


MIRELLA-50-S

~15° spot beam

TECHNICAL SPECIFICATIONS:

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

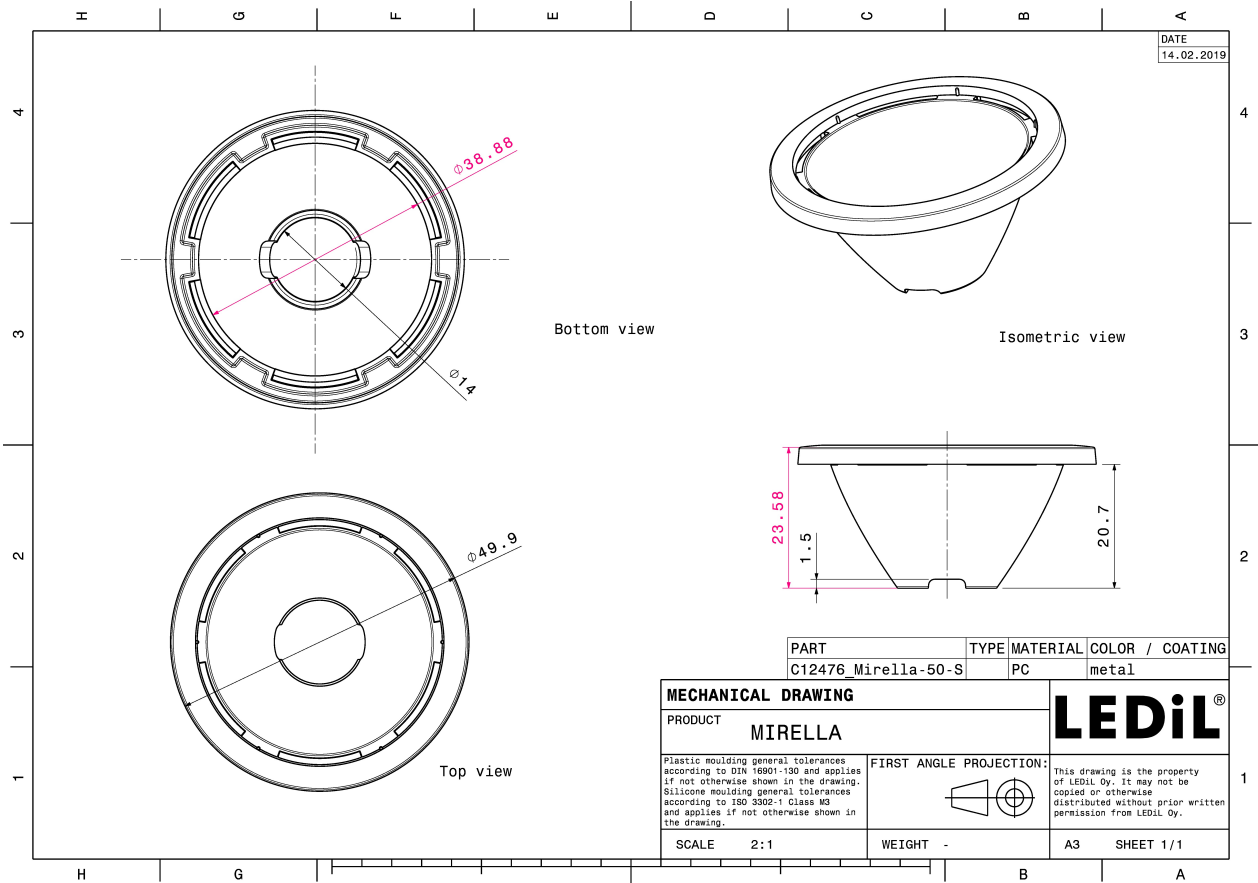
MATERIAL SPECIFICATIONS:

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


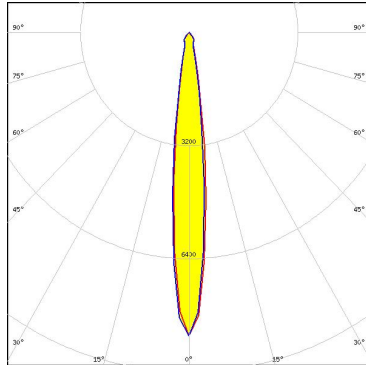

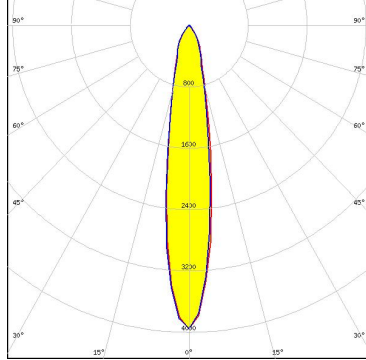




ORDERING INFORMATION:

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



PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED BXRA LS</p> <p>FWHM 13.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 8.600 cd/m</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 18.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 4.000 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C12479_MIRELLA-DL</p>		
<p>bridgelux.</p> <p>LED BXRA LS</p> <p>FWHM 14.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 6.700 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13333_MIRELLA-CL</p>		
<p>CITIZEN</p> <p>LED CLL01x</p> <p>FWHM 17.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 5.500 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13333_MIRELLA-CL</p>		

PHOTOMETRIC DATA (MEASURED):

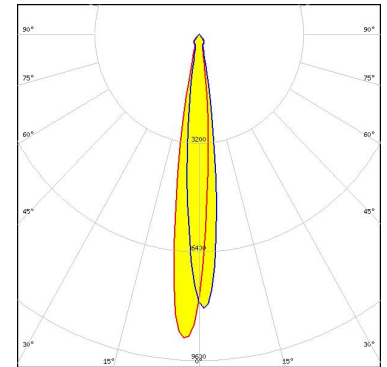
CITIZEN

LED CLL01x
FWHM 20.0°
Efficiency %
Peak intensity cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12479_MIRELLA-DL



CITIZEN

LED CLL01x
FWHM 14.0°
Efficiency %
Peak intensity cd/lm
LEDs/each optic 1
Light colour White
Required components:



CITIZEN

LED CLL02x/CLU02x (LES10)
FWHM 20.0°
Efficiency 93 %
Peak intensity cd/lm
LEDs/each optic 1
Light colour White
Required components:



