIC DATA (MEASURED):

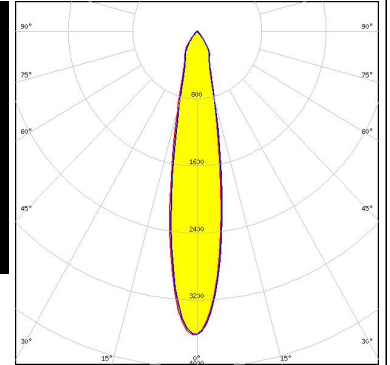
CREE LED

LED MHD-E/G
FWHM / FWTM 16.0° / 35.0°
Efficiency 94 %
Peak intensity 5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



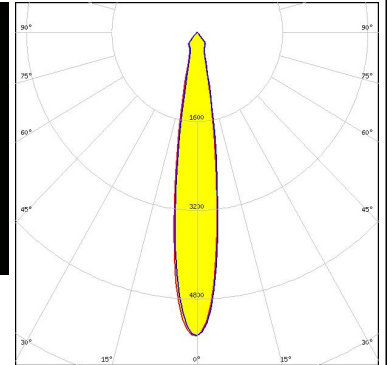
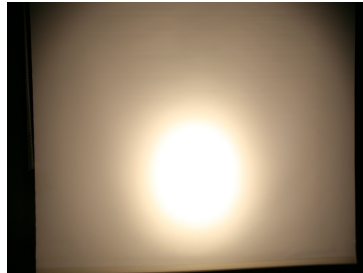
CREE LED

LED MT-G2
FWHM / FWTM 20.0° / 50.0°
Efficiency 85 %
Peak intensity 3.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12479_MIRELLA-DL



CREE LED

LED MT-G2
FWHM / FWTM 17.0° / 35.0°
Efficiency 92 %
Peak intensity 5.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



CREE LED

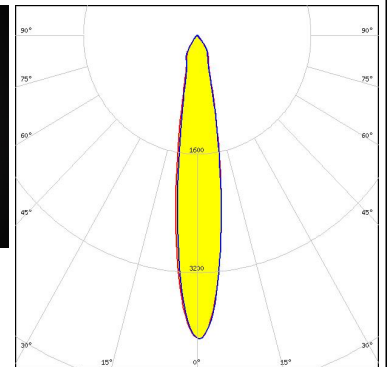
LED MT-G2
FWHM / FWTM 18.0° / 37.0°
Efficiency 85 %
Peak intensity 4.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13333_MIRELLA-CL



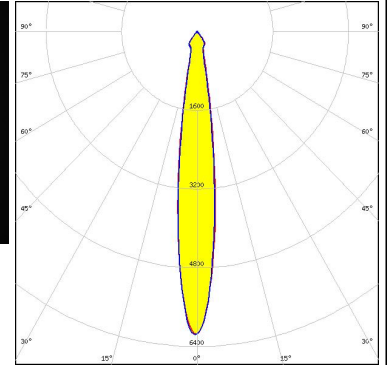
PHOTOMETRIC DATA (MEASURED):



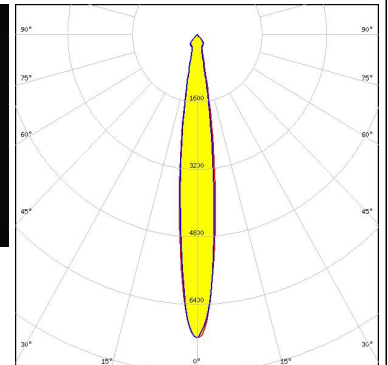
LED XHP50
FWHM / FWTM 17.0° / 44.0°
Efficiency 85 %
Peak intensity 4.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12479_MIRELLA-DL



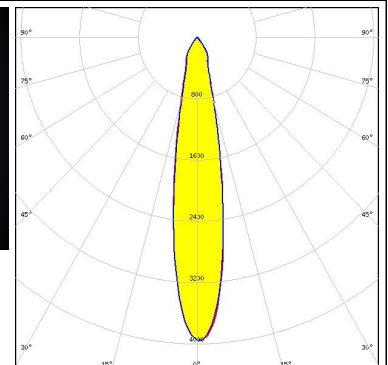
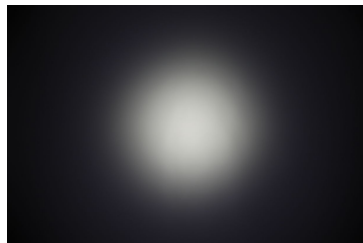
LED XHP50
FWHM / FWTM 14.0° / 30.0°
Efficiency 86 %
Peak intensity 6.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13333_MIRELLA-CL



