

STELLA-FRESNEL

~25° beam for warehouse and outdoor lighting.
Compatible with up to 30 mm LES size COBs.
Variant with black frame.

SPECIFICATION:

Dimensions	Ø 90.0 mm
Height	23 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes ⓘ

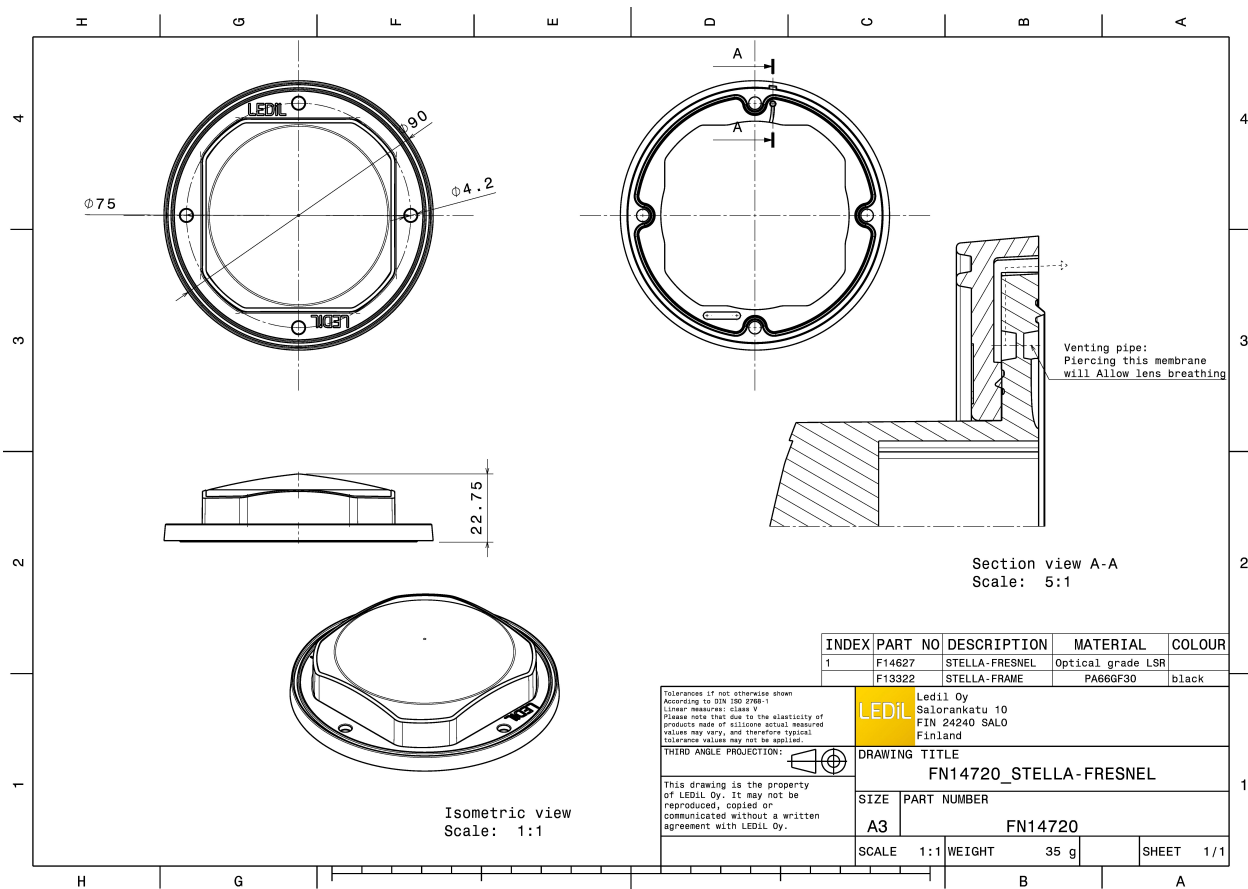


MATERIALS:

Component	Type	Material	Colour	Finish
STELLA-FRESNEL	Single lens	Silicone	clear	
STELLA-FRAME	Holder	PA66	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FN14720_STELLA-FRESNEL	Single lens	80	80	10	4.0
» Box size: 480 x 280 x 300 mm					

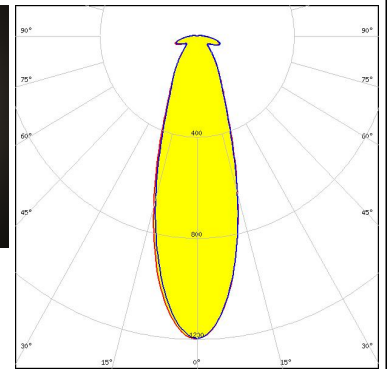
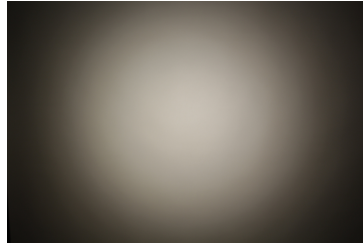


See also our general installation guide: www.ledil.com/installation_guide

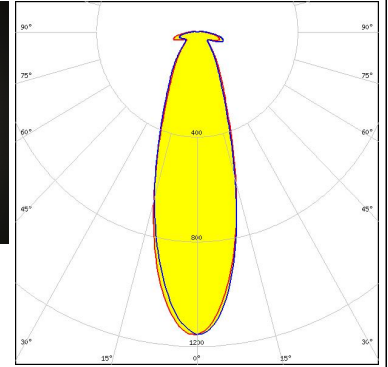
OPTICAL RESULTS (MEASURED):



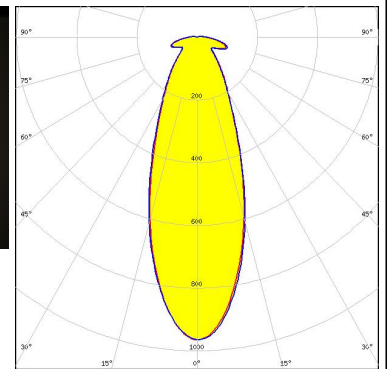
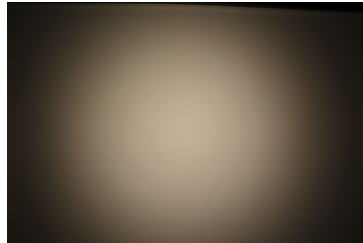
LED V18 Gen7
FWHM / FWTM 32.0° / 77.0°
Efficiency 85 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
Bender Wirth: 439 Typ L3



