

## 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 🛈



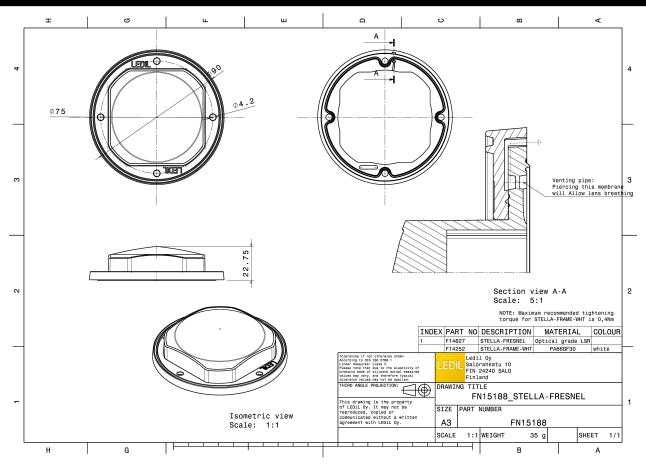
#### **MATERIALS:**

Component	Туре	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	Single lens	135	135	15	6.1
» Box size: 480 x 280 x 300 mm					





See also our general installation guide: <u>www.ledil.com/installation\_guide</u>



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Bender Wirth: 43		20 20 20 20 20 20 20 20 20 20
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	Vero SE 18 32.0° / 76.0° 88 % 1.3 cd/lm 1 White tts:	
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	VERO18 32.0° / 76.0° 88 % 1.2 cd/lm 1 White	25 25 25 25 25 25 25 25 25 25
Required componer CITTIZE LED FWHM / FWTM Efficiency		
Peak intensity LEDs/each optic Light colour Required componer	1.1 cd/lm 1 White	00° 60° 60° 60° 60° 60° 60° 60° 60° 60°



CREE CLE	CXA/B 1816 & CXA/B 1820 & CXA 1850 24.0° / 59.0° 86 % 1.9 cd/lm 1 White	
CREE (LED) FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 25xx 31.0° / 75.0° 86 % 1.2 cd/lm 1 White	50° 000 000 50° 0000
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4	CXA/B 25xx 32.0° / 77.0° 87 % 1.3 cd/lm 1 White ents:	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CoB 1216/1812 39.0° / 86.0° 86 % 0.9 cd/lm 1 White	