CITIZEN

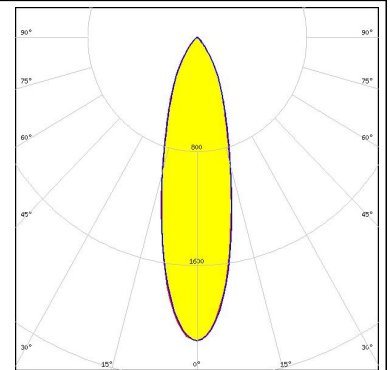
LED CLL02x/CLU02x (LES10)
FWHM 19.0°
Efficiency 84 %
Peak intensity 3.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13333_MIRELLA-CL



PHOTOMETRIC DATA (MEASURED):

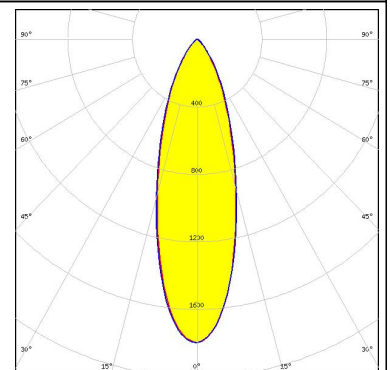
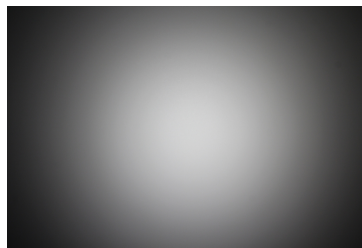
CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM 28.0°
 Efficiency 82 %
 Peak intensity 2.130 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



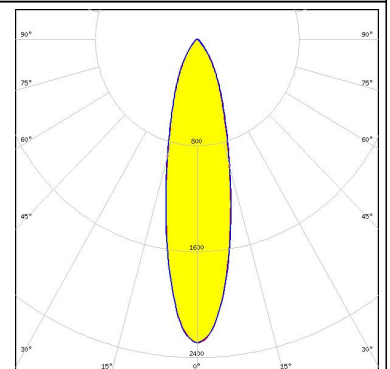
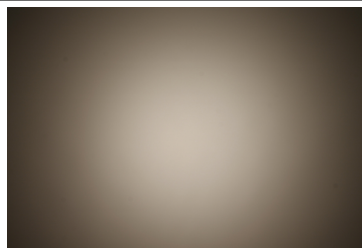
CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM 32.0°
 Efficiency 81 %
 Peak intensity 1.800 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13723_MIRELLA-RZL



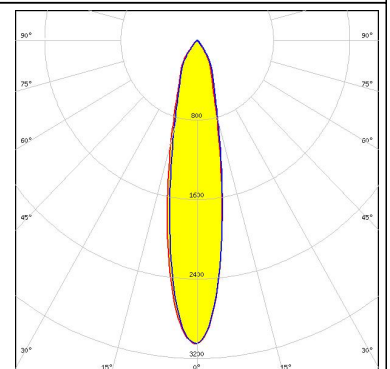
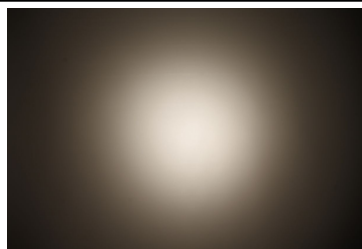
CITIZEN

LED CLU700/701/702
 FWHM 26.0°
 Efficiency 83 %
 Peak intensity 2.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13723_MIRELLA-RZL



CITIZEN

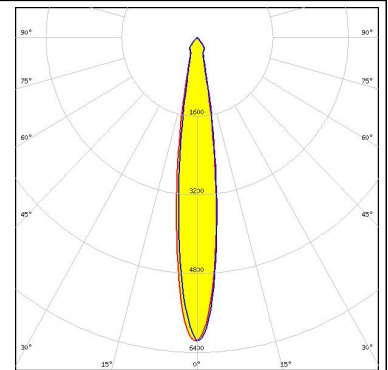
LED CLU700/701/702
 FWHM 21.0°
 Efficiency 84 %
 Peak intensity 3.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



PHOTOMETRIC DATA (MEASURED):

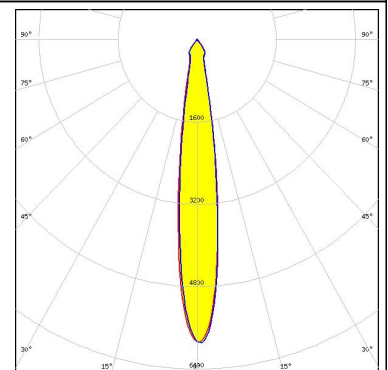
CITIZEN

LED CLU700/701/702
 FWHM 15.0°
 Efficiency 90 %
 Peak intensity 6.200 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



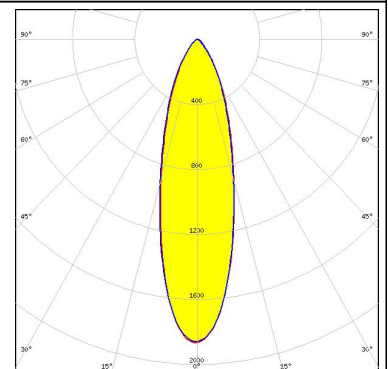
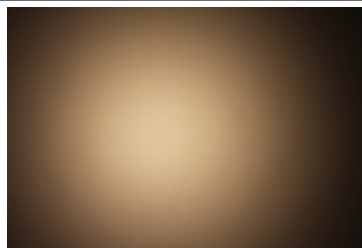
CITIZEN

LED CLU700/701/702
 FWHM 15.0°
 Efficiency 85 %
 Peak intensity 5.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



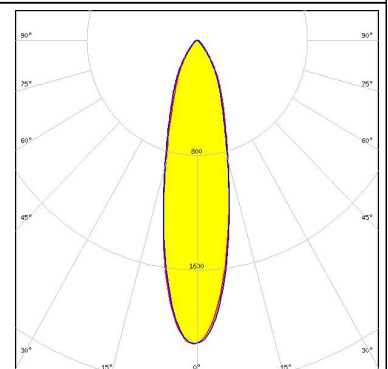
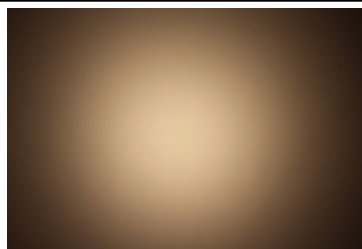
CITIZEN

