

## STELLA-VSM

IESNA Type V (square) for wide areas lighting such as car parks. Compatible with up to 30 mm LES size COBs. Variant with black frame.

### SPECIFICATION:

Dimensions	Ø 90.0 mm
Height	20.7 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes ⓘ

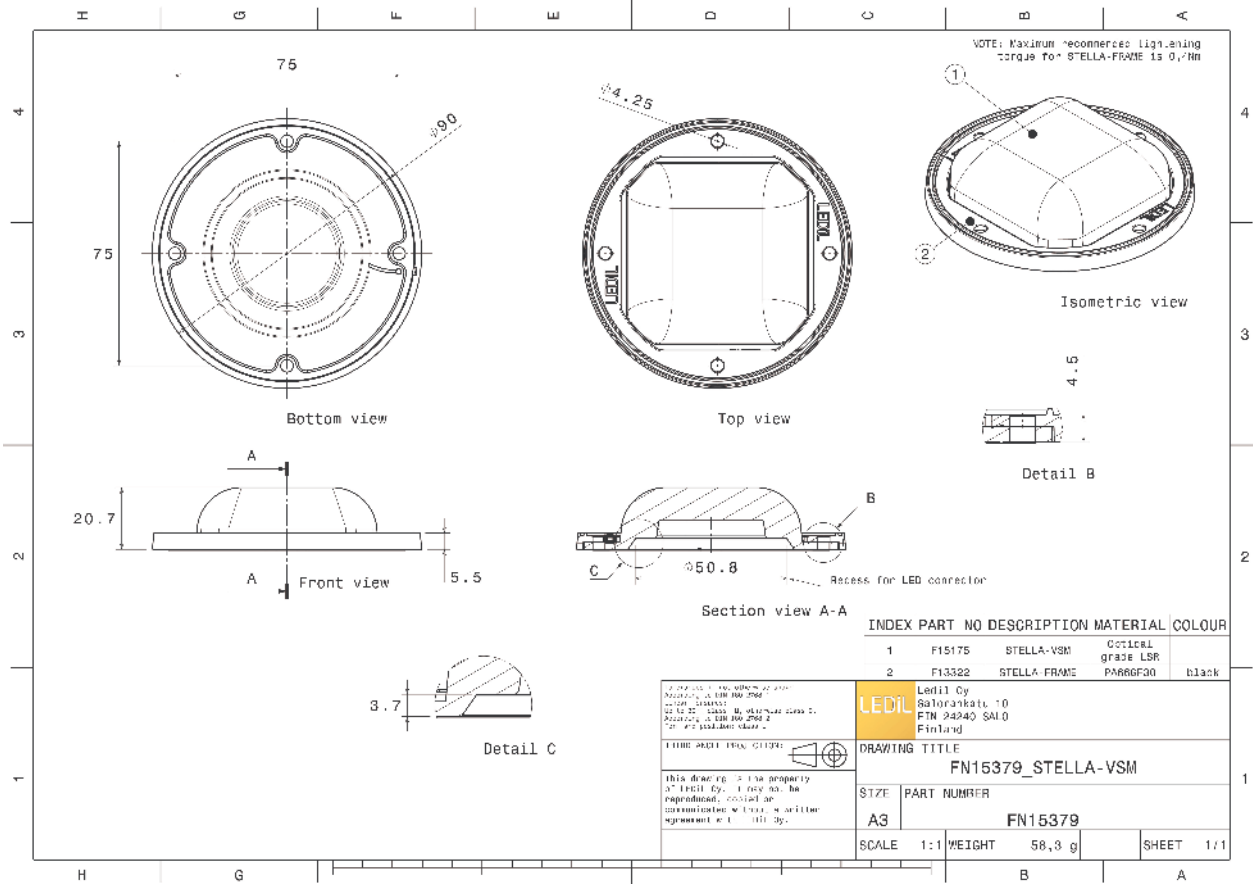


### MATERIALS:

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


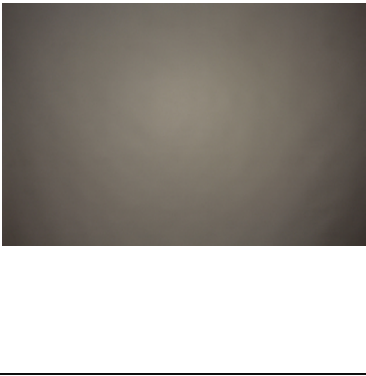
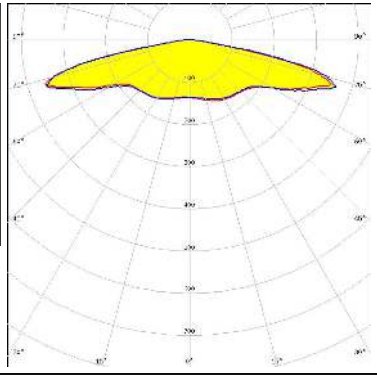

