

## STELLA-FRESNEL

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

### SPECIFICATION:

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

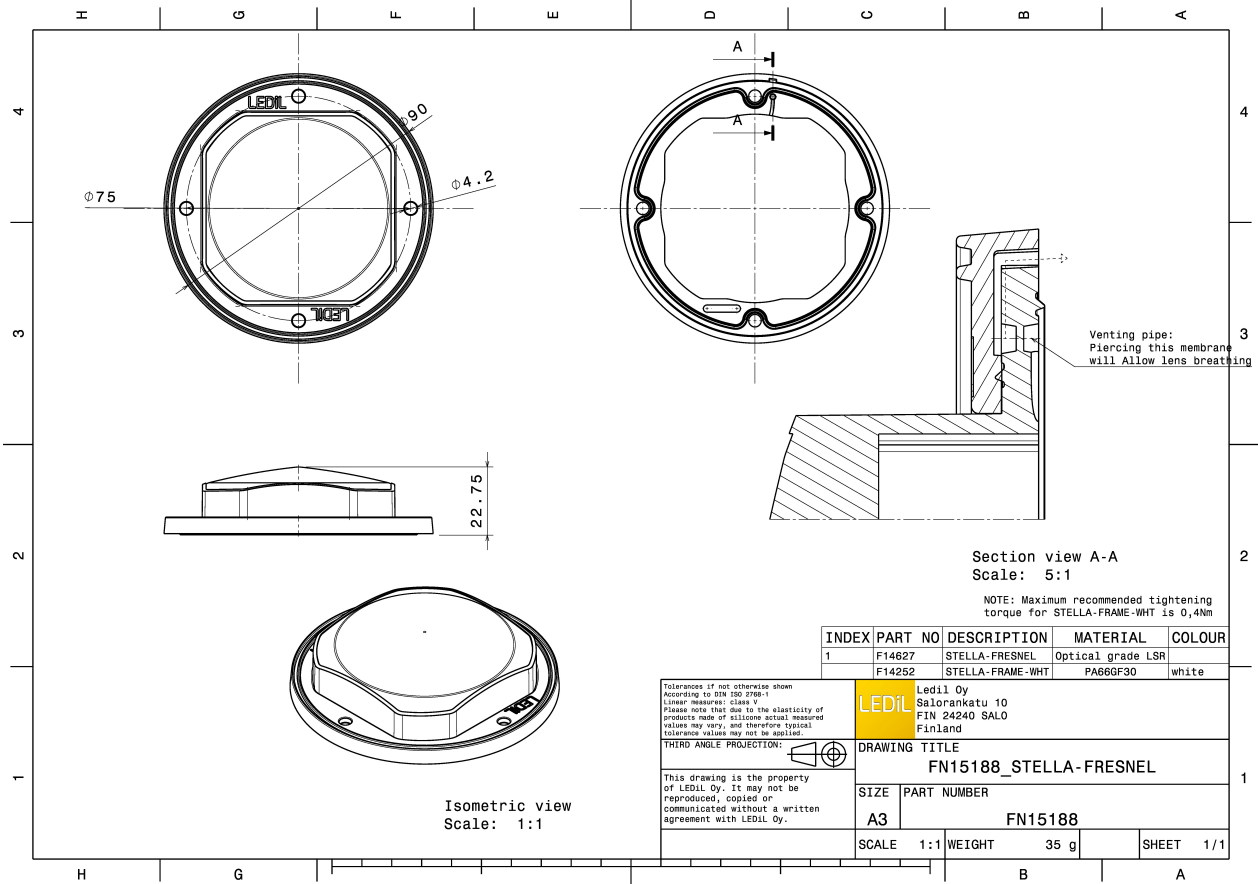


### MATERIALS:

| Component        | Type        | Material | Colour | Finish | Length |
|------------------|-------------|----------|--------|--------|--------|
| STELLA-FRESNEL   | Single lens | Silicone | clear  |        | 85.0   |
| STELLA-FRAME-WHT | Holder      | PA66     | white  |        | 90.0   |

### ORDERING INFORMATION:

| Component                      |             | Qty in box | MOQ | MPQ | Box weight (kg) |
|--------------------------------|-------------|------------|-----|-----|-----------------|
| FN15188_STELLA-FRESNEL         | Single lens | 135        | 135 | 15  | 6.1             |
| » Box size: 480 x 280 x 300 mm |             |            |     |     |                 |

