

PRODUCT DATASHEET F13703_BARBARA-XW-PF

BARBARA-XW-PF

White version with ~75° wide beam

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 70.0 mm
Height	41.7 mm
Fastening	socket
ROHS compliant	yes 🛈



MATERIAL SPECIFICATIONS:

Component BARBARA-XW-PF

Type Reflector

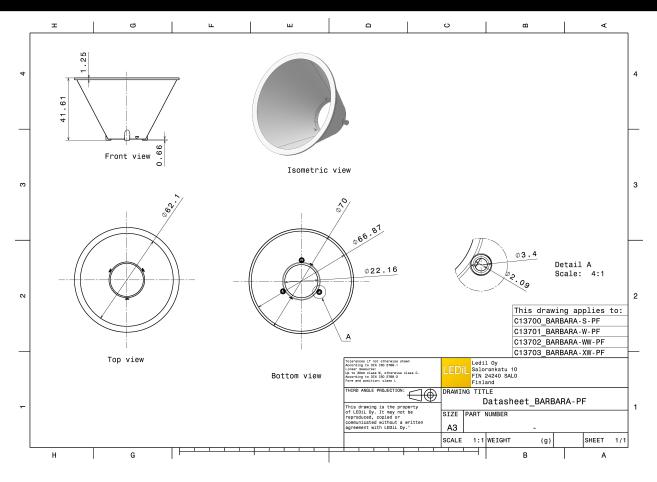
Material HRPC

Colour	Finish	Coating
white		

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F13703_BARBARA-XW-PF	288	90	18	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		30 ⁴ 20 ⁴ 20 ⁴	
bridgelux, LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 45	CKET-VERO13-18			ño
bridgelux, LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SO			200 - 200 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			



bridgelux.		96 ⁴	90*
LED	VERO18		
FWHM / FWTM	72.0° / 116.0°		
Efficiency	93 %	60*	200
Peak intensity	0.6 cd/lm		
LEDs/each optic	1		
Light colour	White	937	400
Required componer	ts:		
C13709_PF-SO	KET-VERO13-18	\checkmark	
			uo
		30-	15° 0° 15° 3°
bridgelux.		90*	90*
LED	Xenio Point 13mm		
FWHM / FWTM	71.0° / 114.0°	781	~ ~ ~
Efficiency	92 %		
Peak intensity	0.7 cd/lm	605	
LEDs/each optic	1		
Light colour	White	95*	400
Required componer			
	KET-VERO13-18	\rightarrow	
		1	600
		30.	34
bridgelux.		90 ⁴	50°
LED	Xenio Point 18mm		
FWHM / FWTM	72.0° / 115.0°	73*	75"
Efficiency	91 %		
Peak intensity	0.6 cd/lm	60.*	60*
LEDs/each optic	1	\sim	
Light colour	White	42*	ar a
Required componer			
	KET-VERO13-18		
			660
		30°	15° 0° 15° 30°
CITIZE	N	90*	90*
LED	CLL02x/CLU02x (LES10)		
FWHM / FWTM	70.0° / 111.0°	75°	× × ×
1	10.0 / 111.0		
Efficiency			
Efficiency Peak intensity	90 %	501	200
Peak intensity	90 % 0.7 cd/lm	5	200
Peak intensity LEDs/each optic	90 % 0.7 cd/lm 1		200
Peak intensity LEDs/each optic Light colour	90 % 0.7 cd/lm 1 White	a de la constante de	200
Peak intensity LEDs/each optic Light colour Required componen	90 % 0.7 cd/lm 1 White tts:		200 ee+
Peak intensity LEDs/each optic Light colour Required componen C13709_PF-SOC	90 % 0.7 cd/lm 1 White ts: KET-VERO13-18		900
Peak intensity LEDs/each optic Light colour Required componen	90 % 0.7 cd/lm 1 White ts: KET-VERO13-18		500 Fer 140 Fer 600



CITIZE	N	50'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CLU700/701/702 70.0° / 109.0° 90 % 0.8 cd/lm 1 White ents: CKET-VERO13-18	
	D	80°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 44	CKET-VERO13-18	
	D	90 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO C14658_BARB/	CXA/B 15xx 73.0° / 117.0° 85 % 0.6 cd/lm 1 White ents: CKET ARA-RZ-LENS	
	D	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14115_PF-SO	CXA/B 15xx 70.0° / 110.0° 92 % 0.8 cd/lm 1 White ents: CKET-CXA15-18	



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CREE (LEC) FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 43	CXA/B 1816 & CXA/B 1820 & CXA 1850 67.0° / 106.0° 82 % 0.7 cd/lm 1 White ents: CKET-VERO13-18	, , , , , , , , , , , , , , , , , , ,	
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14115_PF-SO	CXA/B 1816 & CXA/B 1820 & CXA 1850 70.0° / 112.0° 93 % 0.7 cd/lm 1 White		
Clumina Compose Compos	LUXEON CoB 1202/1203 71.0° / 112.0° 90 % 0.7 cd/lm 1 White ents: CKET-VERO13-18		
C14037_PF-NS	LUXEON CoB 1202/1203 71.0° / 112.0° 92 % 0.7 cd/lm 1 White ents:		