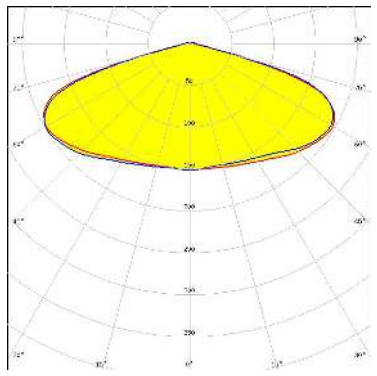

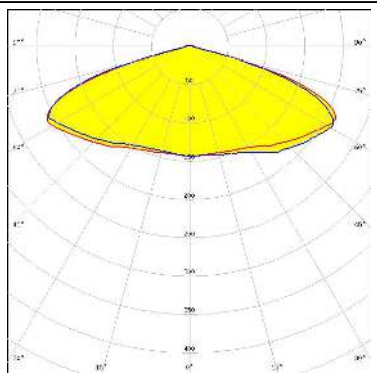

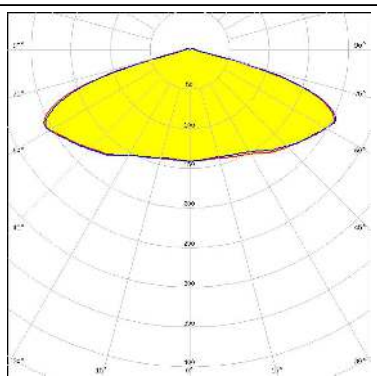
### ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
FN15379_STELLA-VSM	Single lens	135	135	15	9.2
» Box size: 480 x 280 x 300 mm					


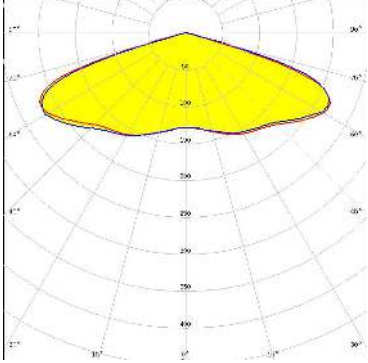


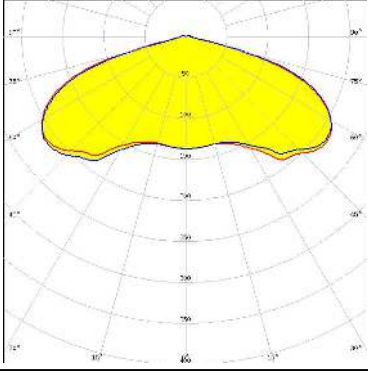

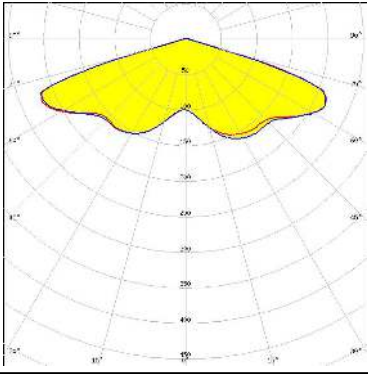

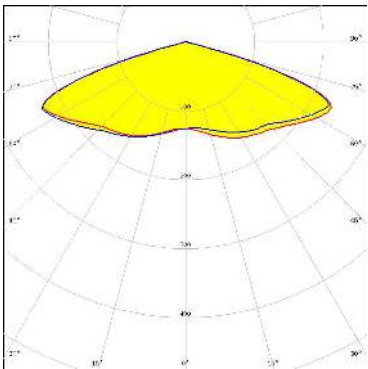


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):