LED XHP50
FWHM / FWTM 14.0° / 28.0°
Efficiency 92 %
Peak intensity 7.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



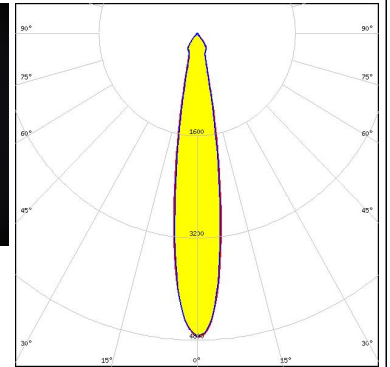
LED XHP70
FWHM / FWTM 19.0° / 44.0°
Efficiency 86 %
Peak intensity 4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12479_MIRELLA-DL



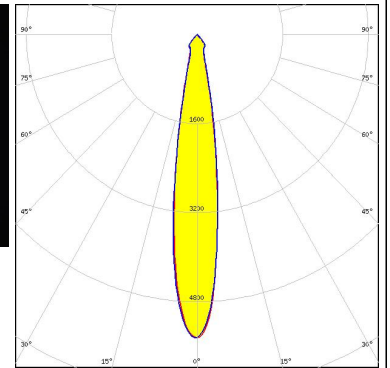
PHOTOMETRIC DATA (MEASURED):



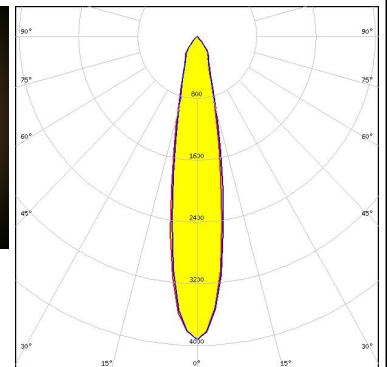
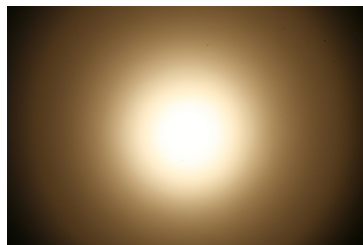
LED XHP70
FWHM / FWTM 18.0° / 36.0°
Efficiency 86 %
Peak intensity 4.8 cd/m
LEDs/each optic 1
Light colour White
Required components:
C13333_MIRELLA-CL



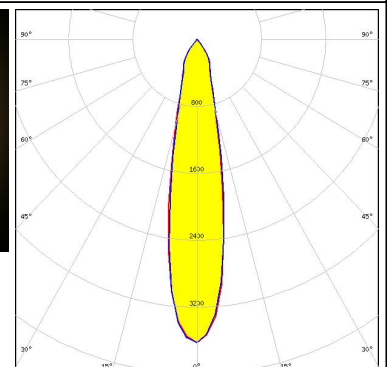
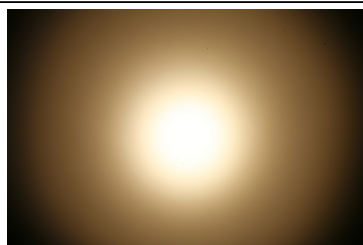
LED XHP70
FWHM / FWTM 17.0° / 34.0°
Efficiency 90 %
Peak intensity 5.5 cd/m
LEDs/each optic 1
Light colour White
Required components:



LED LUXEON CoB 1202/1203
FWHM / FWTM 20.0° / 49.0°
Efficiency 89 %
Peak intensity 3.9 cd/m
LEDs/each optic 1
Light colour White
Required components:



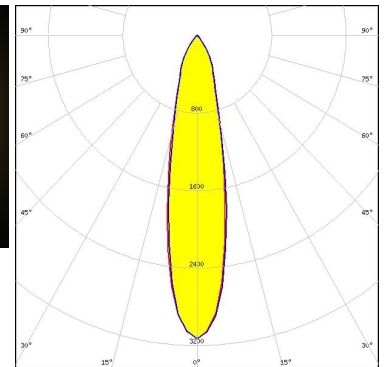
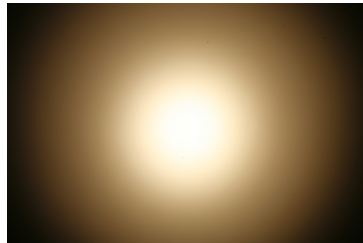
LED LUXEON CoB 1202/1203
FWHM / FWTM 21.0° / 52.0°
Efficiency 86 %
Peak intensity 3.6 cd/m
LEDs/each optic 1
Light colour White
Required components:
C13333_MIRELLA-CL



