

MIRELLA-50-M-PIN

~30° medium beam

SPECIFICATION:

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

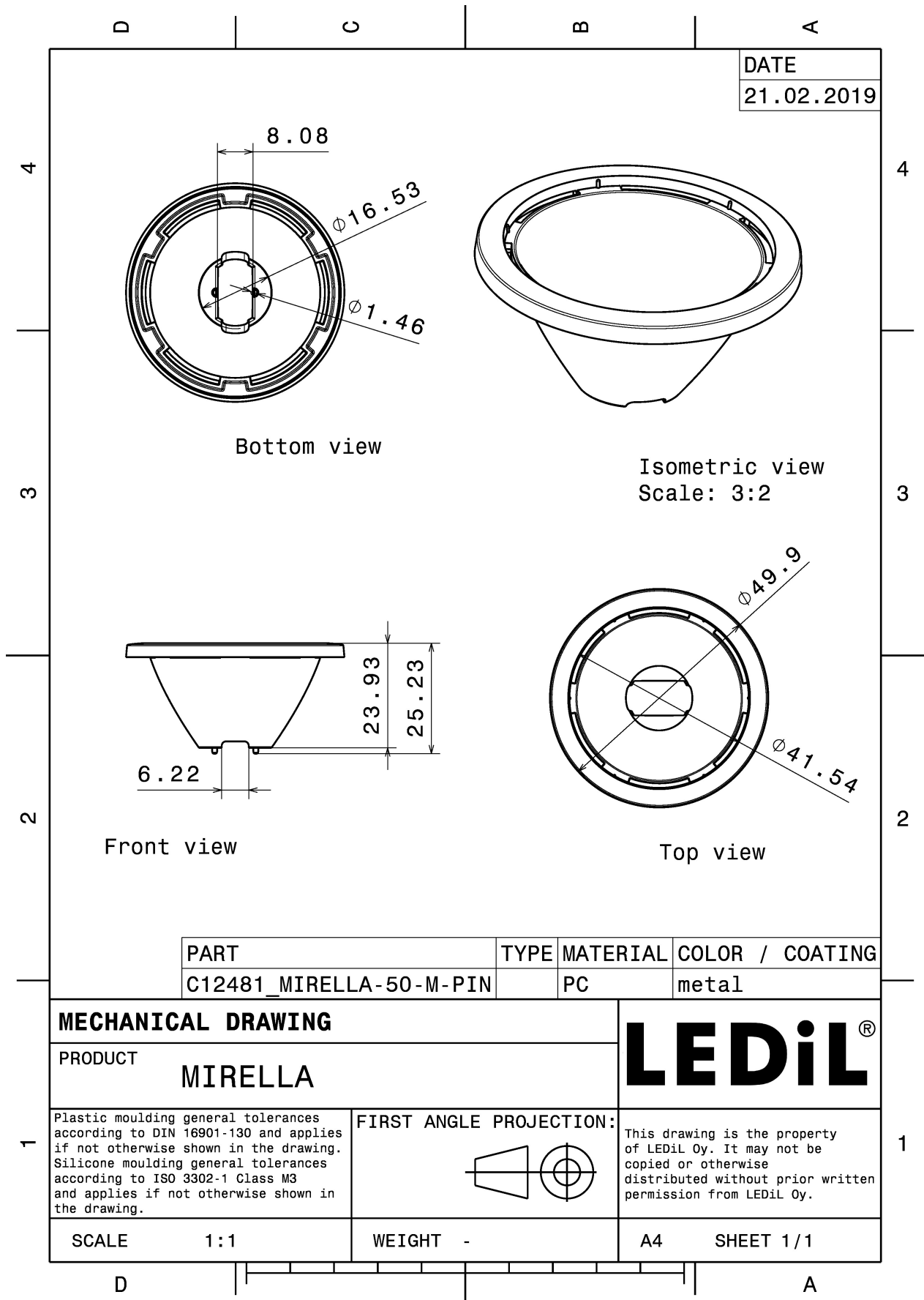
MATERIALS:

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

ORDERING INFORMATION:



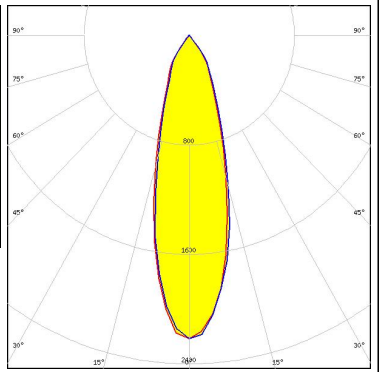


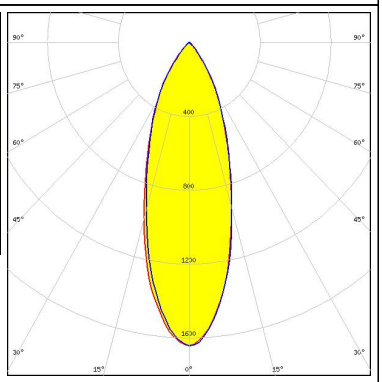




Component	Qty in box	MOQ	MPQ	Box weight (kg)
C12481_MIRELLA-50-M-PIN » Box size: 480 x 280 x 300 mm	336	112	28	3.1




