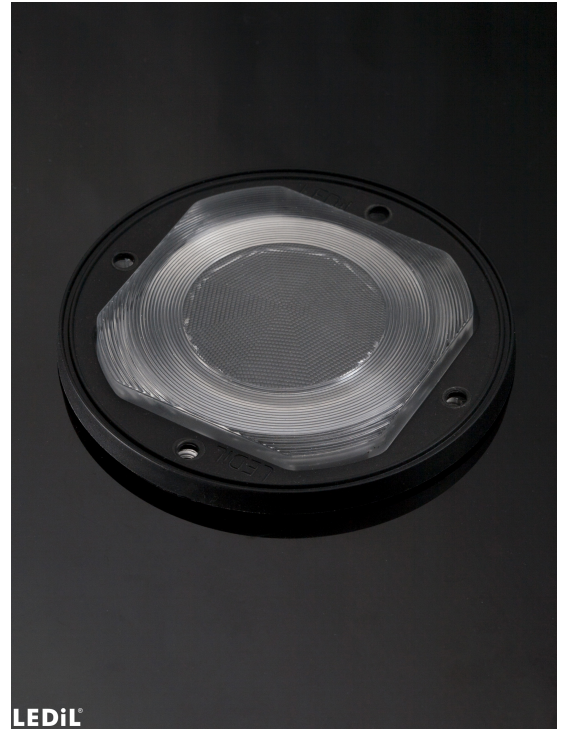


## STELLA-HB-WWW

~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 ⓘ

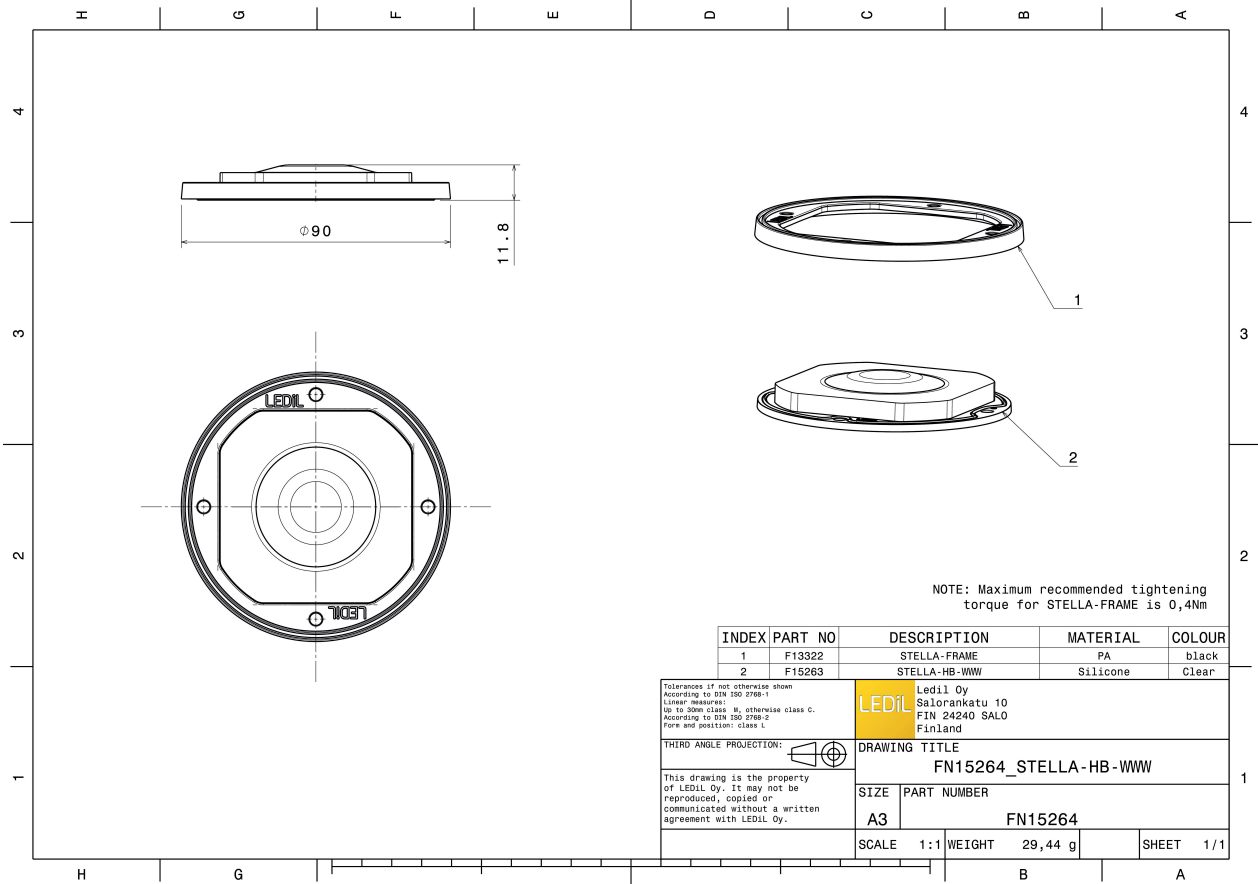


### MATERIALS:

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					

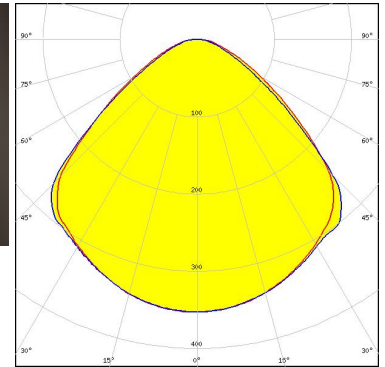


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### OPTICAL RESULTS (MEASURED):

bridgelux.

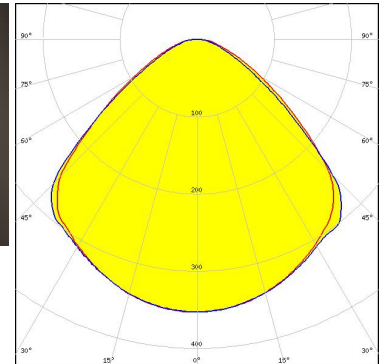
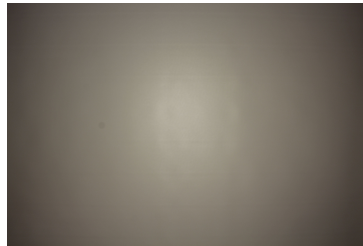
LED V18 Gen7  
 FWHM / FWTM 102.0° / 145.0°  
 Efficiency 87 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 BJB: 47.319.2350



Light distribution files

bridgelux.

