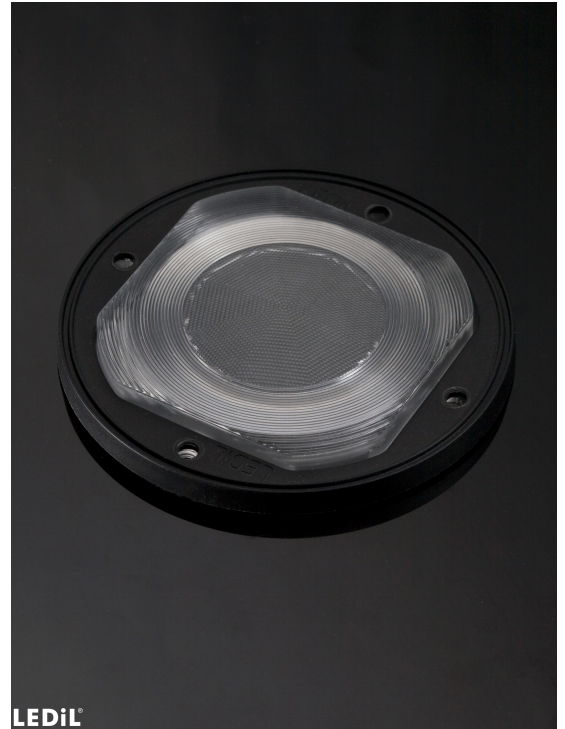


STELLA-HB-WWW

~100° very wide 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	11.3 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes ⓘ

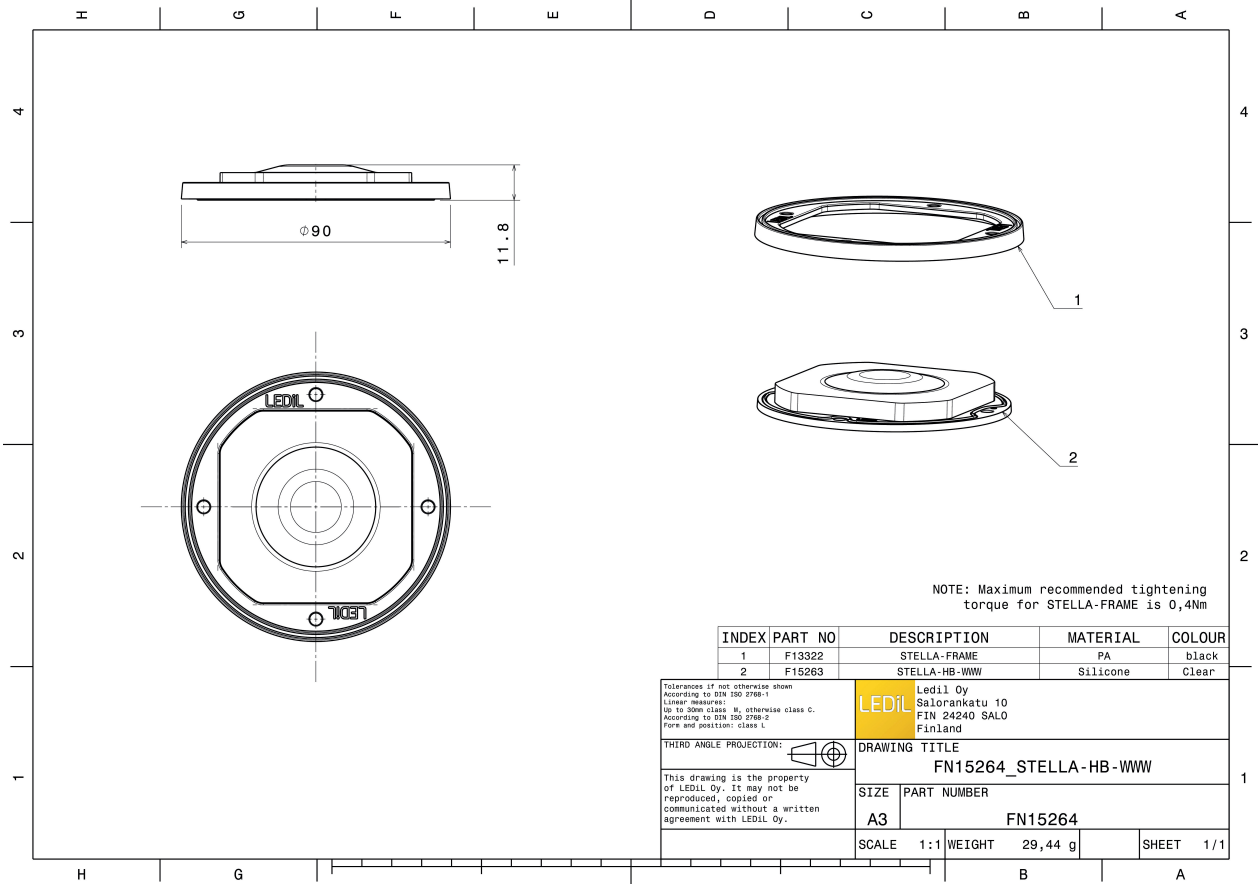


MATERIALS:

Component	Type	Material	Colour	Finish	Length
STELLA-HB-WWW	Single lens	Silicone	clear		85.0
STELLA-FRAME	Holder	PA66	black		90.0

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FN15264_STELLA-HB-WWW	Single lens	135	135	15	5.0
» Box size: 480 x 280 x 300 mm					

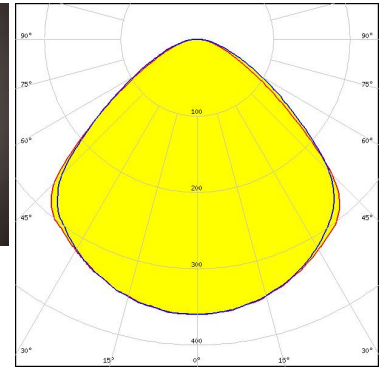
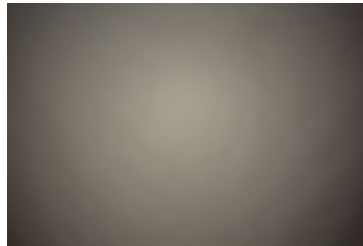


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

bridgelux

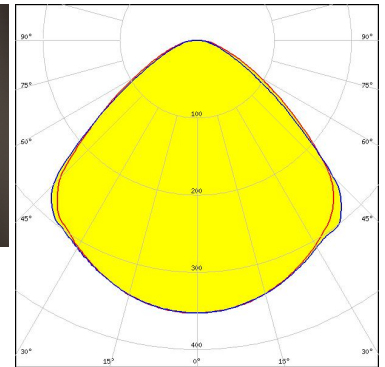
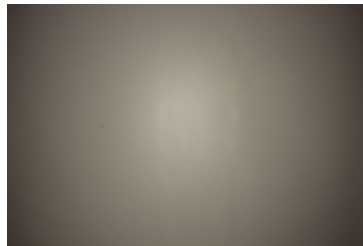
LED V18 Gen7
 FWHM / FWTM 102.0° / 144.0°
 Efficiency 90 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 Bender Wirth: 439 Typ L3



Light distribution files

bridgelux

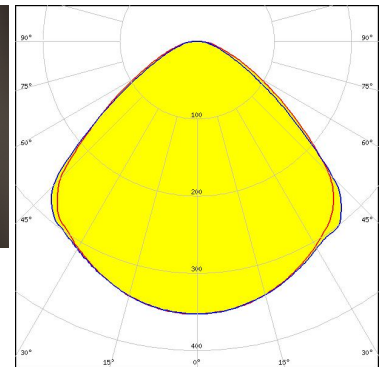
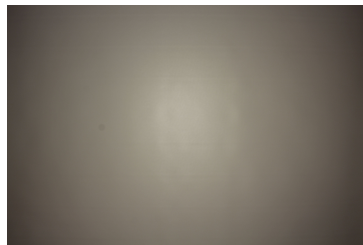
LED V18 Gen7
 FWHM / FWTM 102.0° / 145.0°
 Efficiency 87 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 BJB: 47.319.2350



Light distribution files

bridgelux

LED V18 Gen7
 FWHM / FWTM 101.0° / 144.0°
 Efficiency 88 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

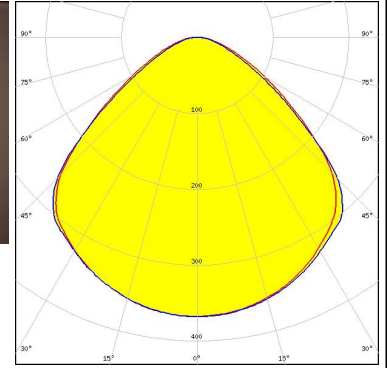
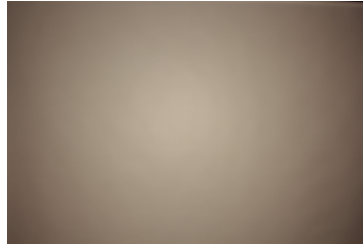