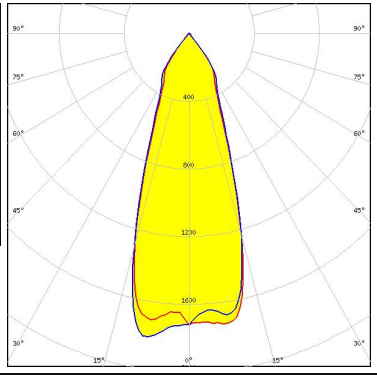

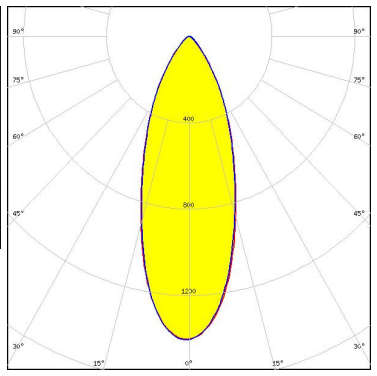

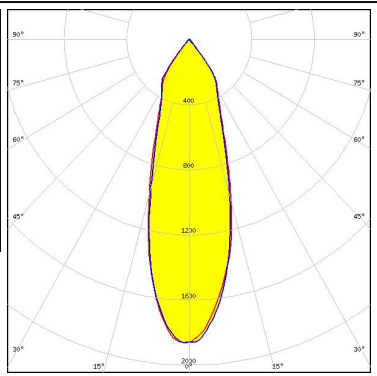

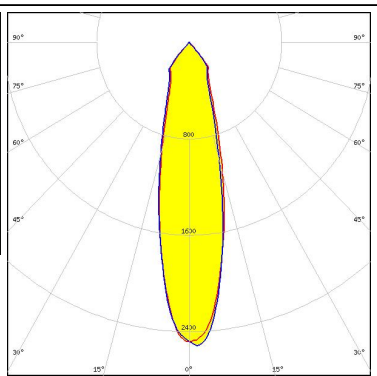


See also our general installation guide: www.ledil.com/installation_guide

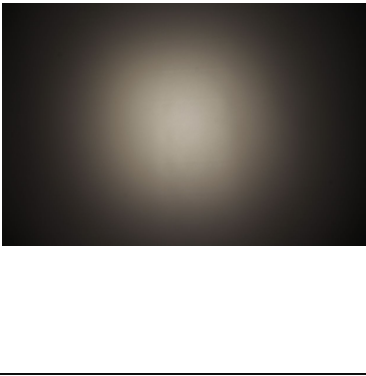
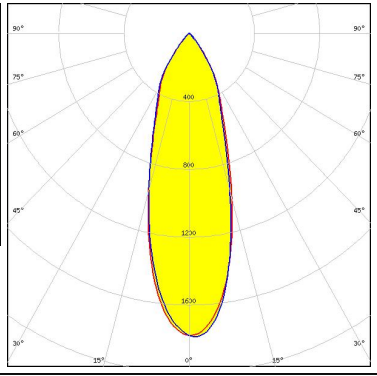

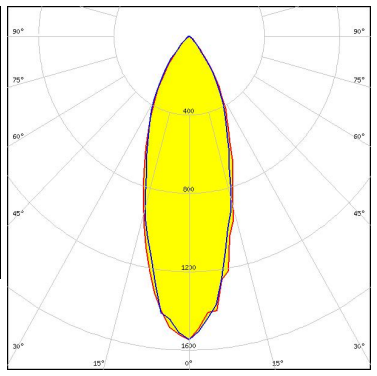

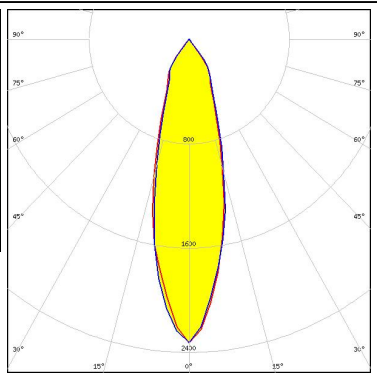

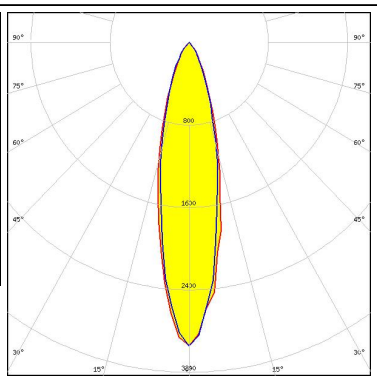
OPTICAL RESULTS (MEASURED):

<p></p> <p>LED SM4 FWHM / FWTM 29.0° / 68.0° Efficiency 80 % Peak intensity 2.2 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p>		
<p></p> <p>LED SM4 FWHM / FWTM 35.0° / 73.0° Efficiency 78 % Peak intensity 1.7 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		
<p></p> <p>LED MHB-A/B FWHM / FWTM 34.0° / 78.0° Efficiency 83 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p>		
<p></p> <p>LED MHB-A/B FWHM / FWTM 28.0° / 80.0° Efficiency 88 % Peak intensity 2.5 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		