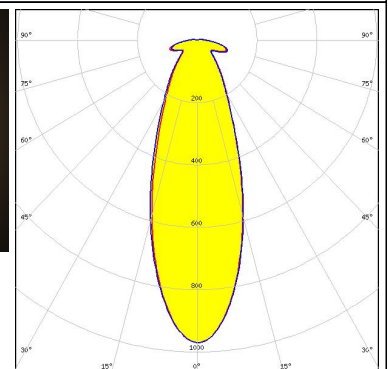
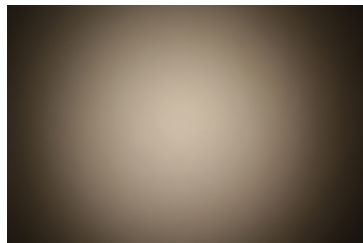
LED V18 Gen7
FWHM / FWTM 32.0° / 77.0°
Efficiency 84 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2350



LED V22 Gen7
FWHM / FWTM 37.0° / 118.0°
Efficiency 86 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
TE Connectivity: 2213480-1



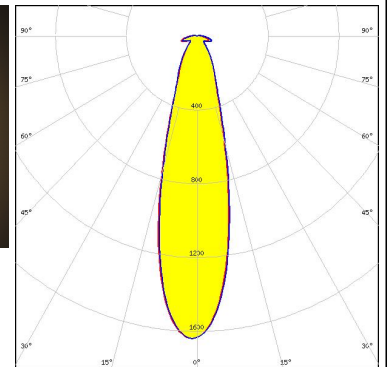
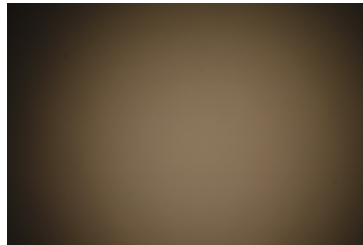
LED V22 Gen7
FWHM / FWTM 36.0° / 118.0°
Efficiency 84 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
Bender Wirth: 431 Typ Z1



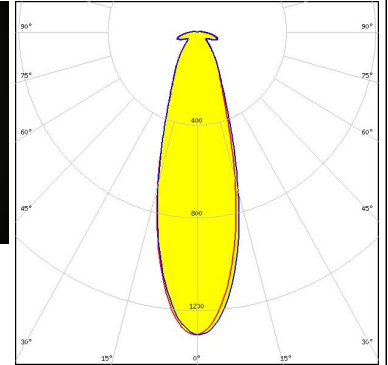
OPTICAL RESULTS (MEASURED):



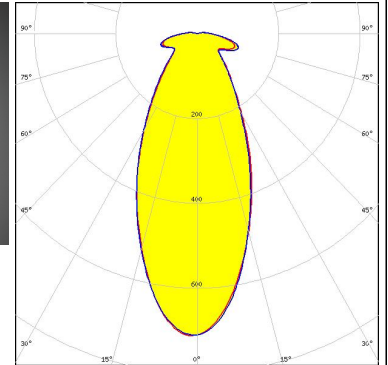
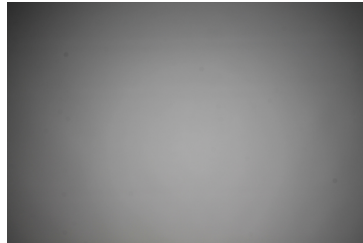
LED Vero SE 13
FWHM / FWTM 27.0° / 63.0°
Efficiency 85 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



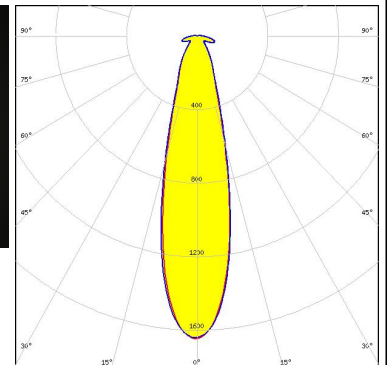
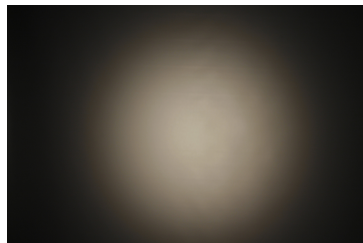
LED Vero SE 18
FWHM / FWTM 31.0° / 73.0°
Efficiency 86 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED Vero SE 29
FWHM / FWTM 46.0° / 161.0°
Efficiency 87 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



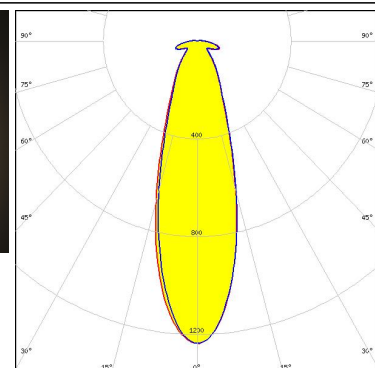
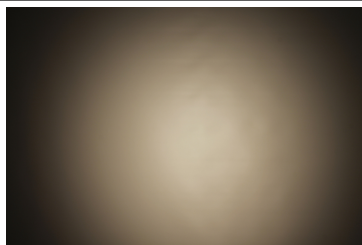
LED VERO13
FWHM / FWTM 26.0° / 62.0°
Efficiency 84 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



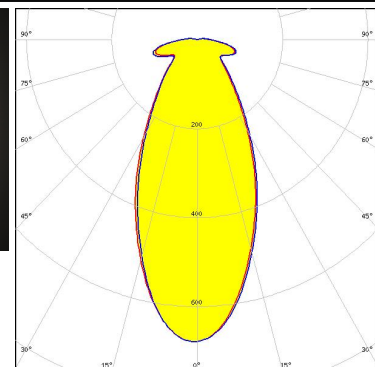
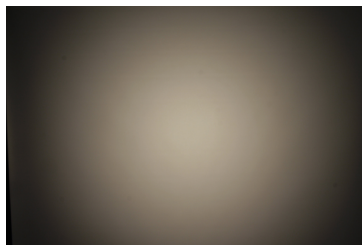
OPTICAL RESULTS (MEASURED):



LED VERO18
FWHM / FWTM 31.0° / 75.0°
Efficiency 85 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:

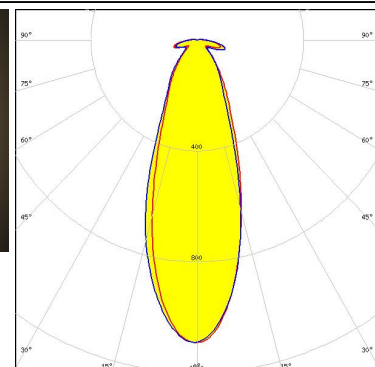
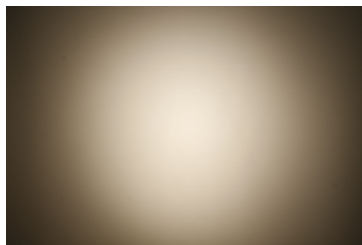


LED VERO29
FWHM / FWTM 48.0° / 165.0°
Efficiency 87 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:

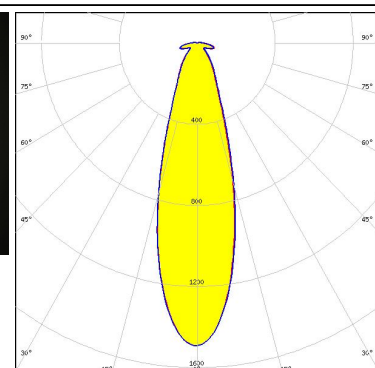
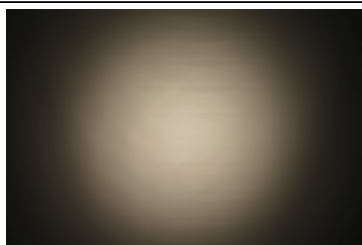


CITIZEN

LED CLL04x/CLU04x
FWHM / FWTM 36.0° / 99.0°
Efficiency 86 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



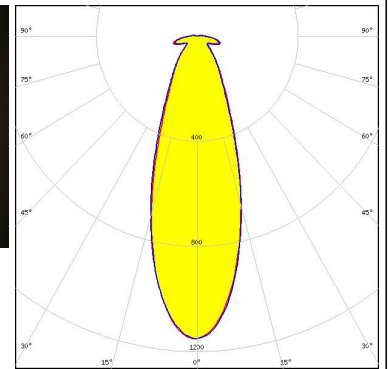
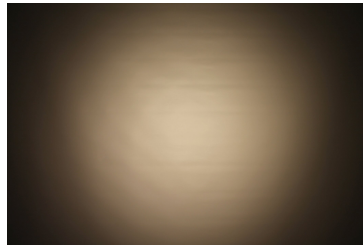
LED CMA2550
FWHM / FWTM 30.0° / 67.0°
Efficiency 86 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



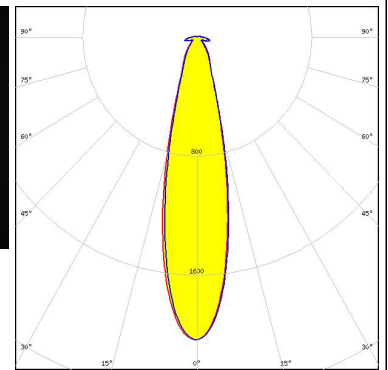
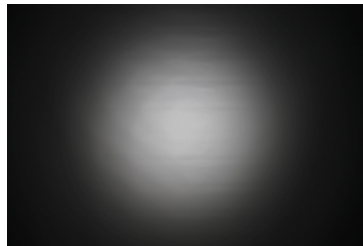
OPTICAL RESULTS (MEASURED):



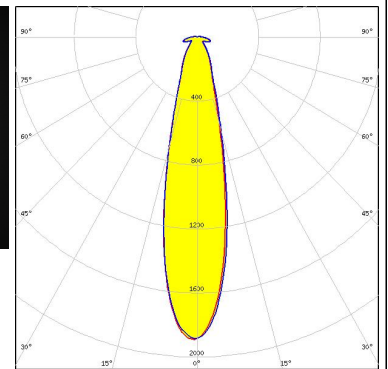
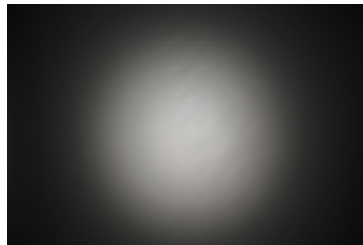
LED CMA3090
FWHM / FWTM 35.0° / 79.0°
Efficiency 88 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



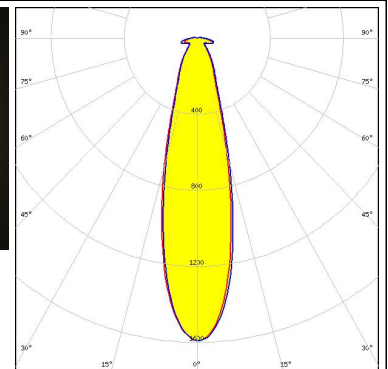
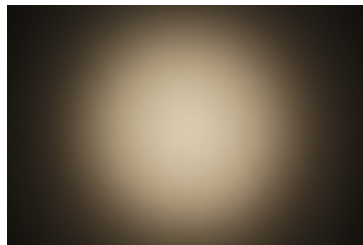
LED CMT19xx
FWHM / FWTM 25.0° / 54.0°
Efficiency 87 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
Bender Wirth: 477 Typ Z1



LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM 24.0° / 57.0°
Efficiency 84 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



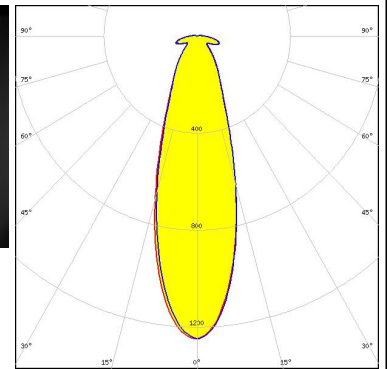
LED CXA/B 1830
FWHM / FWTM 26.0° / 64.0°
Efficiency 85 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14305_STELLA-CLAMP-CXA15-18



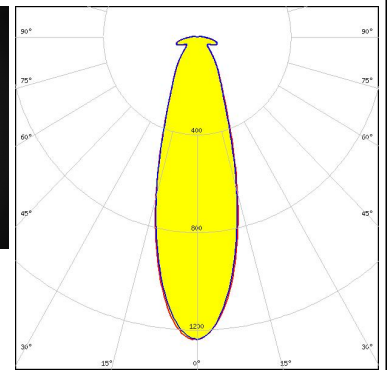
OPTICAL RESULTS (MEASURED):