PHOTOMETRIC DATA (MEASURED):

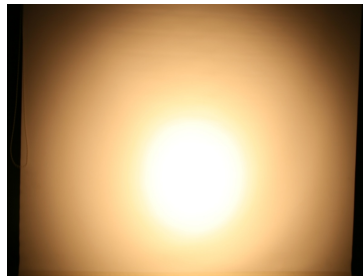
LUMILEDS

LED LUXEON CoB 1202/1203
FWHM / FWTM 23.0° / 60.0°
Efficiency 85 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12479_MIRELLA-DL



LUMILEDS

LED LUXEON S1000
FWHM / FWTM 21.0° / 60.0°
Efficiency %
LEDs/each optic 1
Light colour White
Required components:
C12479_MIRELLA-DL



LUMILEDS

LED LUXEON S1000
FWHM / FWTM 14.0° / 37.0°
Efficiency 84 %
Peak intensity 5.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13333_MIRELLA-CL



LUMILEDS

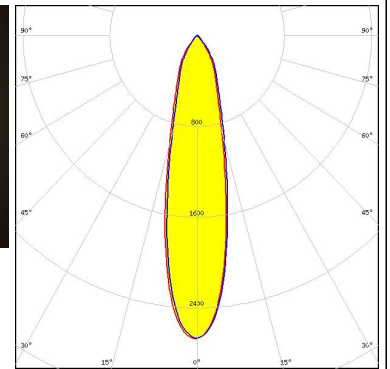
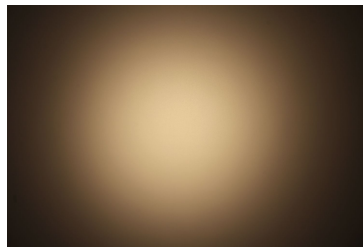
LED LUXEON S1000
FWHM / FWTM 17.0° / 38.0°
Efficiency %
LEDs/each optic 1
Light colour White
Required components:



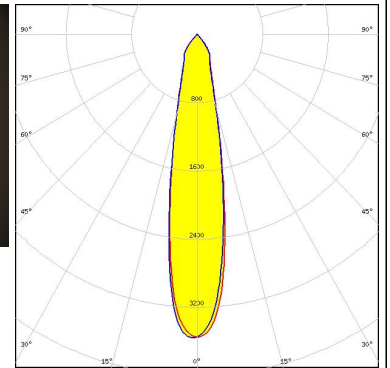
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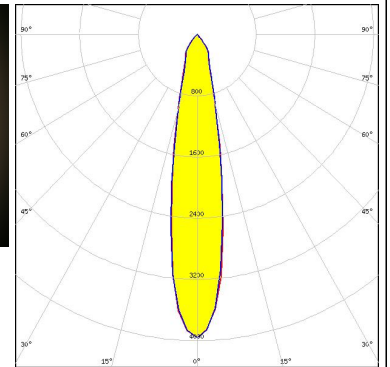
LED CxM-9 (13.5x13.5)
 FWHM / FWTM 24.0° / 63.0°
 Efficiency 84 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



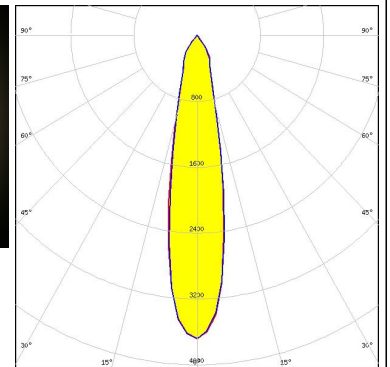
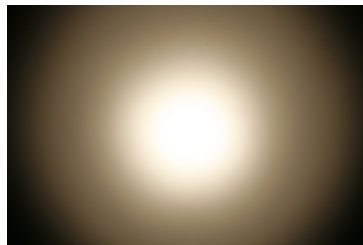
LED CxM-9 (13.5x13.5)
 FWHM / FWTM 21.0° / 53.0°
 Efficiency 90 %
 Peak intensity 3.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED COB L-Type (LES 9)
 FWHM / FWTM 20.0° / 48.0°
 Efficiency 90 %
 Peak intensity 4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



