

## STELLA-DWC2

Universal road lighting (IESNA Type II Medium) beam with excellent mixed illuminance and luminance uniformity. Compatible with up to 23 mm LES size COBs. Variant with black frame..

### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 90.0 mm
Height	19.3 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes 

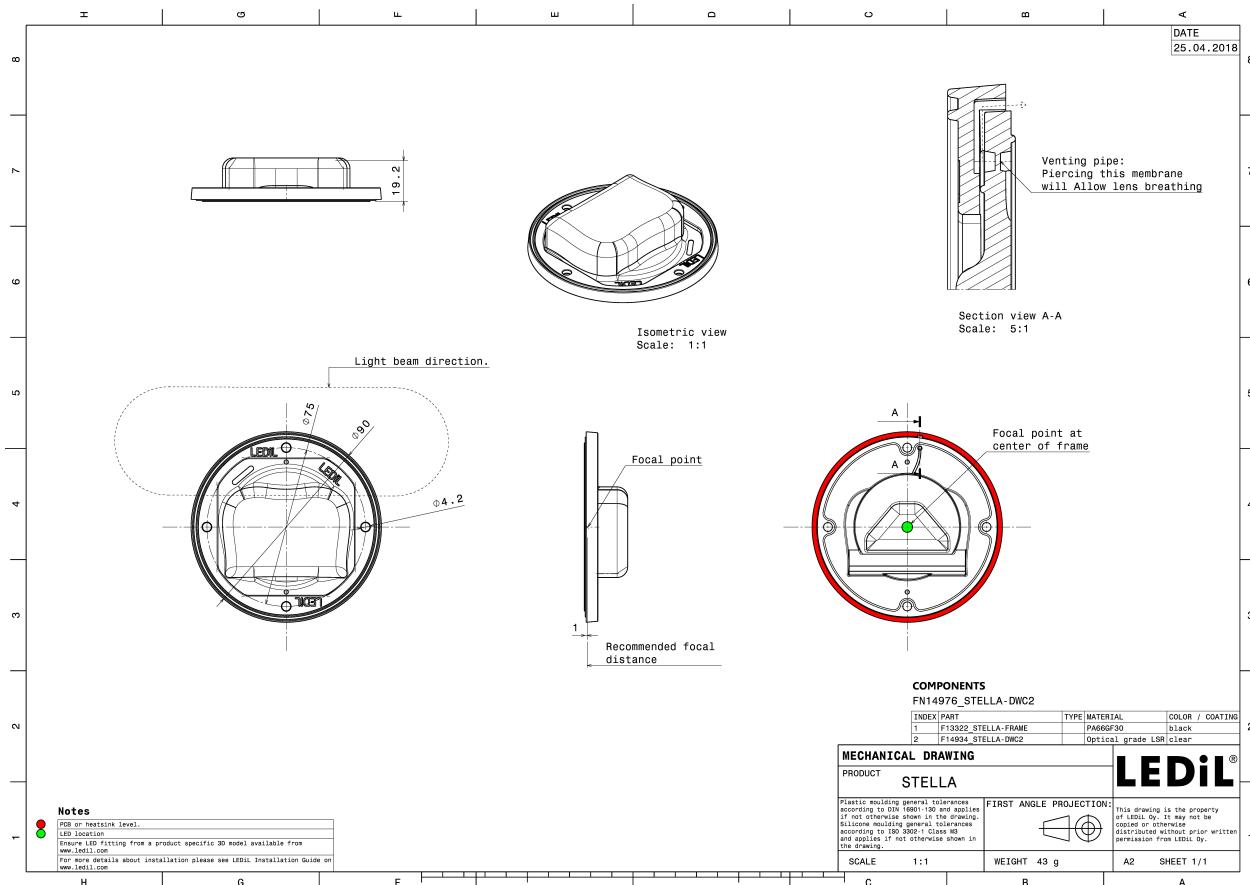


### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
STELLA-DWC2	Single lens	Silicone	clear	
STELLA-FRAME	Holder	PA66	black	

### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
FN14976_STELLA-DWC2 » Box size: 480 x 280 x 300 mm	Single lens	135	135	15