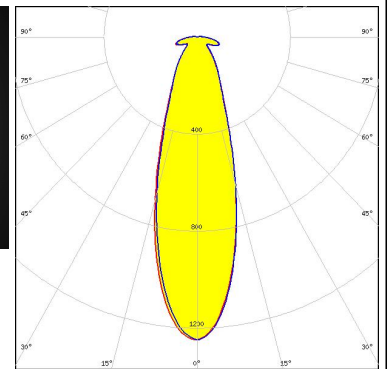
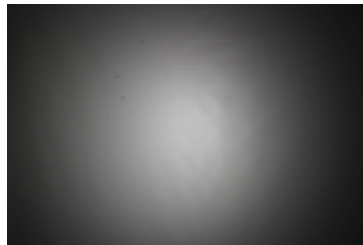
LED CXA/B 25xx
FWHM / FWTM 31.0° / 75.0°
Efficiency 86 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



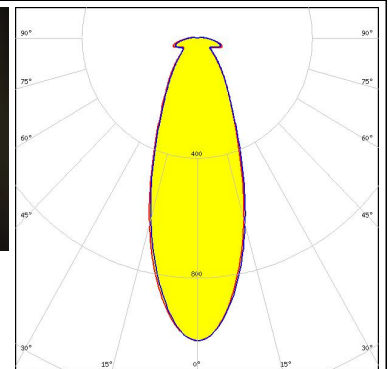
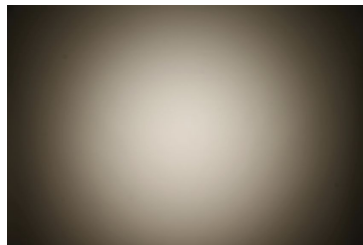
LED CXA/B 25xx
FWHM / FWTM 32.0° / 76.0°
Efficiency 85 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
Bender Wirth: 439 Typ L3



LED CXA/B 25xx
FWHM / FWTM 33.0° / 120.0°
Efficiency 84 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



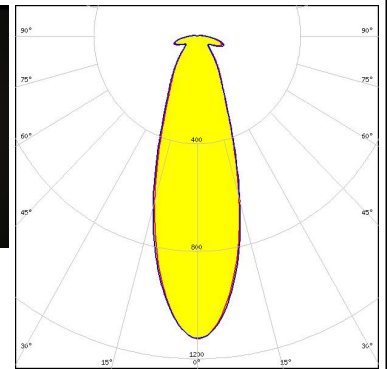
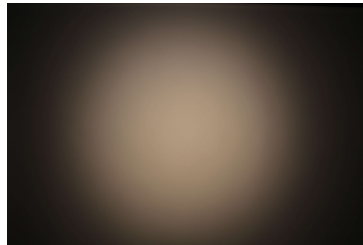
LED CXA/B 30xx
FWHM / FWTM 37.0° / 87.0°
Efficiency 88 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
BJB: 47.319.2151



OPTICAL RESULTS (MEASURED):

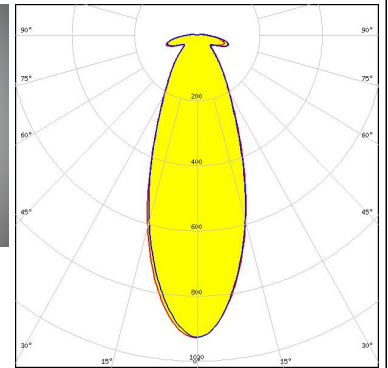
LUMILEDS

LED LUXEON CoB 1211
 FWHM / FWTM 33.0° / 79.0°
 Efficiency 85 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 431 Typ L3



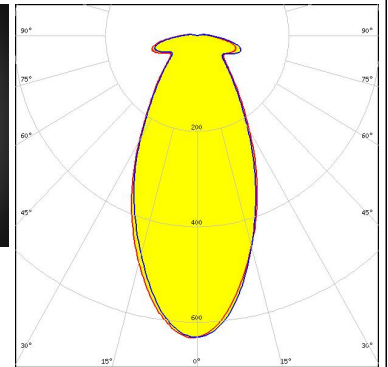
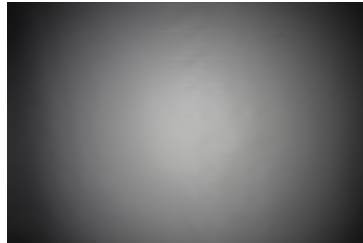
LUMILEDS

LED LUXEON CoB 1213/1216/1812
 FWHM / FWTM 39.0° / 139.0°
 Efficiency 86 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



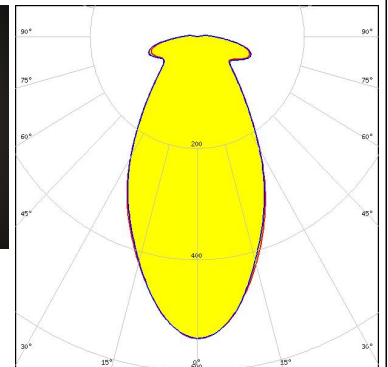
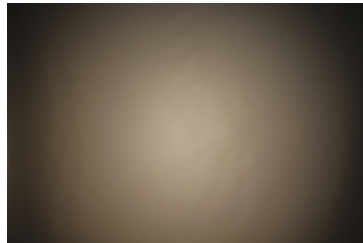
LUMILEDS

LED LUXEON CoB 1321
 FWHM / FWTM 50.0° / 165.0°
 Efficiency 85 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LUMILEDS

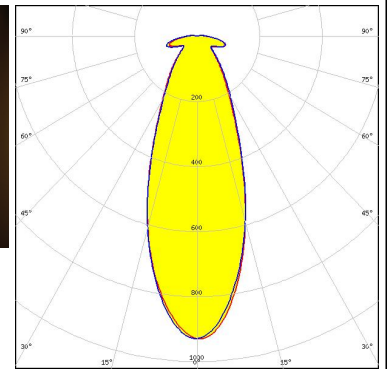
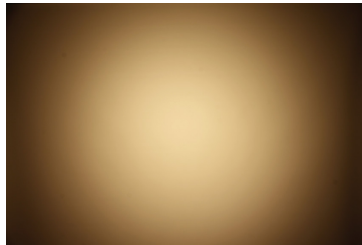
LED LUXEON CoB 1825
 FWHM / FWTM 56.0° / 169.0°
 Efficiency 84 %
 Peak intensity 0.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