Light distribution files

OPTICAL RESULTS (MEASURED):



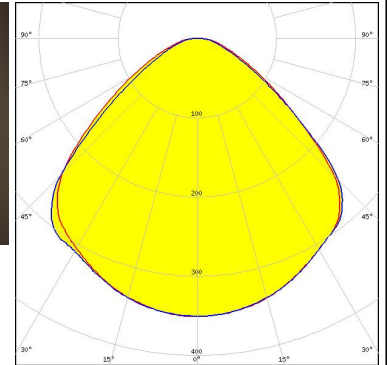
LED V22 Gen7
FWHM / FWTM 102.0° / 146.0°
Efficiency 92 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 TE Connectivity: 2213480-1



Light distribution files



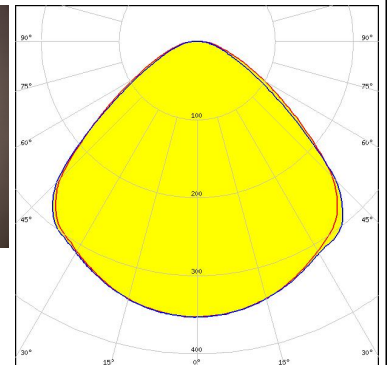
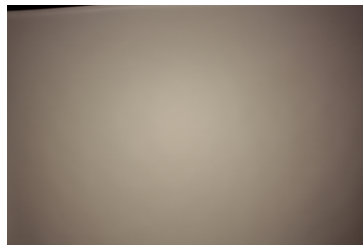
LED V22 Gen7
FWHM / FWTM 101.0° / 147.0°
Efficiency 87 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED V22 Gen7
FWHM / FWTM 102.0° / 147.0°
Efficiency 89 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 Bender Wirth: 431 Typ Z1

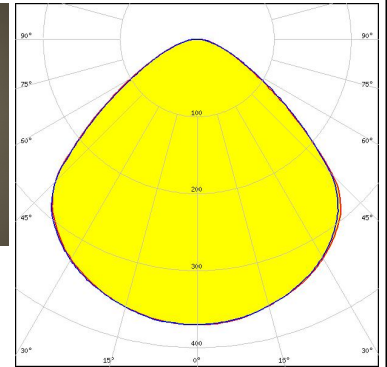


Light distribution files

OPTICAL RESULTS (MEASURED):



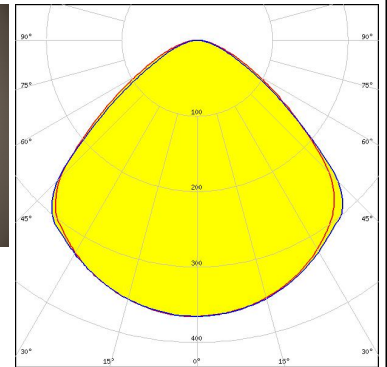
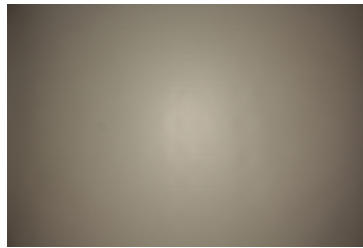
LED Vero SE 13
 FWHM / FWTM 101.0° / 142.0°
 Efficiency 90 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



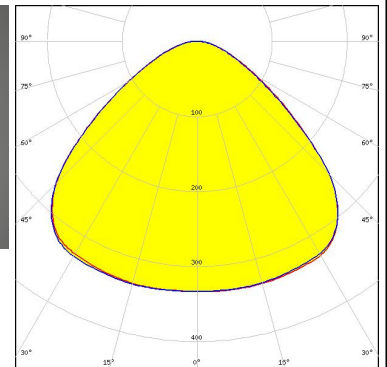
LED Vero SE 18
 FWHM / FWTM 101.0° / 144.0°
 Efficiency 90 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED Vero SE 29
 FWHM / FWTM 105.0° / 149.0°
 Efficiency 92 %
 Peak intensity 0.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

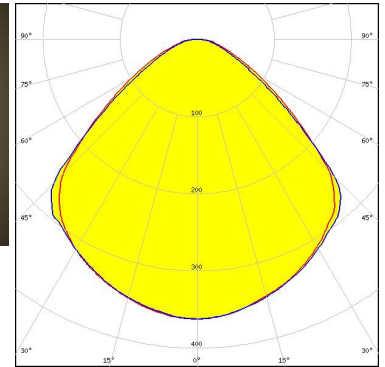
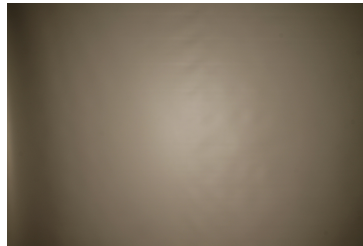


Light distribution files

OPTICAL RESULTS (MEASURED):



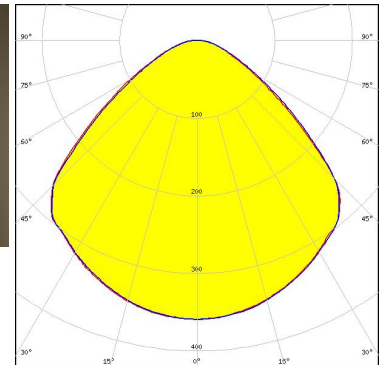
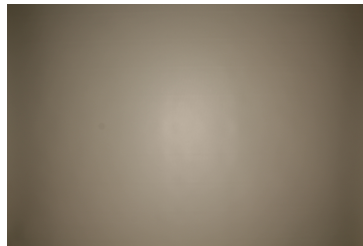
LED VERO13
 FWHM / FWTM 100.0° / 145.0°
 Efficiency 88 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



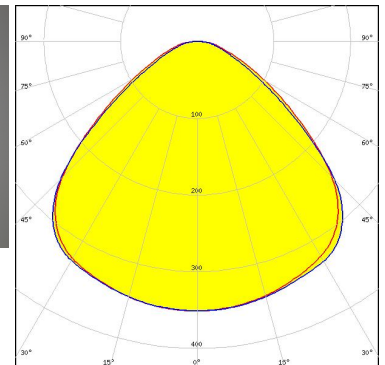
LED VERO18
 FWHM / FWTM 102.0° / 144.0°
 Efficiency 89 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED VERO29
 FWHM / FWTM 103.0° / 148.0°
 Efficiency 91 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

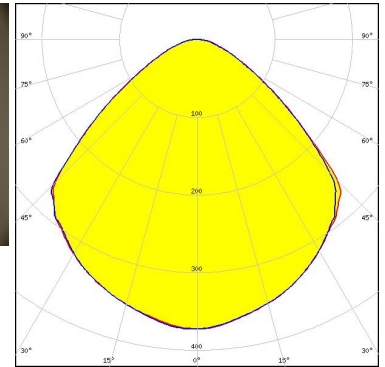
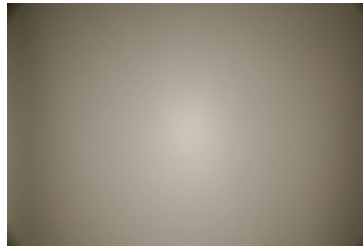


Light distribution files

OPTICAL RESULTS (MEASURED):

CITIZEN

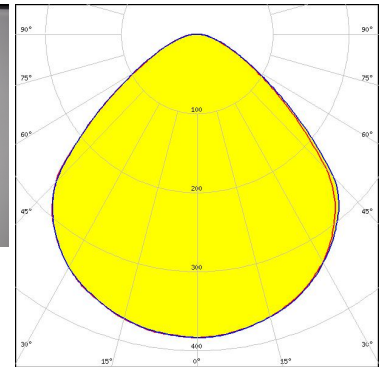
LED CLL02x/CLU02x (LES10)
FWHM / FWTM 100.0° / 142.0°
Efficiency 88 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

CITIZEN

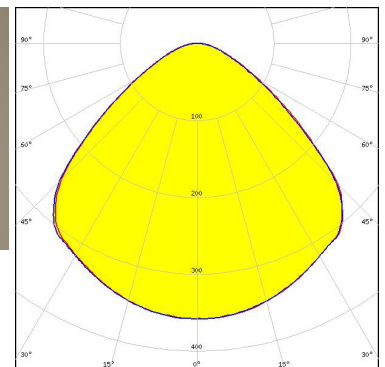
LED CLL02x/CLU02x (LES10)
FWHM / FWTM 100.0° / 143.0°
Efficiency 92 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15255_HEKLA-SOCKET-C



Light distribution files

CITIZEN

LED CLL04x/CLU04x
FWHM / FWTM 102.0° / 144.0°
Efficiency 89 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