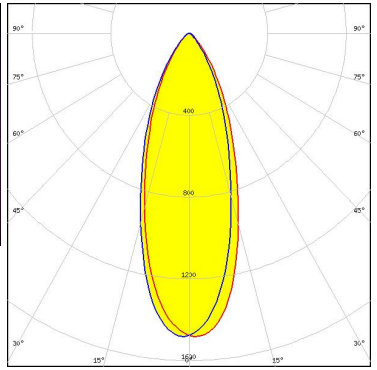

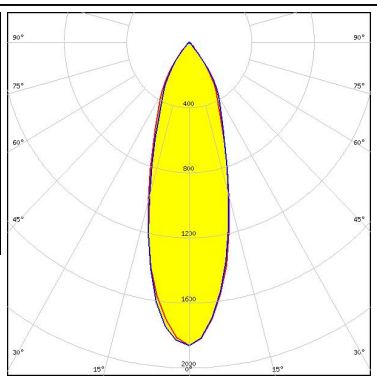

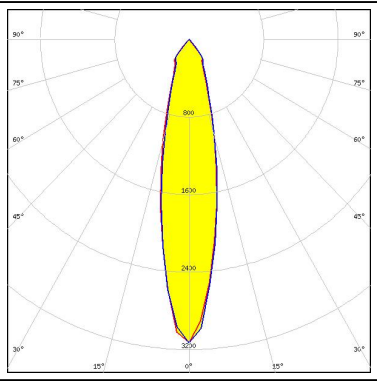
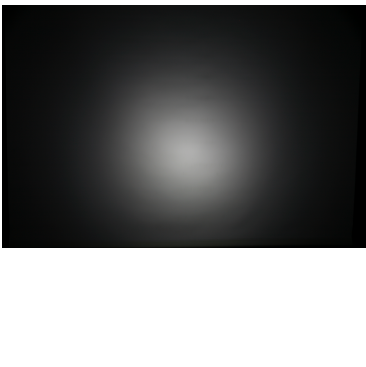
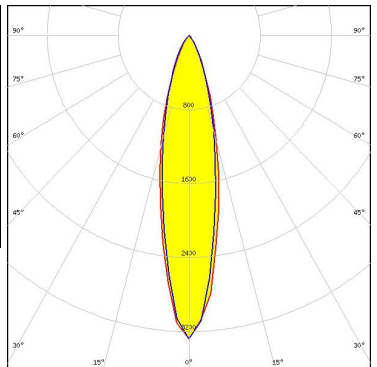
OPTICAL RESULTS (MEASURED):

<p>CREE LEDs</p> <p>LED MHB-A/B FWHM / FWTM 35.0° / 76.0° Efficiency 83 % Peak intensity 1.8 cd/m LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		
<p>CREE LEDs</p> <p>LED XHP50 FWHM / FWTM 37.0° / 78.0° Efficiency 83 % Peak intensity 1.4 cd/m LEDs/each optic 1 Light colour White Required components: C13723_MIRELLA-RZL</p>		
<p>CREE LEDs</p> <p>LED XHP50 FWHM / FWTM 32.0° / 76.0° Efficiency 85 % Peak intensity 1.9 cd/m LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p>		
<p>CREE LEDs</p> <p>LED XHP50 FWHM / FWTM 25.0° / 77.0° Efficiency 90 % Peak intensity 2.5 cd/m LEDs/each optic 1 Light colour White Required components:</p>		

OPTICAL RESULTS (MEASURED):

<p>CREE LEDs</p> <p>LED XHP50 FWHM / FWTM 32.0° / 74.0° Efficiency 86 % Peak intensity 1.8 cd/m LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		
<p>CREE LEDs</p> <p>LED XM-L FWHM / FWTM 35.0° / 76.0° Efficiency 80 % Peak intensity 1.5 cd/m LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		
<p>CREE LEDs</p> <p>LED XM-L FWHM / FWTM 28.0° / 72.0° Efficiency 84 % Peak intensity 2.3 cd/m LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p>		
<p>CREE LEDs</p> <p>LED XM-L FWHM / FWTM 24.0° / 56.0° Efficiency 89 % Peak intensity 2.9 cd/m LEDs/each optic 1 Light colour White Required components:</p>		

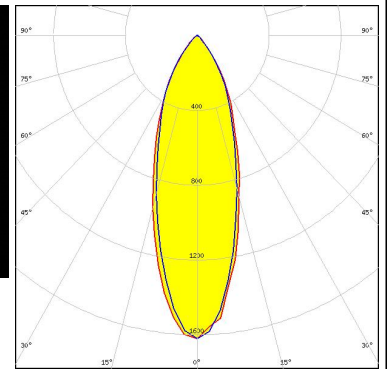
OPTICAL RESULTS (MEASURED):

<p>CREE LEDs</p> <p>LED XM-L RGBW (XMLCTW) FWHM / FWTM 37.0° / 76.0° Efficiency 83 % Peak intensity 1.5 cd/m LEDs/each optic 1 Light colour White Required components: C13723_MIRELLA-RZL</p>		
<p>CREE LEDs</p> <p>LED XM-L2 FWHM / FWTM 33.0° / 74.0° Efficiency 82 % Peak intensity 1.9 cd/m LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		
<p>CREE LEDs</p> <p>LED XM-L2 FWHM / FWTM 22.0° / 58.0° Efficiency 91 % Peak intensity 3.1 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>CREE LEDs</p> <p>LED XP-G FWHM / FWTM 24.0° / 53.0° Efficiency 86 % Peak intensity 3.3 cd/m LEDs/each optic 1 Light colour White Required components:</p>		

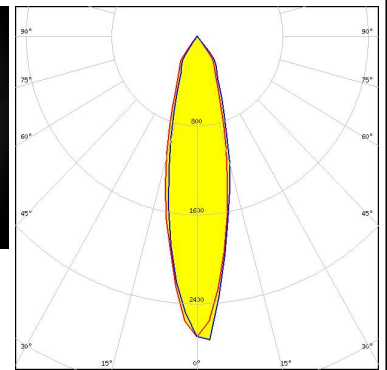
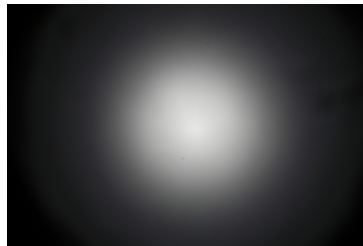
OPTICAL RESULTS (MEASURED):