<p></p> <p>LED V18 Gen7            FWHM / FWTM Asymmetric            Efficiency 94 %            Peak intensity 0.4 cd/lm            LEDs/each optic 1            Light colour White            Required components:            Bender Wirth: 439 Typ L3</p>		
<p></p> <p>LED V22 Gen7            FWHM / FWTM Asymmetric            Efficiency 94 %            Peak intensity 0.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:            TE Connectivity: 2213480-1</p>		
<p></p> <p>LED V22 Gen7            FWHM / FWTM Asymmetric            Efficiency 94 %            Peak intensity 0.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:            Bender Wirth: 431 Typ Z1</p>		
<p></p> <p>LED V22 Gen7            FWHM / FWTM Asymmetric            Efficiency 93 %            Peak intensity 0.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		

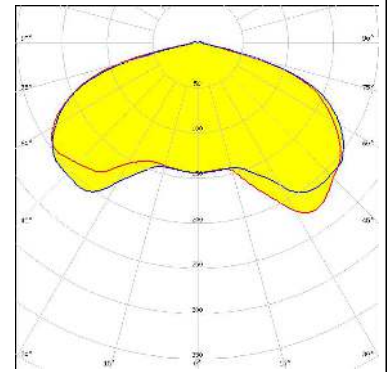
#### OPTICAL RESULTS (MEASURED):

<p></p> <p>LED Vero SE 18</p> <p>FWHM / FWTM Asymmetric</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p></p> <p>LED Vero SE 29</p> <p>FWHM / FWTM Asymmetric</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p></p> <p>LED VERO13</p> <p>FWHM / FWTM Asymmetric</p> <p>Efficiency 93 %</p> <p>Peak intensity 0.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p></p> <p>LED VERO18</p> <p>FWHM / FWTM Asymmetric</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

#### OPTICAL RESULTS (MEASURED):

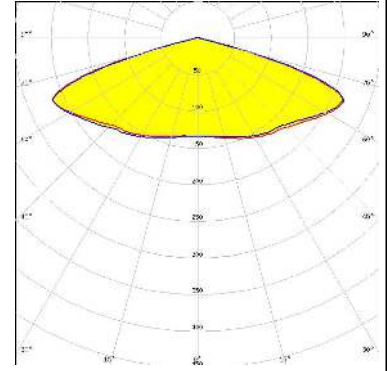
### CITIZEN

LED CLL05x/CLU05x  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



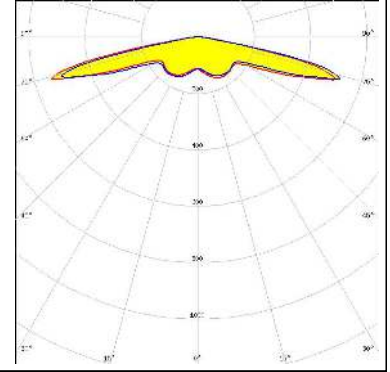
### CREE LED

LED CMA2550  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



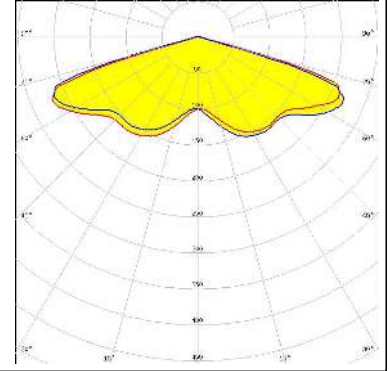
### CREE LED

LED CMT19xx  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 477 Typ Z1

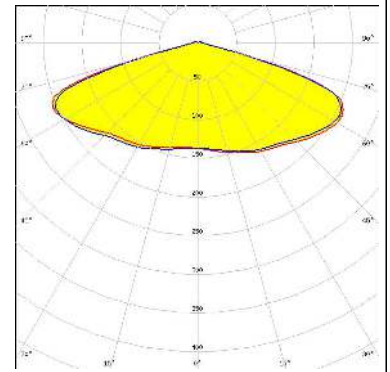
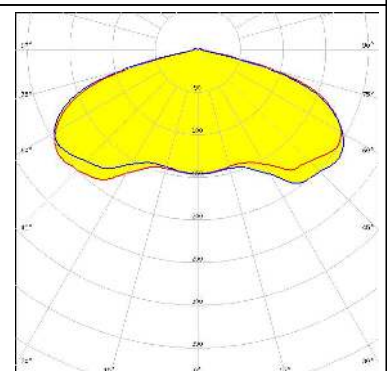
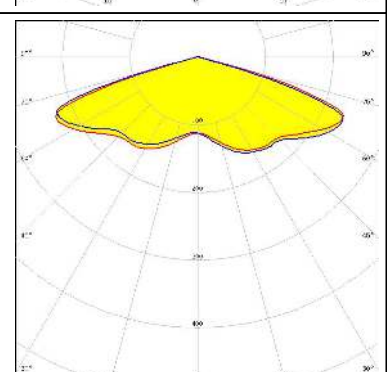
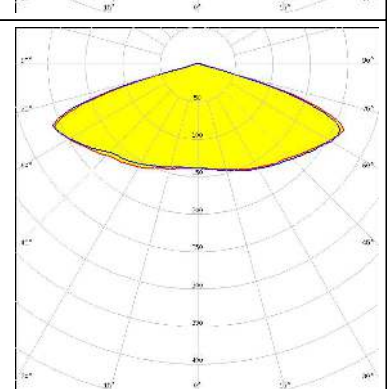