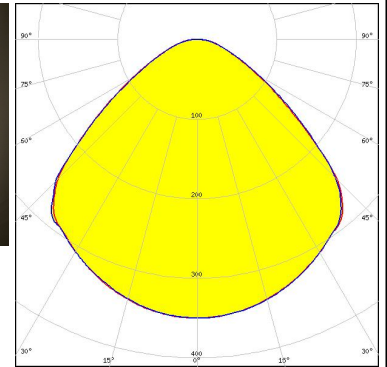
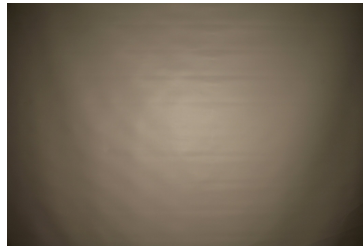


Light distribution files

OPTICAL RESULTS (MEASURED):



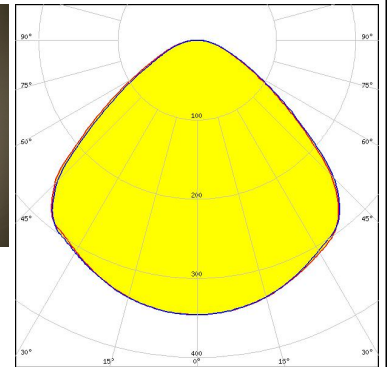
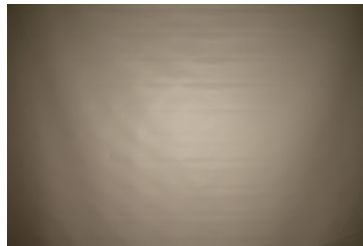
LED CMA2550
 FWHM / FWTM 102.0° / 145.0°
 Efficiency 88 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



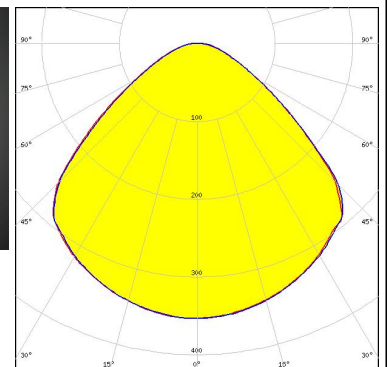
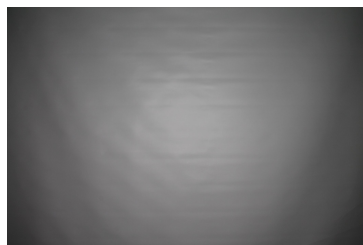
LED CMA3090
 FWHM / FWTM 102.0° / 147.0°
 Efficiency 88 %
 Peak intensity 0.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED CMT19xx
 FWHM / FWTM 101.0° / 145.0°
 Efficiency 89 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 Bender Wirth: 477 Typ Z1

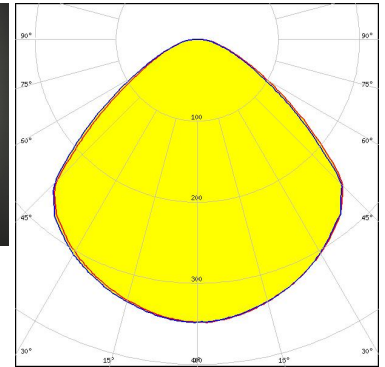
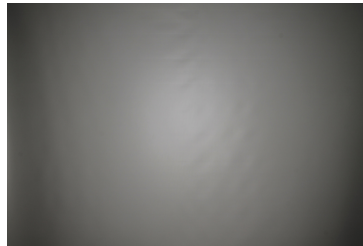


Light distribution files

OPTICAL RESULTS (MEASURED):



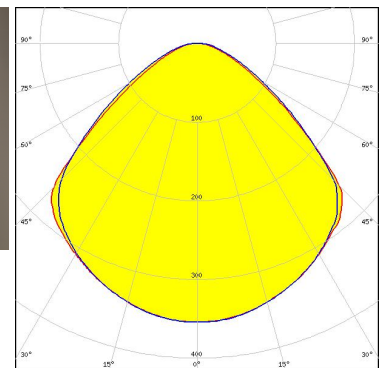
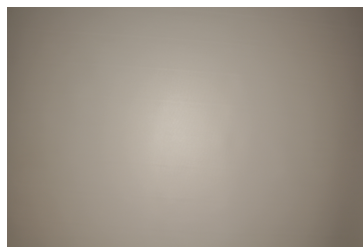
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM / FWTM 102.0° / 146.0°
 Efficiency 87 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



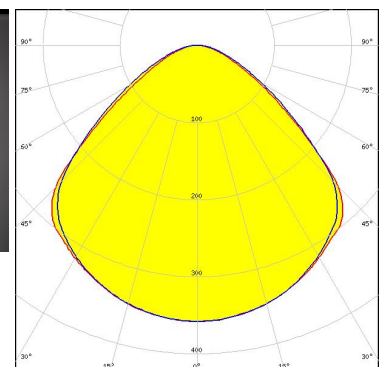
LED CXA/B 1830
 FWHM / FWTM 102.0° / 145.0°
 Efficiency 88 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C14305_STELLA-CLAMP-CXA15-18



Light distribution files



LED CXA/B 25xx
 FWHM / FWTM 101.0° / 145.0°
 Efficiency 90 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 Bender Wirth: 439 Typ L3

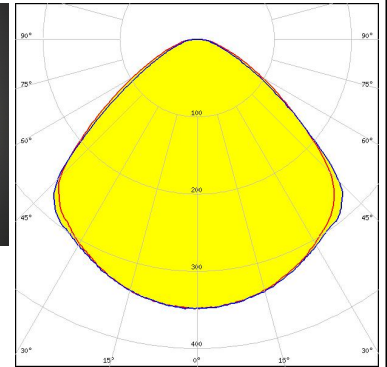


Light distribution files

OPTICAL RESULTS (MEASURED):



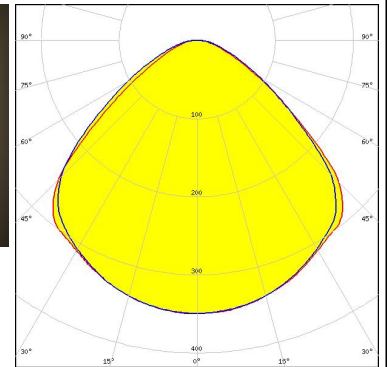
LED CXA/B 25xx
 FWHM / FWTM 102.0° / 144.0°
 Efficiency 88 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



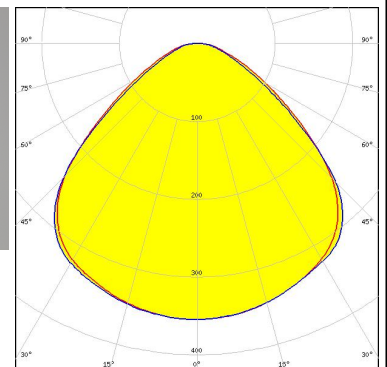
LED CXA/B 30xx
 FWHM / FWTM 102.0° / 144.0°
 Efficiency 88 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED CXA/B 3590
 FWHM / FWTM 102.0° / 147.0°
 Efficiency 90 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

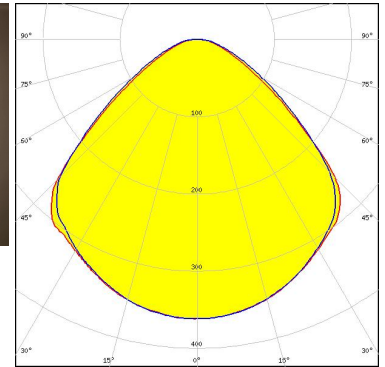
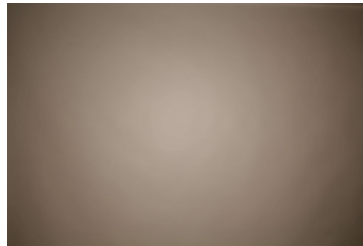


Light distribution files

OPTICAL RESULTS (MEASURED):



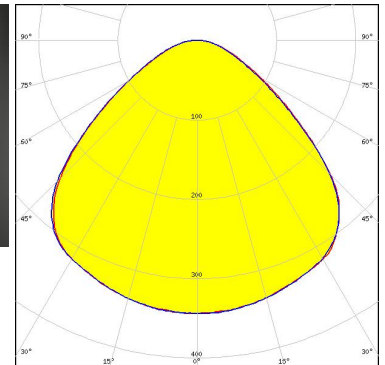
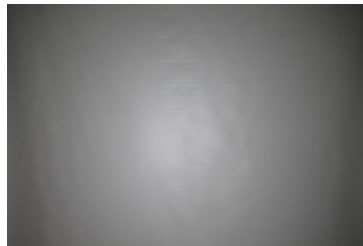
LED LUXEON CoB 1211
 FWHM / FWTM 101.0° / 144.0°
 Efficiency 89 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 Bender Wirth: 431 Typ L3



