

PRODUCT DATASHEET FN14074_STELLA-HB

STELLA-HB

~75° high bay beam for warehouse and outdoor lighting. Compatible with up to 30 mm LES size. Variant with black frame. COBs.

SPECIFICATION:

Dimensions	Ø 90.0 mm
Height	19.5 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes 🛈



MATERIALS:

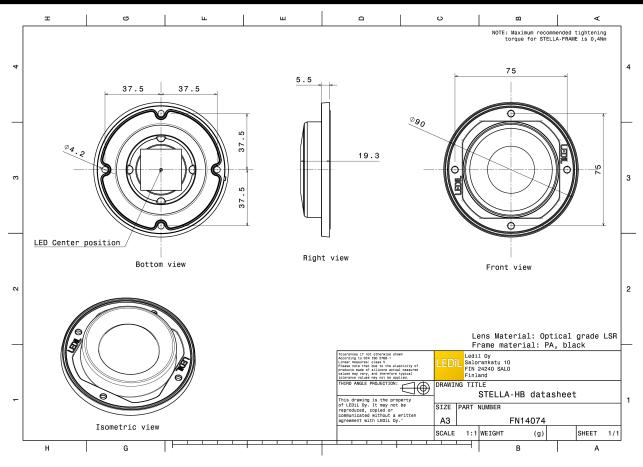
Component	Туре	Material	Colour	Finish
STELLA-HB	Single lens	Silicone	clear	
STELLA-FRAME	Holder	PA66	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FN14074_STELLA-HB	Single lens	135	135	15	7.9
» Box size: 480 x 280 x 300 mm					



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



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	V18 Gen7 80.0° / 101.0° 93 % 0.6 cd/lm 1 White nts:	99 ¹ 99 ¹ 99 97 97 97 97 97 97 97 97 97 97 97 97
bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	V22 Gen7 75.0° / 101.0° 93 % 0.7 cd/lm 1 White nts:	
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	VERO18 75.0° / 96.0° 93 % 0.7 cd/lm 1 White nts:	
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	VERO29 69.0° / 104.0° 94 % 0.7 cd/lm 1 White nts:	200 200 00 00 00 00 00 00 00 00



CITIZE	N	24
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLL04x/CLU04x 77.0° / 101.0° 94 % 0.7 cd/lm 1 White	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4	CLL04x/CLU04x 68.0° / 94.0° 93 % 0.8 cd/lm 1 White ents:	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLL05x/CLU05x 73.0° / 110.0° 93 % 0.6 cd/lm 1 White	
CITIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4	CLL05x/CLU05x 65.0° / 103.0° 94 % 0.7 cd/lm 1 White ents:	



		501	90°
LED	CMA2550		
FWHM / FWTM	74.0° / 96.0°	R	75*
Efficiency	94 %	-200	60*
Peak intensity	0.7 cd/lm		
LEDs/each optic	1		
Light colour	White	#*	45°
Required compone	nts:		\langle
			\sim
		30° 107 0° 20	36.0
		90 ⁴	90°
LED	CMA3090		
FWHM / FWTM	67.0° / 96.0°	77	75*
Efficiency	96 %		\times
Peak intensity	0.8 cd/lm		
LEDs/each optic	1		\searrow
Light colour	White	e.	45*
Required component	nts:		
			$\langle \rangle$
			X
		24 00	36.
		90°	90*
	CXA/B 1816 & CXA/B 1820 & CXA 1850		90*
		30*	90*
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	99*	90*
LED FWHM / FWTM	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0°	90° 75 63° 200	90* 75°
LED FWHM / FWTM Efficiency	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 %	50 ⁴ 79 6,5 70	90* 75* 60*.
LED FWHM / FWTM Efficiency Peak intensity	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm		90° 77°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White		90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White	99* 70 66* 200 65* 410	8* 5*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White		99* 73 69*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White		90" 71 67 07
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White nts:		97 77 694 87
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White nts:		80 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White nts:		90° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component CREE LED LED FWHM / FWTM	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White nts:		97 97 97 97 97 97 97
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White nts:		87 77 67 67 77 77 77 77 77 77
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency Peak intensity	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White nts: CXA/B 25xx 83.0° / 102.0° 93 %		87 77 66
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White nts: CXA/B 25xx 83.0° / 102.0° 93 % 0.6 cd/lm		100 100 100 100 100 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White nts: CXA/B 25xx 83.0° / 102.0° 93 % 0.6 cd/lm 1 White		90 70 70 70 70 70 70 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White nts: CXA/B 25xx 83.0° / 102.0° 93 % 0.6 cd/lm 1 White		81 77 60 07 07
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White nts: CXA/B 25xx 83.0° / 102.0° 93 % 0.6 cd/lm 1 White		91 77 60 07 07
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CXA/B 1816 & CXA/B 1820 & CXA 1850 87.0° / 104.0° 93 % 0.6 cd/lm 1 White nts: CXA/B 25xx 83.0° / 102.0° 93 % 0.6 cd/lm 1 White		81 77 67 67 67 67 67



