STELLA-FRESNEL

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

SPECIFICATION:

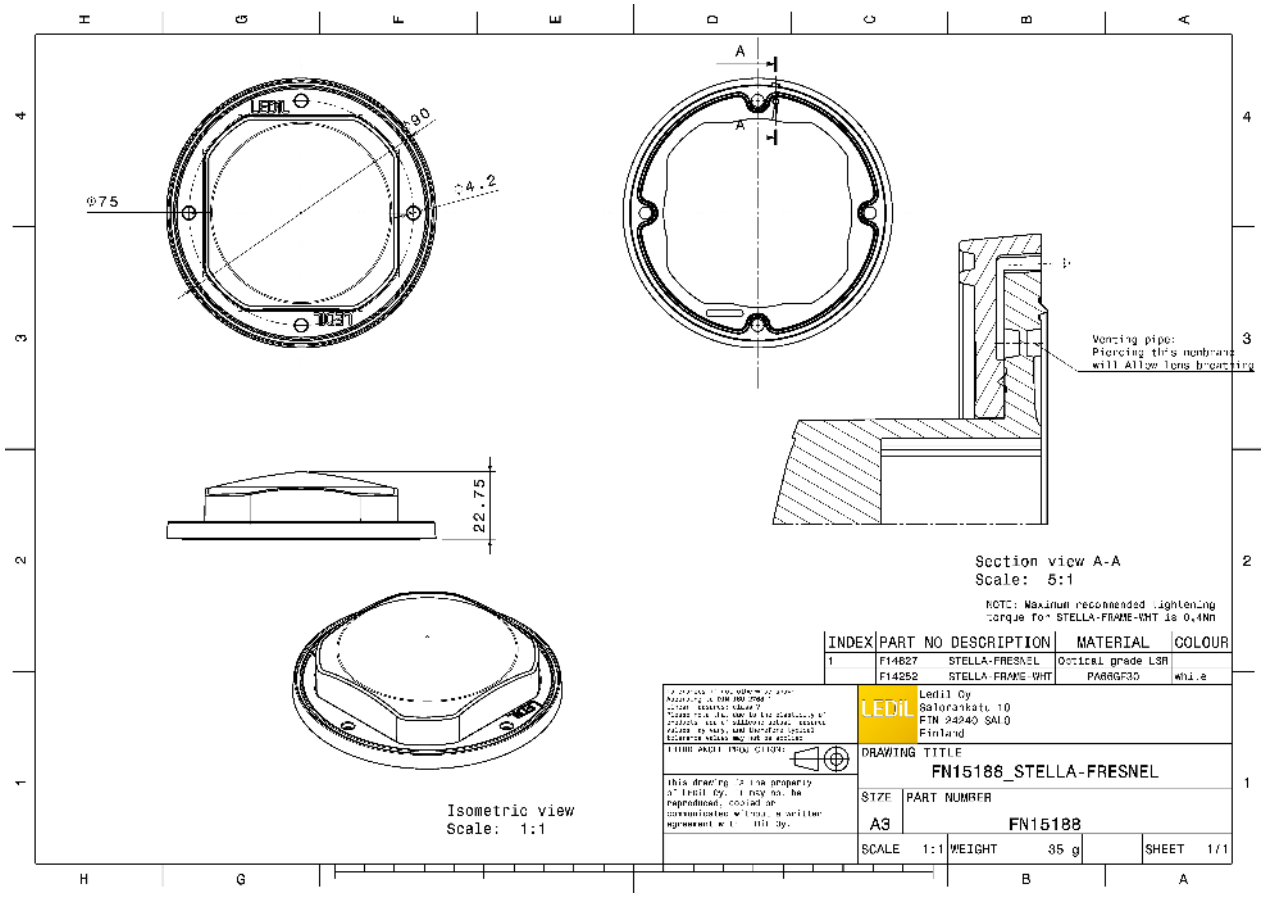
Dimensions	Ø 90.0 mm
Height	23 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes

MATERIALS:

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

ORDERING INFORMATION:

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



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

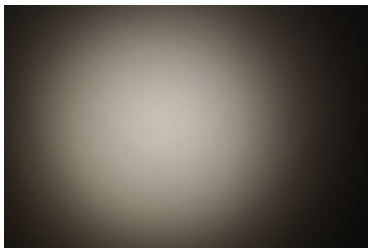
OPTICAL RESULTS (MEASURED):