Light distribution files



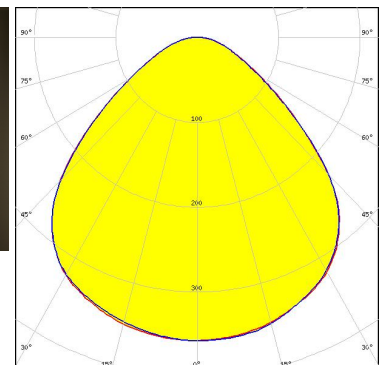
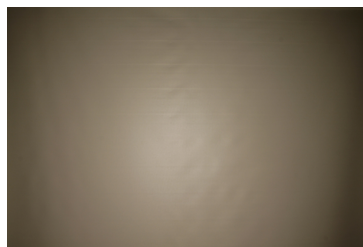
LED LUXEON CoB 1321
 FWHM / FWTM 102.0° / 149.0°
 Efficiency 89 %
 Peak intensity 0.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON CoB 1825
 FWHM / FWTM 100.0° / 147.0°
 Efficiency 88 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

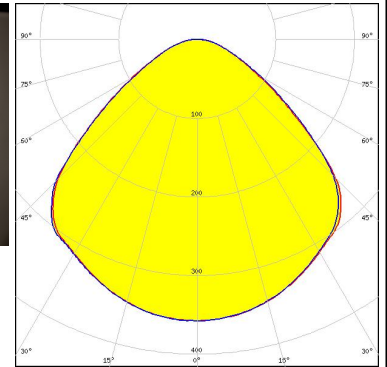


Light distribution files

OPTICAL RESULTS (MEASURED):



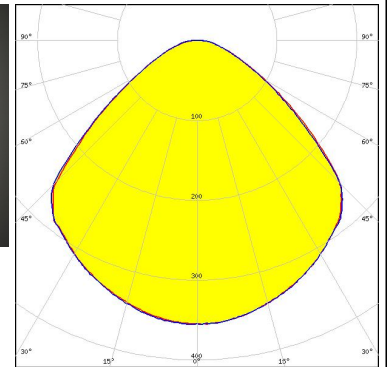
LED COB H-Type
FWHM / FWTM 101.0° / 146.0°
Efficiency 89 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



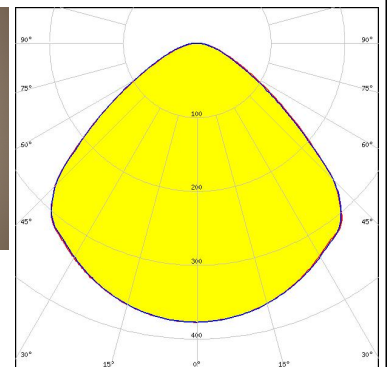
LED COB J-Type
FWHM / FWTM 102.0° / 145.0°
Efficiency 88 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED Fortimo SLM L19 + SLM holder (PI)
FWHM / FWTM 101.0° / 142.0°
Efficiency 93 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

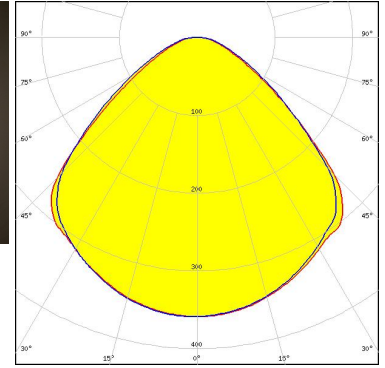
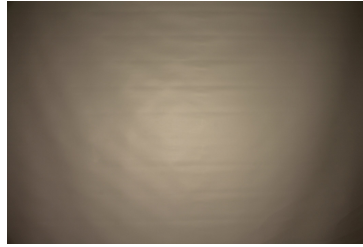


Light distribution files

OPTICAL RESULTS (MEASURED):

PHILIPS

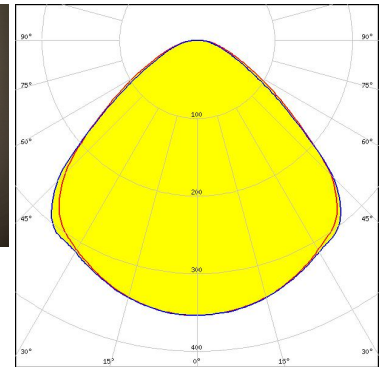
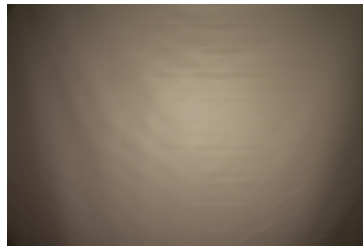
LED Fortimo SLM L19 CoB
FWHM / FWTM 100.0° / 144.0°
Efficiency 88 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
Bender Wirth: 431 Typ Z1



Light distribution files

PHILIPS

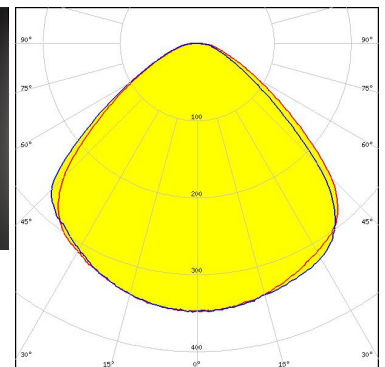
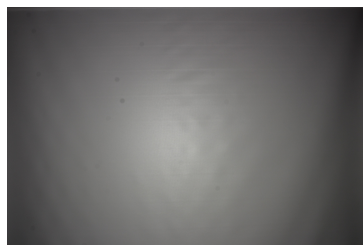
LED Fortimo SLM L23 CoB
FWHM / FWTM 100.0° / 145.0°
Efficiency 88 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
Bender Wirth: 431 Typ Z1



Light distribution files

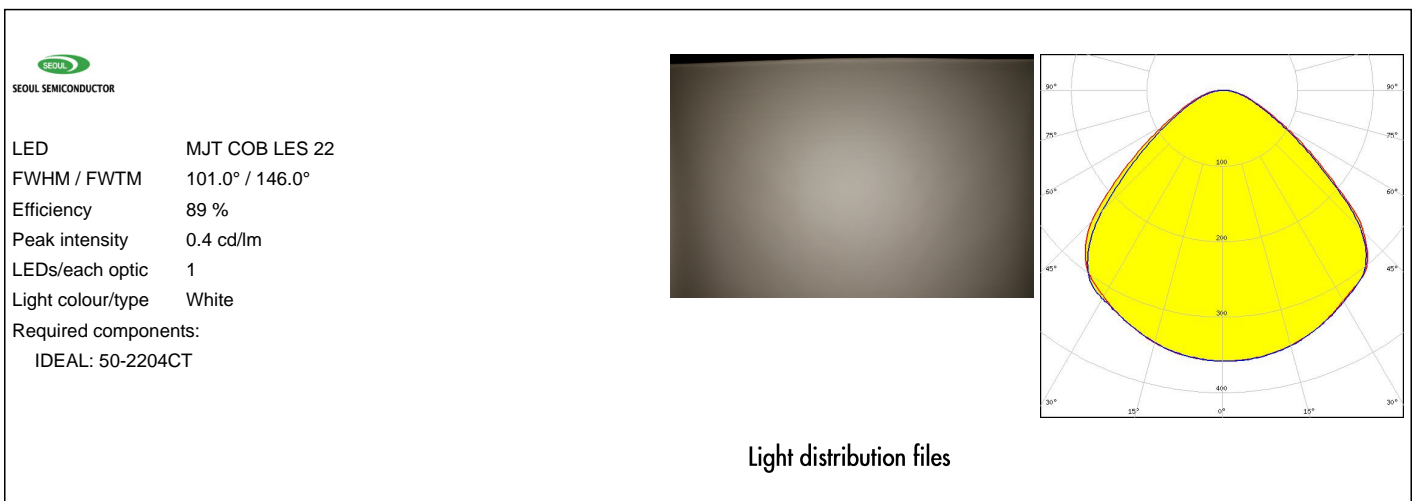
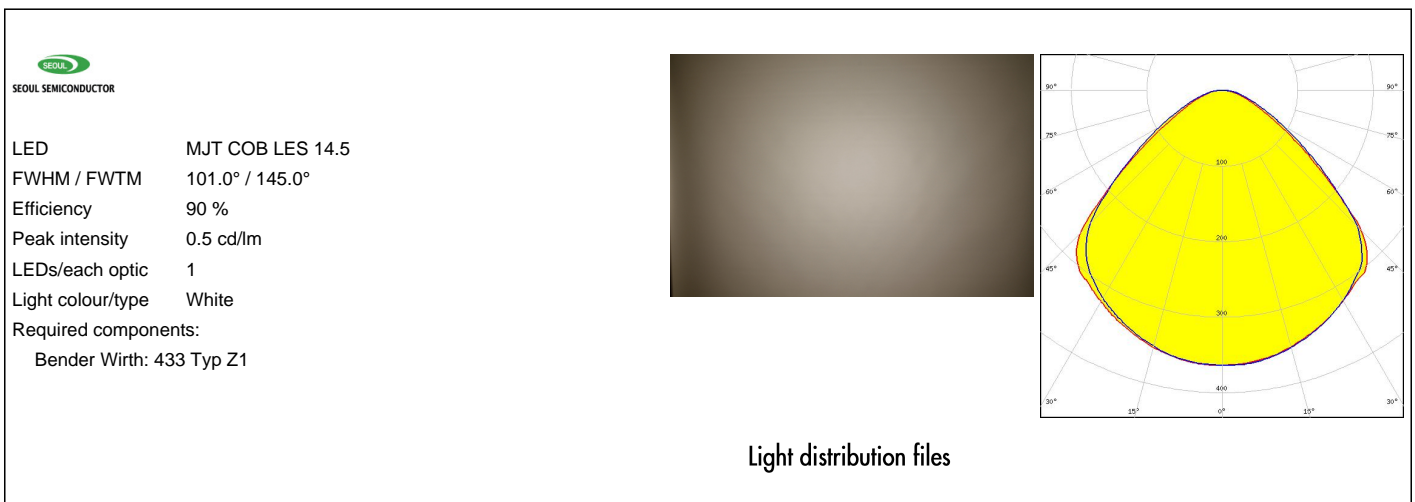
SAMSUNG