LED CLU710/711
 FWHM 29.0°
 Efficiency 83 %
 Peak intensity 1.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13723_MIRELLA-RZL



CITIZEN

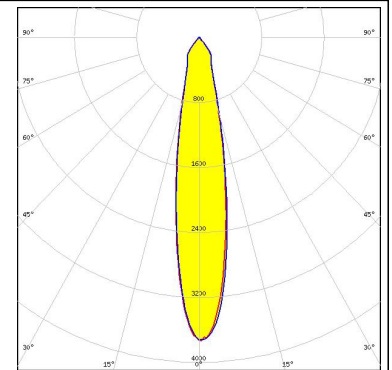
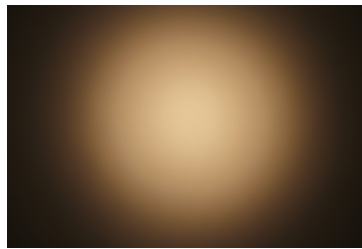
LED CLU710/711
 FWHM 26.0°
 Efficiency 83 %
 Peak intensity 2.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



PHOTOMETRIC DATA (MEASURED):

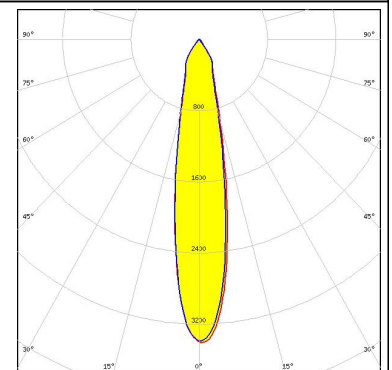
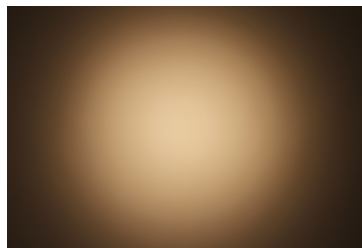
CITIZEN

LED CLU710/711
 FWHM 20.0°
 Efficiency 90 %
 Peak intensity 3.700 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



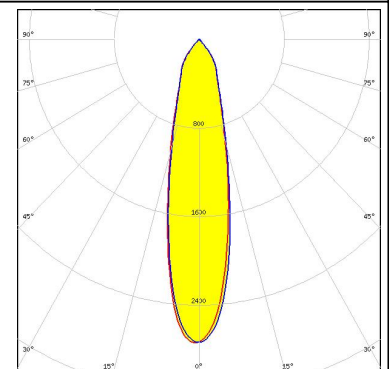
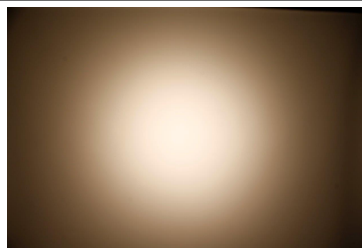
CITIZEN

LED CLU710/711
 FWHM 20.0°
 Efficiency 85 %
 Peak intensity 3.400 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



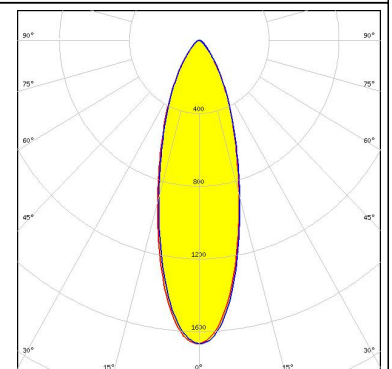
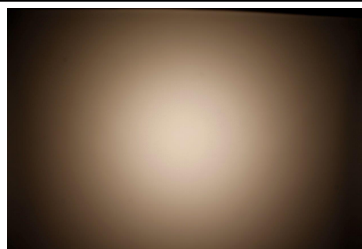
CITIZEN

LED CLU720/721
 FWHM 24.0°
 Efficiency 90 %
 Peak intensity 2.400 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



CITIZEN

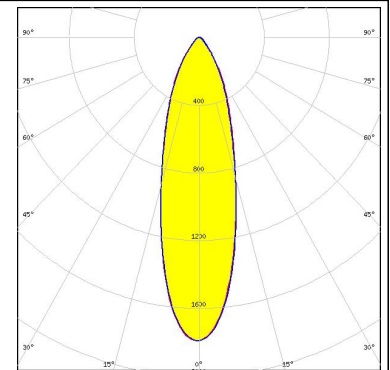
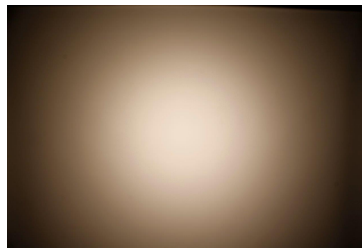
LED CLU720/721
 FWHM 32.0°
 Efficiency 83 %
 Peak intensity 1.700 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13723_MIRELLA-RZL



PHOTOMETRIC DATA (MEASURED):

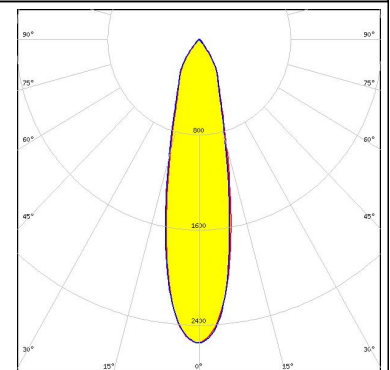
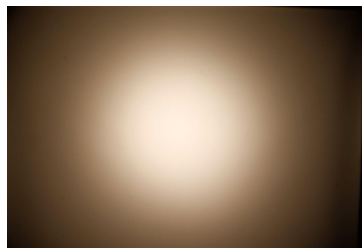
CITIZEN

LED CLU720/721
 FWHM 30.0°
 Efficiency 82 %
 Peak intensity 1.800 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



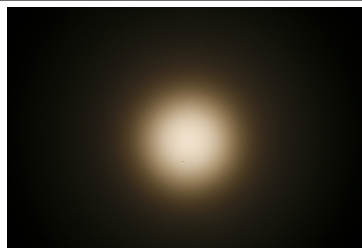
CITIZEN

LED CLU720/721
 FWHM 25.0°
 Efficiency 85 %
 Peak intensity 2.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



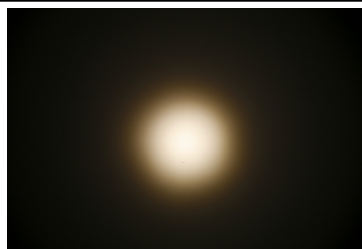
CREE

LED CXA/B 13xx
 FWHM 15.0°
 Efficiency 81 %
 Peak intensity 5.400 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