	INUS		90* 90*
LED	CxM-22 (28x28)		
FWHM / FWTM	39.0° / 137.0°		73' 73'
Efficiency	88 %		
Peak intensity	0.9 cd/lm		60° 60°
LEDs/each optic	1		
Light colour	White		45* 45*
Required compone			
Bender Wirth: 43			
			30* 30*
			10% 10% 15°
ØNICHI∕			90°
LED	COB J-Type		75'
FWHM / FWTM	26.0° / 66.0°		
Efficiency	87 %		60* 60*
Peak intensity	1.6 cd/lm		
LEDs/each optic	1		
Light colour	White		43° 43°
Required compone	ints:		1200
			30* 30*
DUUI			
PHILIP			25° 0° 15°
LED	Fortimo SLM L19 CoB	100	25° 0° 15°
LED FWHM / FWTM	Fortimo SLM L19 CoB 31.0° / 71.0°	1	32. (c) 12.
LED FWHM / FWTM Efficiency	Fortimo SLM L19 CoB 31.0° / 71.0° 87 %		
LED FWHM / FWTM Efficiency Peak intensity	Fortimo SLM L19 CoB 31.0° / 71.0° 87 % 1.4 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo SLM L19 CoB 31.0° / 71.0° 87 % 1.4 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo SLM L19 CoB 31.0° / 71.0° 87 % 1.4 cd/lm 1 White		57 0° 157
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo SLM L19 CoB 31.0° / 71.0° 87 % 1.4 cd/lm 1 White ints:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo SLM L19 CoB 31.0° / 71.0° 87 % 1.4 cd/lm 1 White ints:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo SLM L19 CoB 31.0° / 71.0° 87 % 1.4 cd/lm 1 White ints:		27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo SLM L19 CoB 31.0° / 71.0° 87 % 1.4 cd/lm 1 White ints:		27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 43	Fortimo SLM L19 CoB 31.0° / 71.0° 87 % 1.4 cd/lm 1 White ints:		27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 43	Fortimo SLM L19 CoB 31.0° / 71.0° 87 % 1.4 cd/lm 1 White Ints: 31 Typ Z1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 43	Fortimo SLM L19 CoB 31.0° / 71.0° 87 % 1.4 cd/lm 1 White Ints: 31 Typ Z1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 43	Fortimo SLM L19 CoB 31.0° / 71.0° 87 % 1.4 cd/lm 1 White I 31 Typ Z1 S Fortimo SLM L23 CoB 35.0° / 114.0°		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 43 PHILLED FWHM / FWTM Efficiency	Fortimo SLM L19 CoB 31.0° / 71.0° 87 % 1.4 cd/lm 1 White mts: 31 Typ Z1 S Fortimo SLM L23 CoB 35.0° / 114.0° 87 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 43 PHILLIE LED FWHM / FWTM Efficiency Peak intensity	Fortimo SLM L19 CoB 31.0° / 71.0° 87 % 1.4 cd/lm 1 White I White I S Fortimo SLM L23 CoB 35.0° / 114.0° 87 % 1.1 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 43 PHILLE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo SLM L19 CoB 31.0° / 71.0° 87 % 1.4 cd/lm 1 White I White I S Fortimo SLM L23 CoB 35.0° / 114.0° 87 % 1.1 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 43 PHILLIF LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo SLM L19 CoB 31.0° / 71.0° 87 % 1.4 cd/lm 1 White ints: 31 Typ Z1 Fortimo SLM L23 CoB 35.0° / 114.0° 87 % 1.1 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 43 <b>PHILLE</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo SLM L19 CoB 31.0° / 71.0° 87 % 1.4 cd/lm 1 White ints: 31 Typ Z1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 43 PHILLIF LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo SLM L19 CoB 31.0° / 71.0° 87 % 1.4 cd/lm 1 White ints: 31 Typ Z1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 43 <b>PHILLE</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo SLM L19 CoB 31.0° / 71.0° 87 % 1.4 cd/lm 1 White ints: 31 Typ Z1		



SAMSI	JNG	8*
LED	LC016D / LC019D / LC026D / LC033D	
FWHM / FWTM	28.0° / 67.0°	7
Efficiency	86 %	
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	
Light colour	White	gr / /
Required compone	nts:	
		1200
		30" 500
SAMSI	ING	99°
	LC040D / LC060D / LC080D	72
FWHM / FWTM	38.0° / 122.0°	
Efficiency	86 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ints:	
		30° 1000 137
SEOUL		59'
SEOUL SEMICONDUCTOR	MJT COB LES 14.5	
	NUT COD LLS 14.5	75
	28.0° / 68.0°	
FWHM / FWTM	28.0° / 68.0° 86 %	
FWHM / FWTM Efficiency	86 %	61
FWHM / FWTM Efficiency Peak intensity	86 % 1.5 cd/lm	69°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	86 % 1.5 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	86 % 1.5 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	86 % 1.5 cd/lm 1 White ints:	61 61 60 60 128
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	86 % 1.5 cd/lm 1 White ints:	97 - 400 - 90 - 900 - 920 - 1220 -
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	86 % 1.5 cd/lm 1 White ints:	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone IDEAL: 50-2103	86 % 1.5 cd/lm 1 White ints:	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone IDEAL: 50-2103	86 % 1.5 cd/lm 1 White ints:	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone IDEAL: 50-2103	86 % 1.5 cd/lm 1 White Ints: CT	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone IDEAL: 50-2103	86 % 1.5 cd/lm 1 White mts: CT MJT COB LES 22	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone IDEAL: 50-2103	86 % 1.5 cd/lm 1 White mts: CT MJT COB LES 22 36.0° / 120.0°	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone IDEAL: 50-2103	86 % 1.5 cd/lm 1 White mts: CT MJT COB LES 22 36.0° / 120.0° 87 %	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone IDEAL: 50-2103	86 % 1.5 cd/lm 1 White mts: CT MJT COB LES 22 36.0° / 120.0°	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone IDEAL: 50-2103 SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	86 % 1.5 cd/lm 1 White ints: CT MJT COB LES 22 36.0° / 120.0° 87 % 1 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone IDEAL: 50-2103	86 % 1.5 cd/lm 1 White ints: CT MJT COB LES 22 36.0° / 120.0° 87 % 1 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone IDEAL: 50-2103	86 % 1.5 cd/lm 1 White ints: CT MJT COB LES 22 36.0° / 120.0° 87 % 1 cd/lm 1 White ints:	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone IDEAL: 50-2103	86 % 1.5 cd/lm 1 White ints: CT MJT COB LES 22 36.0° / 120.0° 87 % 1 cd/lm 1 White ints:	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone IDEAL: 50-2103	86 % 1.5 cd/lm 1 White ints: CT MJT COB LES 22 36.0° / 120.0° 87 % 1 cd/lm 1 White ints:	