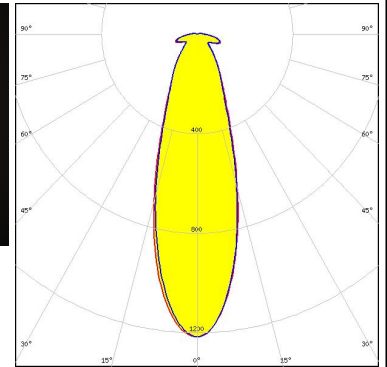


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):

bridgelux

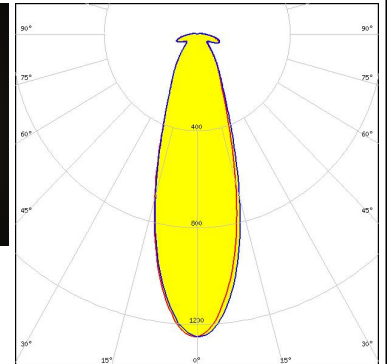
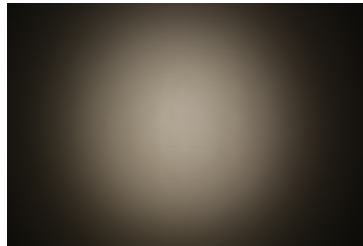
LED V18 Gen7  
FWHM / FWTM 32.0° / 78.0°  
Efficiency 87 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
Bender Wirth: 439 Typ L3



Light distribution files

bridgelux

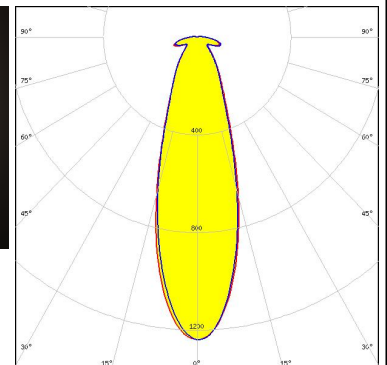
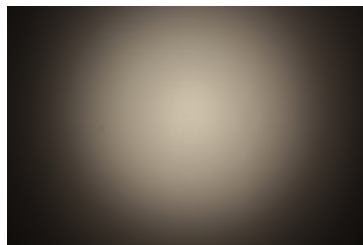
LED Vero SE 18  
FWHM / FWTM 32.0° / 76.0°  
Efficiency 88 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

bridgelux

LED VERO18  
FWHM / FWTM 32.0° / 76.0°  
Efficiency 88 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

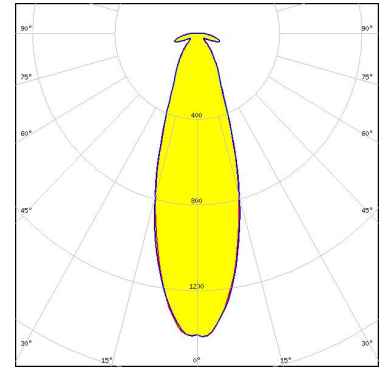


Light distribution files

#### OPTICAL RESULTS (MEASURED):

### CITIZEN

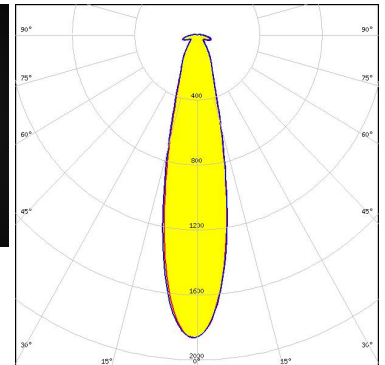
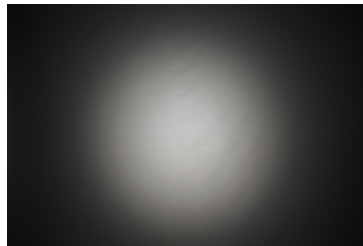
LED CLL04x/CLU04x  
 FWHM / FWTM 36.0° / 99.0°  
 Efficiency 86 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