LED LC040D / LC060D / LC080D
FWHM / FWTM 102.0° / 144.0°
Efficiency 88 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

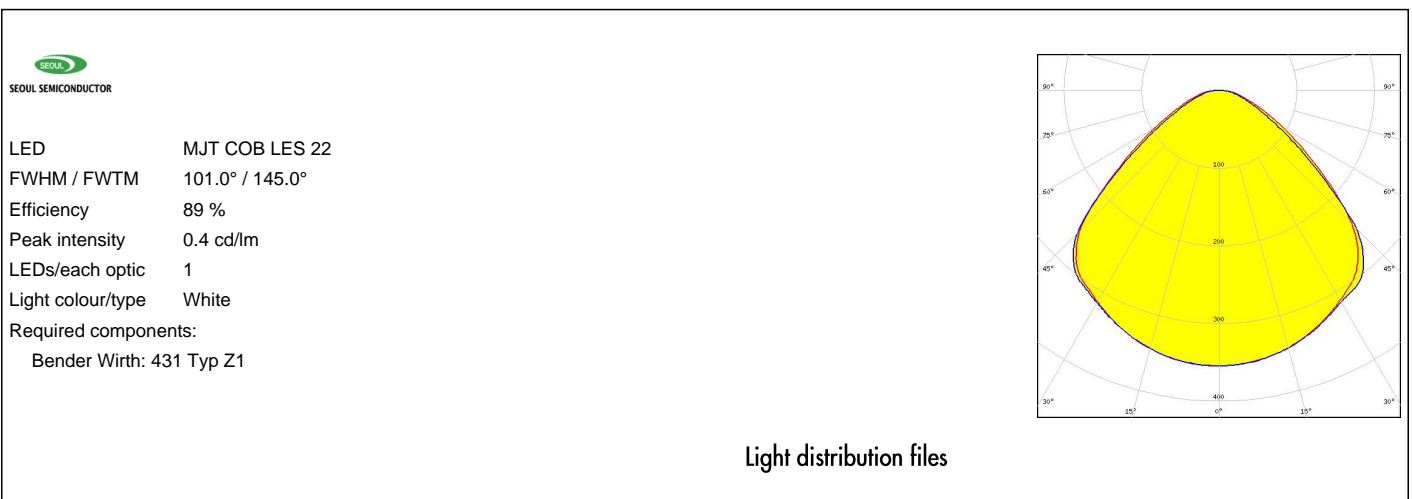
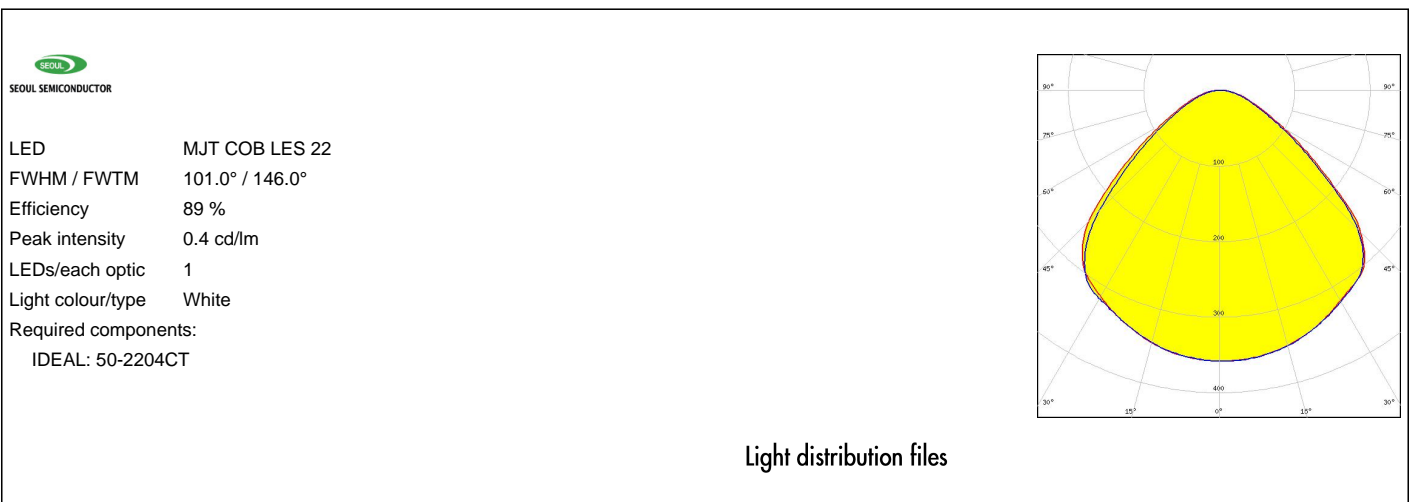
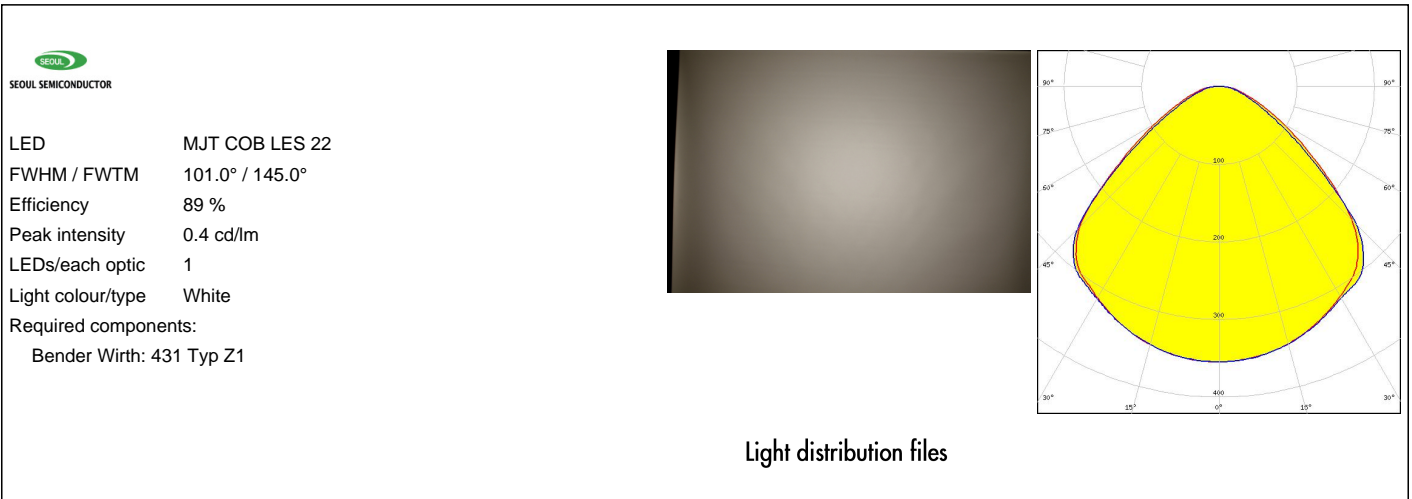


Light distribution files


OPTICAL RESULTS (MEASURED):