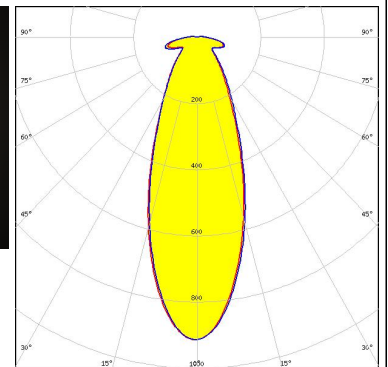
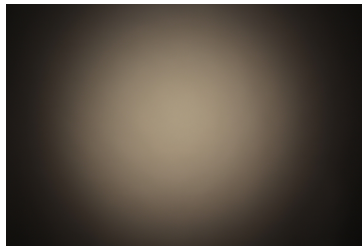
OPTICAL RESULTS (MEASURED):



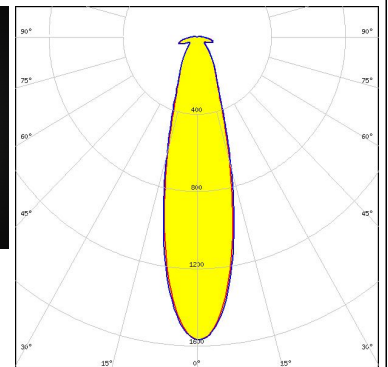
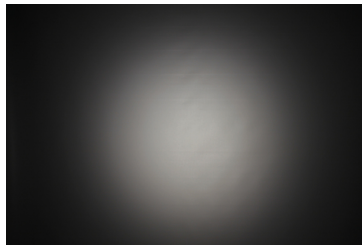
LED CxM-22 (28x28)
 FWHM / FWTM 38.0° / 136.0°
 Efficiency 86 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 431 Typ L3



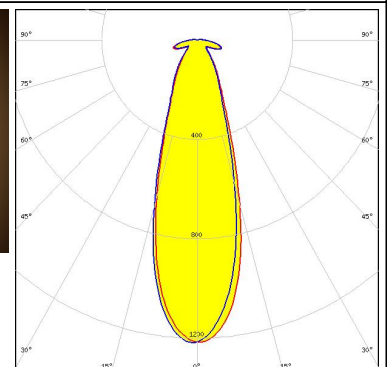
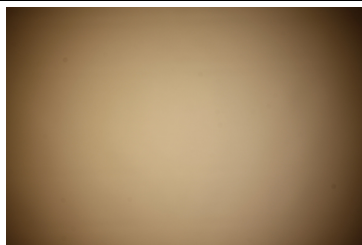
LED COB H-Type
 FWHM / FWTM 38.0° / 120.0°
 Efficiency 85 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED COB J-Type
 FWHM / FWTM 26.0° / 65.0°
 Efficiency 85 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



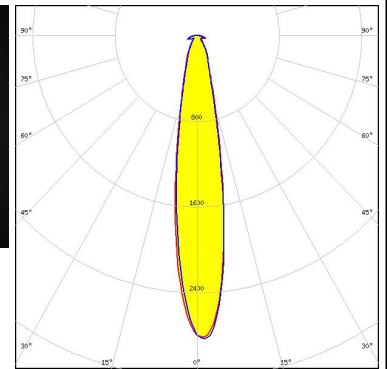
LED Soleriq S19
 FWHM / FWTM 32.1° / 72.5°
 Efficiency 84 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

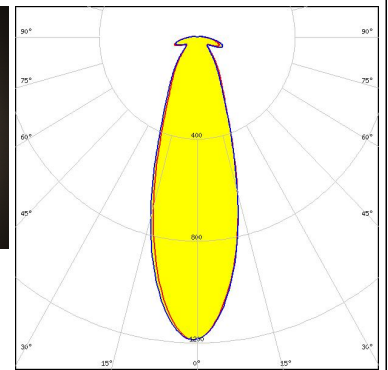
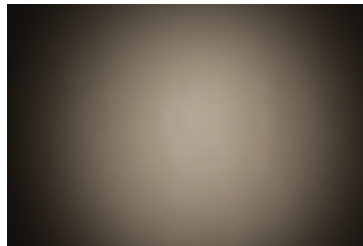
PHILIPS

LED Fortimo SLM L06 CoB
 FWHM / FWTM 18.0° / 44.0°
 Efficiency 86 %
 Peak intensity 2.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



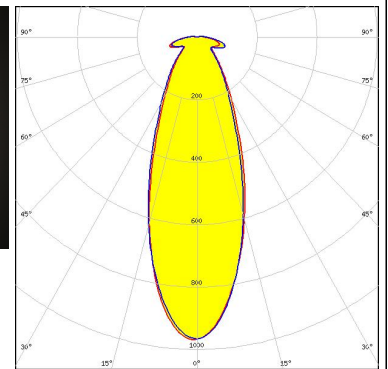
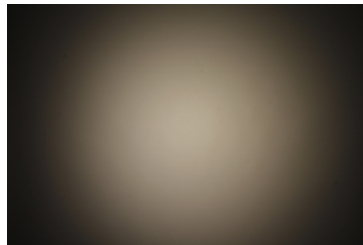
PHILIPS

LED Fortimo SLM L19 + SLM holder (PI)
 FWHM / FWTM 33.0° / 78.0°
 Efficiency 87 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



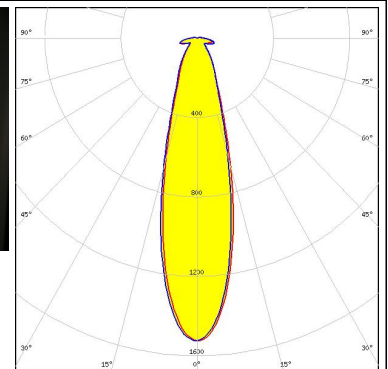
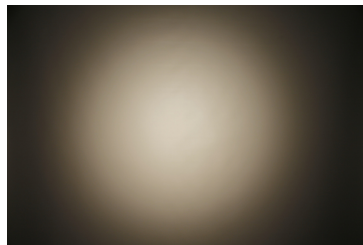
PHILIPS

LED Fortimo SLM L23 CoB
 FWHM / FWTM 38.0° / 87.0°
 Efficiency 87 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