CREE LED LED FWHM / FWTM Efficiency	CXA/B 30xx 78.0° / 103.0° 93 %	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
Peak intensity LEDs/each optic Light colour Required component	0.6 cd/lm 1 White nts:	er
		30° 000 30° 30°
		50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	CXA/B 3590 72.0° / 106.0° 93 % 0.7 cd/lm 1 White nts:	200
UMIL	EDS	90 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CoB 1211 71.0° / 93.0° 93 % 0.7 cd/lm 1	20 - 22 - 22 - 22 - 22 - 22 - 22 - 22 -
Light colour Required componer	White nts:	40 40 40 40 40 40 40 40 40 40
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	EDS LUXEON CoB 1216/1812 72.0° / 99.0° 94 % 0.7 cd/lm 1 White	e. 10 10 10 10 10 10 10 10 10 10
Required component	nts:	30° 50° 32°



CUMILEDS LED LUXEON CoB 1321 FWHM / FWTM 71.0° / 108.0° Efficiency 94 % Peak intensity 0.7 oddm LEDseach optic 1 Light colour White Required components: ••••••••••••••••••••••••••••••••••••	99 66 65
FWHM / FWTM 71.0° / 108.0° Efficiency 94% Peak intensity 0.7 cd/m LEDs/each optic 1 Light colour White Required components: EED LUXEON CoB 1825 FWHM / FWTM 72.0° / 111.0° Efficiency 93% Peak intensity 0.6 cd/m LEDs/each optic 1 LEDs/each optic 1	66
Efficiency 94 % Peak intensity 0.7 cd/m LED Keak hoptic 1 Light colour White Required components: EVENUEEDS LED LUXEON CoB 1825 FWHM / FWTM 72.0° / 111.0° Efficiency 39 % Peak intensity 0.6 cd/m LEDs/each optic 1 Light colour White Required components: EVENUES EED CXM-18 (21.5x21.5) FWHM / FWTM 80.0° / 100.0° Efficiency 93 % Peak intensity 0.6 cd/m LEDS/each optic 1 Light colour White Required components: EED CXM-18 (21.5x21.5) FWHM / FWTM 80.0° / 100.0° Efficiency 93 % Peak intensity 0.6 cd/m LEDS/each optic 1 Light colour White Required components: EED CXM-18 (21.5x21.5) FWHM / FWTM 80.0° / 100.0° Efficiency 100.0° Eff	65
Peak intensity 0.7 cd/m LED5/each optic 1 Light colour White Required components:	10 61
LEDs/each optic 1 Light colour White Required components: CUMILEDS LED LUXEON CoB 1825 FWHN 72.0° / 111.0° Efficiency 93% Peak intensity 0.6 cd/m LEDs/each optic 1 Light colour White Required components:	er e
Light colour White Required components: ED LUXEON CoB 1825 FWHM / FWTM 72.0° / 111.0° Efficiency 93 % Peak intensity 0.6 cd/m LEDs/each optic 1 Light colour White Required components: ED CxM-18 (21.5x21.5) FWHM / FWTM 80.0° / 100.0° Efficiency 93 CM Required components: ED CxM-18 (21.5x21.5) FWHM / FWTM 80.0° / 100.0° Efficiency 93 CM LEDs Cadm LEDs CAM LEDS CA	
Required components:	~
Image: Constraint of the second se	
LED LUXEON CoB 1825 FWHM / FWTM 72.0° / 111.0° Efficiency 93 % Peak intensity 0.6 cd/lm LEDS/sach optic 1 Light colour White Required components: EVENUES LED CxM-18 (21.5x21.5) FWHM / FWTM 80.0° / 100.0° Efficiency 93 % Peak intensity 0.6 cd/lm LEDS/sach optic 1 LEDS/sach optic 1 L	
LED LUXEON CoB 1825 FWHM / FWTM 72.0° / 111.0° Efficiency 93 % Peak intensity 0.6 cd/lm LEDS/each optic 1 Light colour White Required components:	
LED LUXEON CoB 1825 FWHM / FWTM 72.0° / 111.0° Efficiency 93 % Peak intensity 0.6 cd/lm LEDS/each optic 1 Light colour White Required components:	30
FWHM / FWTM 72.0° / 111.0° Efficiency 93 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components: EFF CUNICS LED CxMI-18 (21.5x21.5) FWHM / FWTM 80.0° / 100.0° Efficiency 93 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components:	90
Efficiency 93 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components:	
Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components:	
LEDs/each optic 1 Light colour White Required components:	65
Light colour White Required components:	
Required components:	
Image: Continues Image: Continues LED CxM-18 (21.5x21.5) FWHM / FWTM 80.0° / 100.0° Efficiency 93 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components: Image: Continues	45
LED CxM-18 (21.5x21.5) FWHM / FWTM 80.0° / 100.0° Efficiency 93 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components:	
LED CxM-18 (21.5x21.5) FWHM / FWTM 80.0° / 100.0° Efficiency 93 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components:	
LED CxM-18 (21.5x21.5) FWHM / FWTM 80.0° / 100.0° Efficiency 93 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components:	
LED CxM-18 (21.5x21.5) FWHM / FWTM 80.0° / 100.0° Efficiency 93 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components:	36
LED CxM-18 (21.5x21.5) FWHM / FWTM 80.0° / 100.0° Efficiency 93 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components:	91
FWHM / FWTM 80.0° / 100.0° Efficiency 93 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components: ************************************	
Efficiency 93 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components:	75
Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components:	<u> </u>
LEDs/each optic 1 Light colour White Required components:	
Light colour White Required components:	
Required components:	e
	1
) X
	34
LED CxM-22 (28x28)	
FWHM / FWTM 73.0° / 100.0°	
Efficiency 93 %	
Peak intensity 0.7 cd/lm	
LEDs/each optic 1	
Light colour White	
Required components:	