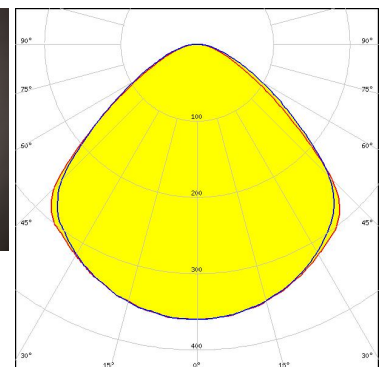
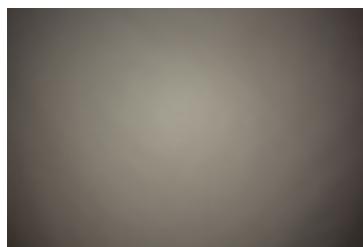
LED V18 Gen7  
 FWHM / FWTM 101.0° / 144.0°  
 Efficiency 88 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

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

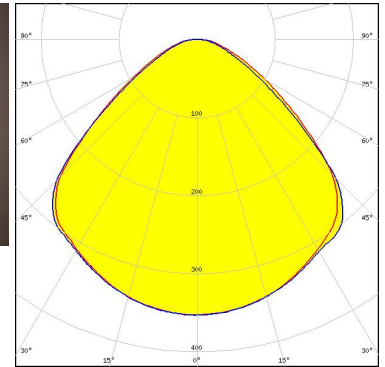
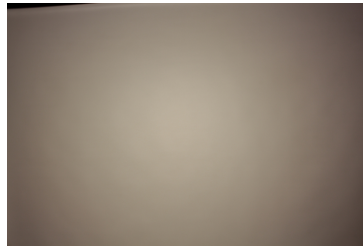


Light distribution files

#### OPTICAL RESULTS (MEASURED):



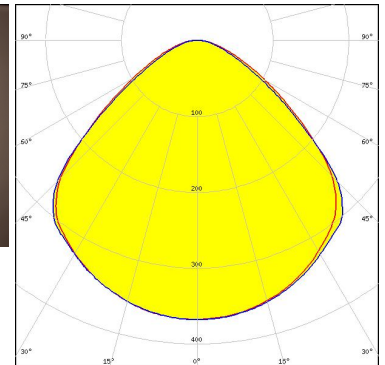
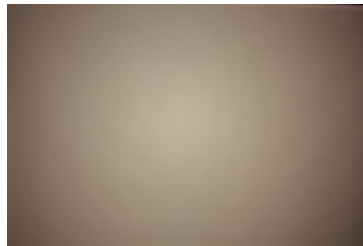
**LED** V22 Gen7  
**FWHM / FWTM** 102.0° / 147.0°  
**Efficiency** 89 %  
**Peak intensity** 0.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 Bender Wirth: 431 Typ Z1



Light distribution files



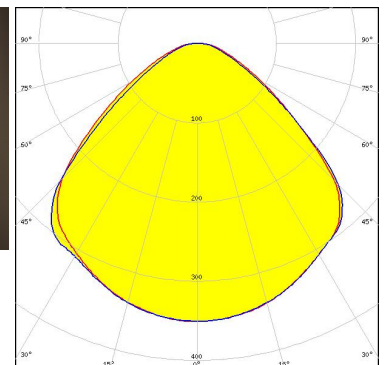
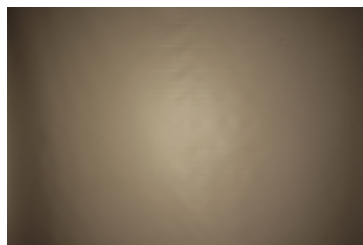
**LED** V22 Gen7  
**FWHM / FWTM** 102.0° / 146.0°  
**Efficiency** 92 %  
**Peak intensity** 0.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 TE Connectivity: 2213480-1



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:**

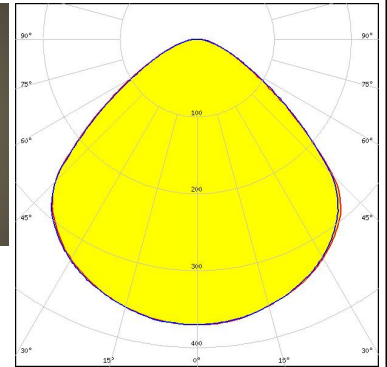
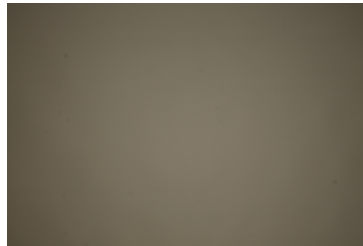


Light distribution files

#### OPTICAL RESULTS (MEASURED):



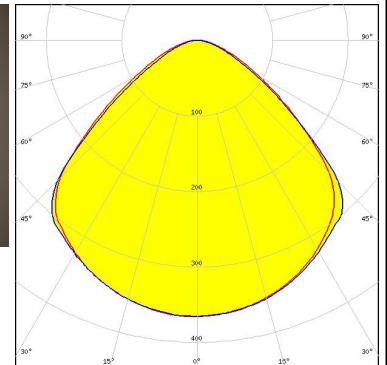
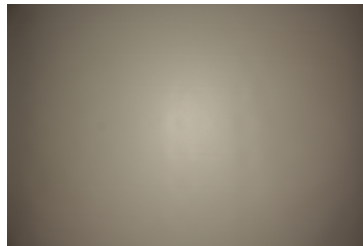
LED Vero SE 13  
 FWHM / FWTM 101.0° / 142.0°  
 Efficiency 90 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



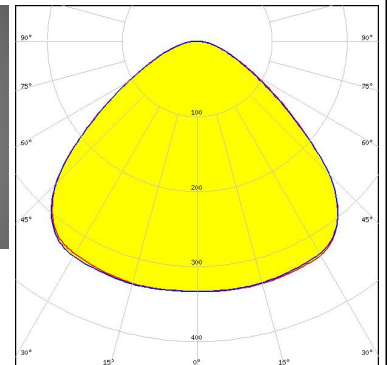
LED Vero SE 18  
 FWHM / FWTM 101.0° / 144.0°  
 Efficiency 90 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



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:

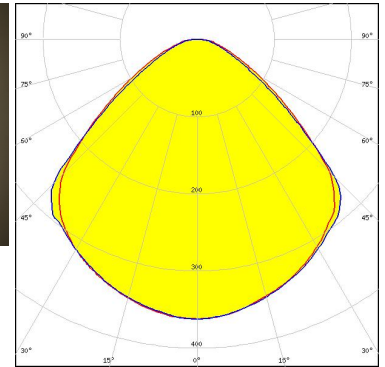
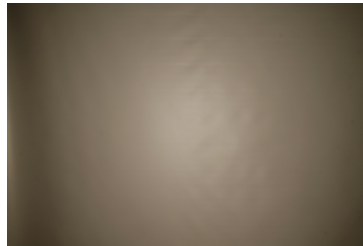


Light distribution files

#### OPTICAL RESULTS (MEASURED):



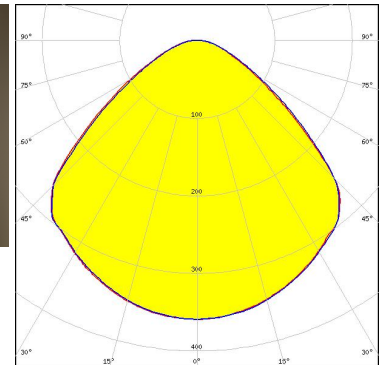
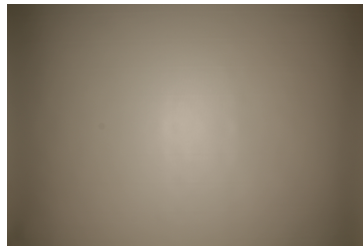
**LED** VERO13  
**FWHM / FWTM** 100.0° / 145.0°  
**Efficiency** 88 %  
**Peak intensity** 0.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