CREE

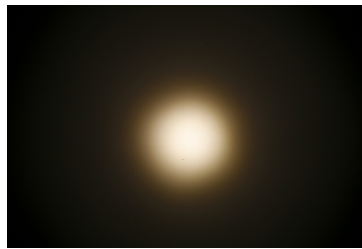
LED CXA/B 13xx
 FWHM 12.0°
 Efficiency 87 %
 Peak intensity 9.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

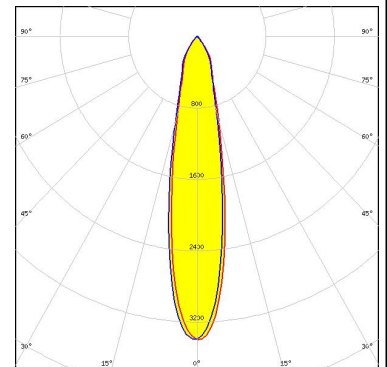
CREE

LED CXA/B 13xx
 FWHM 12.0°
 Efficiency 82 %
 Peak intensity 8.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



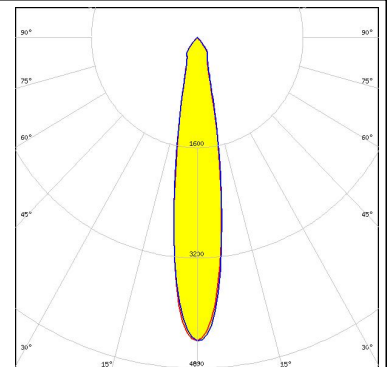
CREE

LED CXA/B 15xx
 FWHM 20.0°
 Efficiency 90 %
 Peak intensity 3.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



CREE

LED CXA/B 15xx
 FWHM 16.0°
 Efficiency 93 %
 Peak intensity 5.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



CREE

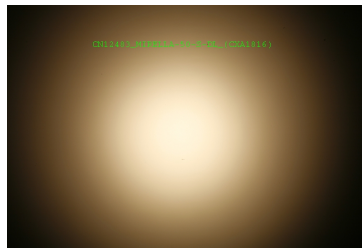
LED CXA/B 15xx
 FWHM 19.0°
 Efficiency 84 %
 Peak intensity 4.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



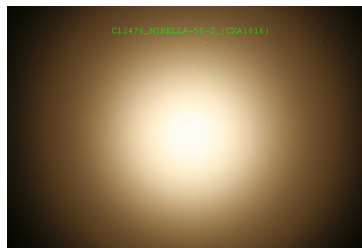
PHOTOMETRIC DATA (MEASURED):



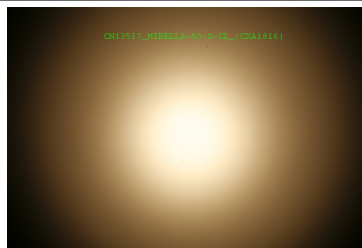
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM 26.0°
 Efficiency 83 %
 Peak intensity 2.600 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



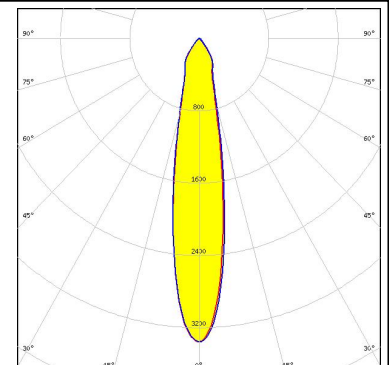
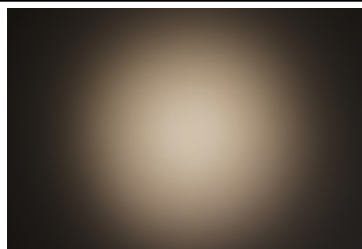
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM 23.0°
 Efficiency 89 %
 Peak intensity 3.200 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM 25.0°
 Efficiency 83 %
 Peak intensity 2.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



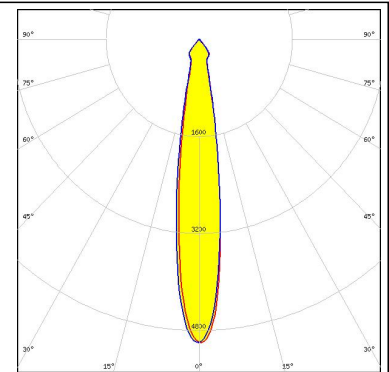
LED MHD-E/G
 FWHM 20.0°
 Efficiency 88 %
 Peak intensity 3.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



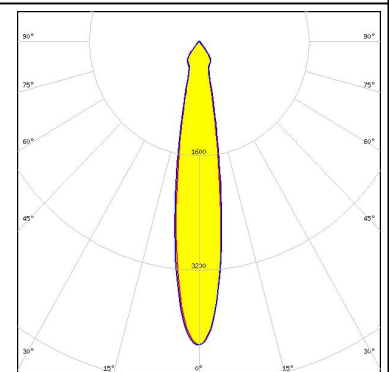
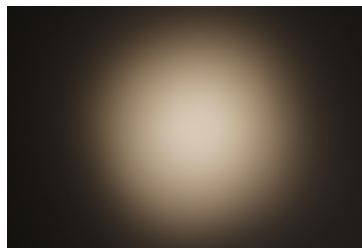
PHOTOMETRIC DATA (MEASURED):



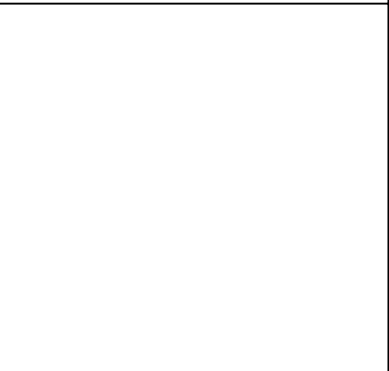
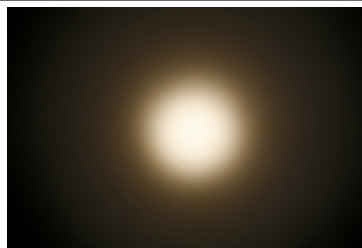
LED MHD-E/G
 FWHM 16.0°
 Efficiency 94 %
 Peak intensity 5.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