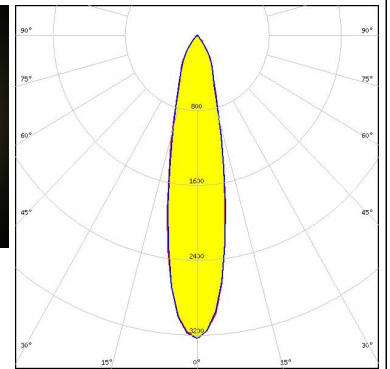
LED COB L-Type (LES 9)
 FWHM / FWTM 22.0° / 53.0°
 Efficiency 87 %
 Peak intensity 3.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



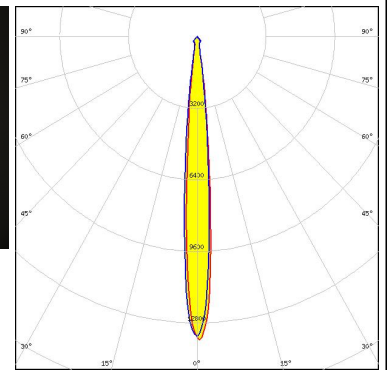
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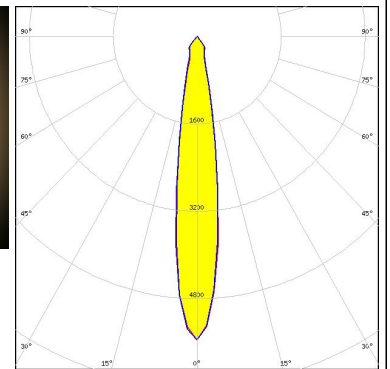
LED COB L-Type (LES 9)
 FWHM / FWTM 23.0° / 59.0°
 Efficiency 86 %
 Peak intensity 3.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



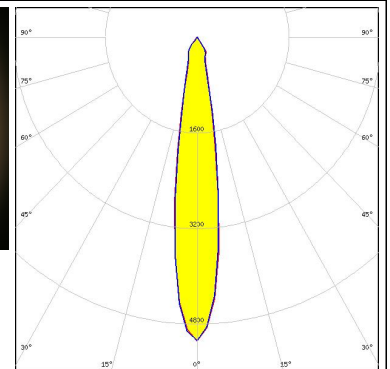
LED NFMW48xA
 FWHM / FWTM 9.5° / 20.0°
 Efficiency 88 %
 Peak intensity 13.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



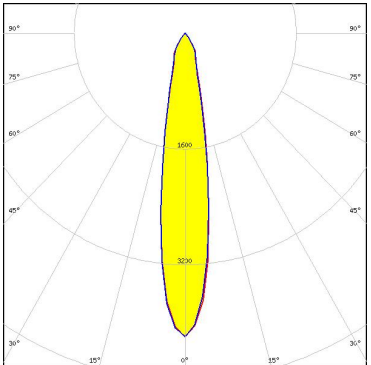
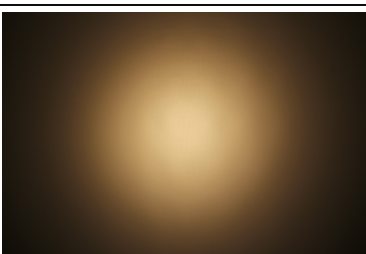


LED NSCxL036A
 FWHM / FWTM 17.0° / 35.0°
 Efficiency 88 %
 Peak intensity 5.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED NSCxL036A
 FWHM / FWTM 17.0° / 37.0°
 Efficiency 84 %
 Peak intensity 5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



PHOTOMETRIC DATA (MEASURED):