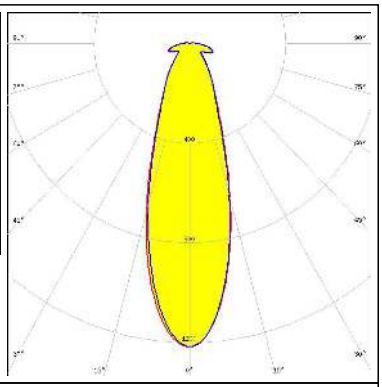
bridgelux

LED	V18 Gen7
FWHM / FWTM	32.0° / 78.0°
Efficiency	87 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

Bender Wirth: 439 Typ L3

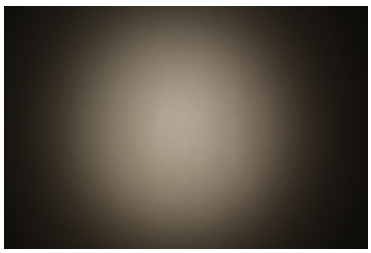


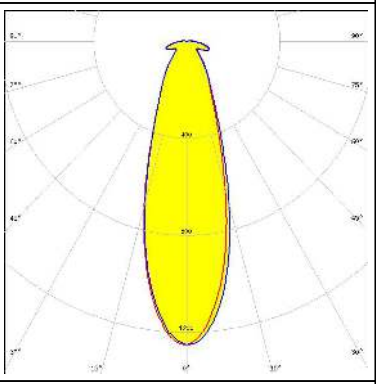


bridgelux

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

Required components:

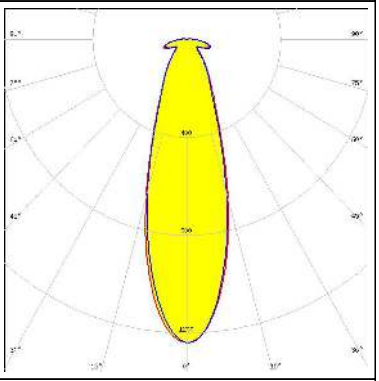




bridgelux

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

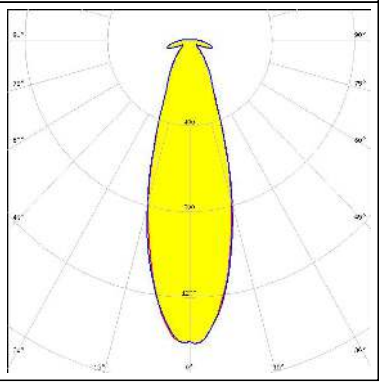
Required components:



CITIZEN

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

Required components:

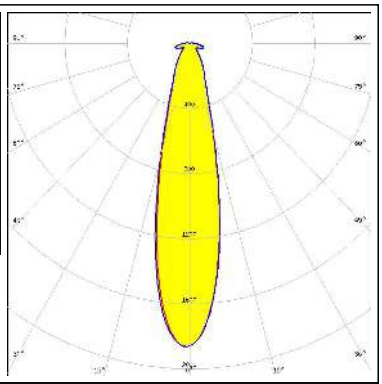


OPTICAL RESULTS (MEASURED):

CREE LED

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	White

Required components:

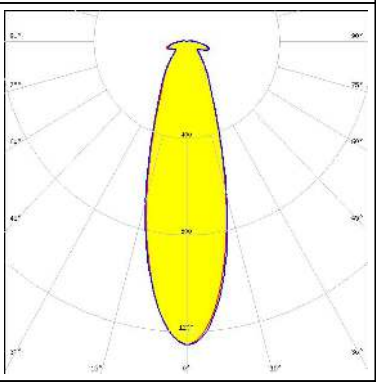


CREE LED

LED	CXA/B 25xx
FWHM / FWTM	32.0° / 77.0°
Efficiency	87 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