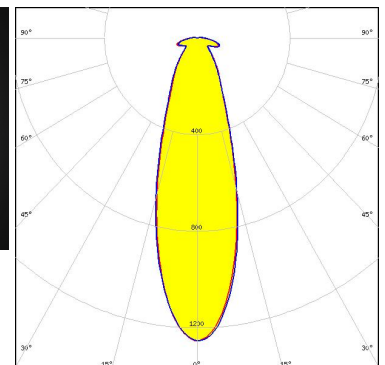
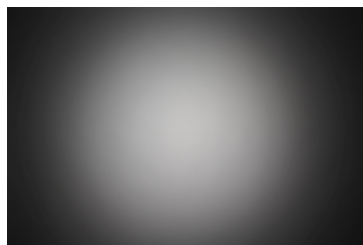
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM / FWTM 24.0° / 59.0°  
 Efficiency 86 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED CXA/B 25xx  
 FWHM / FWTM 32.0° / 77.0°  
 Efficiency 87 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 439 Typ L3



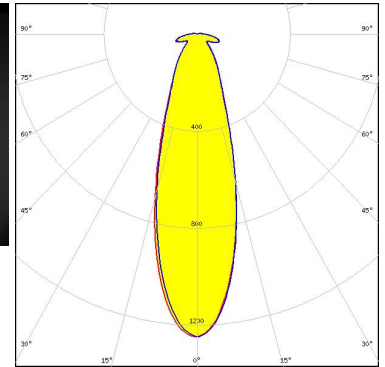
Light distribution files



#### OPTICAL RESULTS (MEASURED):



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



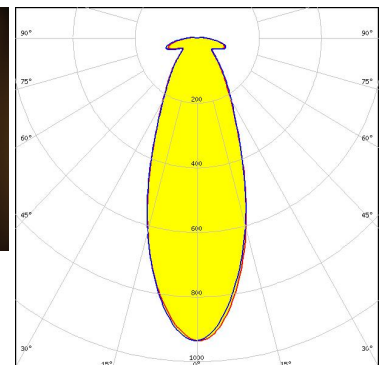
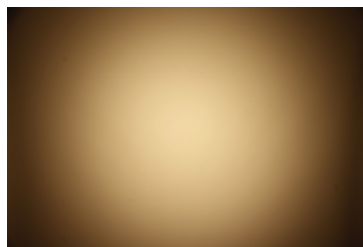
Light distribution files



LED LUXEON CoB 1213/1216/1812  
 FWHM / FWTM 39.0° / 86.0°  
 Efficiency 86 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