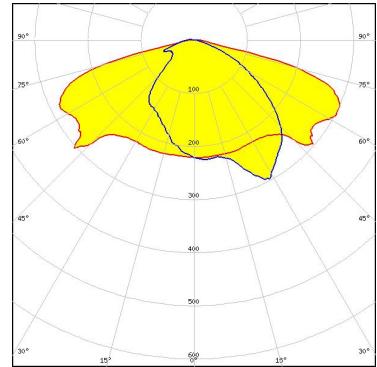


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

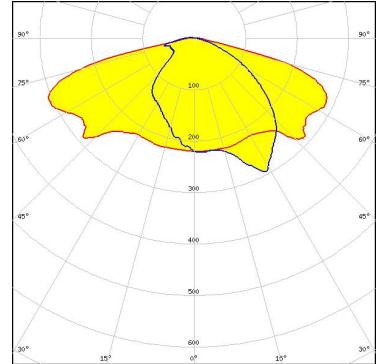
### PHOTOMETRIC DATA (MEASURED):



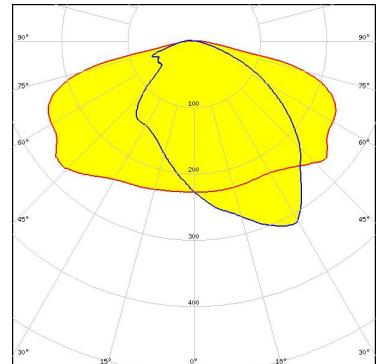
**LED** V18 Gen7  
**FWHM** Asymmetric  
**Efficiency** 90 %  
**Peak intensity** 0.4 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 Bender Wirth: 439 Typ L3



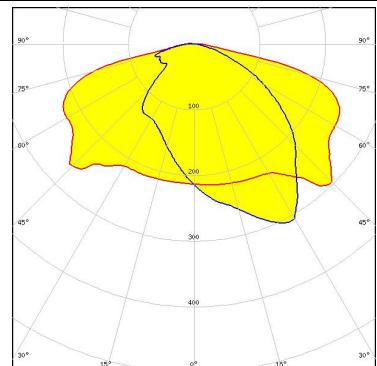
**LED** V18 Gen7  
**FWHM** Asymmetric  
**Efficiency** 89 %  
**Peak intensity** 0.4 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



**LED** V22 Gen7  
**FWHM** Asymmetric  
**Efficiency** 91 %  
**Peak intensity** 0.3 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 TE: 2213480-1



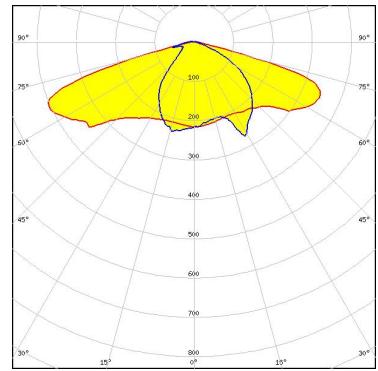
**LED** V22 Gen7  
**FWHM** Asymmetric  
**Efficiency** 88 %  
**Peak intensity** 0.4 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



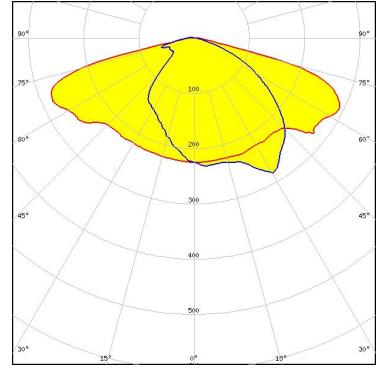
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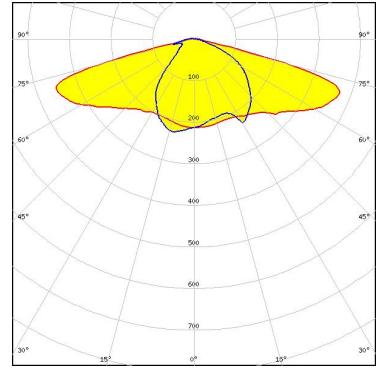
LED Vero SE 13  
 FWHM Asymmetric  
 Efficiency 91 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



