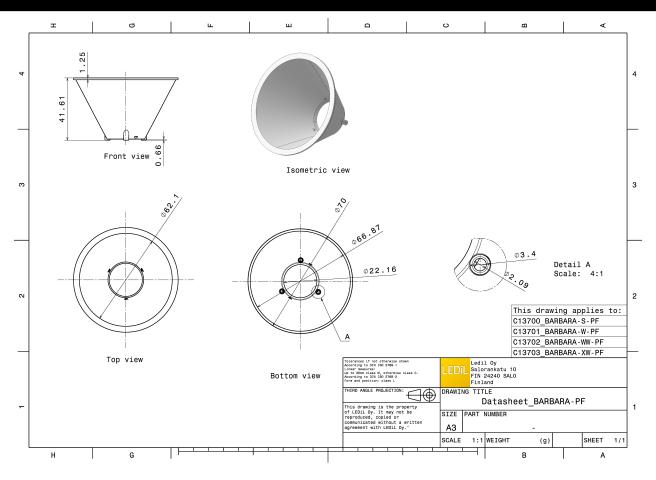


PRODUCT DATASHEET F13703_BARBARA-XW-PF

BARBARA-XW-P	F					
White version with ~75	° wide beam					
SPECIFICATION:						
Dimensions Height Fastening ROHS compliant MATERIALS:		Ø 70.0 mm 41.7 mm socket yes 1	LEDIĽ	Statu -		
Component BARBARA-XW-PF	Type Reflector	Material HRPC	Colour white	I	Finish	Coating
ORDERING INFORMAT	ION:					
Component F13703_BARBARA-XW-PF			Qty in box 288	MOQ 90	MPQ 18	Box weight (kg) 8.4

» Box size: 480 x 280 x 300 mm





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



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 43	CKET-VERO13-18		
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 45	CKET-VERO13-18		
bridgelux, LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SO			20 20 20 00 00 00 00 00 00 00
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO	VERO13 72.0° / 116.0° 93 % 0.7 cd/lm 1 White nts: CKET-VERO13-18		

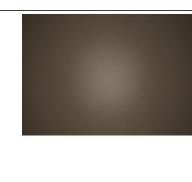


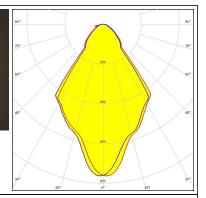
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO	VERO18 72.0° / 116.0° 93 % 0.6 cd/lm 1 White ents: CKET-VERO13-18	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO	Xenio Point 13mm 71.0° / 114.0° 92 % 0.7 cd/lm 1 White ents: CKET-VERO13-18	
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO	Xenio Point 18mm 72.0° / 115.0° 91 % 0.6 cd/lm 1 White ents: CKET-VERO13-18	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 43	CLL02x/CLU02x (LES10) 70.0° / 111.0° 90 % 0.7 cd/lm 1 White ents: CKET-VERO13-18	



CITIZEN

LED	CLU700/701/702/703
FWHM / FWTM	70.0° / 109.0°
Efficiency	90 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White
Required componer	its:
C13709_PF-SOC	KET-VERO13-18
Bender Wirth: 43	4 Typ L1





LED	CXA/B 15xx
FWHM / FWTM	70.0° / 110.0°
Efficiency	92 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White
Required componer	nts:
C14115 PF-SOC	KET-CXA15-18