LED XP-G
 FWHM / FWTM 34.0° / 74.0°
 Efficiency 81 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



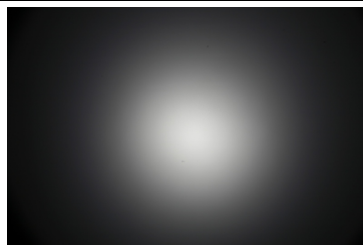
LED XP-G
 FWHM / FWTM 24.0° / 68.0°
 Efficiency 83 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL




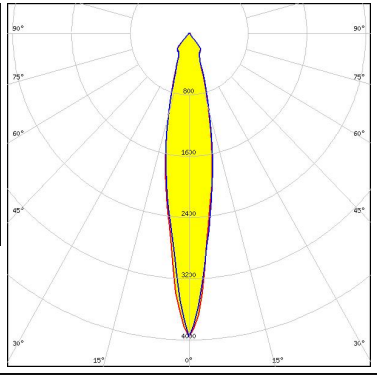

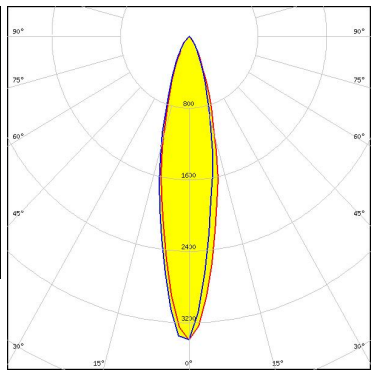
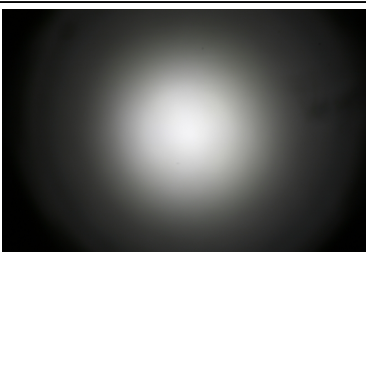
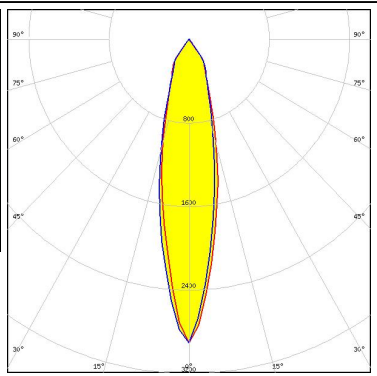

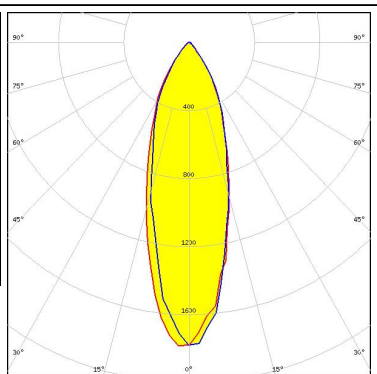
LED XP-G2
 FWHM / FWTM 30.0° / 74.0°
 Efficiency 83 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL




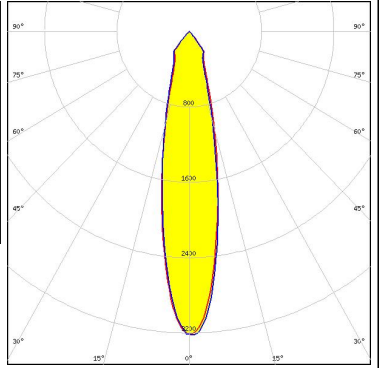
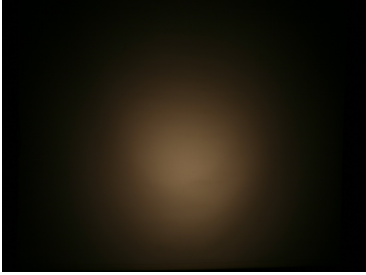
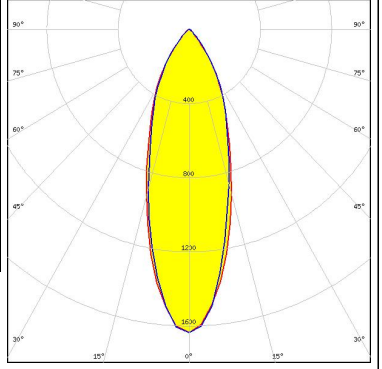

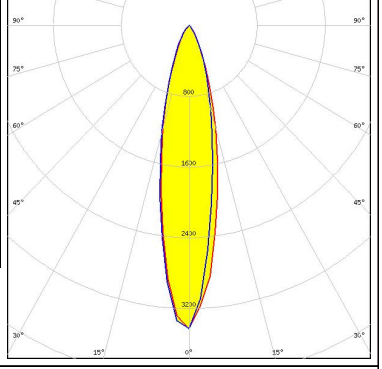

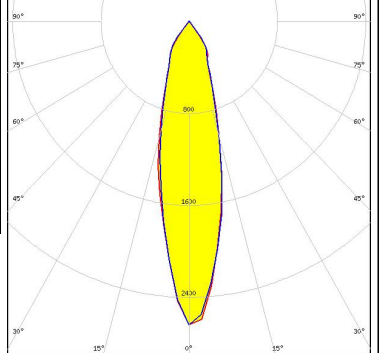
LED XP-G2
 FWHM / FWTM 22.0° / 76.0°
 Efficiency 88 %
 Peak intensity 2.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