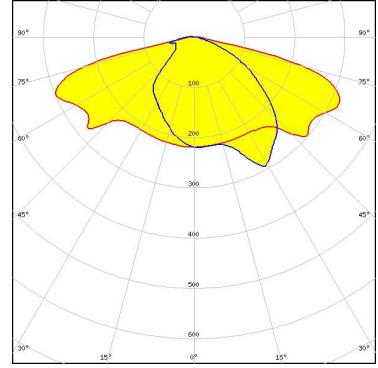
LED Vero SE 18  
 FWHM Asymmetric  
 Efficiency 91 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED VERO13  
 FWHM Asymmetric  
 Efficiency 89 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



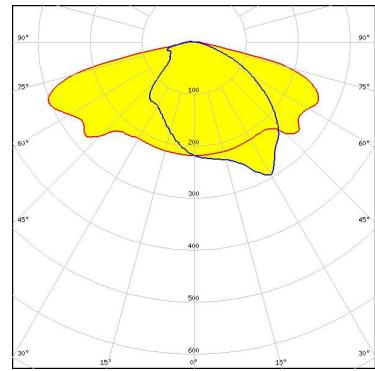
LED VERO18  
 FWHM Asymmetric  
 Efficiency 90 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### PHOTOMETRIC DATA (MEASURED):

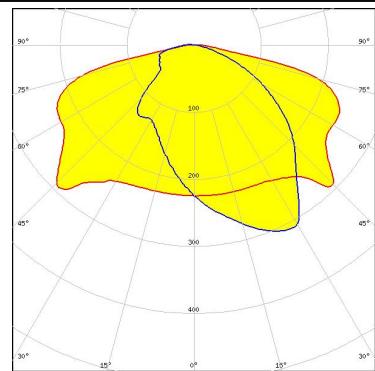
**CREE** 

LED CMA2550  
FWHM Asymmetric  
Efficiency 89 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



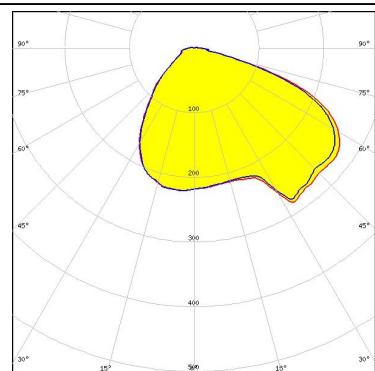
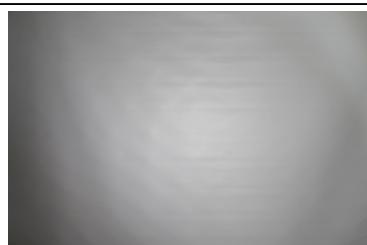
**CREE** 

LED CMA3090  
FWHM Asymmetric  
Efficiency 89 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



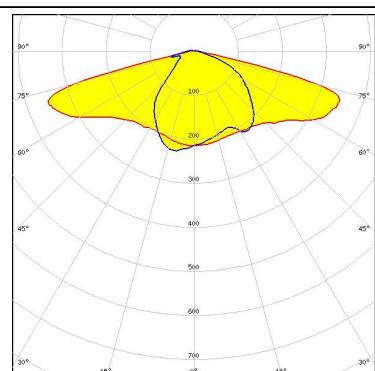
**CREE** 

LED CMT19xx  
FWHM Asymmetric  
Efficiency 90 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
Bender Wirth: 477 Typ Z1



**CREE** 

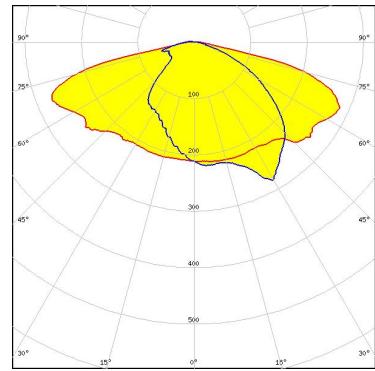
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
FWHM Asymmetric  
Efficiency 88 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### PHOTOMETRIC DATA (MEASURED):