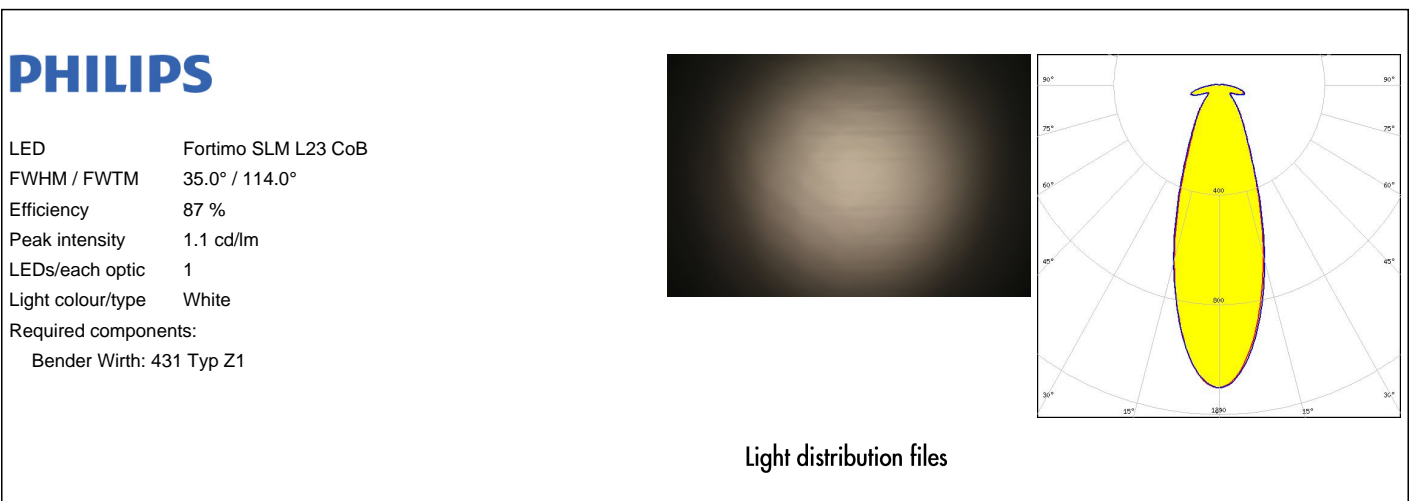
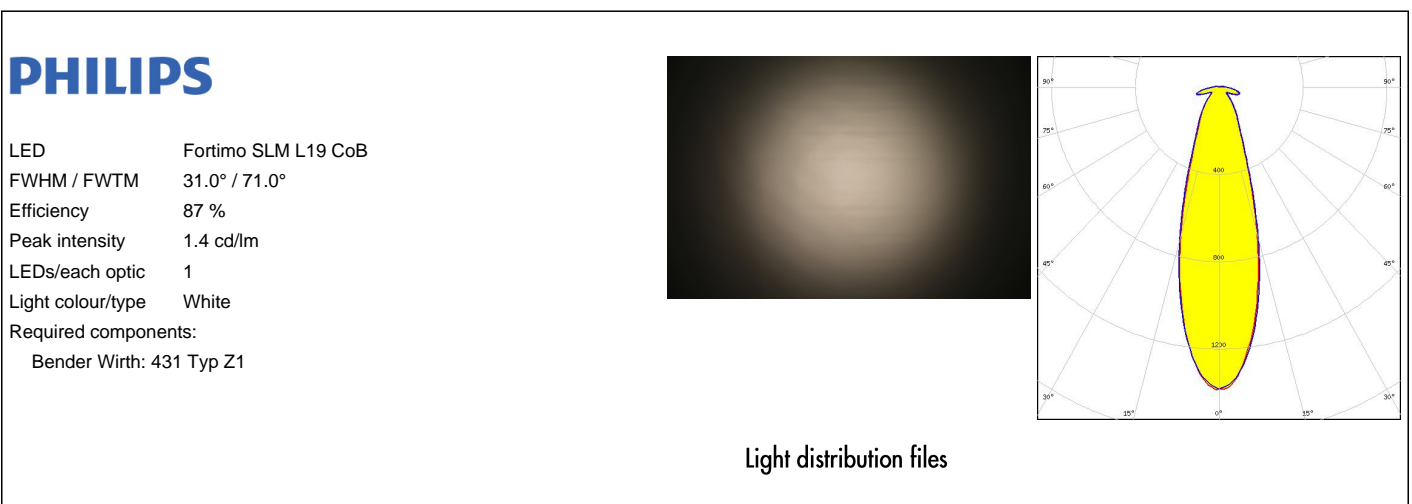
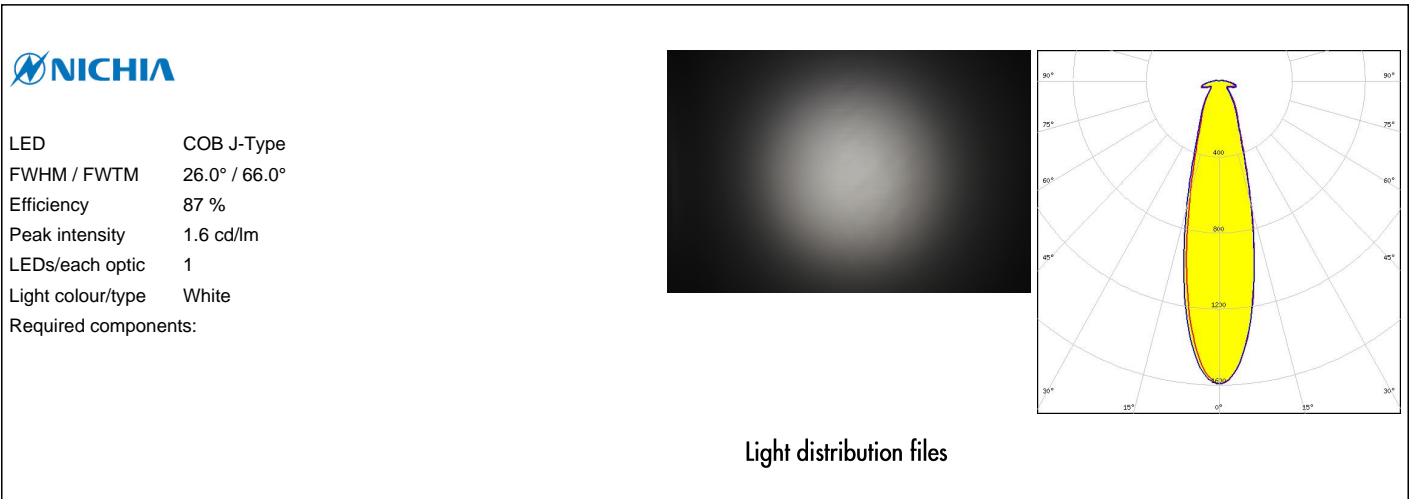