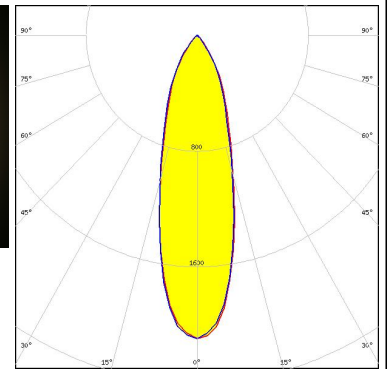
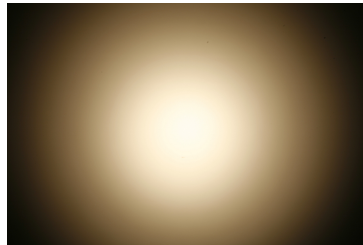
<p>NICHIA</p> <p>LED NSCXL036A</p> <p>FWHM / FWTM 19.0° / 46.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 4.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C12479_MIRELLA-DL</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED Duris S10</p> <p>FWHM / FWTM 20.0° / 57.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 3.4 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 15.0° / 33.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 6.7 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 15.0° / 33.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 6.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

PHOTOMETRIC DATA (MEASURED):

OSRAM

Opto Semiconductors

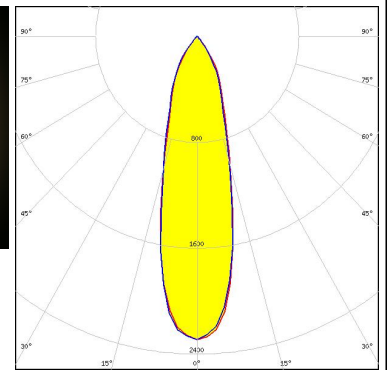
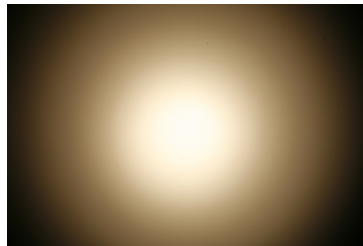
LED Soleriq S13
FWHM / FWTM 30.0° / 70.0°
Efficiency 83 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12479_MIRELLA-DL



OSRAM

Opto Semiconductors

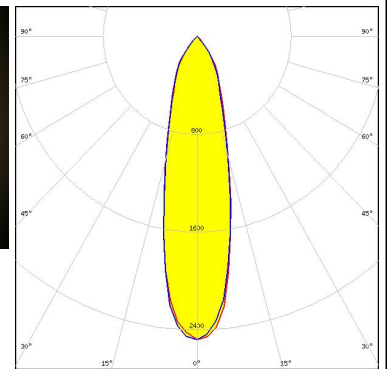
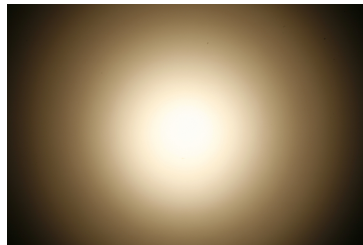
LED Soleriq S13
FWHM / FWTM 28.0° / 69.0°
Efficiency 82 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13333_MIRELLA-CL



OSRAM

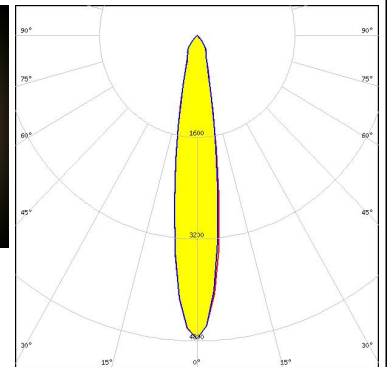
Opto Semiconductors

LED Soleriq S13
FWHM / FWTM 27.0° / 70.0°
Efficiency 87 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:


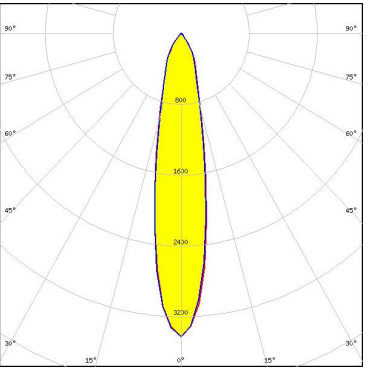

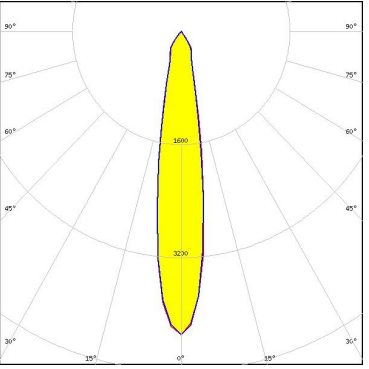

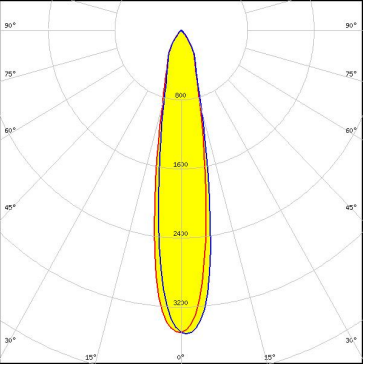

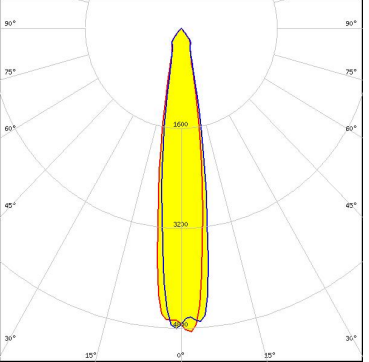


SEOUL SEMICONDUCTOR

LED ZC4/6
FWHM / FWTM 18.0° / 42.0°
Efficiency 88 %
Peak intensity 4.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



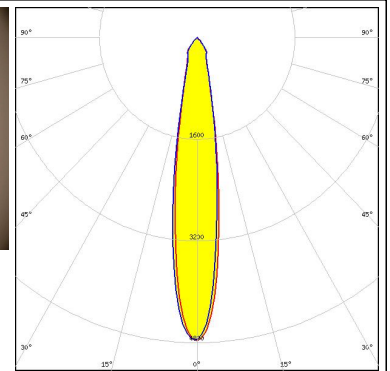
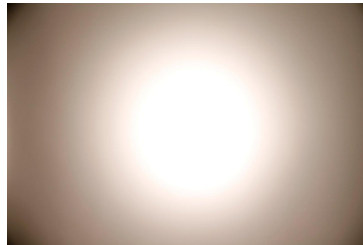
PHOTOMETRIC DATA (MEASURED):

<p>SEOUL SEMICONDUCTOR</p> <p>LED ZC4/6</p> <p>FWHM / FWTM 21.0° / 56.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 3.4 cd/lm</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 19.0° / 44.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 4.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13333_MIRELLA-CL</p>		
<p>SHARP</p> <p>LED Mini Zenigata (GW5BM)</p> <p>FWHM / FWTM 20.0° / 54.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 3.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C12479_MIRELLA-DL</p>		
<p>SHARP</p> <p>LED Mini Zenigata (GW5BM)</p> <p>FWHM / FWTM 17.0° / 39.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 4.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

PHOTOMETRIC DATA (MEASURED):

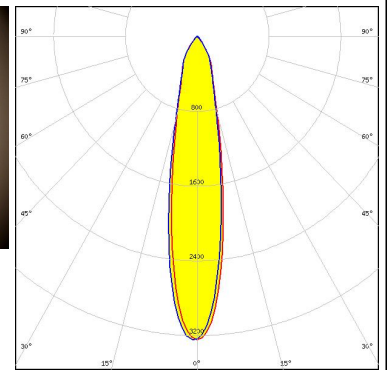
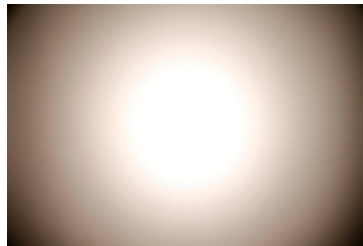
SHARP

LED Mini Zenigata (GW6BM)
FWHM / FWTM 17.0° / 41.0°
Efficiency 91 %
Peak intensity 4.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SHARP

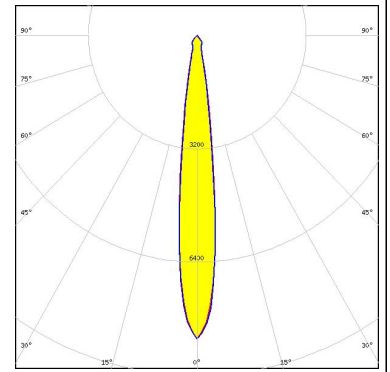
LED Mini Zenigata (GW6BM)
FWHM / FWTM 20.0° / 56.0°
Efficiency 84 %
Peak intensity 3.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12479_MIRELLA-DL