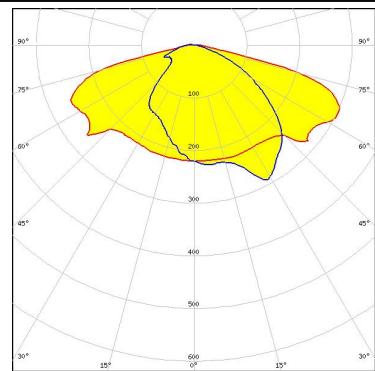
**CREE** 

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



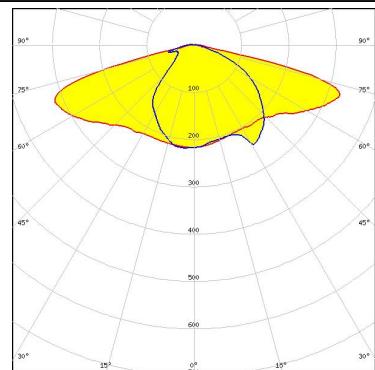
**CREE** 

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



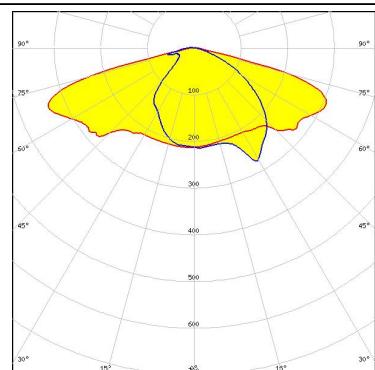
**NICHIA** 

LED COB J-Type  
FWHM Asymmetric  
Efficiency 89 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



**OSRAM**

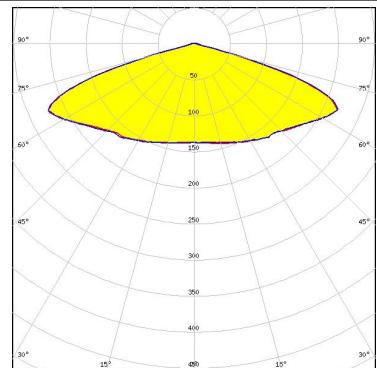
Opto Semiconductors  
LED SoleriQ S19  
FWHM Asymmetric  
Efficiency 90 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### PHOTOMETRIC DATA (MEASURED):

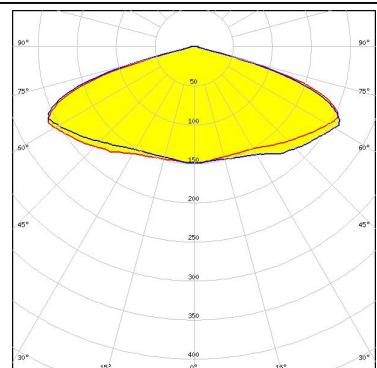
#### PHILIPS

LED Fortimo SLM L19 CoB  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 431 Typ Z1



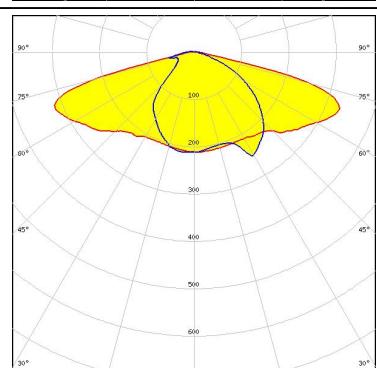
#### PHILIPS

LED Fortimo SLM L23 CoB  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 431 Typ Z1



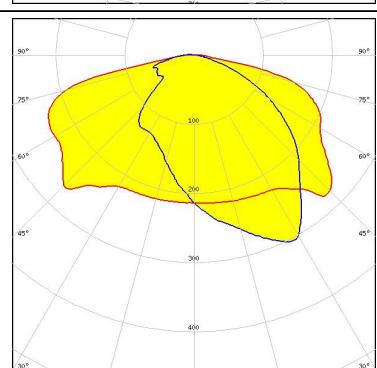
#### SAMSUNG

LED LC016D / LC019D / LC026D / LC033D  
 FWHM Asymmetric  
 Efficiency 88 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### SAMSUNG