### CREE LED

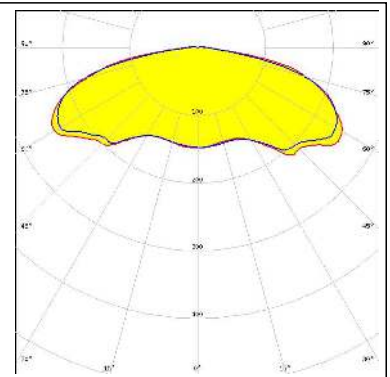
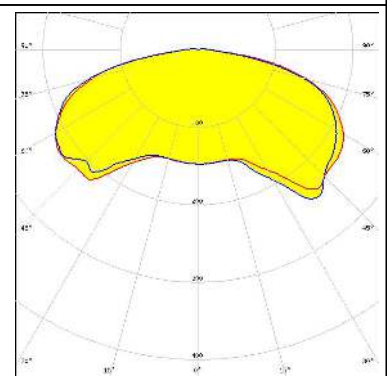
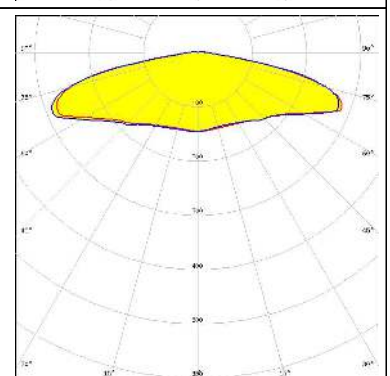
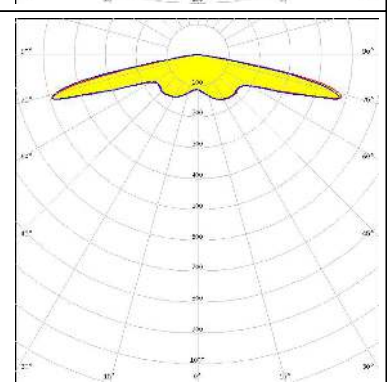
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM / FWTM Asymmetric  
 Efficiency 93 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OPTICAL RESULTS (MEASURED):

<p><b>CREE</b> LED</p> <p>LED CXA/B 25xx            FWHM / FWTM Asymmetric            Efficiency 94 %            Peak intensity 0.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:            Bender Wirth: 439 Typ L3</p>	
<p><b>CREE</b> LED</p> <p>LED CXA/B 3590            FWHM / FWTM Asymmetric            Efficiency 94 %            Peak intensity 0.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1208            FWHM / FWTM Asymmetric            Efficiency 94 %            Peak intensity 0.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1211            FWHM / FWTM Asymmetric            Efficiency 93 %            Peak intensity 0.4 cd/lm            LEDs/each optic 1            Light colour White            Required components:            Bender Wirth: 431 Typ L3</p>	