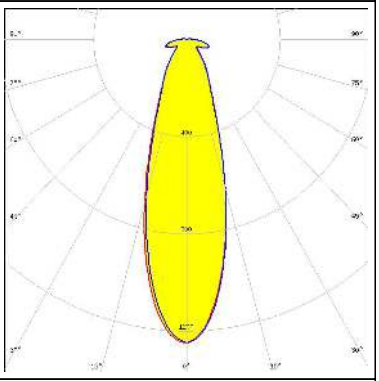
Bender Wirth: 439 Typ L3



CREE LED

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

Required components:



LUMILEDS

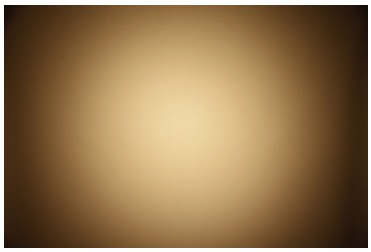
LED	LUXEON CoB 1213/1216/1812
FWHM / FWTM	39.0° / 86.0°
Efficiency	86 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour	White

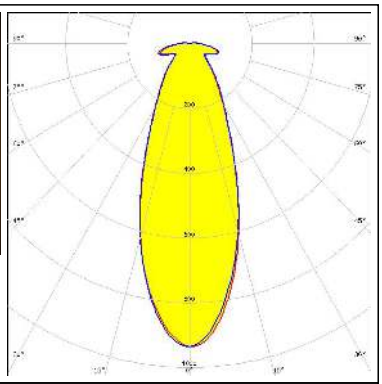
Required components:

OPTICAL RESULTS (MEASURED):

LUMINUS

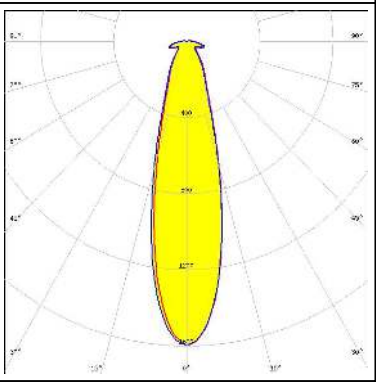
LED	CxM-22 (28x28)
FWHM / FWTM	39.0° / 137.0°
Efficiency	88 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Bender Wirth: 431 Typ L3	





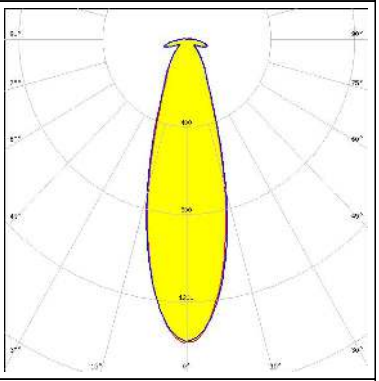
NICHIA

LED	COB J-Type
FWHM / FWTM	26.0° / 66.0°
Efficiency	87 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



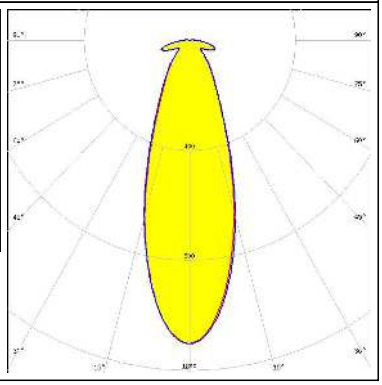
PHILIPS

LED	Fortimo SLM L19 CoB
FWHM / FWTM	31.0° / 71.0°
Efficiency	87 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Bender Wirth: 431 Typ Z1	



PHILIPS

LED	Fortimo SLM L23 CoB
FWHM / FWTM	35.0° / 114.0°
Efficiency	87 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Bender Wirth: 431 Typ Z1	

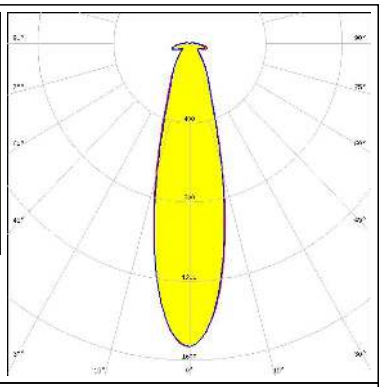


OPTICAL RESULTS (MEASURED):