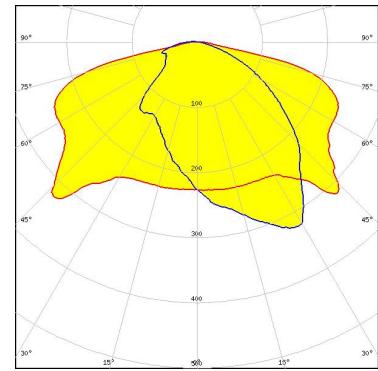
LED LC040D / LC060D / LC080D  
 FWHM Asymmetric  
 Efficiency 88 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### PHOTOMETRIC DATA (MEASURED):

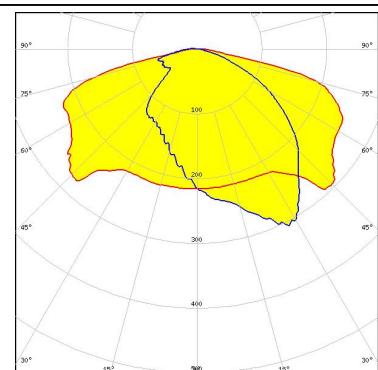
#### SAMSUNG

LED LC040D / LC060D / LC080D  
 FWHM Asymmetric  
 Efficiency 90 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



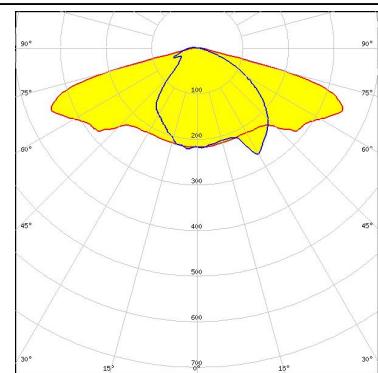
#### SAMSUNG

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



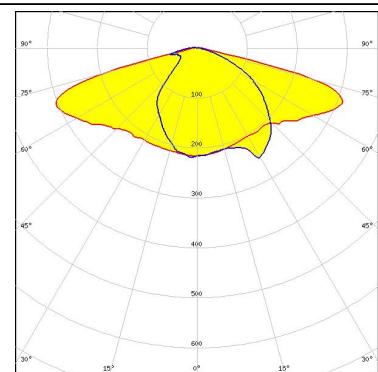
 SEOUL SEMICONDUCTOR

LED MJT COB LES 14.5  
 FWHM Asymmetric  
 Efficiency 90 %  
 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 14.5  
 FWHM Asymmetric  
 Efficiency 88 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



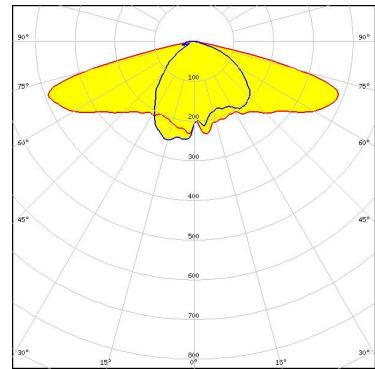
## PHOTOMETRIC DATA (MEASURED):



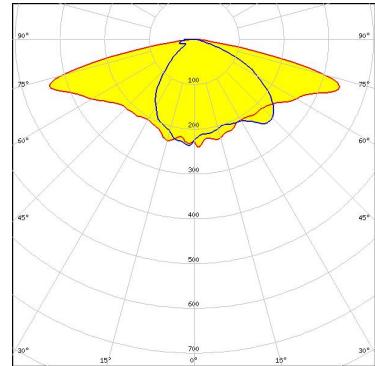
### PHOTOMETRIC DATA (SIMULATED):



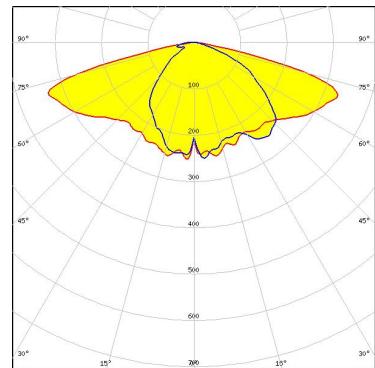
LED V10 Gen7  
 FWHM Asymmetric  
 Efficiency 89 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 486 Typ L1