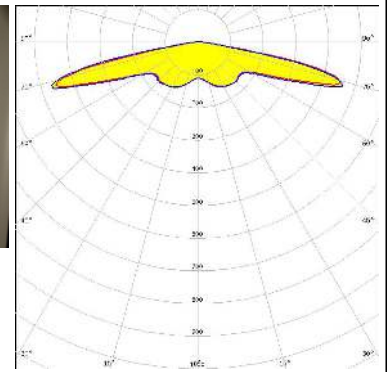
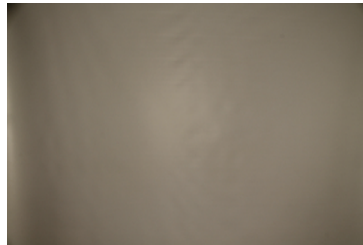
#### OPTICAL RESULTS (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1321</p> <p>FWHM / FWTM Asymmetric</p> <p>Efficiency 93 %</p> <p>Peak intensity 0.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1825</p> <p>FWHM / FWTM Asymmetric</p> <p>Efficiency 93 %</p> <p>Peak intensity 0.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>NICHIA</b></p> <p>LED COB H-Type</p> <p>FWHM / FWTM Asymmetric</p> <p>Efficiency 93 %</p> <p>Peak intensity 0.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>NICHIA</b></p> <p>LED COB J-Type</p> <p>FWHM / FWTM Asymmetric</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

#### OPTICAL RESULTS (MEASURED):

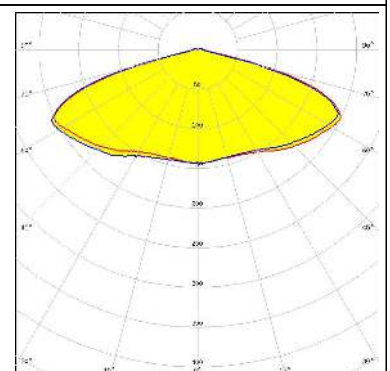
### SAMSUNG

LED LC016D / LC019D / LC026D / LC033D  
 FWHM / FWTM Asymmetric  
 Efficiency 93 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

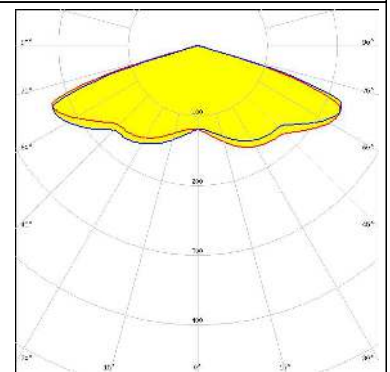


### SAMSUNG

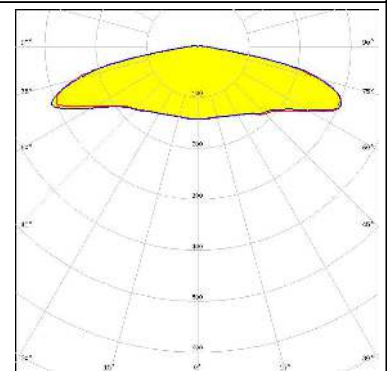
LED LC040D / LC060D / LC080D  
 FWHM / FWTM Asymmetric  
 Efficiency 93 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



SEOUL SEMICONDUCTOR  
 LED MJT COB LES 14.5  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 433 Typ Z1



SEOUL SEMICONDUCTOR  
 LED MJT COB LES 22  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 431 Typ Z1


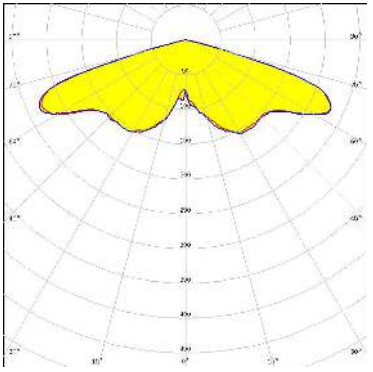

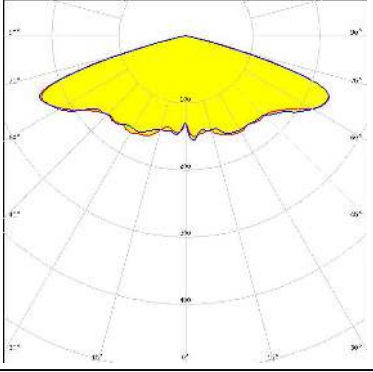

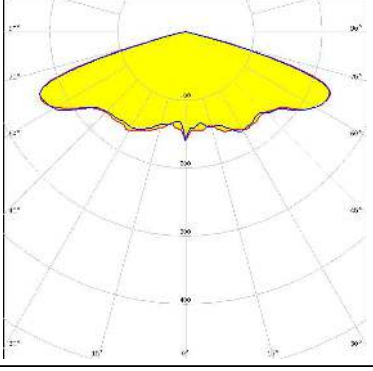
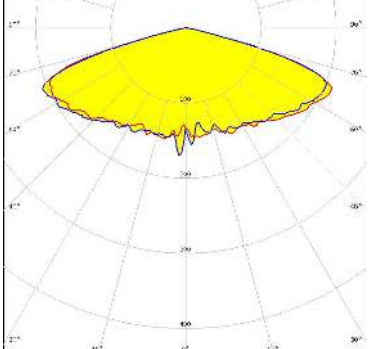