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LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB H-Type 74.0° / 102.0° 94 % 0.7 cd/lm 1 White		
EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB J-Type 84.0° / 102.0° 94 % 0.6 cd/lm 1 White		
Opto Semiconductors LED FWHM / FWTM Efficiency	Soleriq S19 84.0° / 101.0° 92 %		50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
Peak intensity LEDs/each optic Light colour Required compone	0.6 cd/lm 1 White		10 ⁵ 200 10 10 ⁵ 400
LED	PS Fortimo SLM L19 CoB		90° 10° 10° 10° 10° 10° 10° 10° 10° 10° 1
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone			50 50 50 50 50 50 50 50 50 50 50 50 50 5
Bender Wirth: 43	31 Тур L4		30 ⁴ 25 ⁷ 00 ⁶ 25 ⁴ X



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LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 43	Fortimo SLM L23 CoB 67.0° / 96.0° 94 % 0.8 cd/lm 1 White ents:	
SAMSI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC016D / LC019D / LC026D / LC033D 83.0° / 101.0° 93 % 0.6 cd/lm 1 White	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC040D / LC060D / LC080D 76.0° / 102.0° 93 % 0.7 cd/lm 1 White	
SAMSI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC040D / LC060D / LC080D 77.0° / 104.0° 93 % 0.6 cd/lm 1 White	



SEOUL SEMICONDUCTOR			90 ⁺
LED	MJT COB LES 33		75*
FWHM / FWTM	68.0° / 106.0°		
Efficiency	93 %		- 200
Peak intensity	0.7 cd/lm		
LEDs/each optic	1		
Light colour	White		gr 400 - 45°
Required compone	ents:		
Bender Wirth: 4	58 Typ L4		
			40° 15° 0° 15°



OPTICAL RESULTS (SIMULATED):

r		
bridgelux.		90° 90°
LED	V22 Gen7	
FWHM / FWTM	68.0° / 92.0°	75*
Efficiency	94 %	
Peak intensity	0.9 cd/lm	60°
LEDs/each optic	1	
Light colour	White	
Required components:		
Bender Wirth: 431 Ty	p L4	
		30° 15° 0° 15° 30°
CITIZEN		
		90* 90*
LED	CLL03x/CLU03x	75'
FWHM / FWTM	76.0° / 93.0°	
Efficiency	96 %	60° 60°
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	400
Light colour	White	42, 42,
Required components:		
		30" 30"
		15° 0° 15°
		90 [*] 90 [*]
LED	CMT28xx	
FWHM / FWTM	73.0° / 98.0°	730
Efficiency	91 %	
Peak intensity	0.7 cd/lm	60 ²²
LEDs/each optic	1	
Light colour	White	450 454
Required components:		
		30° 15° 36° 35°
	JS	50°
LED	CXM-32	
FWHM / FWTM	68.0° / 104.0°	75*
Efficiency	96 %	200
Peak intensity	90 % 0.7 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	ı White	450
	wille	
Required components:		
		34" 35" 00° 15"



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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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