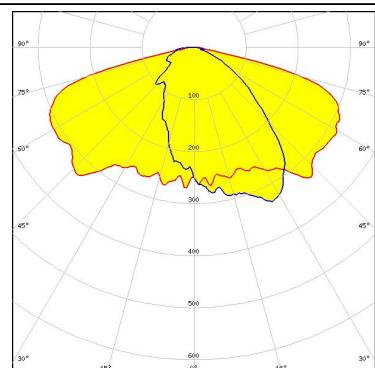
LED V13 Gen7  
 FWHM Asymmetric  
 Efficiency 91 %  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED V13 Gen7  
 FWHM Asymmetric  
 Efficiency 93 %  
 Peak intensity 40.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 477 Typ Z1



LED V22 Gen7  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 431 Typ Z1

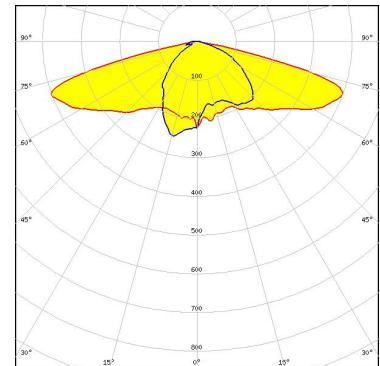


### PHOTOMETRIC DATA (SIMULATED):



LED	VERO10
FWHM	Asymmetric
Efficiency	89 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White

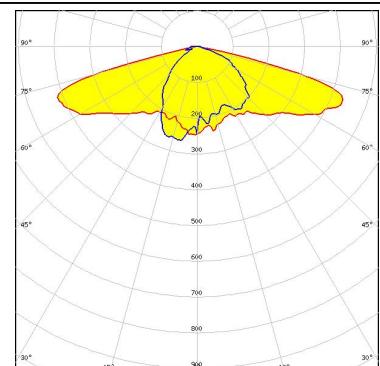
Required components:



### CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM	Asymmetric
Efficiency	92 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White

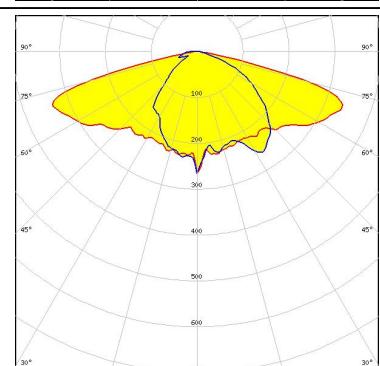
Required components:



### CITIZEN

LED	CLL03x/CLU03x
FWHM	Asymmetric
Efficiency	91 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

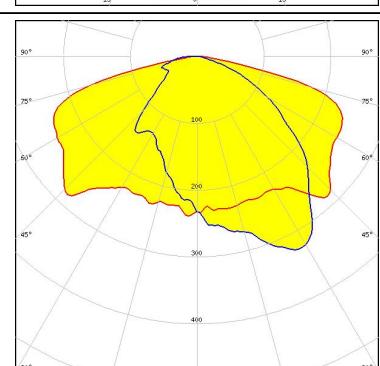


### CITIZEN

LED	CLL04x/CLU04x
FWHM	Asymmetric
Efficiency	91 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

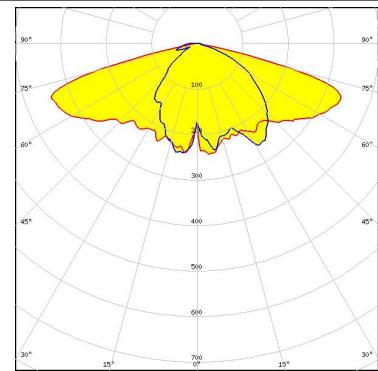
Bender Wirth: 431 Typ Z1



### PHOTOMETRIC DATA (SIMULATED):

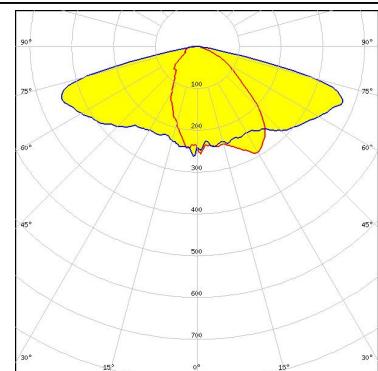
#### CREE

LED CXA/B 1830  
 FWHM Asymmetric  
 Efficiency 91 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