### OPTICAL RESULTS (MEASURED):



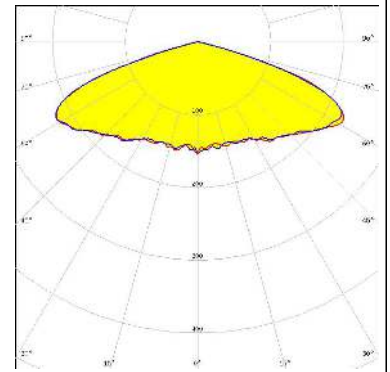
### OPTICAL RESULTS (SIMULATED):

<p></p> <p>LED V10 Gen7            FWHM / FWTM Asymmetric            Efficiency 93 %            Peak intensity 0.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:            Bender Wirth: 486 Typ L1</p>	
<p></p> <p>LED V13 Gen7            FWHM / FWTM Asymmetric            Efficiency 97 %            Peak intensity 0.4 cd/lm            LEDs/each optic 1            Light colour White            Required components:            Bender Wirth: 477 Typ Z1</p>	
<p></p> <p>LED V13 Gen7            FWHM / FWTM Asymmetric            Efficiency 98 %            Peak intensity 0.4 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>CITIZEN</b></p> <p>LED CLL04x/CLU04x            FWHM / FWTM Asymmetric            Efficiency 93 %            Peak intensity 0.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	

#### OPTICAL RESULTS (SIMULATED):

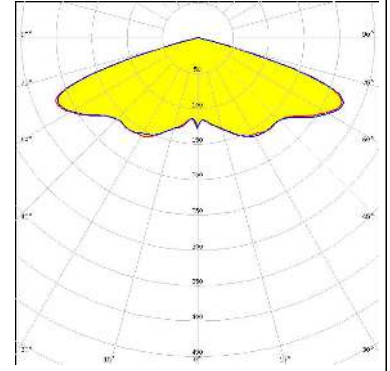
### CITIZEN

LED CLL04x/CLU04x  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 431 Typ Z1



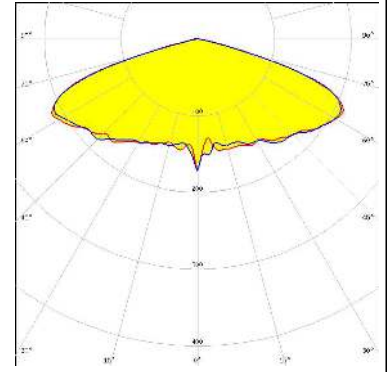
### CREE LED

LED CMU15xx  
 FWHM / FWTM Asymmetric  
 Efficiency 93 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



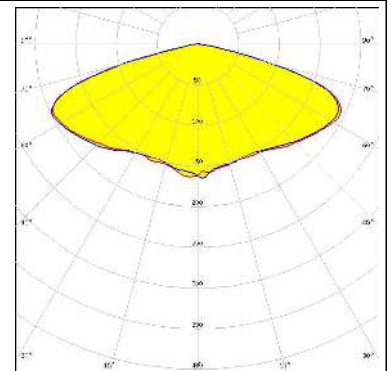
### CREE LED

LED CXA/B 30xx  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 447 Typ Z1



### LUMILEDS

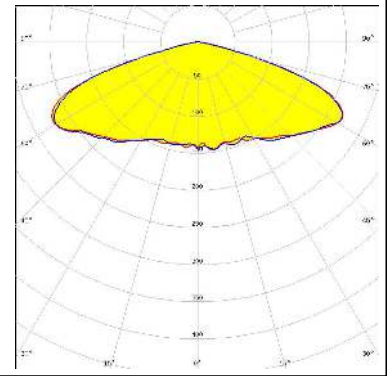
LED LUXEON CoB 1213/1216/1812  
 FWHM / FWTM Asymmetric  
 Efficiency 92 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (SIMULATED):



LED	CxM-22 (28x28)
FWHM / FWTM	Asymmetric
Efficiency	94 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Bender Wirth: 431 Typ Z1	



### 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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