SAMSUNG

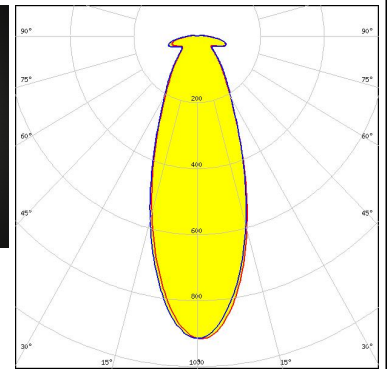
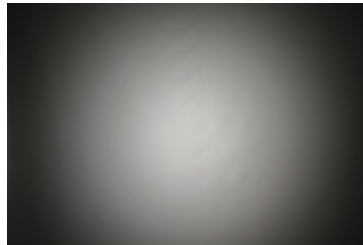
LED LC016D / LC019D / LC026D / LC033D
 FWHM / FWTM 27.0° / 65.0°
 Efficiency 83 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



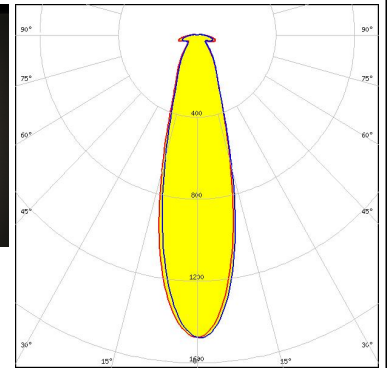
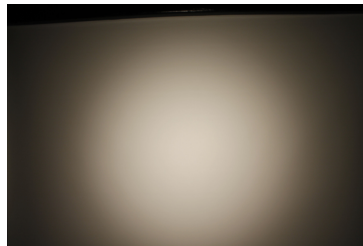
OPTICAL RESULTS (MEASURED):

SAMSUNG

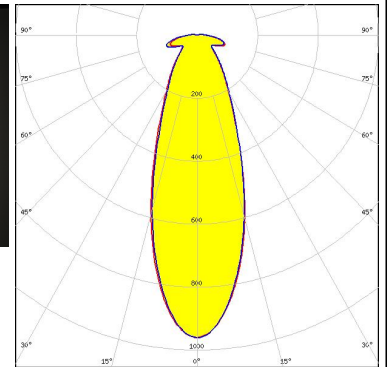
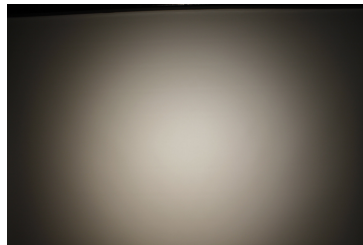
LED LC040D / LC060D / LC080D
 FWHM / FWTM 37.0° / 119.0°
 Efficiency 84 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



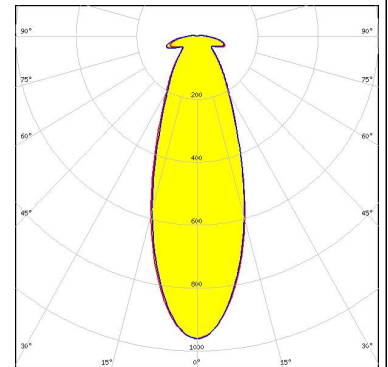
SEOUL SEMICONDUCTOR
 LED MJT COB LES 14.5
 FWHM / FWTM 28.0° / 67.0°
 Efficiency 84 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2103CT



SEOUL SEMICONDUCTOR
 LED MJT COB LES 22
 FWHM / FWTM 36.0° / 118.0°
 Efficiency 84 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2204CT



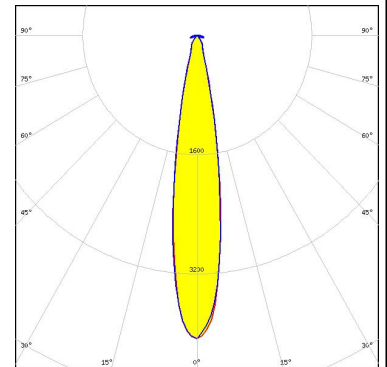
SEOUL SEMICONDUCTOR
 LED MJT COB LES 22
 FWHM / FWTM 36.0° / 118.0°
 Efficiency 84 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2204CT



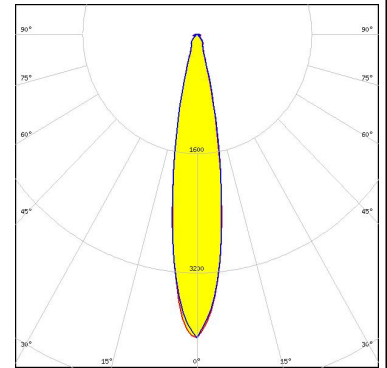
OPTICAL RESULTS (SIMULATED):



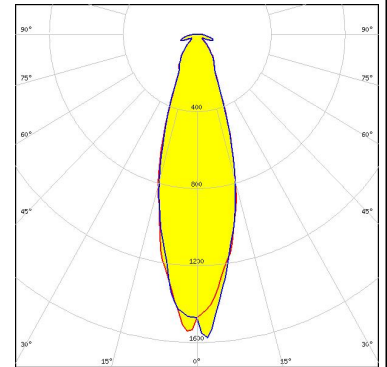
LED V10 Gen7
FWHM / FWTM 18.0° / 35.0°
Efficiency 85 %
Peak intensity 4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
Bender Wirth: 486 Typ L1



LED V13 Gen7
FWHM / FWTM 20.0° / 90.0°
Efficiency 86 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:

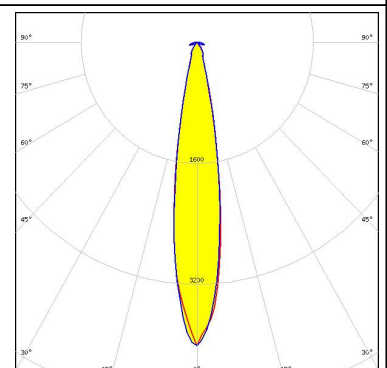


LED V22 Gen7
FWHM / FWTM 30.0° / 70.0°
Efficiency 84 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
IDEAL: 50-2204CT



CITIZEN

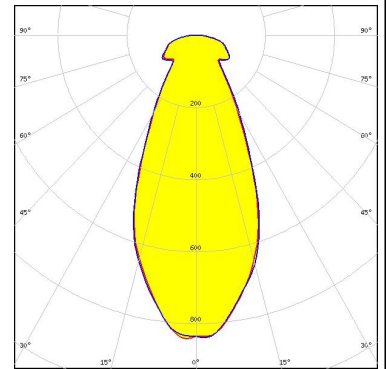
LED CLL02x/CLU02x (LES10)
FWHM / FWTM 17.0° / 35.0°
Efficiency 86 %
Peak intensity 4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