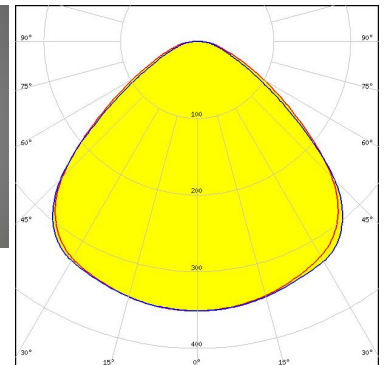
**LED** VERO18  
**FWHM / FWTM** 102.0° / 144.0°  
**Efficiency** 89 %  
**Peak intensity** 0.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



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:**

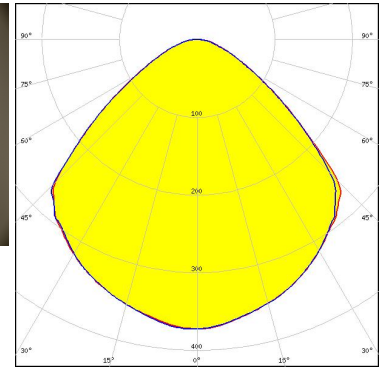
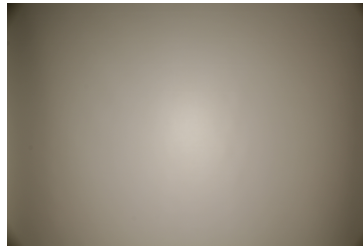


Light distribution files

#### OPTICAL RESULTS (MEASURED):

### CITIZEN

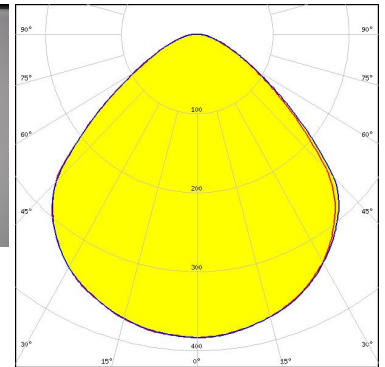
LED CLL02x/CLU02x (LES10)  
FWHM / FWTM 100.0° / 142.0°  
Efficiency 88 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

### CITIZEN

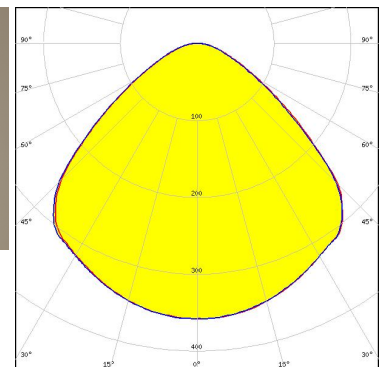
LED CLL02x/CLU02x (LES10)  
FWHM / FWTM 100.0° / 143.0°  
Efficiency 92 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C



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:

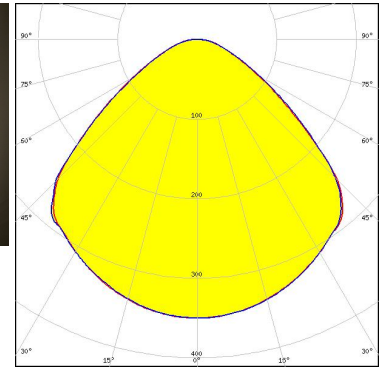
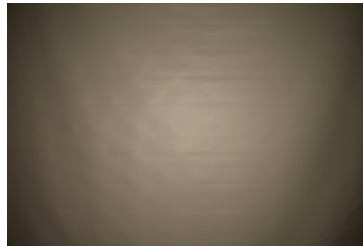


Light distribution files

#### OPTICAL RESULTS (MEASURED):



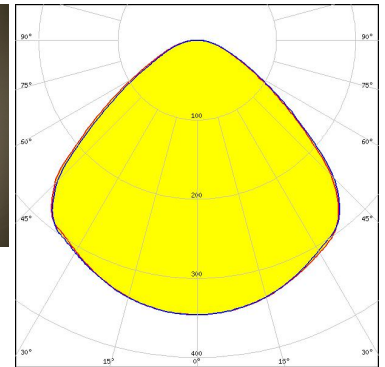
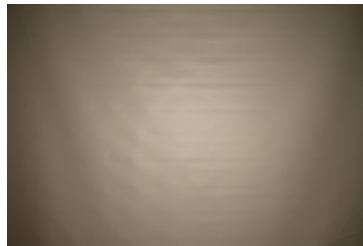
LED CMA2550  
 FWHM / FWTM 102.0° / 145.0°  
 Efficiency 88 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



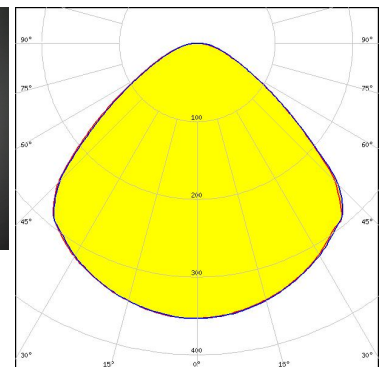
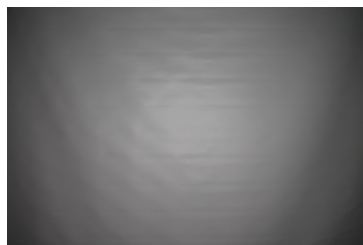
LED CMA3090  
 FWHM / FWTM 102.0° / 147.0°  
 Efficiency 88 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



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



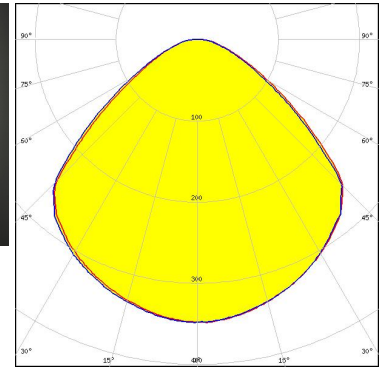
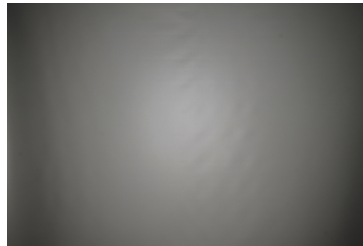
Light distribution files



#### OPTICAL RESULTS (MEASURED):



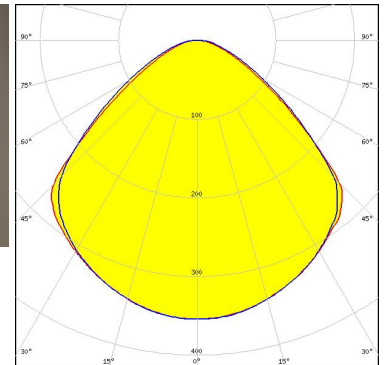
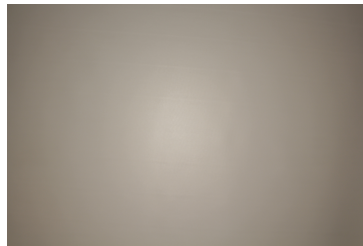
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM / FWTM 102.0° / 146.0°  
 Efficiency 87 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