			90 ⁴
LED	CXA/B 15xx		75'
FWHM / FWTM	70.0° / 111.0°		
Efficiency	90 %		60° 60°
Peak intensity	0.7 cd/lm		
LEDs/each optic	1		
Light colour	White		45°
Required componer	nts:		
C13709_PF-SOC	CKET-VERO13-18		600
Bender Wirth: 44	1 Typ L1		
			30°
			159 90 159
			90* 90*
LED	CXA/B 15xx		
FWHM / FWTM	73.0° / 117.0°		
Efficiency			
LINCIENCY	85 %		601 600 500 500 500 500 500 500 500 500 500
Peak intensity	85 % 0.6 cd/lm		en 200 - er
			gy gr
Peak intensity	0.6 cd/lm		91 90 90 90 90 90 90 90 90 90 90 90 90 90
Peak intensity LEDs/each optic	0.6 cd/lm 1 White		91 00 00 00 97 00 00 00 97 00 00 00
Peak intensity LEDs/each optic Light colour	0.6 cd/lm 1 White nts:		90 - 00 - 00 91 - 00 - 00 92 - 00 - 00
Peak intensity LEDs/each optic Light colour Required componer	0.6 cd/lm 1 White nts: CKET		90 - 00 - 00 97 - 00 - 00
Peak intensity LEDs/each optic Light colour Required componer C13083_PF-SOC	0.6 cd/lm 1 White nts: CKET		90 00 00 00 00 00 00 00 00 00 00 00 00 0



		90* 90*
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	
FWHM / FWTM	70.0° / 112.0°	73.
Efficiency	93 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	ay: 400
Required compone	ents:	
C14115_PF-SO	CKET-CXA15-18	600
		30. 30.
CREE ≑		15° Øb 15°
LEDS		90*
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	75
FWHM / FWTM	67.0° / 106.0°	
Efficiency	82 %	60° / 60°
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	400
Required compone	ents:	
C13709_PF-SO	CKET-VERO13-18	evo
Bender Wirth: 43	37 Typ L1	
		30" 15" 0" 15" 34
	EDS	90°
LED	LUXEON CoB 1202/1203	
FWHM / FWTM	71.0° / 112.0°	75,
Efficiency	92 %	200
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	gr (400
Required compone	ents:	
C14037_PF-NS	X-SOCKET	
		300 300
	EDS	90 ⁴ 90 ⁵
	LUXEON CoB 1202/1203	73
FWHM / FWTM	71.0° / 112.0° 90 %	200
Efficiency Peak intensity	90 % 0.7 cd/lm	60* 60*
LEDs/each optic	0.7 co/im 1	
LEDs/each oplic	ı White	400
Required compone		
	CKET-VERO13-18	
Bender Wirth: 43		
	оо тур ⊑т	\mathbf{K} / \mathbf{V} / $\mathbf{\lambda}$
		364 15° 0° 15°



🥙 LUMIL	.EDS	
LED	LUXEON CoB 1202s	
FWHM / FWTM	75.0° / 120.0°	
Efficiency	92 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
C13761_PF-SO	CKET-CXA15	
~		
ØNICHI/		94 ³
LED	СОВ Ј-Туре	
FWHM / FWTM	70.0° / 112.0°	
Efficiency	89 %	60 [×]
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
C13709_PF-SO	CKET-VERO13-18	
Bender Wirth: 4	63 Typ L2	
		20 ⁴ 27 ⁴ 27 ⁵
ØNICHI/		
LED	COB J-Type	
FWHM / FWTM	72.0° / 116.0°	
Efficiency	93 %	0/s
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	9° 40
Required compone	ents:	
C14037_PF-NS	X-SOCKET	
		20 - 20 - 10"
ØNICHI/		
LED	COB L-Type (LES 11)	
FWHM / FWTM	70.0° / 113.0°	
Efficiency	90 %	
Peak intensity	0.7 cd/lm	
	1	
LEDs/each optic	White	gr
LEDs/each optic Light colour		
	ents:	
Light colour Required compone	ents: CKET-VERO13-18	
Light colour Required compone	CKET-VERO13-18	



ØNICHI/		ad-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14037_PF-NS	COB L-Type (LES 11) 72.0° / 115.0° 93 % 0.7 cd/lm 1 White ents:	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14037_PF-NS	COB L-Type (LES 9) 72.0° / 112.0° 93 % 0.7 cd/lm 1 White ents: X-SOCKET	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 4	COB L-Type (LES 9) 70.0° / 112.0° 90 % 0.7 cd/lm 1 White ents: CKET-VERO13-18	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14037_PF-NS	NSCxL036A 71.0° / 112.0° 91 % 0.7 cd/lm 1 White ents:	