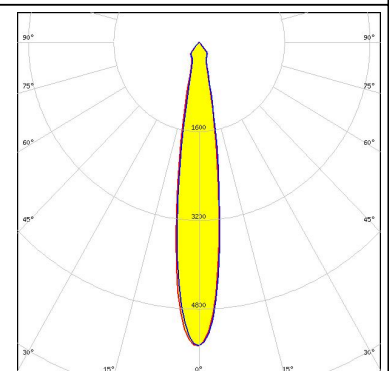
LED MHD-E/G
 FWHM 18.0°
 Efficiency 89 %
 Peak intensity 4.200 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



LED MT-G2
 FWHM 18.0°
 Efficiency 85 %
 Peak intensity 4.700 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



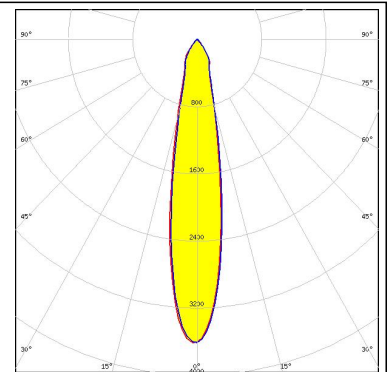
LED MT-G2
 FWHM 17.0°
 Efficiency 92 %
 Peak intensity 5.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



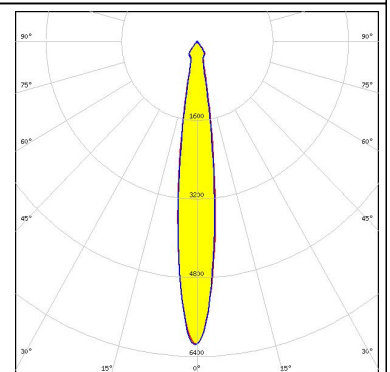
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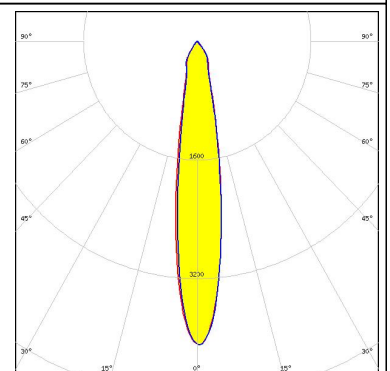
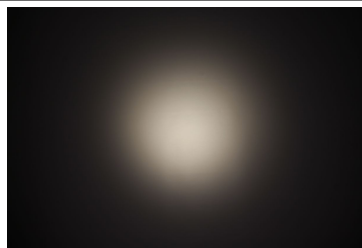
LED MT-G2
 FWHM 20.0°
 Efficiency 85 %
 Peak intensity 3.700 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



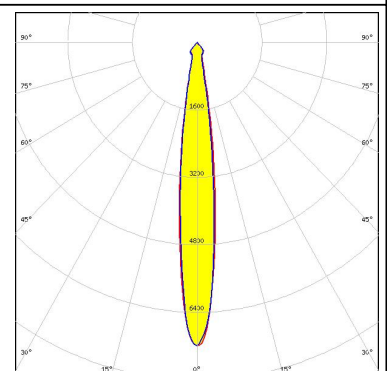
LED XHP50
 FWHM 14.0°
 Efficiency 86 %
 Peak intensity 6.200 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



LED XHP50
 FWHM 17.0°
 Efficiency 85 %
 Peak intensity 4.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



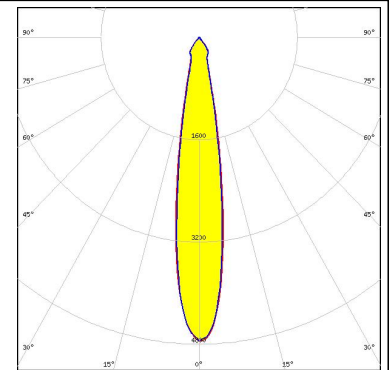
LED XHP50
 FWHM 14.0°
 Efficiency 92 %
 Peak intensity 7.200 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



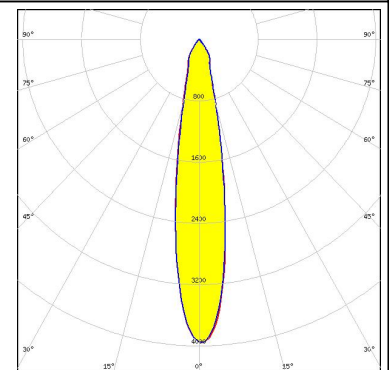
PHOTOMETRIC DATA (MEASURED):



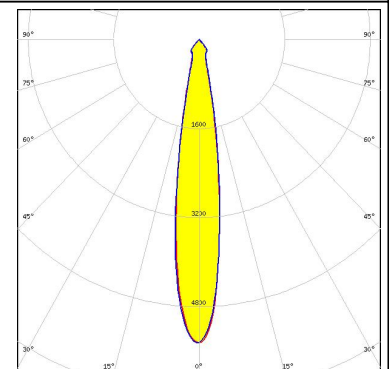
LED XHP70
 FWHM 18.0°
 Efficiency 86 %
 Peak intensity 4.800 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



LED XHP70
 FWHM 19.0°
 Efficiency 86 %
 Peak intensity 4.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL




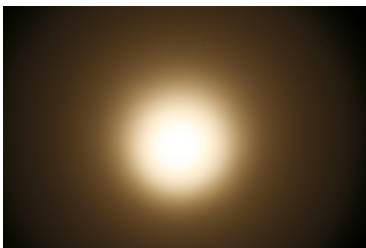

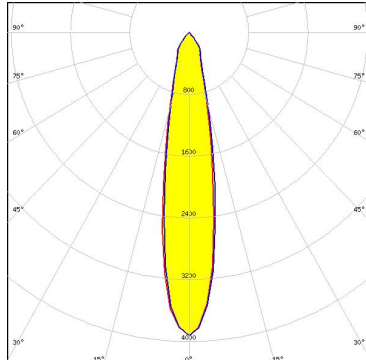

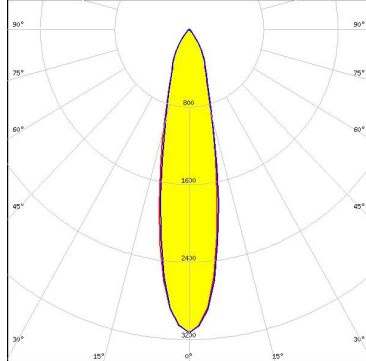
LED XHP70
 FWHM 17.0°
 Efficiency 90 %
 Peak intensity 5.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED COB 4W
 FWHM 15.0°
 Efficiency 85 %
 Peak intensity 6.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