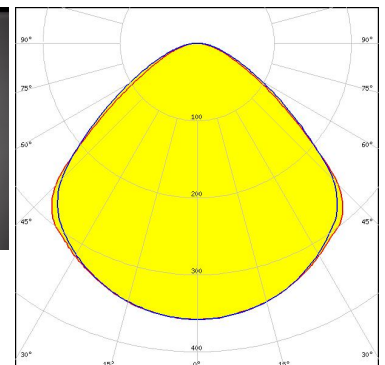
LED CXA/B 1830  
 FWHM / FWTM 102.0° / 145.0°  
 Efficiency 88 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14305\_STELLA-CLAMP-CXA15-18



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

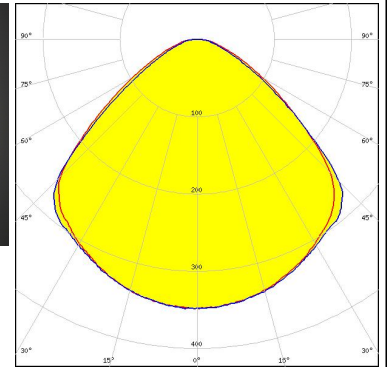


Light distribution files

#### OPTICAL RESULTS (MEASURED):



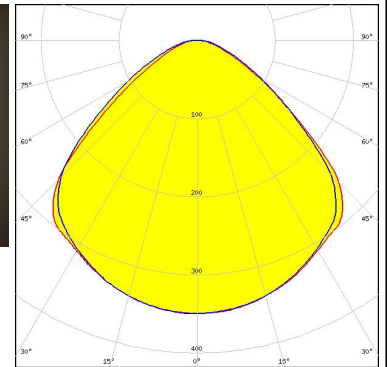
LED CXA/B 25xx  
 FWHM / FWTM 102.0° / 144.0°  
 Efficiency 88 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



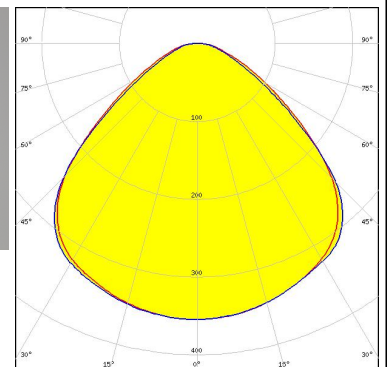
LED CXA/B 30xx  
 FWHM / FWTM 102.0° / 144.0°  
 Efficiency 88 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



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:

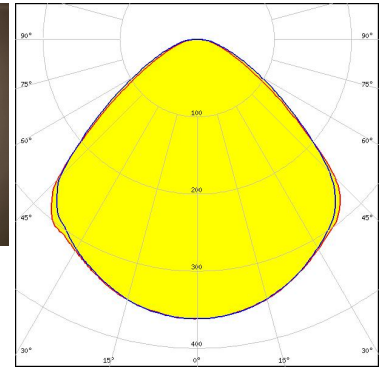
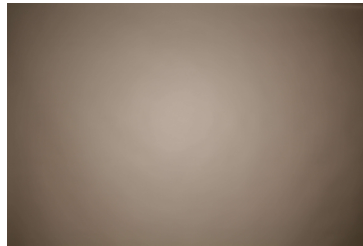


Light distribution files

#### OPTICAL RESULTS (MEASURED):



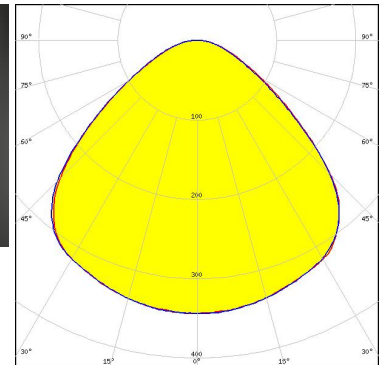
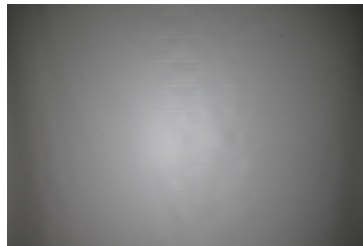
LED LUXEON CoB 1211  
 FWHM / FWTM 101.0° / 144.0°  
 Efficiency 89 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 431 Typ L3



Light distribution files



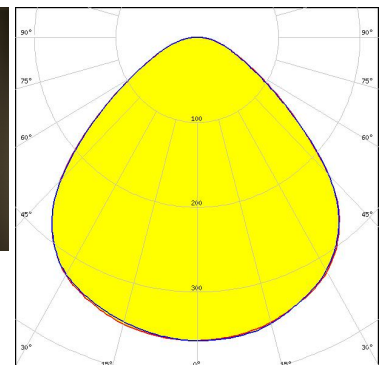
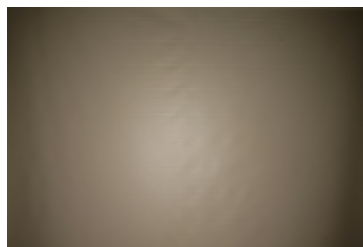
LED LUXEON CoB 1321  
 FWHM / FWTM 102.0° / 149.0°  
 Efficiency 89 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



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:

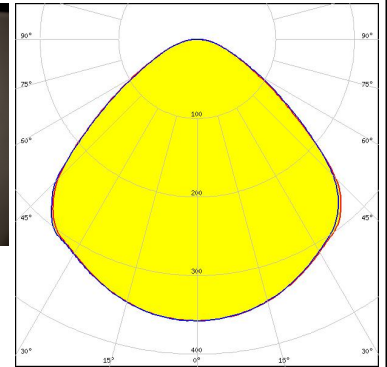


Light distribution files

#### OPTICAL RESULTS (MEASURED):



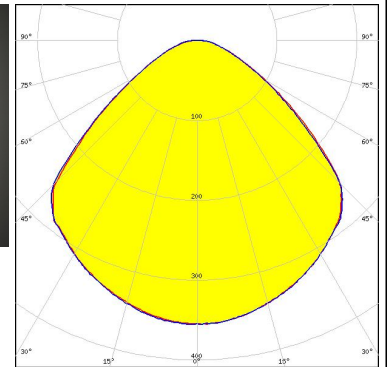
LED COB H-Type  
 FWHM / FWTM 101.0° / 146.0°  
 Efficiency 89 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



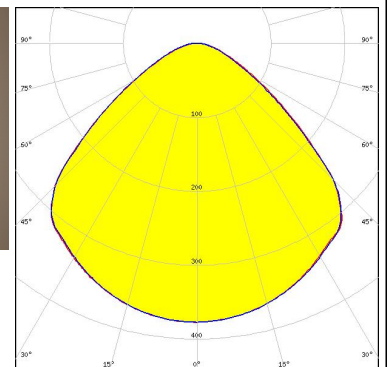
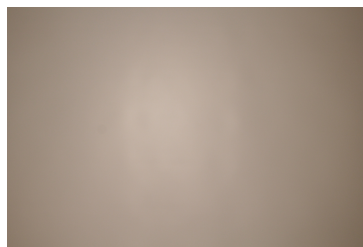
LED COB J-Type  
 FWHM / FWTM 102.0° / 145.0°  
 Efficiency 88 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



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:

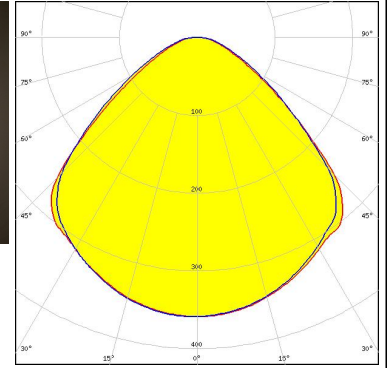


Light distribution files

#### OPTICAL RESULTS (MEASURED):

### PHILIPS

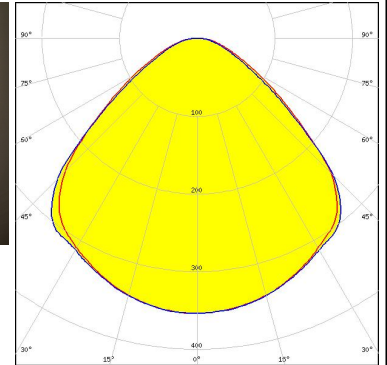
LED Fortimo SLM L19 CoB  
FWHM / FWTM 100.0° / 144.0°  
Efficiency 88 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
Bender Wirth: 431 Typ Z1



Light distribution files

### PHILIPS

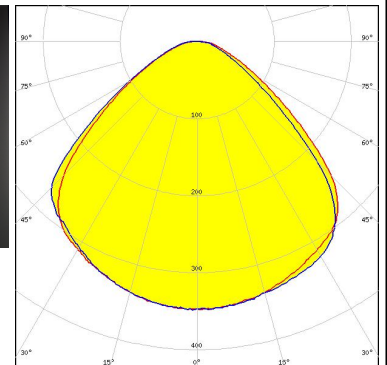
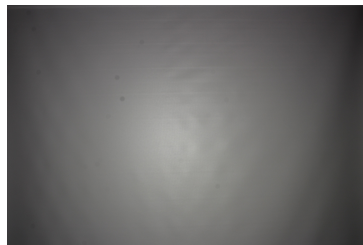
LED Fortimo SLM L23 CoB  
FWHM / FWTM 100.0° / 145.0°  
Efficiency 88 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
Bender Wirth: 431 Typ Z1



Light distribution files

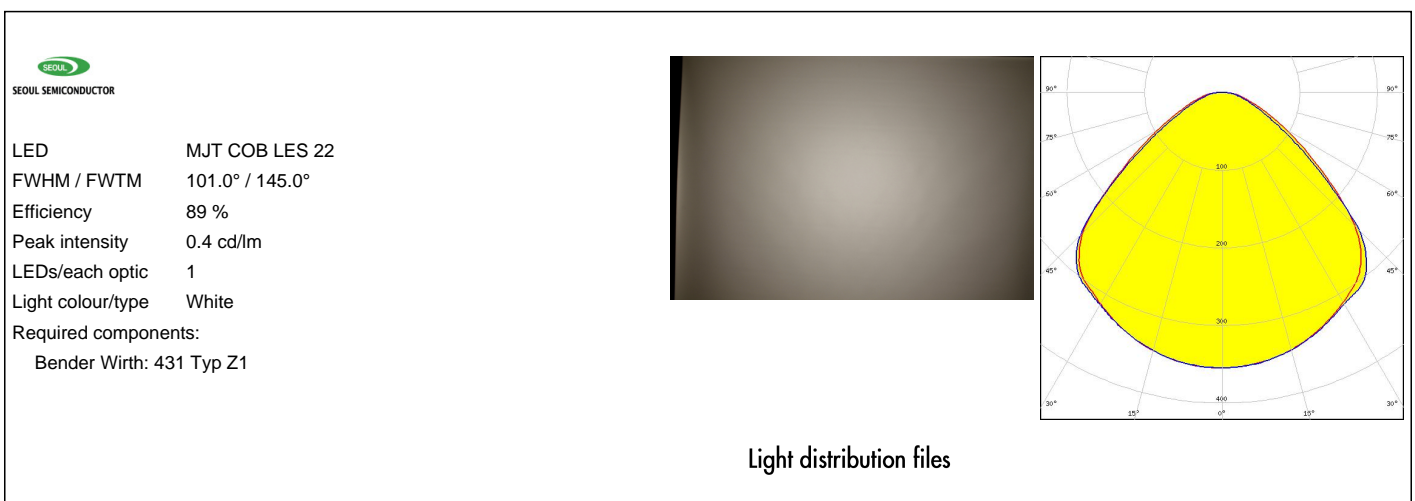
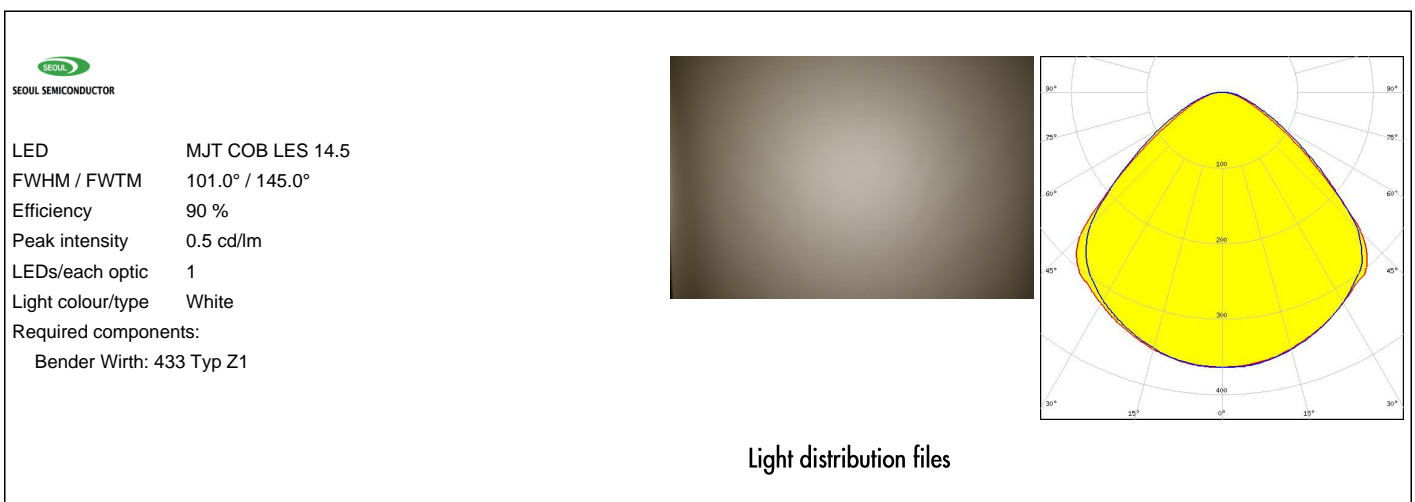
### SAMSUNG

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

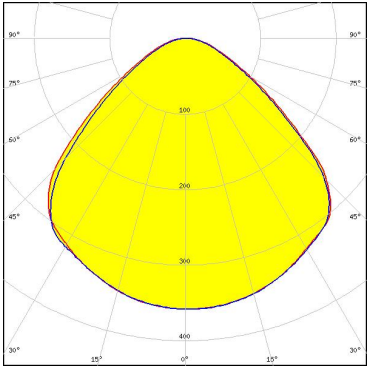
#### OPTICAL RESULTS (MEASURED):