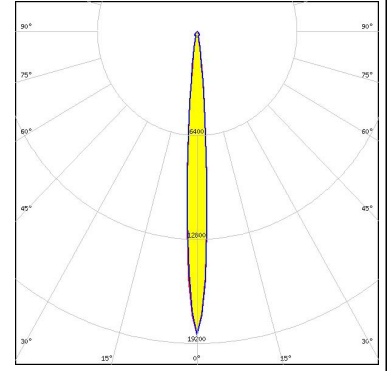
PHOTOMETRIC DATA (SIMULATED):



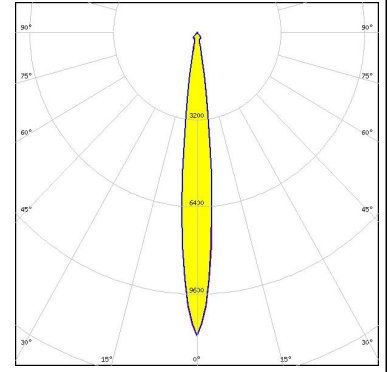
LED LUXEON 7070
FWHM / FWTM 14.0° / 27.0°
Efficiency 96 %
Peak intensity 8.6 cd/Im
LEDs/each optic 1
Light colour White
Required components:



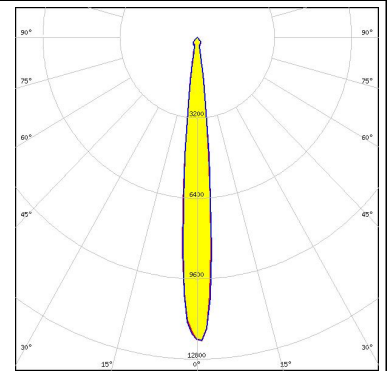
LED LUXEON V
FWHM / FWTM 7.7° / 17.0°
Efficiency 89 %
Peak intensity 18.7 cd/Im
LEDs/each optic 1
Light colour White
Required components:



LED NV4x144A
FWHM / FWTM 12.0° / 22.0°
Efficiency 90 %
Peak intensity 11.1 cd/Im
LEDs/each optic 1
Light colour White
Required components:



LED OSCONIQ P 7070
FWHM / FWTM 11.0° / 21.0°
Efficiency 91 %
Peak intensity 12.2 cd/Im
LEDs/each optic 1
Light colour White
Required components:

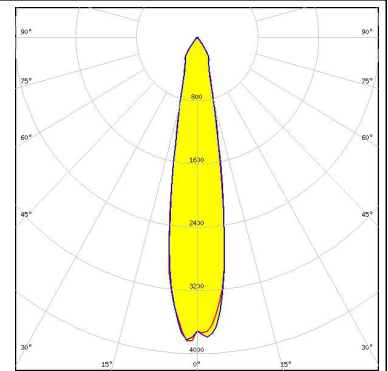


PHOTOMETRIC DATA (SIMULATED):

OSRAM

Opto Semiconductors

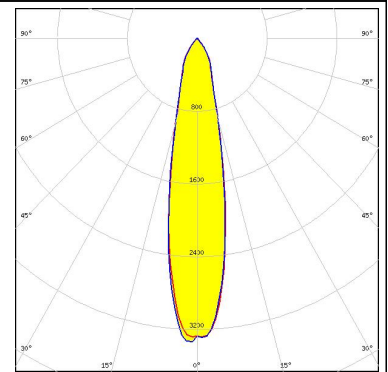
LED Soleriq S9
FWHM / FWTM 20.0° / 48.0°
Efficiency 87 %
Peak intensity 3.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13333_MIRELLA-CL



OSRAM

Opto Semiconductors

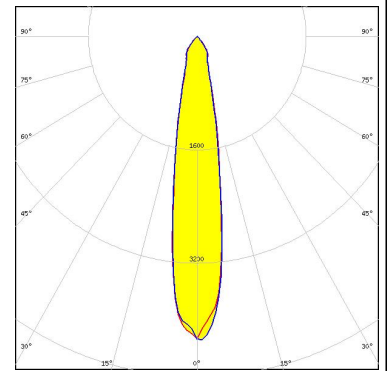
LED Soleriq S9
FWHM / FWTM 21.0° / 55.0°
Efficiency 86 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12479_MIRELLA-DL



OSRAM

Opto Semiconductors

LED Soleriq S9
FWHM / FWTM 19.0° / 44.0°
Efficiency 91 %
Peak intensity 4.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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

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