LED CxM-22 (28x28)  
 FWHM / FWTM 39.0° / 137.0°  
 Efficiency 88 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 431 Typ L3



Light distribution files

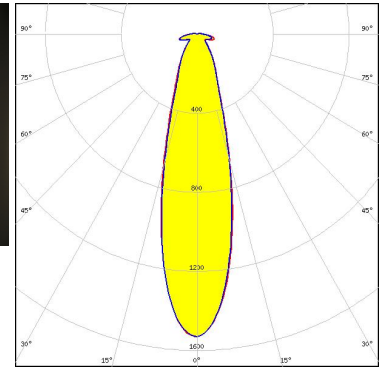
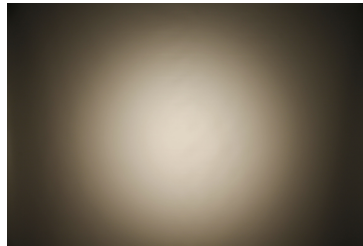
### OPTICAL RESULTS (MEASURED):



#### OPTICAL RESULTS (MEASURED):

### SAMSUNG

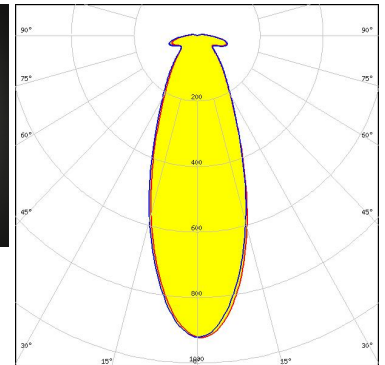
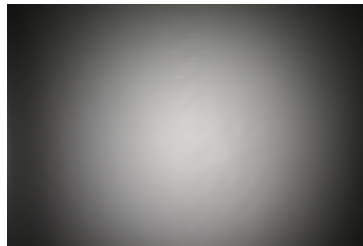
LED LC016D / LC019D / LC026D / LC033D  
 FWHM / FWTM 28.0° / 67.0°  
 Efficiency 86 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

### SAMSUNG

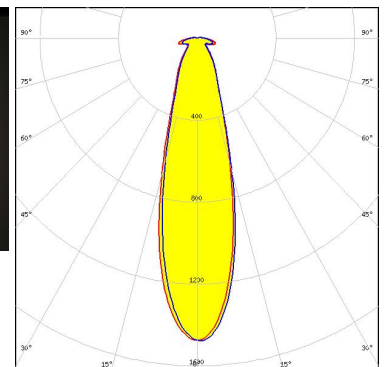
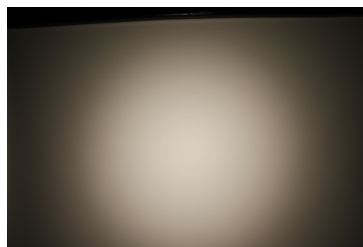
LED LC040D / LC060D / LC080D  
 FWHM / FWTM 38.0° / 122.0°  
 Efficiency 86 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files




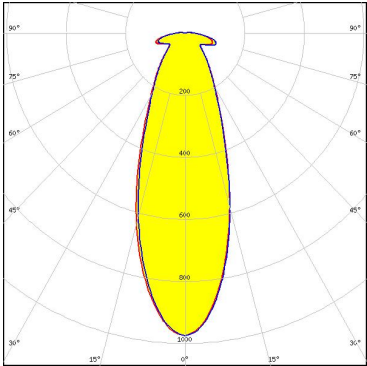
LED MJT COB LES 14.5  
 FWHM / FWTM 28.0° / 68.0°  
 Efficiency 86 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 IDEAL: 50-2103CT