#### OPTICAL RESULTS (MEASURED):

**SEUL**  
SEOUL SEMICONDUCTOR

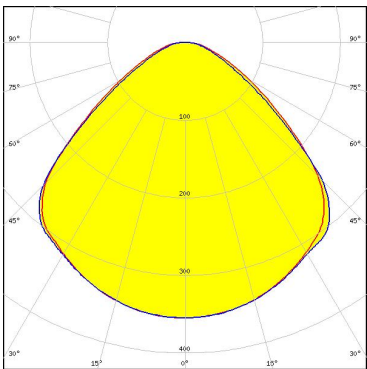
LED: MJT COB LES 22  
 FWHM / FWTM: 101.0° / 146.0°  
 Efficiency: 89 %  
 Peak intensity: 0.4 cd/lm  
 LEDs/each optic: 1  
 Light colour/type: White  
 Required components:  
 IDEAL: 50-2204CT



Light distribution files

**SEUL**  
SEOUL SEMICONDUCTOR

LED: MJT COB LES 22  
 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: 431 Typ Z1



Light distribution files

**SEUL**  
SEOUL SEMICONDUCTOR


LED: MJT COB LES 22  
 FWHM / FWTM: 101.0° / 146.0°  
 Efficiency: 89 %  
 Peak intensity: 0.4 cd/lm  
 LEDs/each optic: 1  
 Light colour/type: White  
 Required components:  
 IDEAL: 50-2204CT

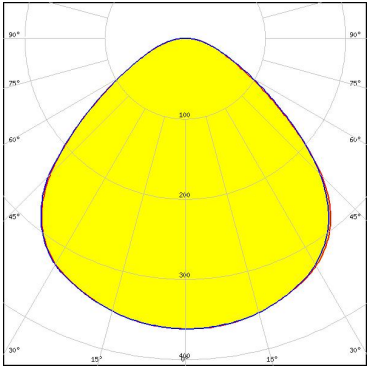




Light distribution files

#### OPTICAL RESULTS (MEASURED):

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



Light distribution files



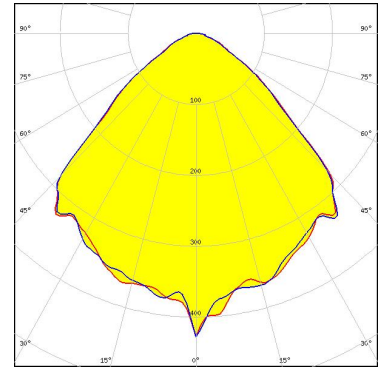
#### OPTICAL RESULTS (SIMULATED):



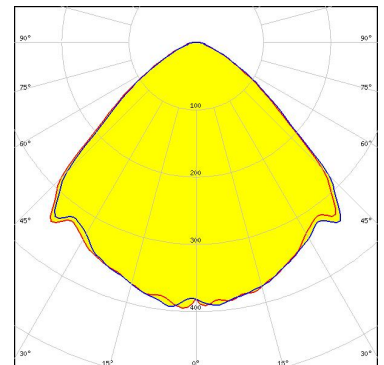
LED V10 Gen7  
FWHM / FWTM 95.0° / 132.0°  
Efficiency 88 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Bender Wirth: 486 Typ L1

Light distribution files



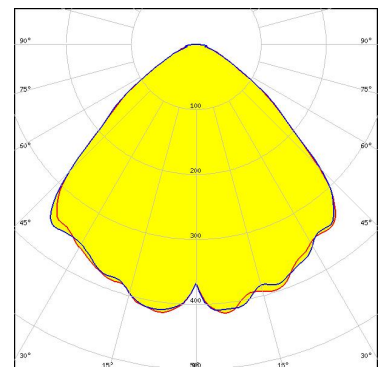
LED V13 Gen 8-9  
FWHM / FWTM 97.0° / 133.0°  
Efficiency 89 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



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

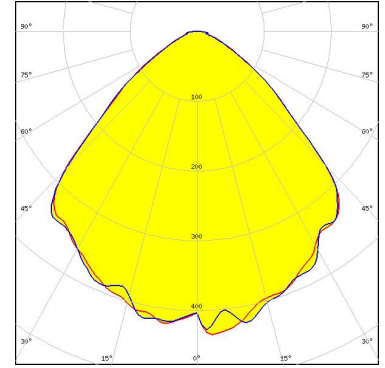
Light distribution files



#### OPTICAL RESULTS (SIMULATED):



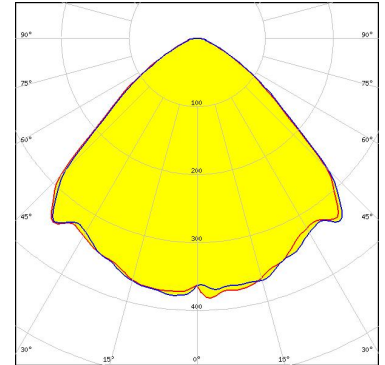
LED V13 Gen7  
FWHM / FWTM 94.0° / 130.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



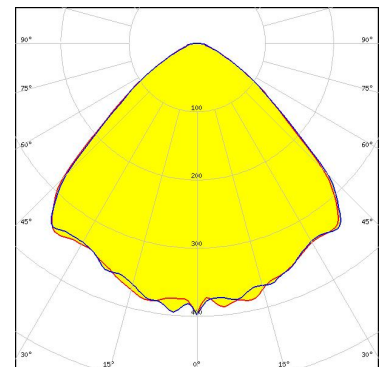
LED V18 Gen 8-9  
FWHM / FWTM 98.0° / 132.0°  
Efficiency 88 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Bender Wirth: 462 Typ L4