<p>CREE LEDs</p> <p>LED XP-L HI FWHM / FWTM 17.0° / 48.0° Efficiency 88 % Peak intensity 4.5 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>CREE LEDs</p> <p>LED XT-E FWHM / FWTM 23.0° / 51.0° Efficiency 85 % Peak intensity 3.4 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>CREE LEDs</p> <p>LED XT-E FWHM / FWTM 22.0° / 64.0° Efficiency 81 % Peak intensity 2.9 cd/m LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p>		
<p>CREE LEDs</p> <p>LED XT-E FWHM / FWTM 32.0° / 73.0° Efficiency 78 % Peak intensity 1.8 cd/m LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		

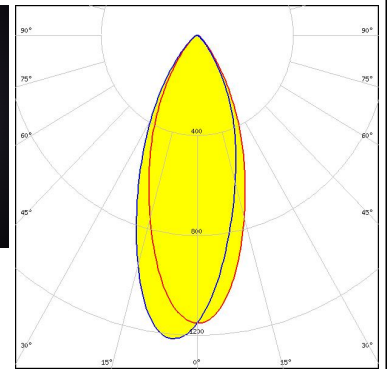
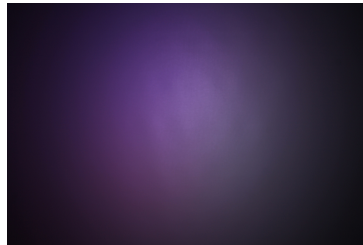
OPTICAL RESULTS (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON 5050 Round LES</p> <p>FWHM / FWTM 22.0° / 59.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 3.2 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>LUMILEDS</p> <p>LED LUXEON A</p> <p>FWHM / FWTM 34.0° / 75.0°</p> <p>Efficiency 80 %</p> <p>Peak intensity 1.6 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C12479_MIRELLA-DL</p>		
<p>LUMILEDS</p> <p>LED LUXEON A</p> <p>FWHM / FWTM 22.0° / 52.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 3.4 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>LUMILEDS</p> <p>LED LUXEON A</p> <p>FWHM / FWTM 24.0° / 69.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 2.6 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13333_MIRELLA-CL</p>		

OPTICAL RESULTS (MEASURED):

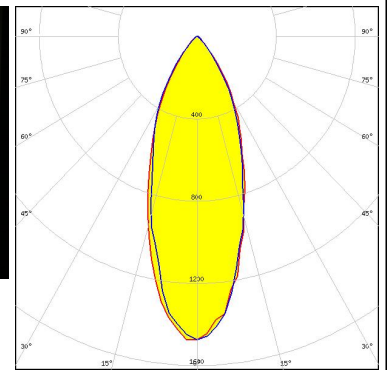
LUMILEDS

LED LUXEON C
 FWHM / FWTM 39.0° / 79.0°
 Efficiency 74 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 4
 Light colour RGBW
 Required components:
 C13723_MIRELLA-RZL



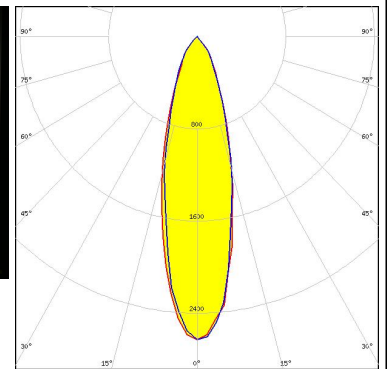
LUMILEDS

LED LUXEON M/MX
 FWHM / FWTM 38.0° / 78.0°
 Efficiency 81 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



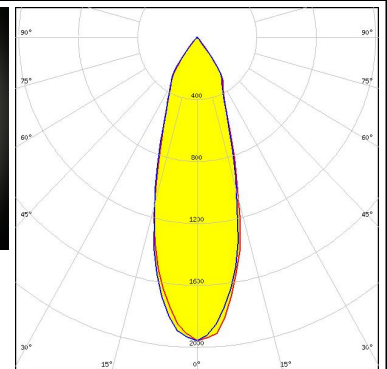
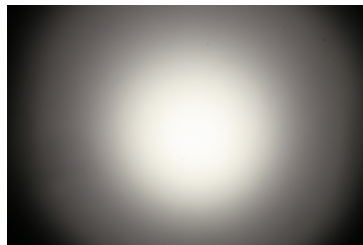
LUMILEDS

LED LUXEON M/MX
 FWHM / FWTM 24.0° / 63.0°
 Efficiency 87 %
 Peak intensity 2.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LUMILEDS

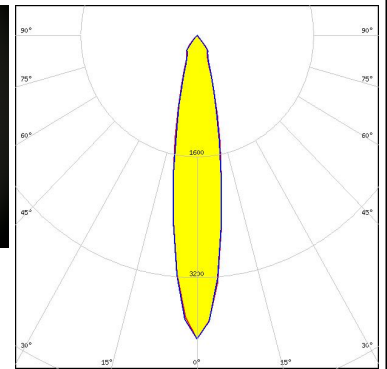
LED LUXEON M/MX
 FWHM / FWTM 33.0° / 74.0°
 Efficiency 84 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL



OPTICAL RESULTS (MEASURED):

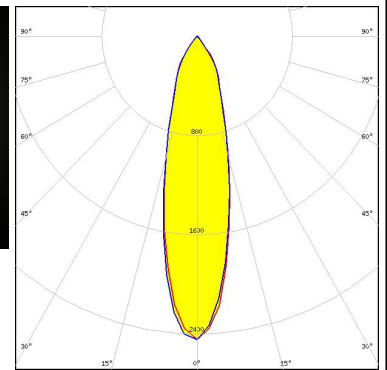
LUMILEDS

LED LUXEON MZ
 FWHM / FWTM 20.0° / 47.0°
 Efficiency 88 %
 Peak intensity 4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