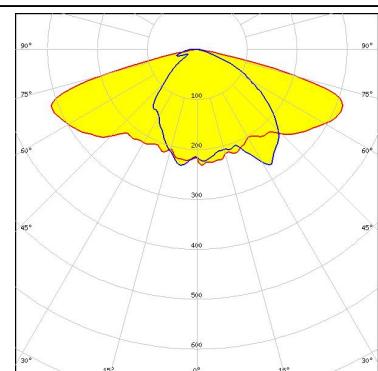
#### CREE

LED CXA/B 25xx  
 FWHM Asymmetric  
 Efficiency 90 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



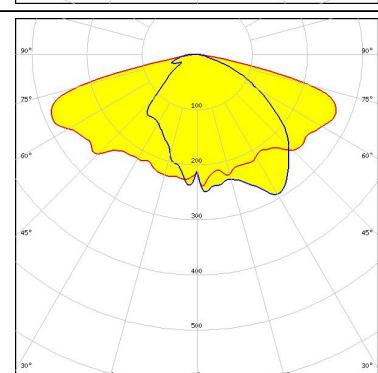
#### LUMILEDS

LED LUXEON CoB 1208  
 FWHM Asymmetric  
 Efficiency 88 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 431 Typ Z1



#### LUMILEDS

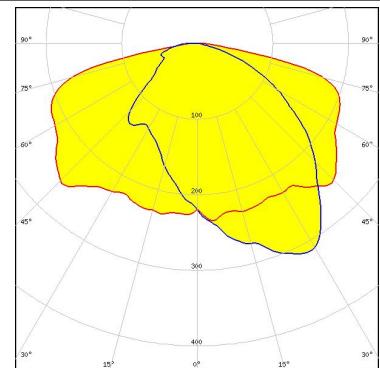
LED LUXEON CoB 1211  
 FWHM Asymmetric  
 Efficiency 89 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 431 Typ Z1



### PHOTOMETRIC DATA (SIMULATED):

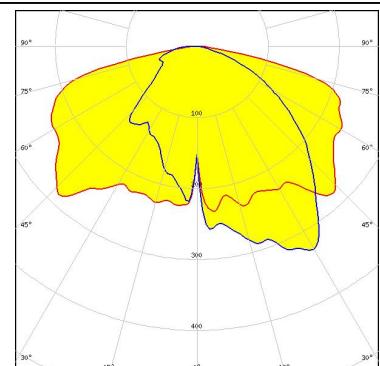
#### LUMILEDS

LED	LUXEON CoB 1216/1812
FWHM	Asymmetric
Efficiency	88 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	Bender Wirth: 431 Typ Z1



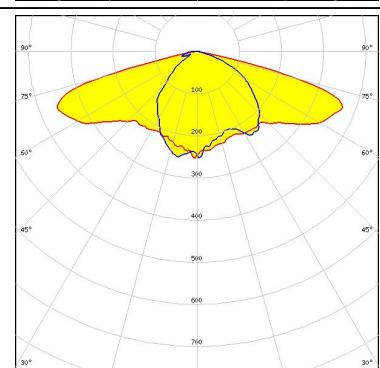
#### LUMINUS

LED	CxM-22 (28x28)
FWHM	Asymmetric
Efficiency	91 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	Bender Wirth: 431 Typ Z1



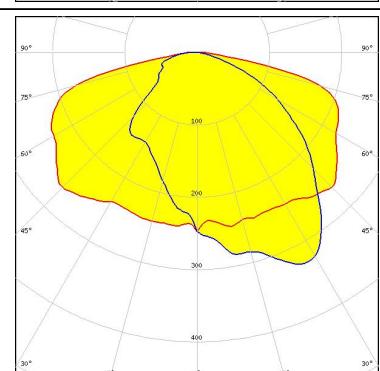
#### OSRAM

LED	Soleriq S13
FWHM	Asymmetric
Efficiency	91 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	Bender Wirth: 477 Typ Z1



#### PHILIPS

LED	Fortimo SLM L23 + SLM holder (PI)
FWHM	Asymmetric
Efficiency	91 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



## 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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