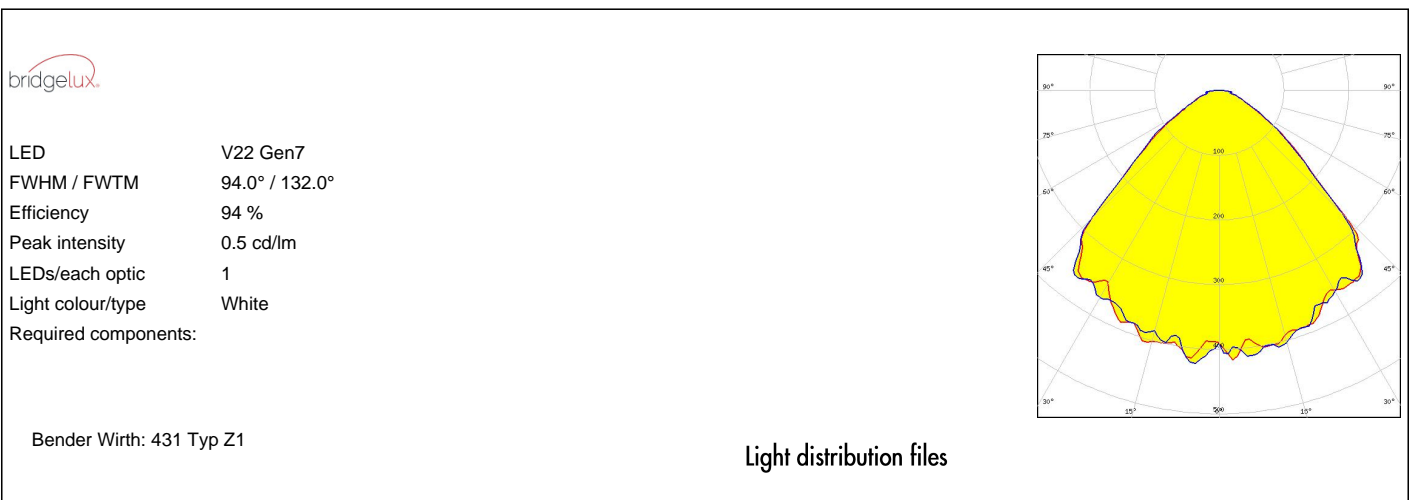
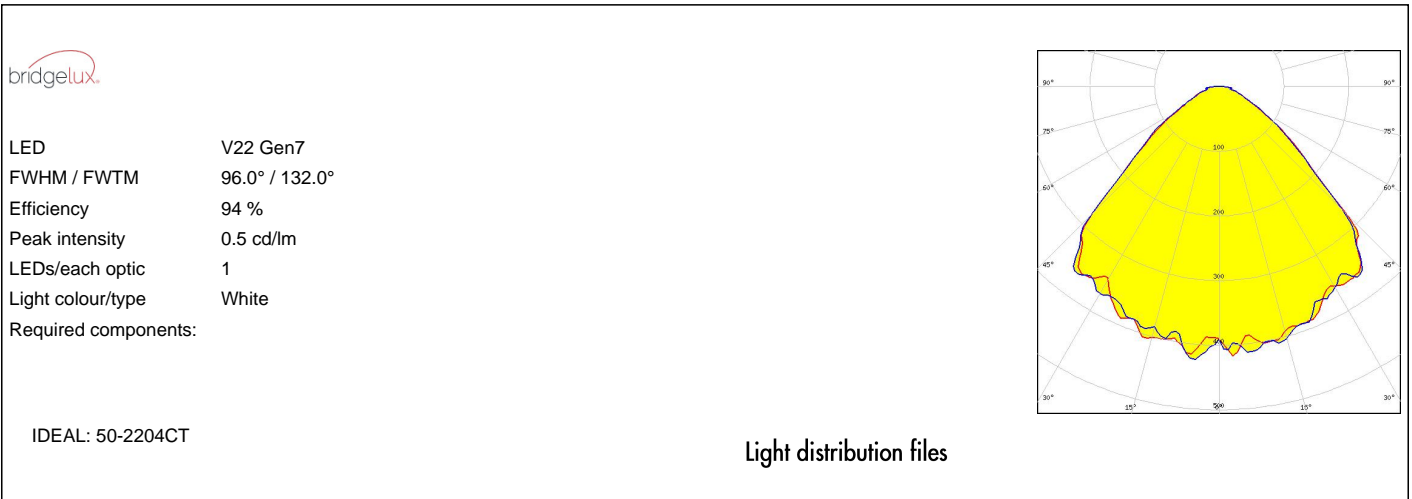


LED V22 Gen 8-9  
FWHM / FWTM 97.0° / 132.0°  
Efficiency 89 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Bender Wirth: 431 Typ L4

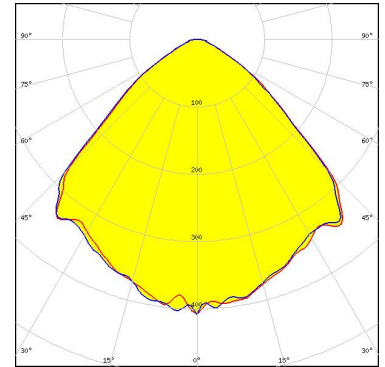
#### OPTICAL RESULTS (SIMULATED):



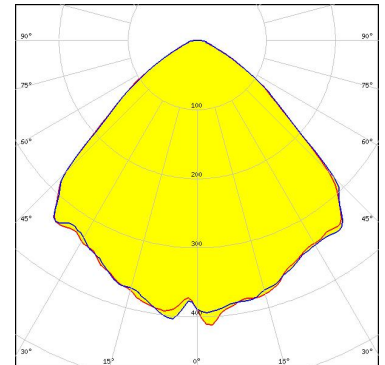
#### OPTICAL RESULTS (SIMULATED):



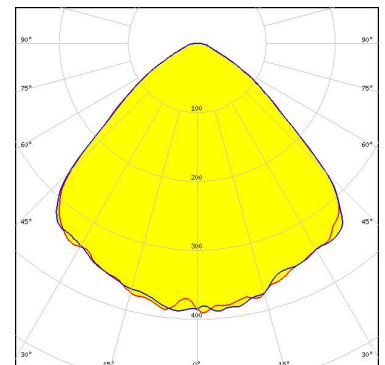
LED Vesta TW 18mm (31W) DP  
FWHM / FWTM 96.0° / 130.0°  
Efficiency 89 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type Tunable White  
Required components:



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:



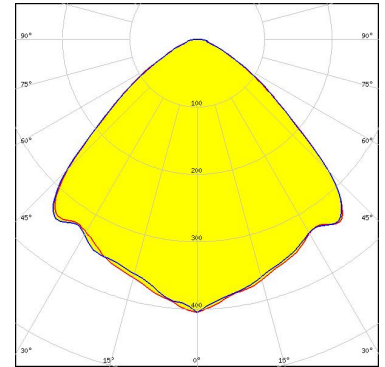
LED Vesta TW 29mm DP  
FWHM / FWTM 96.0° / 131.0°  
Efficiency 88 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type Tunable White  
Required components:



#### OPTICAL RESULTS (SIMULATED):

### CITIZEN

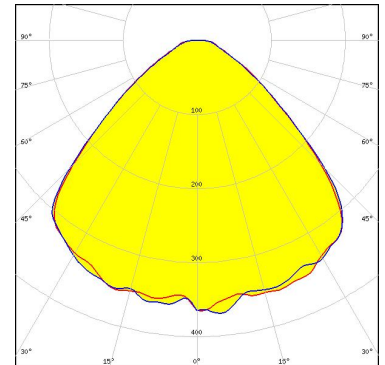
LED CLL03x/CLU03x  
FWHM / FWTM 98.0° / 133.0°  
Efficiency 90 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

### CITIZEN

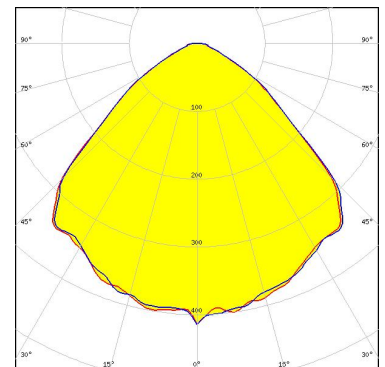
LED CLL05x/CLU05x  
FWHM / FWTM 97.0° / 137.0°  
Efficiency 87 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



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:

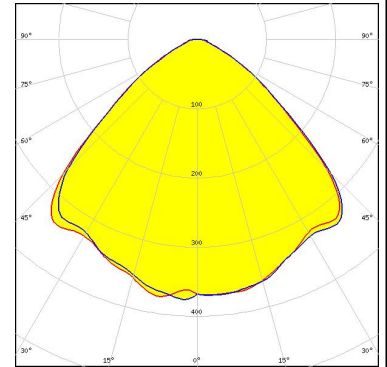


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



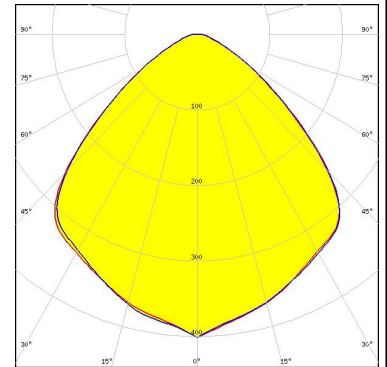
LED CMT28xx  
 FWHM / FWTM 99.0° / 132.0°  
 Efficiency 88 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



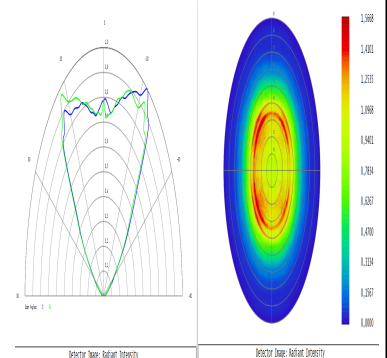
LED CXA/B 25xx  
 FWHM / FWTM 98.0° / 134.0°  
 Efficiency 89 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



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



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

Light distribution files

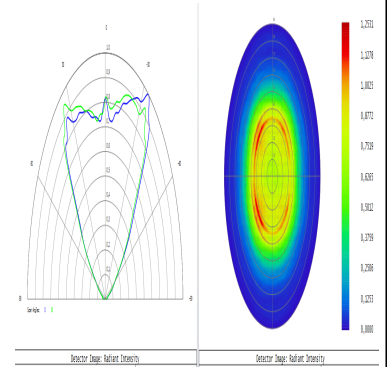
### OPTICAL RESULTS (SIMULATED):

**LITEON**

LED: LTPL-G35UV275GR-E  
 FWHM / FWTM: 92.0° / 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

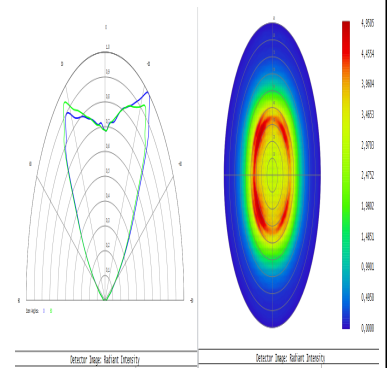


**LITEON**

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  $\pm 10$  %

Light distribution files

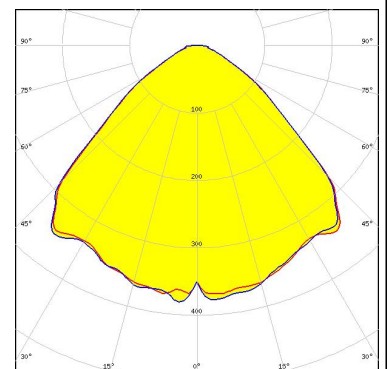


**LUMILEDS**


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

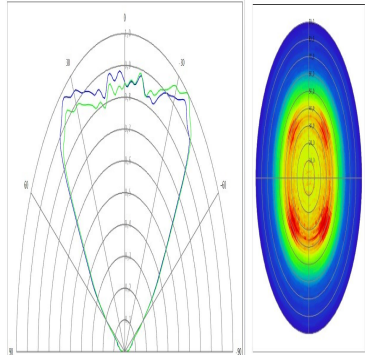
Light distribution files



### 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:

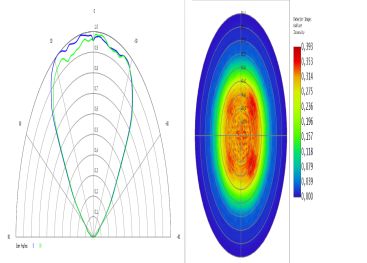


The UVC LED result tolerance is  $\pm 10\%$


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:



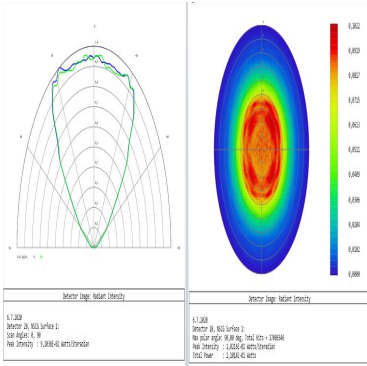


### OPTICAL RESULTS (SIMULATED):




**SEOUL SEMICONDUCTOR**

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



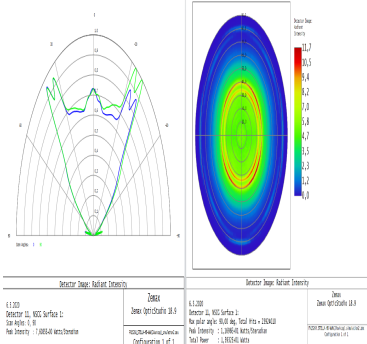
Light distribution files

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:

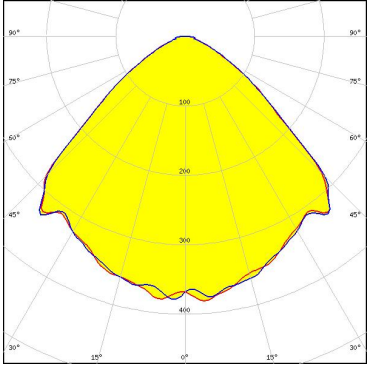


Light distribution files

The UVC LED result tolerance is ±10 %

## TRIDONIC

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:

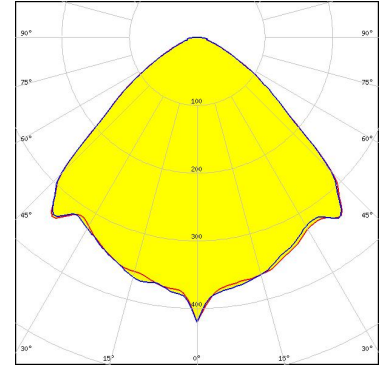


#### OPTICAL RESULTS (SIMULATED):

### 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:

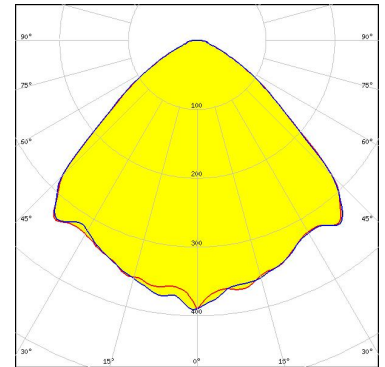
Bender Wirth: 466 Typ L4



### TRIDONIC

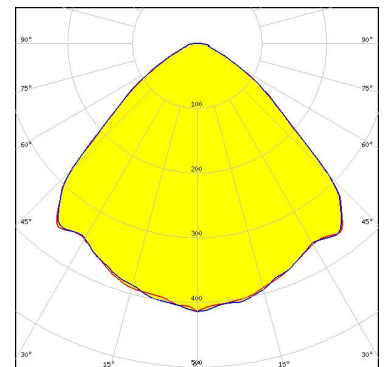
LED SLE 21mm 6000lm xxx R ADV8  
FWHM / FWTM 98.0° / 134.0°  
Efficiency 89 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Bender Wirth: 466 Typ L4



### 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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