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	White

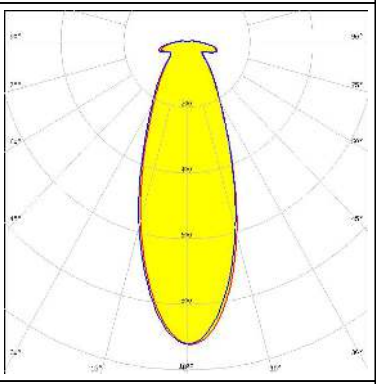
Required components:



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	White

Required components:

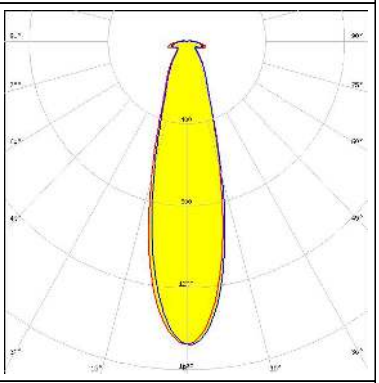


SEOUL SEMICONDUCTOR

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	White

Required components:

IDEAL: 50-2103CT

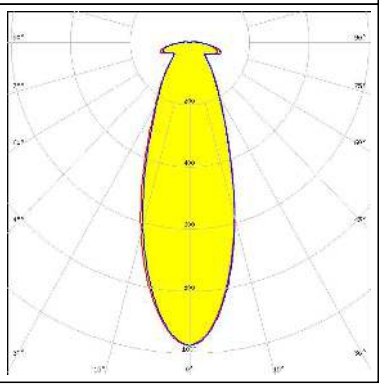


SEOUL SEMICONDUCTOR

LED	MJT COB LES 22
FWHM / FWTM	36.0° / 120.0°
Efficiency	87 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

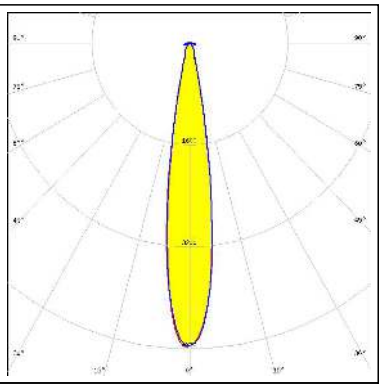
IDEAL: 50-2204CT



OPTICAL RESULTS (SIMULATED):

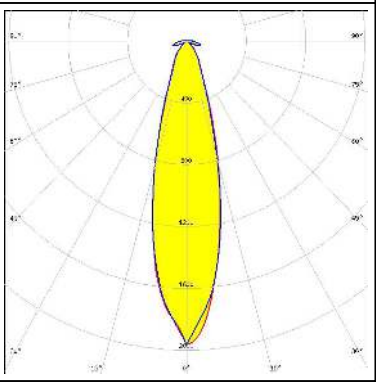
bridgelux

LED	V10 Gen7
FWHM / FWTM	17.0° / 31.0°
Efficiency	85 %
Peak intensity	4.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Bender Wirth: 486 Typ L1	



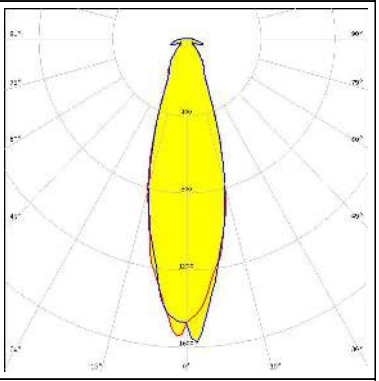
bridgelux

LED	V18 Gen7
FWHM / FWTM	26.0° / 57.0°
Efficiency	85 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
BJB: 47.319.2350	



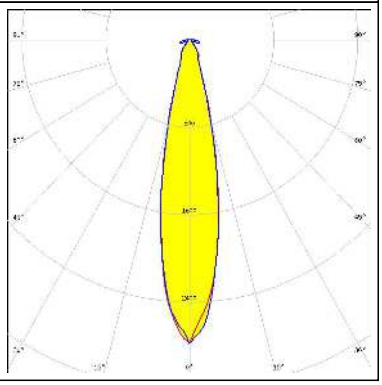
bridgelux

LED	V22 Gen7
FWHM / FWTM	30.0° / 70.0°
Efficiency	84 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
IDEAL: 50-2204CT	



LUMILEDS

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