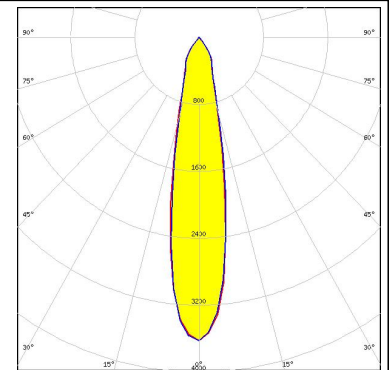
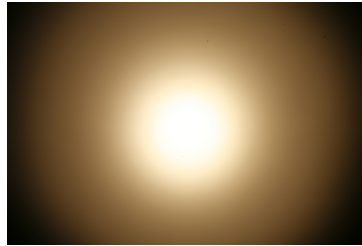
PHOTOMETRIC DATA (MEASURED):

<p>LG Innotek</p> <p>LED COB 4W FWHM 17.0° Efficiency 86 % Peak intensity 4.400 cd/m LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		
<p>LG Innotek</p> <p>LED COB 4W FWHM 14.0° Efficiency 91 % Peak intensity 6.700 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1202/1203 FWHM 20.0° Efficiency 89 % Peak intensity 3.900 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1202/1203 FWHM 23.0° Efficiency 85 % Peak intensity 3.100 cd/m LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		

PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED LUXEON CoB 1202/1203
 FWHM 21.0°
 Efficiency 86 %
 Peak intensity 3.600 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



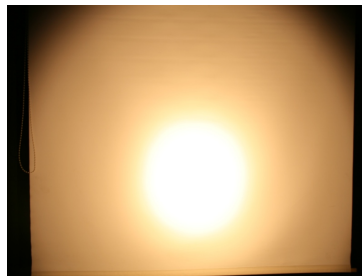
LUMILEDS

LED LUXEON S1000
 FWHM 21.0°
 Efficiency %
 Peak intensity cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



LUMILEDS

LED LUXEON S1000
 FWHM 17.0°
 Efficiency %
 Peak intensity cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LUMILEDS

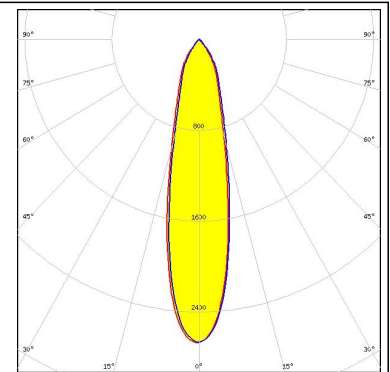
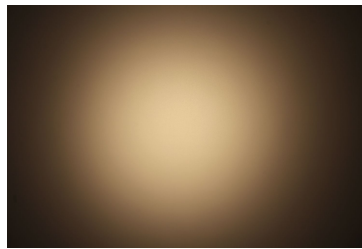
LED LUXEON S1000
 FWHM 14.0°
 Efficiency 84 %
 Peak intensity 5.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



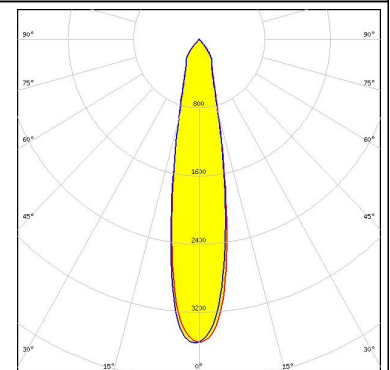
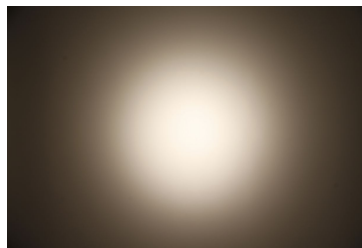
PHOTOMETRIC DATA (MEASURED):



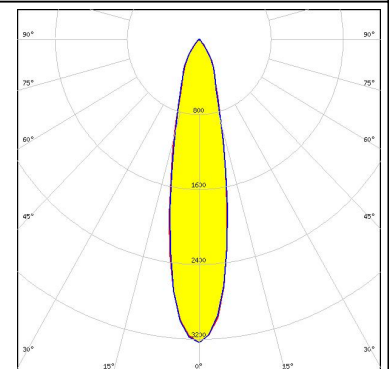
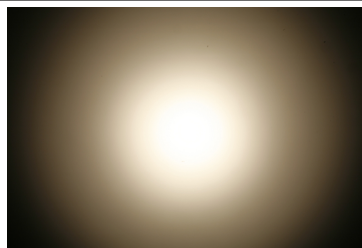
LED CxM-9 (13.5x13.5)
 FWHM 24.0°
 Efficiency 84 %
 Peak intensity 2.700 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



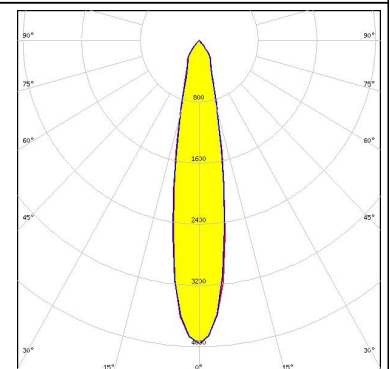
LED CxM-9 (13.5x13.5)
 FWHM 21.0°
 Efficiency 90 %
 Peak intensity 3.600 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:




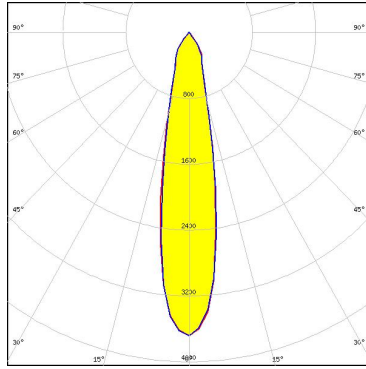

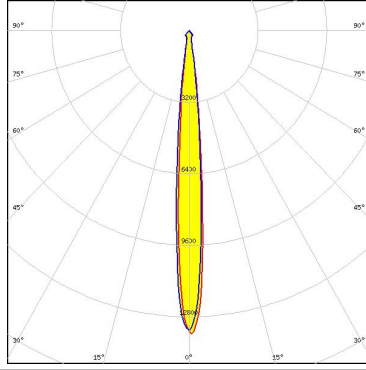

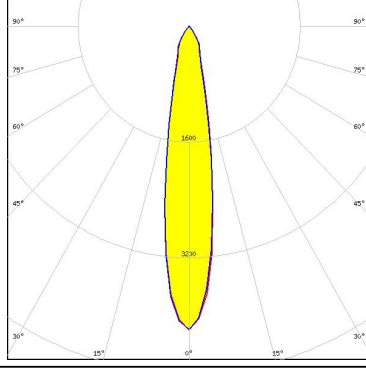

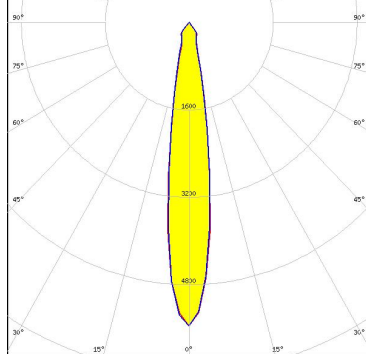
LED COB L-Type (LES 9)
 FWHM 23.0°
 Efficiency 86 %
 Peak intensity 3.200 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL





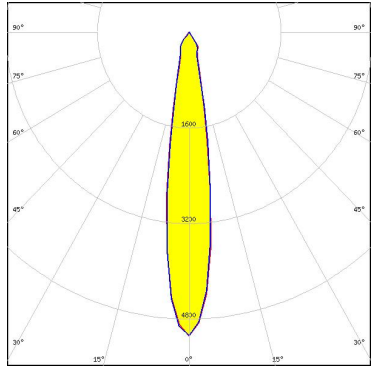





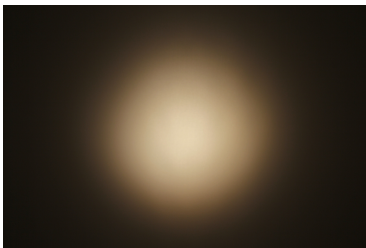
LED COB L-Type (LES 9)
 FWHM 20.0°
 Efficiency 90 %
 Peak intensity 4.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



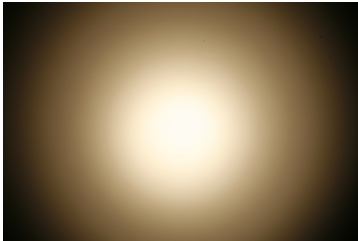
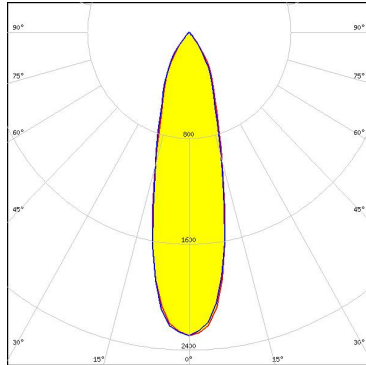
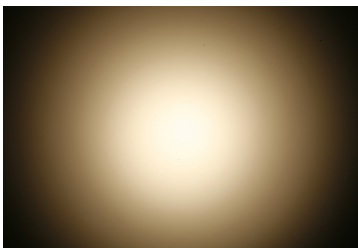
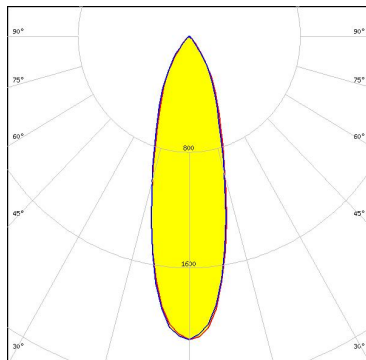

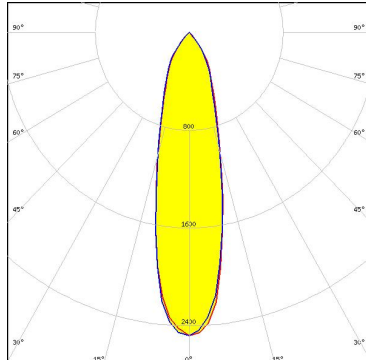
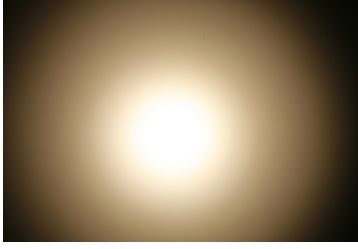
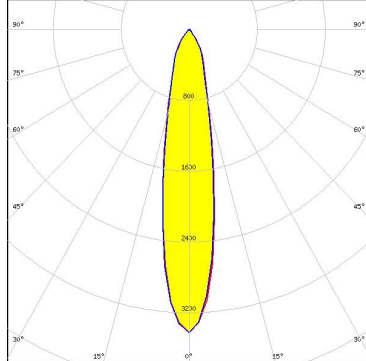
PHOTOMETRIC DATA (MEASURED):

<p>NICHIA</p> <p>LED COB L-Type (LES 9)</p> <p>FWHM 22.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 3.700 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13333_MIRELLA-CL</p>		
<p>NICHIA</p> <p>LED NFMW48xA</p> <p>FWHM 9.5°</p> <p>Efficiency 88 %</p> <p>Peak intensity 13.600 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 19.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 4.200 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C12479_MIRELLA-DL</p>		
<p>NICHIA</p> <p>LED NSCxL036A</p> <p>FWHM 17.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 5.600 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		