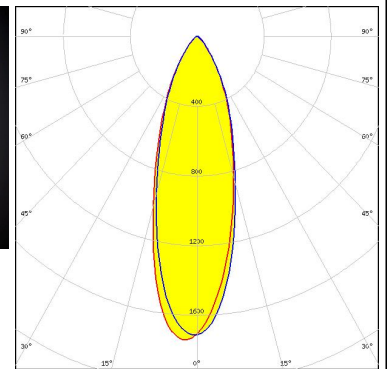
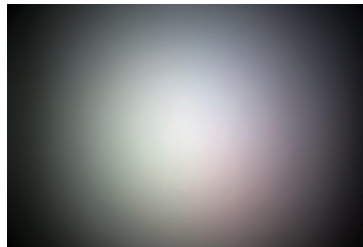
LUMILEDS

LED LUXEON MZ
 FWHM / FWTM 27.0° / 69.0°
 Efficiency 84 %
 Peak intensity 2.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



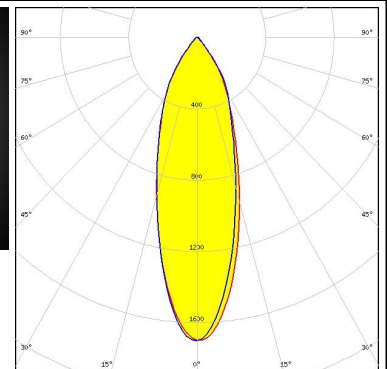
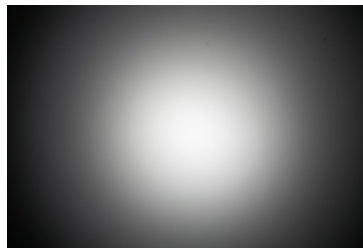
LUMILEDS

LED LUXEON Z
 FWHM / FWTM 31.0° / 71.0°
 Efficiency 83 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 4
 Light colour RGBW
 Required components:
 C13723_MIRELLA-RZL

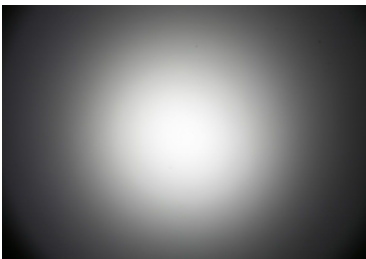
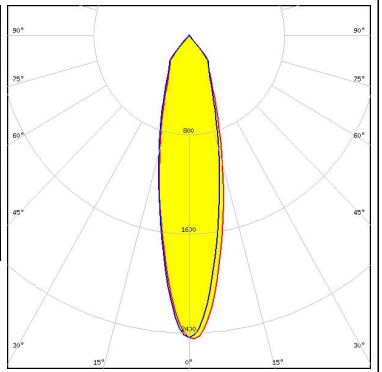

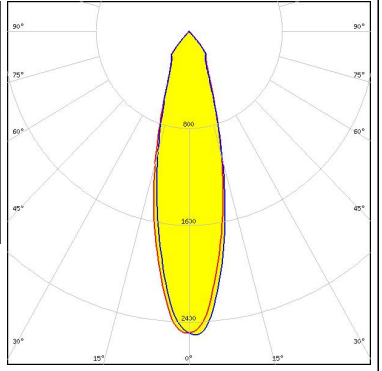

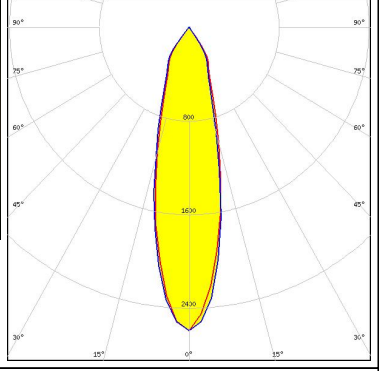
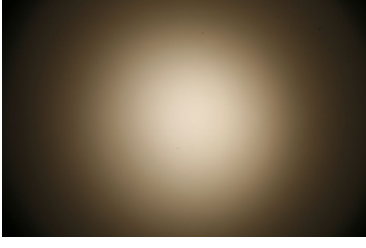
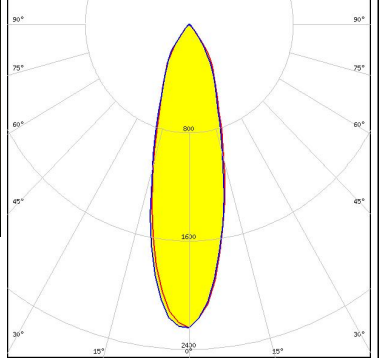


NICHIA


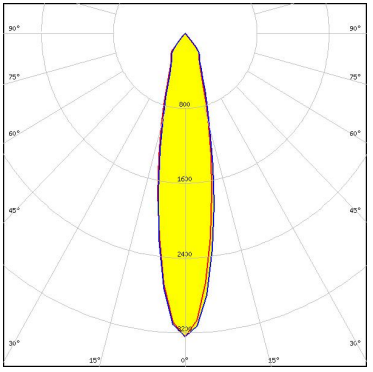
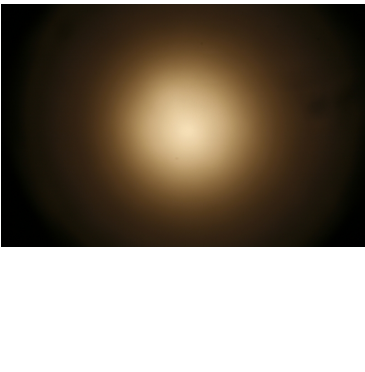
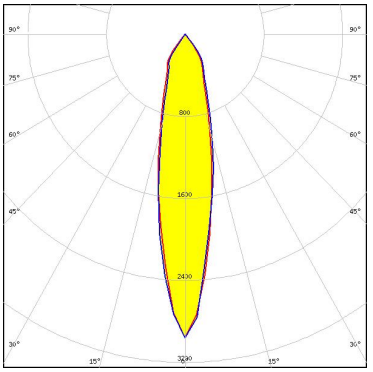