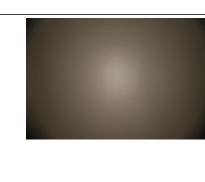


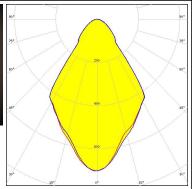
OSRAM		
Opto Semiconductors		
LED	OSTAR Stage (S2WP)	
FWHM / FWTM	74.0° / 120.0°	
Efficiency	83 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
C13083_PF-SO		
C14658_BARBA	RA-RZ-LENS	
OSRAM		y0 ²
Opto Semiconductors	Soleria S13	
LED FWHM / FWTM	Soleriq S13 70.0° / 113.0°	737
Efficiency	90 %	
Peak intensity	90 % 0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
-		
Required compone	CKET-VERO13-18	
Bender Wirth: 43		
Bender wirth: 43	57 Тур ЦТ	
		30 ² 0 ⁴ 32 ² 30 ²
SAMSU	JNG	24
LED	LC026B / 033B / 040B	
FWHM / FWTM	70.0° / 113.0°	
Efficiency	90 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	gr 40 67
Required compone	nts:	
	CKET-VERO13-18	
Bender Wirth: 45		
XICATO		20 ⁻² 20 ⁻² 20 ⁻²
LED	XTM - 19mm LES	
FWHM / FWTM	70.0° / 112.0°	
Efficiency	83 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	gr ar
Required compone		
C14636_XTM-P		
		60
		30° (35) 0° 15°



XICATO

LED	XTM - 9mm LES
FWHM / FWTM	70.0° / 111.0°
Efficiency	86 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White
Required component	ts:
C14636_XTM-PF	-ADAPTER







OPTICAL RESULTS (SIMULATED):

bridgelux

 LED
 V10 Gen7

 FWHM / FWTM
 66.0° / 93.0°

 Efficiency
 88 %

 Peak intensity
 0.9 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 C13709_PF-SOCKET-VERO13-18

 Bender Wirth: 486 Ty L1
 1

LUMILEDS

 LED
 LUXEON CoB Compact

 FWHM / FWTM
 75.0° / 120.0°

 Efficiency
 92 %

 Peak intensity
 0.7 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 C13761_PF-SOCKET-CXA15

 LED
 CxM-14 (19x19)

 FWHM / FWTM
 70.0° / 113.0°

 Efficiency
 90 %

 Peak intensity
 0.7 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 C13709_PF-SOCKET-VERO13-18

 Bender Wirth: 433 Ty L1
 V

 LED
 CxM-9 (13.5x13.5)

 FWHM / FWTM
 70.0° / 111.0°

 Efficiency
 90 %

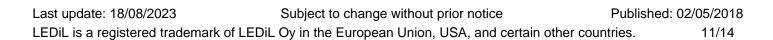
 Peak intensity
 0.7 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 C13709_PF-SOCKET

 Bender Wirth: 434 Typ L1
 1





OPTICAL RESULTS (SIMULATED):