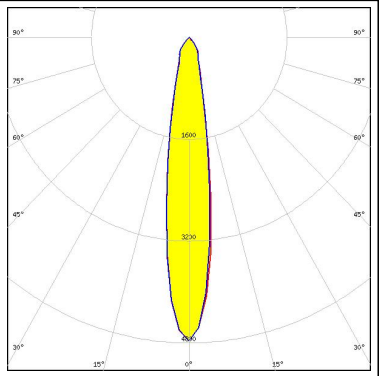

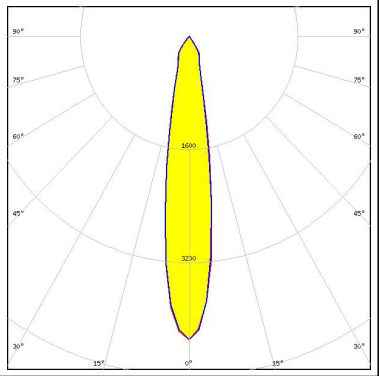

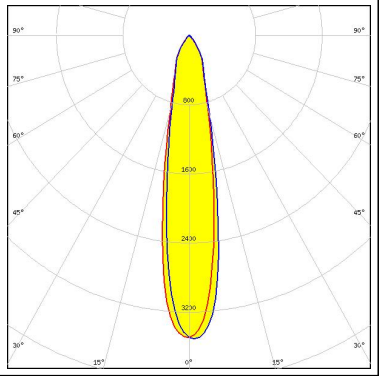

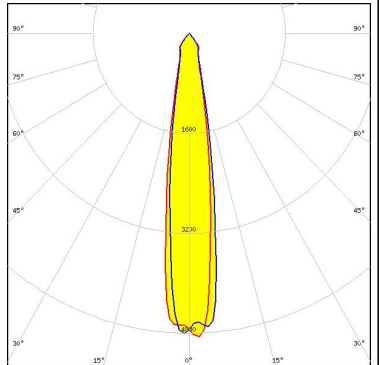
PHOTOMETRIC DATA (MEASURED):

 <p>LED NSCxL036A FWHM 17.0° Efficiency 84 % Peak intensity 5.000 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p>		
 <p>LED Duris S10 FWHM 15.0° Efficiency 83 % Peak intensity 6.700 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p>		
 <p>LED Duris S10 FWHM 20.0° Efficiency 81 % Peak intensity 3.400 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		
 <p>LED Duris S10 FWHM 15.0° Efficiency 89 % Peak intensity 6.500 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

PHOTOMETRIC DATA (MEASURED):

<p>OSRAM Opto Semiconductors</p> <p>LED Soleriq S13 FWHM 28.0° Efficiency 82 % Peak intensity 2.300 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED Soleriq S13 FWHM 30.0° Efficiency 83 % Peak intensity 2.100 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED Soleriq S13 FWHM 27.0° Efficiency 87 % Peak intensity 2.500 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>SEOUL SEMICONDUCTOR</p> <p>LED ZC4/6 FWHM 21.0° Efficiency 83 % Peak intensity 3.400 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		

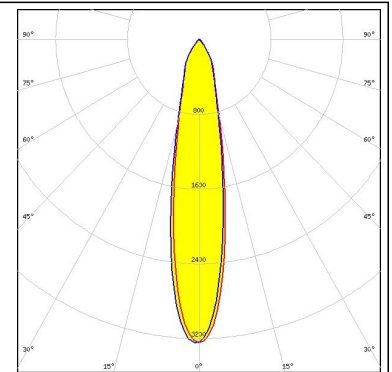
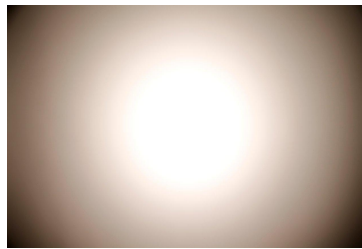
PHOTOMETRIC DATA (MEASURED):

<p>SEOL SEOL SEMICONDUCTOR</p> <p>LED ZC4/6 FWHM 18.0° Efficiency 88 % Peak intensity 4.800 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>SEOL SEOL SEMICONDUCTOR</p> <p>LED ZC4/6 FWHM 19.0° Efficiency 82 % Peak intensity 4.300 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p>		
<p>SHARP</p> <p>LED Mini Zenigata (GW5BM) FWHM 20.0° Efficiency 86 % Peak intensity 3.500 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		
<p>SHARP</p> <p>LED Mini Zenigata (GW5BM) FWHM 17.0° Efficiency 92 % Peak intensity 4.800 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

PHOTOMETRIC DATA (MEASURED):

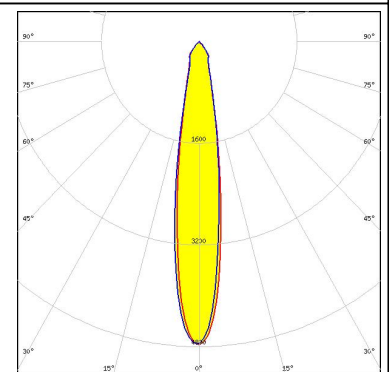
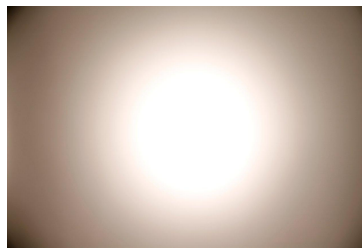
SHARP

LED Mini Zenigata (GW6BM)
FWHM 20.0°
Efficiency 84 %
Peak intensity 3.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C12479_MIRELLA-DL



SHARP

LED Mini Zenigata (GW6BM)
FWHM 17.0°
Efficiency 91 %
Peak intensity 4.800 cd/lm
LEDs/each optic 1
Light colour White
Required components:



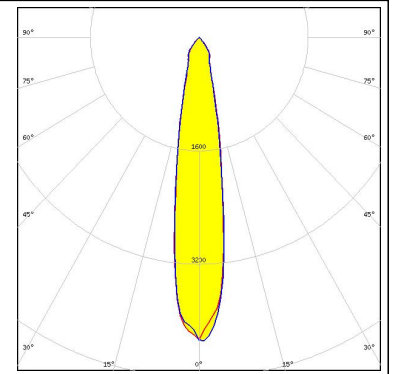
PHOTOMETRIC DATA (SIMULATED):

<p>LUMILEDS</p> <p>LED LUXEON V FWHM 7.7° Efficiency 89 % Peak intensity 18.700 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 11.0° Efficiency 91 % Peak intensity 12.200 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED Soleriq S9 FWHM 20.0° Efficiency 87 % Peak intensity 3.900 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p>	
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED Soleriq S9 FWHM 21.0° Efficiency 86 % Peak intensity 3.400 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>	

PHOTOMETRIC DATA (SIMULATED):

OSRAM
Opto Semiconductors

LED	Soleriq S9
FWHM	19.0°
Efficiency	91 %
Peak intensity	4.400 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

Joensuunkatu 13
FI-24240 SALO
Finland

LEDiL Inc.

228 West Page Street
Suite D
Sycamore IL 60178
USA

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