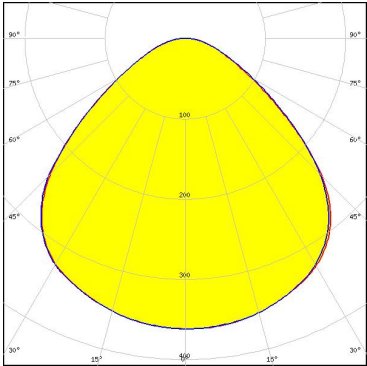


OPTICAL RESULTS (MEASURED):



OPTICAL RESULTS (MEASURED):

 SEUL SEMICONDUCTOR	
LED	MJT COB LES 33
FWHM / FWTM	101.0° / 147.0°
Efficiency	90 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
Bender Wirth: 458 Typ L4	



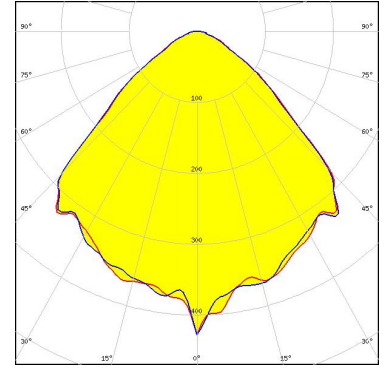
Light distribution files

OPTICAL RESULTS (SIMULATED):

bridgelux.

LED V10 Gen7
FWHM / FWTM 95.0° / 132.0°
Efficiency 88 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

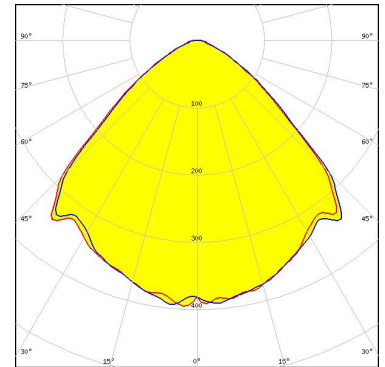
Bender Wirth: 486 Typ L1



Light distribution files

bridgelux.

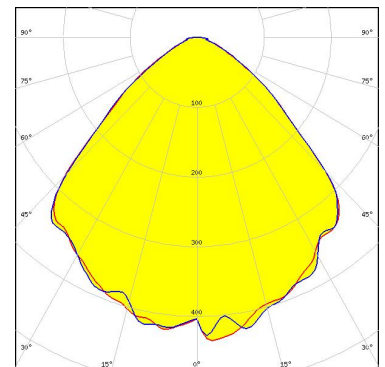
LED V13 Gen 8-9
FWHM / FWTM 97.0° / 133.0°
Efficiency 89 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

bridgelux.

LED V13 Gen7
FWHM / FWTM 94.0° / 130.0°
Efficiency 94 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

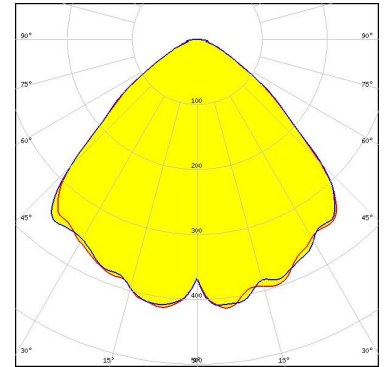
OPTICAL RESULTS (SIMULATED):



LED V13 Gen7
FWHM / FWTM 94.0° / 132.0°
Efficiency 94 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Bender Wirth: 477 Typ Z1

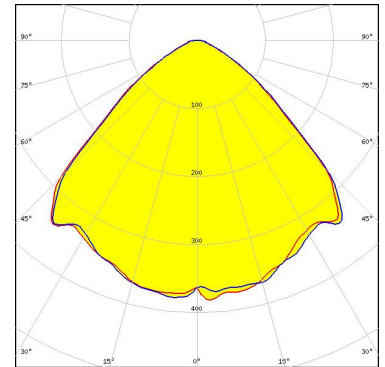
Light distribution files



LED V18 Gen 8-9
FWHM / FWTM 98.0° / 132.0°
Efficiency 88 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Bender Wirth: 462 Typ L4

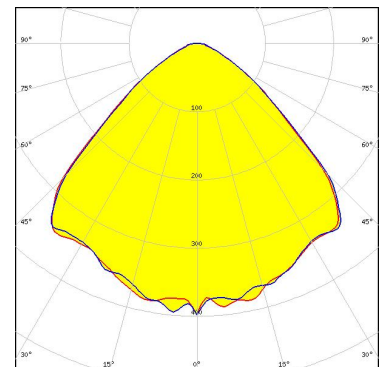
Light distribution files



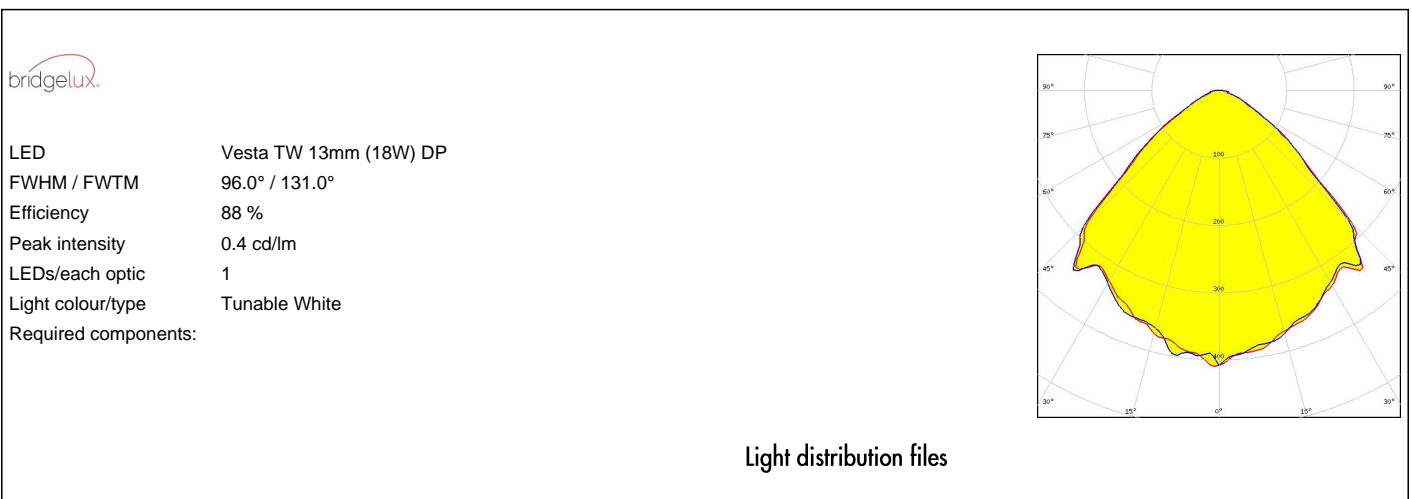
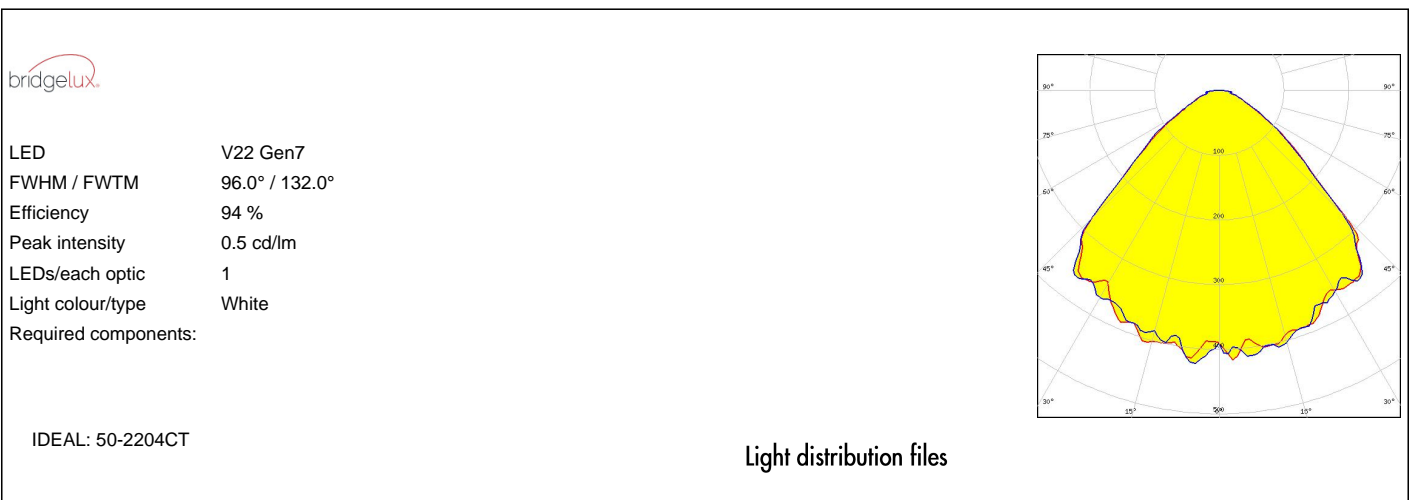
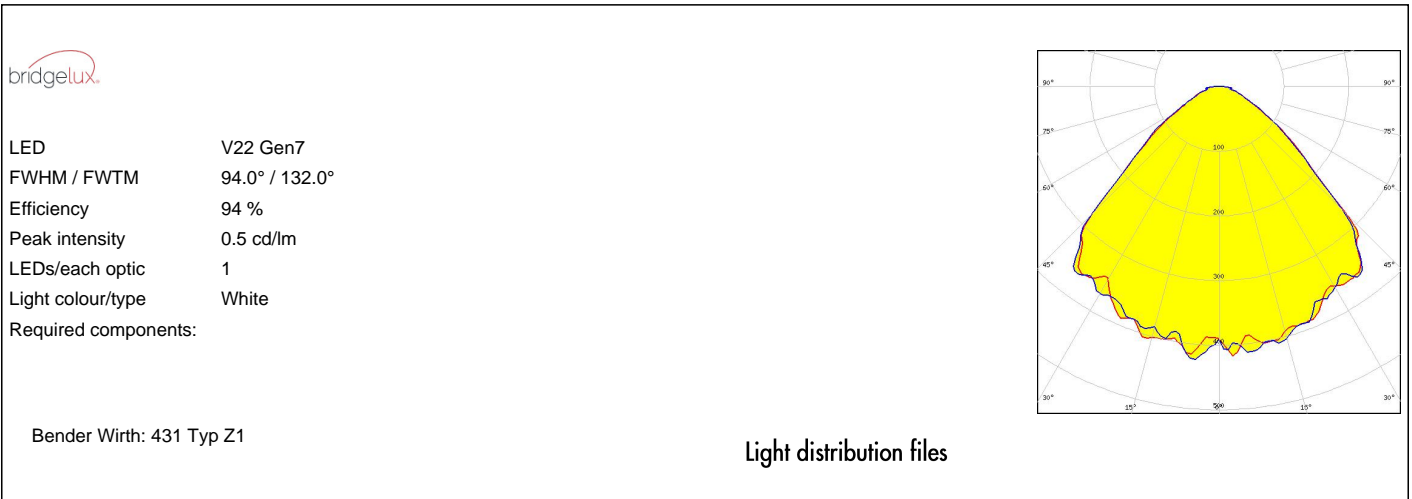
LED V22 Gen 8-9
FWHM / FWTM 97.0° / 132.0°
Efficiency 89 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Bender Wirth: 431 Typ L4