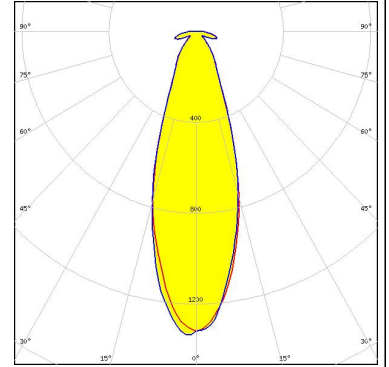
OPTICAL RESULTS (SIMULATED):

CITIZEN

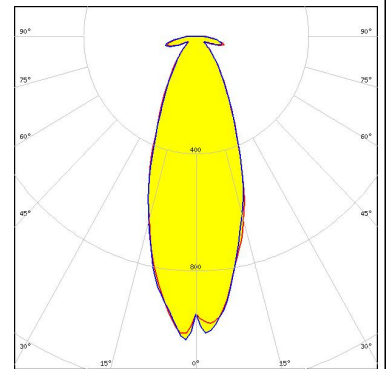
LED CLL05x/CLU05x
 FWHM / FWTM 46.0° / 144.0°
 Efficiency 91 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



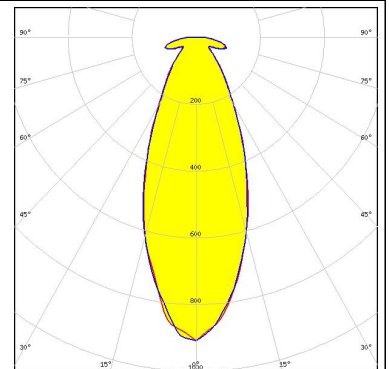
LED CMB3090
 FWHM / FWTM 34.0° / 74.0°
 Efficiency 85 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED CXA/B 3590
 FWHM / FWTM 37.0° / 80.0°
 Efficiency 83 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED CXA/B 3590
 FWHM / FWTM 42.0° / 153.0°
 Efficiency 85 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

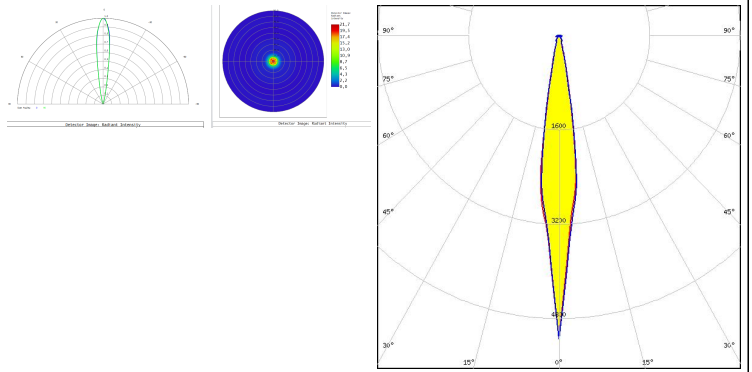


OPTICAL RESULTS (SIMULATED):

LITEON

LED LTPL-G35UV275GR-E
FWHM / FWTM 16.0° / 26.0°
Efficiency 61 %
LEDs/each optic 4
Light colour UV-C
Required components:

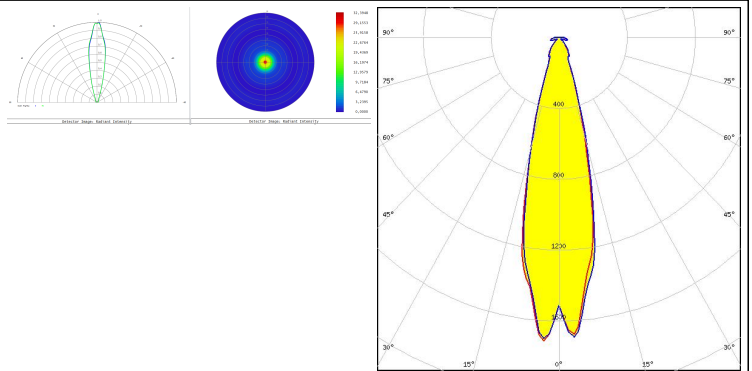
The UVC LED result tolerance is ± 10 %



LITEON

LED LTPL-G35UV275GR-E
FWHM / FWTM 23.0° / 40.0°
Efficiency 59 %
LEDs/each optic 13
Light colour UV-C
Required components:

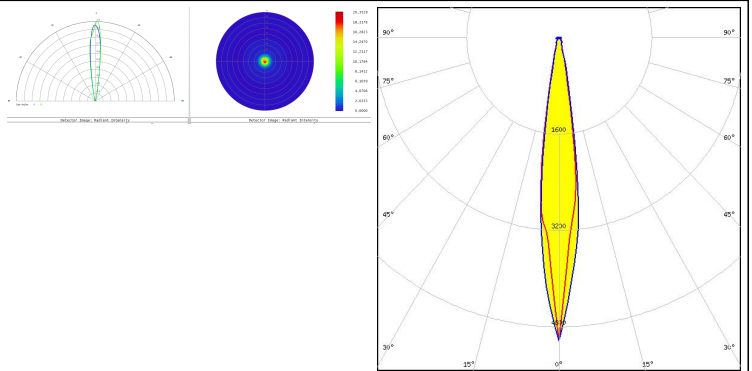
The UVC LED result tolerance is ± 10 %



LITEON

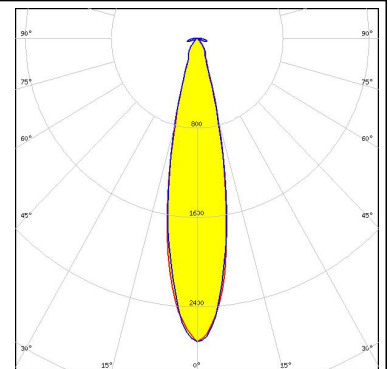
LED LTPL-G35UV275GR-E
FWHM / FWTM 14.0° / 25.0°
Efficiency 60 %
LEDs/each optic 3
Light colour UV-C
Required components:

The UVC LED result tolerance is ± 10 %



LUMILEDS

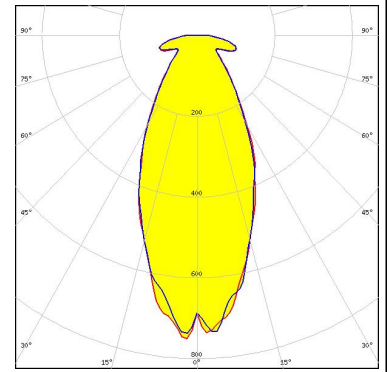
LED LUXEON CoB 1208
FWHM / FWTM 23.0° / 43.0°
Efficiency 82 %
Peak intensity 2.8 cd/Im
LEDs/each optic 1
Light colour White
Required components:



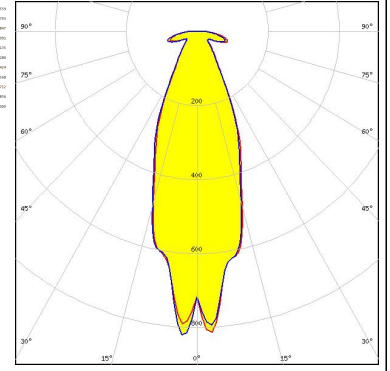
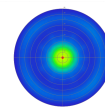
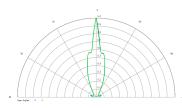
OPTICAL RESULTS (SIMULATED):



LED CXM-32
FWHM / FWTM 47.0° / 98.0°
Efficiency 85 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



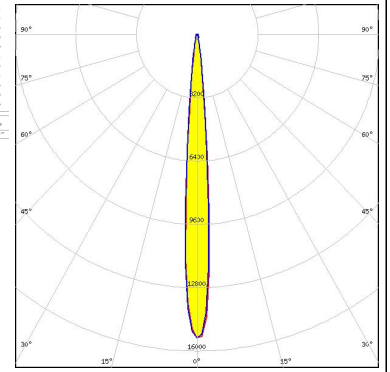
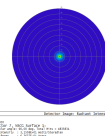
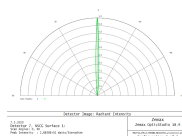
LED XFM-5050 3 Die
FWHM / FWTM 26.0° / 62.0°
Efficiency 66 %
LEDs/each optic 21
Light colour UV-C
Required components:



The UVC LED result tolerance is ± 10 %



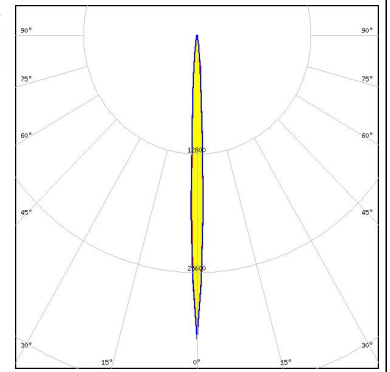
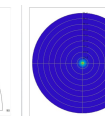
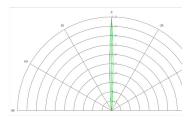
LED NCSU334A
FWHM / FWTM 4.0° / 12.0°
Efficiency 64 %
LEDs/each optic 1
Light colour UV-C
Required components:



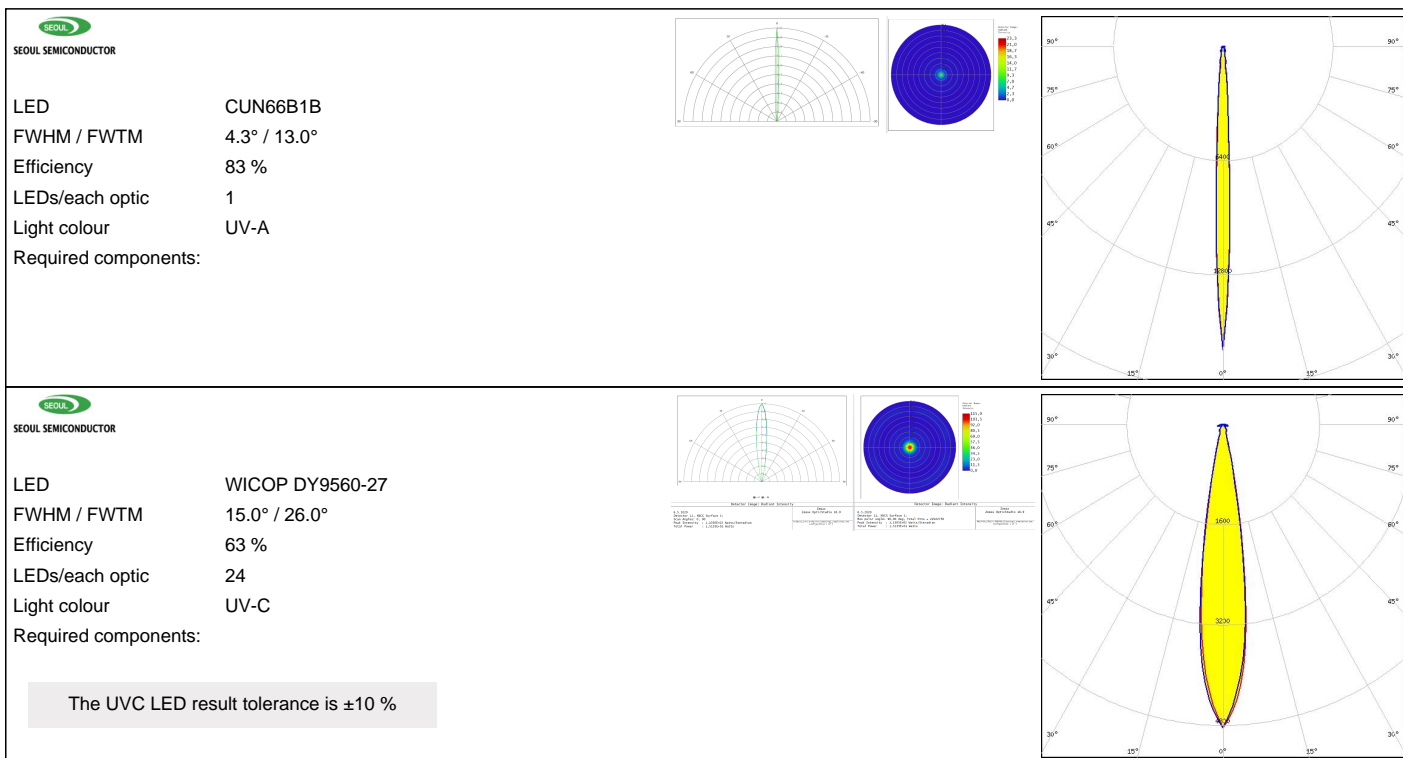
The UVC LED result tolerance is ± 10 %



LED CUN66A1B
FWHM / FWTM 4.1° / 12.0°
Efficiency 85 %
LEDs/each optic 1
Light colour UV-A
Required components:



OPTICAL RESULTS (SIMULATED):



GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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