## **OPTICAL RESULTS (SIMULATED):**

bridgelux.		50* 30*
LED	V10 Gen7	75*
FWHM / FWTM	17.0° / 31.0°	
Efficiency	85 %	60* 60°
Peak intensity	4.8 cd/lm	
LEDs/each optic	1	
Light colour	White	gr. 43.
Required components:		
Bender Wirth: 486 Ty	p L1	
		30° 31° 31°
bridgelux.		90°
LED	V18 Gen7	75°
FWHM / FWTM	26.0° / 57.0°	400
Efficiency	85 %	60°
Peak intensity	2 cd/lm	
LEDs/each optic	1	
Light colour	White	e7
Required components:		$X \land X$
BJB: 47.319.2350		1500
		30° 205 30°
bridgelux		90° 90°
bridgelux.	V22 Gen7	50° 50°
LED	V22 Gen7 30.0° / 70.0°	99 <sup>1</sup> 22
LED FWHM / FWTM	30.0° / 70.0°	
LED FWHM / FWTM Efficiency	30.0° / 70.0° 84 %	
LED FWHM / FWTM Efficiency Peak intensity	30.0° / 70.0°	
LED FWHM / FWTM Efficiency	30.0° / 70.0° 84 % 1.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	30.0° / 70.0° 84 % 1.6 cd/lm 1	5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 70.0° 84 % 1.6 cd/lm 1	27 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	30.0° / 70.0° 84 % 1.6 cd/lm 1	75 60 60 60 60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	30.0° / 70.0° 84 % 1.6 cd/lm 1	5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: IDEAL: 50-2204CT	30.0° / 70.0° 84 % 1.6 cd/lm 1 White	27 - 260 - 27 57 - 60 57 - 67 60 60 77 77 77 77 77 77 77 77 77 7
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: IDEAL: 50-2204CT	30.0° / 70.0° 84 % 1.6 cd/lm 1 White	27 - 260 - 27 57 - 60 57 - 67 60 60 77 77 77 77 77 77 77 77 77 7
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: IDEAL: 50-2204CT	30.0° / 70.0° 84 % 1.6 cd/lm 1 White	27 - 260 - 27 57 - 60 57 - 67 60 60 77 77 77 77 77 77 77 77 77 7
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: IDEAL: 50-2204CT	30.0° / 70.0° 84 % 1.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: IDEAL: 50-2204CT	30.0° / 70.0° 84 % 1.6 cd/lm 1 White S LUXEON CoB 1208 22.0° / 43.0°	25- 25- 25- 25- 25- 25- 25- 25- 25- 25-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: IDEAL: 50-2204CT	30.0° / 70.0° 84 % 1.6 cd/lm 1 White S LUXEON CoB 1208 22.0° / 43.0° 85 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: IDEAL: 50-2204CT	30.0° / 70.0° 84 % 1.6 cd/lm 1 White UXEON CoB 1208 22.0° / 43.0° 85 % 2.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: IDEAL: 50-2204CT	30.0° / 70.0° 84 % 1.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: IDEAL: 50-2204CT	30.0° / 70.0° 84 % 1.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: IDEAL: 50-2204CT	30.0° / 70.0° 84 % 1.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: IDEAL: 50-2204CT	30.0° / 70.0° 84 % 1.6 cd/lm 1 White	



#### **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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### Shipping locations

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#### Distribution Partners www.ledil.com/

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