Light distribution files

#### OPTICAL RESULTS (MEASURED):

|  |                |
|--|----------------|
| <br>SEKOL SEMICONDUCTOR |                |
| LED  | MJT COB LES 22 |
| FWHM / FWTM  | 36.0° / 120.0° |
| Efficiency   | 87 %           |
| Peak intensity   | 1 cd/lm        |
| LEDs/each optic  | 1              |
| Light colour/type  | White          |
| Required components:   |                |
| IDEAL: 50-2204CT   |                |



Light distribution files

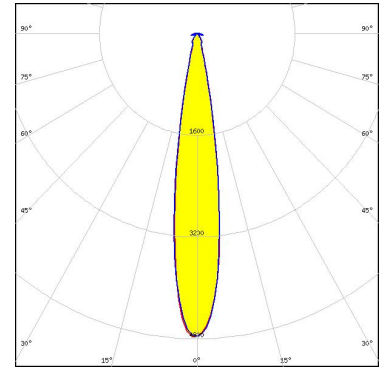
### OPTICAL RESULTS (SIMULATED):



LED V10 Gen7  
FWHM / FWTM 17.0° / 31.0°  
Efficiency 85 %  
Peak intensity 4.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Bender Wirth: 486 Typ L1

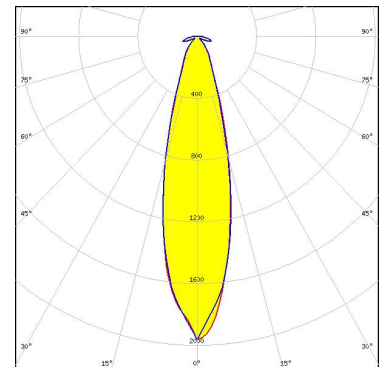
Light distribution files



LED V18 Gen7  
FWHM / FWTM 26.0° / 57.0°  
Efficiency 85 %  
Peak intensity 2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

BJB: 47.319.2350

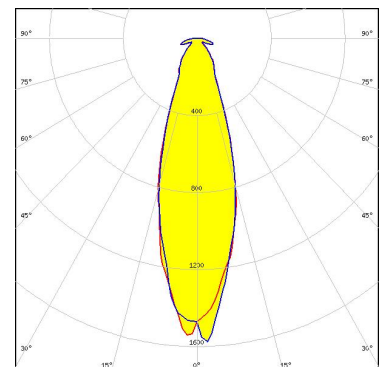
Light distribution files



LED V22 Gen7  
FWHM / FWTM 30.0° / 70.0°  
Efficiency 84 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

IDEAL: 50-2204CT

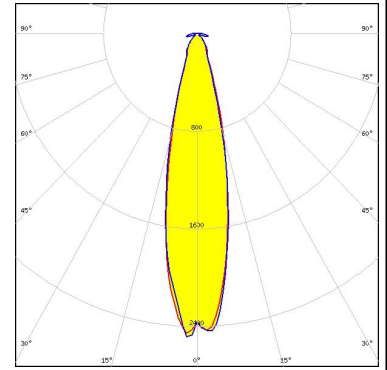
Light distribution files



#### OPTICAL RESULTS (SIMULATED):



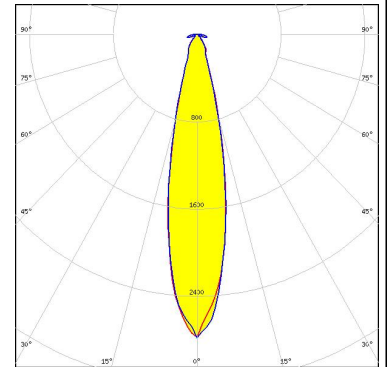
LED CXA/B 25xx  
FWHM / FWTM 24.0° / 47.0°  
Efficiency 86 %  
Peak intensity 2.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED LUXEON CoB 1208  
FWHM / FWTM 22.0° / 43.0°  
Efficiency 85 %  
Peak intensity 2.8 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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