Light distribution files



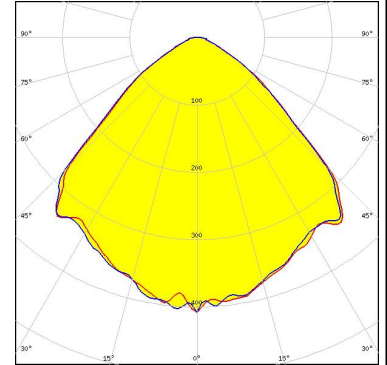
OPTICAL RESULTS (SIMULATED):



OPTICAL RESULTS (SIMULATED):



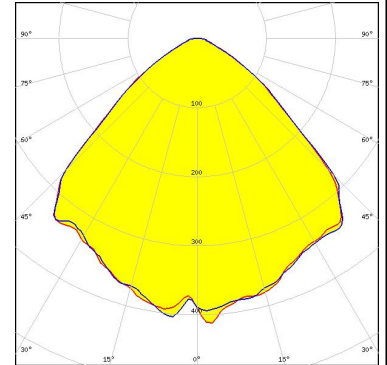
LED Vesta TW 18mm (31W) DP
FWHM / FWTM 96.0° / 130.0°
Efficiency 89 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type Tunable White
Required components:



Light distribution files



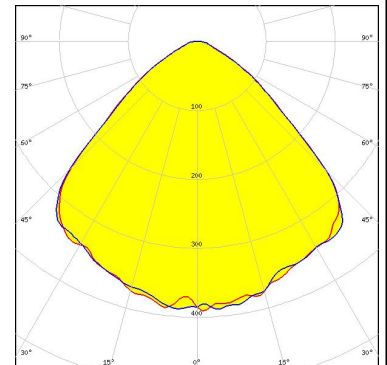
LED Vesta TW 22mm DP
FWHM / FWTM 96.0° / 130.0°
Efficiency 88 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type Tunable White
Required components:



Light distribution files



LED Vesta TW 29mm DP
FWHM / FWTM 96.0° / 131.0°
Efficiency 88 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type Tunable White
Required components:

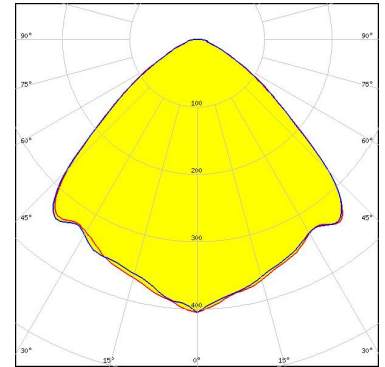


Light distribution files

OPTICAL RESULTS (SIMULATED):

CITIZEN

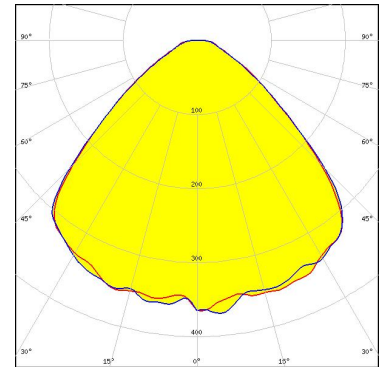
LED CLL03x/CLU03x
FWHM / FWTM 98.0° / 133.0°
Efficiency 90 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

CITIZEN

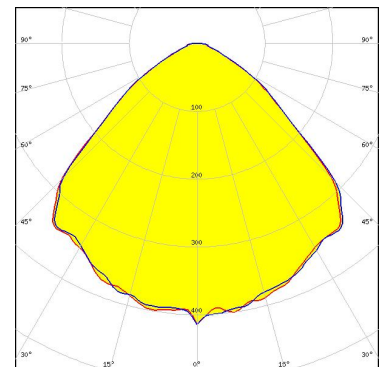
LED CLL05x/CLU05x
FWHM / FWTM 97.0° / 137.0°
Efficiency 87 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED CMA3090
FWHM / FWTM 97.0° / 133.0°
Efficiency 94 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

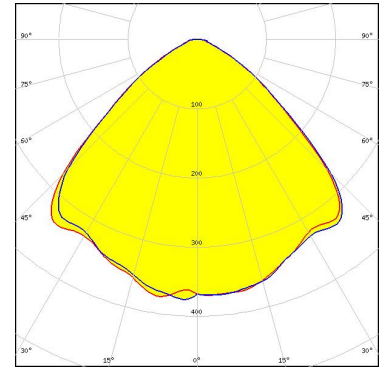


Light distribution files

OPTICAL RESULTS (SIMULATED):



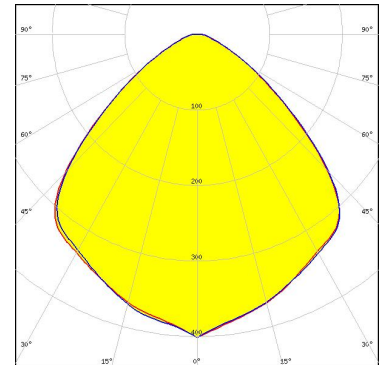
LED CMT28xx
 FWHM / FWTM 99.0° / 132.0°
 Efficiency 88 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



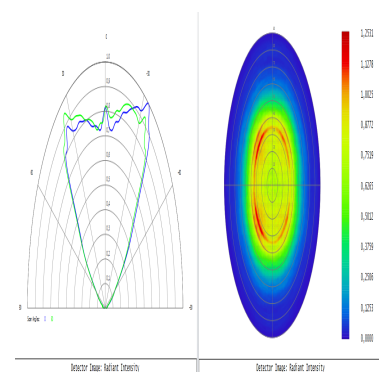
LED CXA/B 25xx
 FWHM / FWTM 98.0° / 134.0°
 Efficiency 89 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LTPL-G35UV275GR-E
 FWHM / FWTM 92.0° / 129.0°
 Efficiency 70 %
 LEDs/each optic 3
 Light colour/type UV-C
 Required components:



The UVC LED result tolerance is $\pm 10\%$

Light distribution files

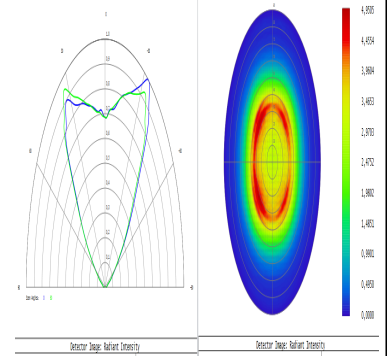
OPTICAL RESULTS (SIMULATED):

LITEON

LED: LTPL-G35UV275GR-E
 FWHM / FWTM: 92.0° / 127.0°
 Efficiency: 71 %
 LEDs/each optic: 13
 Light colour/type: UV-C
 Required components:

The UVC LED result tolerance is ± 10 %

Light distribution files

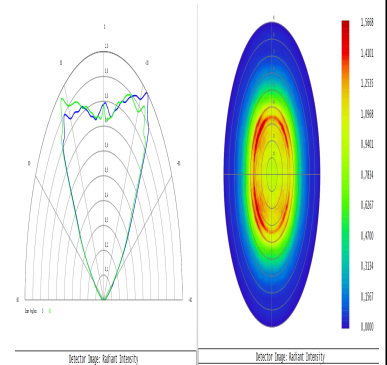


LITEON

LED: LTPL-G35UV275GR-E
 FWHM / FWTM: 92.0° / 129.0°
 Efficiency: 70 %
 LEDs/each optic: 4
 Light colour/type: UV-C
 Required components:

The UVC LED result tolerance is ± 10 %

Light distribution files

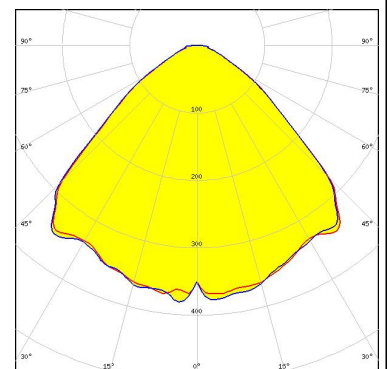


LUMILEDS

LED: LUXEON CoB 1213/1216/1812
 FWHM / FWTM: 99.0° / 136.0°
 Efficiency: 91 %
 Peak intensity: 0.4 cd/lm
 LEDs/each optic: 1
 Light colour/type: White
 Required components:

Bender Wirth: 431 Typ L4

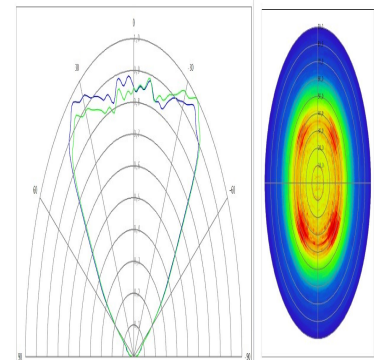
Light distribution files



OPTICAL RESULTS (SIMULATED):



LED XBT-3535-UV
 FWHM / FWTM 100.0° / 127.0°
 Efficiency 70 %
 LEDs/each optic 1
 Light colour/type UV-C
 Required components:

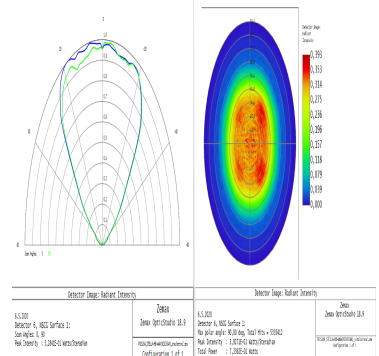


The UVC LED result tolerance is $\pm 10\%$

Light distribution files



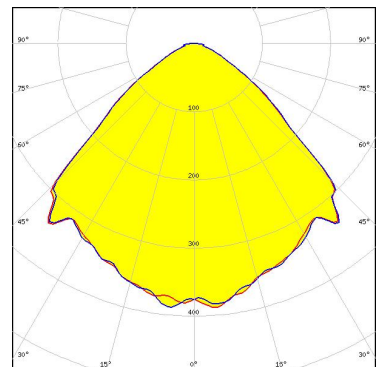
LED NCSU334A
 FWHM / FWTM 93.0° / 122.0°
 Efficiency 73 %
 LEDs/each optic 1
 Light colour/type UV-A
 Required components:



Light distribution files




LED Fortimo SLM L13 CoB
 FWHM / FWTM 98.0° / 132.0°
 Efficiency 88 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



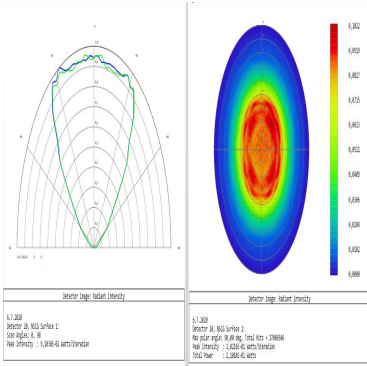
Light distribution files

OPTICAL RESULTS (SIMULATED):




SEOUL SEMICONDUCTOR

LED: CUD8AF1D
 FWHM / FWTM: 100.0° / 141.0°
 Efficiency: 69 %
 LEDs/each optic: 16
 Light colour/type: UV-C
 Required components:



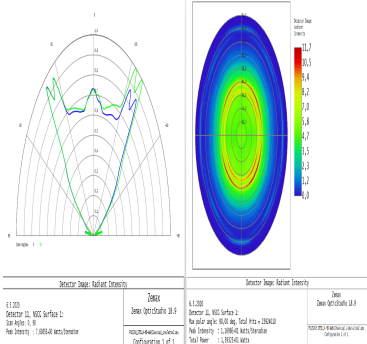
Light distribution files

The UVC LED result tolerance is ± 10 %




SEOUL SEMICONDUCTOR

LED: WICOP DY9560-27
 FWHM / FWTM: 92.0° / 129.0°
 Efficiency: 66 %
 LEDs/each optic: 24
 Light colour/type: UV-C
 Required components:

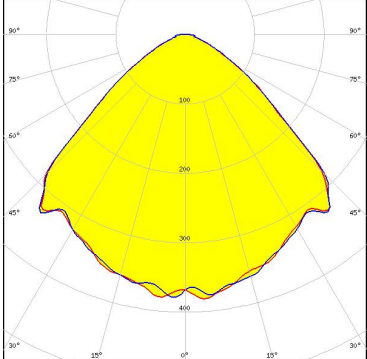


Light distribution files

The UVC LED result tolerance is ± 10 %



LED: SLE 13mm 3000lm xxx R ADV8
 FWHM / FWTM: 98.0° / 134.0°
 Efficiency: 88 %
 Peak intensity: 0.4 cd/lm
 LEDs/each optic: 1
 Light colour/type: White
 Required components:



Light distribution files

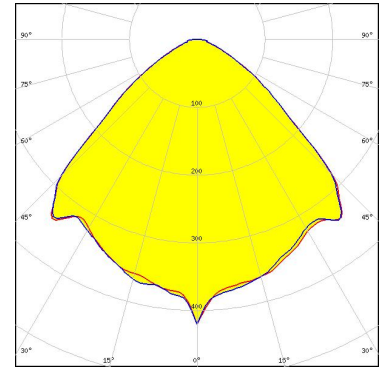
OPTICAL RESULTS (SIMULATED):

TRIDONIC

LED SLE 17mm 5000lm xxx R ADV8
FWHM / FWTM 96.0° / 132.0°
Efficiency 89 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Bender Wirth: 466 Typ L4

Light distribution files

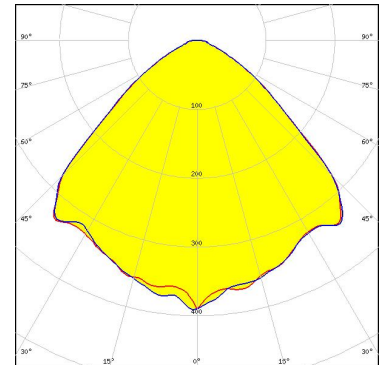


TRIDONIC

LED SLE 21mm 6000lm xxx R ADV8
FWHM / FWTM 98.0° / 134.0°
Efficiency 89 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Bender Wirth: 466 Typ L4

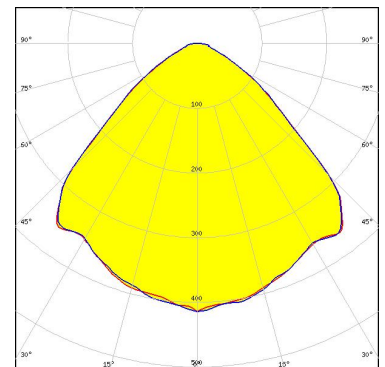
Light distribution files



TRIDONIC

LED SLE G7 LES21
FWHM / FWTM 96.0° / 132.0°
Efficiency 94 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files



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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