OSRAM Opto Semiconductors		90° 90°
LED	Soleriq S15	
FWHM / FWTM	74.0° / 112.0°	75
Efficiency	95 %	200
Peak intensity	0.7 cd/lm	60°
LEDs/each optic	1	
Light colour	White	95° 400 45°
Required components:		
C13709_PF-SOCKE		
Bender Wirth: 433 T		un and a second se
		30. 30.
0.0.0.0.0.0	10	15 ⁹ 0 ⁹ 35 ⁹
SAMSUI	NG Contraction of the second sec	90* 90*
LED	LC010C	
FWHM / FWTM	66.0° / 91.0°	200
Efficiency	89 %	60*
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	gr det
Required components:		
C13709_PF-SOCKE	T-VERO13-18	
Bender Wirth: 479 T	yp L1	000
		30° 30°
		153 1800 153
сллени		
SVWSAI		50* 30*
LED	LC020C	30 ⁴ 30 ⁵
LED FWHM / FWTM	LC020C 70.0° / 95.0°	50° 50° 73° 200
LED FWHM / FWTM Efficiency	LC020C 70.0° / 95.0° 88 %	90° 90° 73° 200 - 200 - 200
LED FWHM / FWTM Efficiency Peak intensity	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm	90° 92° 73° 200 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm 1	99°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm 1 White	99' 99' 79' - 200 60' - 60' g' - 60'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm 1 White	90° 90° 79° 200 60° 60° 40° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13709_PF-SOCKE	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm 1 White	90 ⁴ 90 ⁴ 70 ⁴ 200 60 ⁴ 60 ⁴ 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm 1 White	90° 90° 70° 200 00° 60° 400 00° 400 00°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13709_PF-SOCKE	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm 1 White	59° 55° 6° 55° 5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13709_PF-SOCKE Bender Wirth: 479 T	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm 1 White T-VERO13-18 yp L1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13709_PF-SOCKE Bender Wirth: 479 T	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm 1 White T-VERO13-18 yp L1	91 ⁴ 91 ⁴ 70 60 ⁴ 60 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13709_PF-SOCKE Bender Wirth: 479 T	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm 1 White T-VERO13-18 yp L1	50 ⁴ 50 ⁴ 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13709_PF-SOCKE Bender Wirth: 479 T SANSUI LED FWHM / FWTM	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm 1 White T-VERO13-18 yp L1 VG LC040C 70.0° / 96.0°	50 ⁴ 50 ⁴ 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13709_PF-SOCKE Bender Wirth: 479 T SANSUI LED FWHM / FWTM Efficiency	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm 1 White T-VERO13-18 yp L1 V G LC040C 70.0° / 96.0° 84 %	50 ⁴ 50 ⁴ 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13709_PF-SOCKE Bender Wirth: 479 T SALMS UI LED FWHM / FWTM Efficiency Peak intensity	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm 1 White T-VERO13-18 yp L1 VG LC040C 70.0° / 96.0° 84 % 0.7 cd/lm	50 ⁴ 50 ⁴ 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13709_PF-SOCKE Bender Wirth: 479 T SALWSUU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm 1 White T-VERO13-18 yp L1 VG LC040C 70.0° / 96.0° 84 % 0.7 cd/lm 1	50 ⁴ 50 ⁴ 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13709_PF-SOCKE Bender Wirth: 479 T SALVE Bender Wirth: 479 T SALVE Efficiency Peak intensity LEDs/each optic Light colour	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm 1 White TT-VERO13-18 yp L1 V G LC040C 70.0° / 96.0° 84 % 0.7 cd/lm 1 White	50 ⁴ 50 ⁴ 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13709_PF-SOCKE Bender Wirth: 479 T SALVE Bender Wirth: 479 T SALVE Bender Wirth: 479 T Efficiency Peak intensity LEDs/each optic Light colour Required components:	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm 1 White TT-VERO13-18 yp L1 VG LC040C 70.0° / 96.0° 84 % 0.7 cd/lm 1 White	50 ⁴ 50 ⁴ 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13709_PF-SOCKE Bender Wirth: 479 T SAMSSU ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13709_PF-SOCKE	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm 1 White TT-VERO13-18 yp L1 VC LC040C 70.0° / 96.0° 84 % 0.7 cd/lm 1 White TT-VERO13-18	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13709_PF-SOCKE Bender Wirth: 479 T SAMSSUI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm 1 White TT-VERO13-18 yp L1 VC LC040C 70.0° / 96.0° 84 % 0.7 cd/lm 1 White TT-VERO13-18	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°



OPTICAL RESULTS (SIMULATED):

[
SEOUL	
SEOUL SEMICONDUCTOR	
LED	ZC12/18
FWHM / FWTM	70.0° / 113.0°
Efficiency	90 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components	s:
C13709_PF-SOCH	KET-VERO13-18
Bender Wirth: 433 Typ L1	
SEOUL	
SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM / FWTM	70.0° / 111.0°
Efficiency	90 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components	S:
C13709_PF-SOCH	KET-VERO13-18
Bender Wirth: 434	Typ L1
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,



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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LEDiL Oy

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