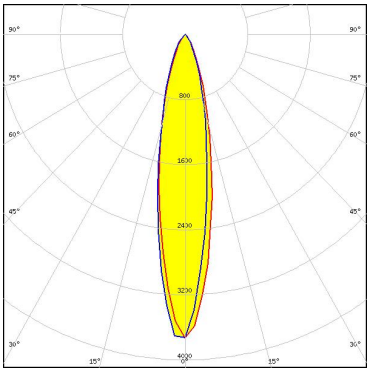

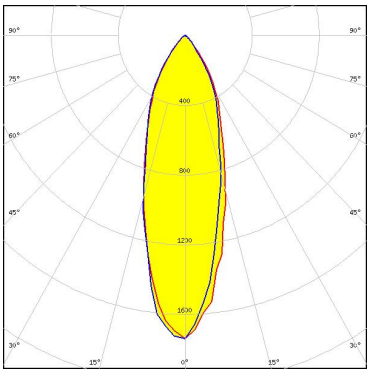
LED NS9x383
 FWHM / FWTM 32.0° / 74.0°
 Efficiency 83 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



OPTICAL RESULTS (MEASURED):

<p>NICHIA</p> <p>LED NS9x383 FWHM / FWTM 24.0° / 78.0° Efficiency 88 % Peak intensity 2.5 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>NICHIA</p> <p>LED NV4x144A FWHM / FWTM 27.0° / 73.0° Efficiency 89 % Peak intensity 2.5 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED Duris S8 FWHM / FWTM 26.0° / 70.0° Efficiency 84 % Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL</p>		
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED Duris S8 FWHM / FWTM 28.0° / 69.0° Efficiency 84 % Peak intensity 2.2 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL</p>		

OPTICAL RESULTS (MEASURED):

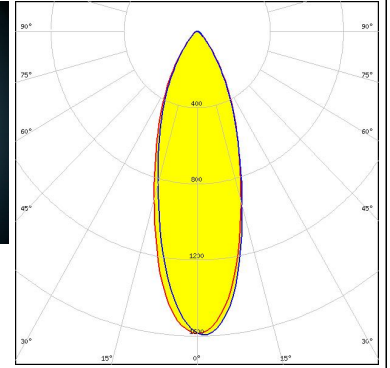
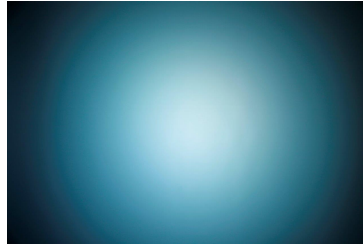
<p>OSRAM Opto Semiconductors</p> <p>LED Duris S8</p> <p>FWHM / FWTM 22.0° / 58.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 3.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED OSLOM Square EC</p> <p>FWHM / FWTM 22.0° / 67.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 3 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 OSLOM Square EC</p> <p>FWHM / FWTM 22.0° / 49.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 3.4 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 OSLOM Square EC</p> <p>FWHM / FWTM 32.0° / 75.0°</p> <p>Efficiency 79 %</p> <p>Peak intensity 1.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C12479_MIRELLA-DL</p>		

OPTICAL RESULTS (MEASURED):

OSRAM

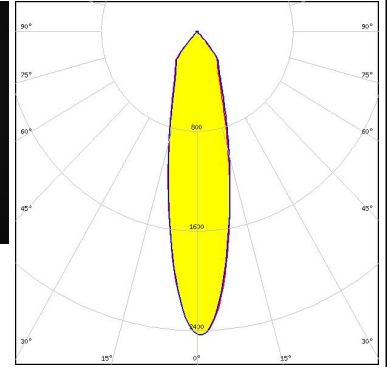
Opto Semiconductors

LED Ostar-SMT RGB
 FWHM / FWTM 34.0° / 74.0°
 Efficiency 83 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13723_MIRELLA-RZL



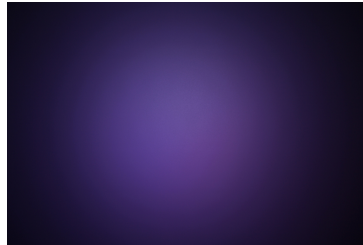
SAMSUNG

LED LH508A
 FWHM / FWTM 24.0° / 78.0°
 Efficiency 88 %
 Peak intensity 2.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



SEOUL SEMICONDUCTOR

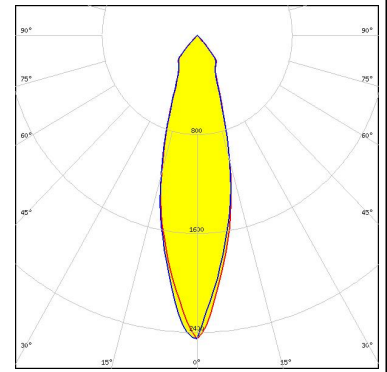
LED F50360 (RGB)
 FWHM / FWTM 33.0° / 76.0°
 Efficiency 82 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13723_MIRELLA-RZL



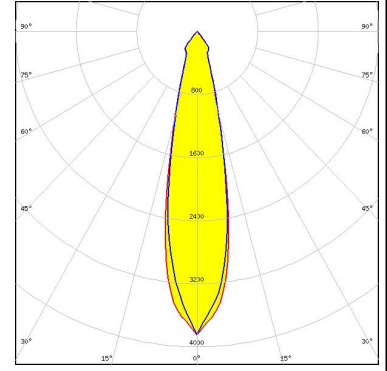
OPTICAL RESULTS (SIMULATED):



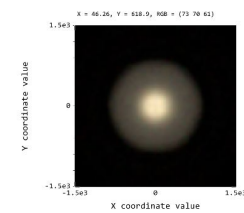
LED XHP35 HD
 FWHM / FWTM 28.0° / 77.0°
 Efficiency 92 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



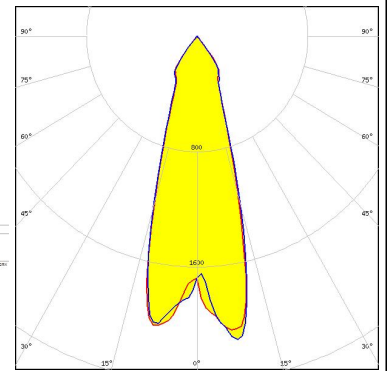
LED LUXEON 5258
 FWHM / FWTM 23.0° / 45.0°
 Efficiency 91 %
 Peak intensity 3.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



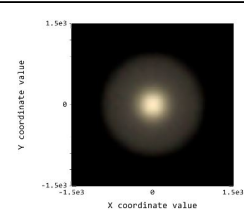
LED OSCONIQ P 7070
 FWHM / FWTM 31.0° / 72.0°
 Efficiency 88 %
 Peak intensity 2.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL



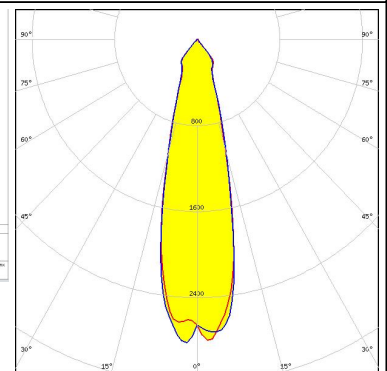
Detector image: Illuminance
 OSRAM_C12481_MIRELLA-50-M-PIN_LED_P7070
 Configuration 2 of 2



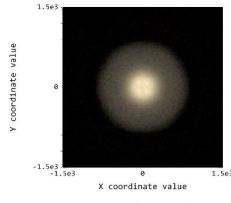
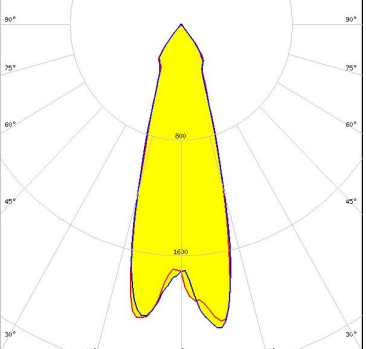
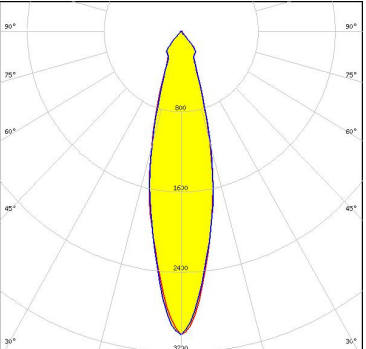
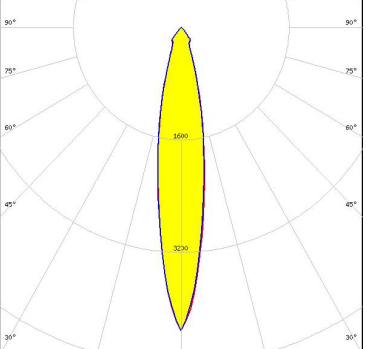
LED OSCONIQ P 7070
 FWHM / FWTM 26.0° / 63.0°
 Efficiency 91 %
 Peak intensity 2.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



Detector image: Illuminance
 OSRAM_C12481_MIRELLA-50-M-PIN_LED_P7070
 Configuration 2 of 2



OPTICAL RESULTS (SIMULATED):

<p>OSRAM Opto Semiconductors</p> <p>LED: OSCONIQ P 7070</p> <p>FWHM / FWTM: 29.0° / 70.0°</p> <p>Efficiency: 87 %</p> <p>Peak intensity: 2.3 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components: C13333_MIRELLA-CL</p>	 <p>Detector Image: Illuminance</p> <p>21.4.2024 Device: OSRAM OSCONIQ P 7070 Detector: 1000x1000 Pixels File: C:\Users\ledil\Documents\OSCONIQ_P_7070_20240818\OSCONIQ_P_7070_20240818_001.tif Total Power: 0.71244900 Lumens Configuration: 1 of 2</p>	
<p>SAMSUNG</p> <p>LED: LH351D</p> <p>FWHM / FWTM: 26.0° / 54.0°</p> <p>Efficiency: 90 %</p> <p>Peak intensity: 3 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>		
<p>SEOUL SEMICONDUCTOR</p> <p>LED: Z8Y22P</p> <p>FWHM / FWTM: 19.0° / 44.0°</p> <p>Efficiency: 89 %</p> <p>Peak intensity: 4.3 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</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.

MATERIALS:

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