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LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1202s 75.0° / 120.0° 92 % 0.7 cd/lm 1 White	
Required compone C13761_PF-SO		
	\	90 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	COB J-Type 70.0° / 112.0° 89 % 0.7 cd/lm 1	
Light colour Required compone C13709_PF-SO Bender Wirth: 40	CKET-VERO13-18	
		50 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14037_PF-NS	COB J-Type 72.0° / 116.0° 93 % 0.7 cd/lm 1 White ents: X-SOCKET	
ØNICHI∕		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	COB L-Type (LES 11) 70.0° / 113.0° 90 % 0.7 cd/lm 1 White	
Required compone	nts: CKET-VERO13-18	



∕∕ NICHI∕	N Contraction of the second seco	99 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14037_PF-NS		
ØNICHI/		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB L-Type (LES 9) 70.0° / 112.0° 90 % 0.7 cd/lm 1 White ents: DCKET-VERO13-18	
ØNICHI/		59*
LED 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	
ØNICHI/	N Contraction of the second seco	55*
LED 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	ARA-RZ-LENS	
OSRAM		50 ⁴ 9 ¹
Opto Semiconductors	Soloria S13	
	Soleriq S13	
FWHM / FWTM Efficiency	70.0° / 113.0° 90 %	
Peak intensity	90 % 0.7 cd/lm	69°
LEDs/each optic	1	
	White	ar (
Light colour		
Required compone	CKET-VERO13-18	
Bender Wirth: 43	37 Typ L1	
		30 ⁴ 255 0 ⁴ 255 ³⁰
S ΛΜS	JNG	8 ³
LED	LC026B / 033B / 040B	
FWHM / FWTM	70.0° / 113.0°	
Efficiency	90 %	20
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	az 410 az
Required compone	ents:	
	CKET-VERO13-18	
Bender Wirth: 48		
XICATO)	
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	a. a.
Required compone		
C14636_XTM-P		
		20" 15" 0° 15"



XICATO)	90
LED	XTM - 9mm LES	
FWHM / FWTM	70.0° / 111.0°	
Efficiency	86 %	60 ⁴
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
C14636_XTM-P	PF-ADAPTER	
		34
		157 04 157



PHOTOMETRIC DATA (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 Typ L1
 Veropa (199)

 LED
 CxM-9 (13.5x13.5)

 FWHM / FWTM
 70.0° / 111.0°

 Efficiency
 90 %

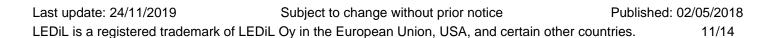
 Peak intensity
 0.7 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 C13709_PF-SOCKET

 Bender Wirth: 434 Typ L1
 1





PHOTOMETRIC DATA (SIMULATED):

OSRAM Opto Semiconductors		80°
LED	Soleriq S15	
FWHM / FWTM	74.0° / 112.0°	73. 75
Efficiency	95 %	200
Peak intensity	0.7 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	95+ 400 93*
Required components:		
C13709_PF-SOCKE	T-VER013-18	
Bender Wirth: 433 Ty		un f
		30.0
		459 0° 15°
SAMSUN	IG	30* 30*
LED	LC010C	
FWHM / FWTM	66.0° / 91.0°	75* 75*
Efficiency	89 %	
Peak intensity	0.9 cd/lm	60 ⁸
LEDs/each optic	1	
Light colour	White	gy
Required components:		
C13709_PF-SOCKE	T-VER013-18	
Bender Wirth: 479 Ty		200
		X / V / X
		30° 30° 30° 30°
SAMSUN	IG	90° 90°
		50° 50°
LED	LC020C	35
LED FWHM / FWTM	LC020C 70.0° / 95.0°	20 ··· 20 ··· 21
LED FWHM / FWTM Efficiency	LC020C 70.0° / 95.0° 88 %	99 ⁵ 99 ⁵
LED FWHM / FWTM Efficiency Peak intensity	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm	99 ⁴ 99 ⁴ 77 ⁴ 20 ⁶ 69 ⁴ 69 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm 1	91 ⁴ 91 ⁴ 20 61 ⁴ 60 ⁴ 40 6 ⁴ 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm	6. 6. 50. 50. 50. 50. 50. 50. 50. 50. 50. 50
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	92 ⁴ 92 ⁴ 92 92 92 92 92 92 92 92 92 92
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 T-VERO13-18	99 ⁵ 99 ⁵ 9
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 T-VERO13-18	99 ¹ 99 ¹ 91 92 91 91 92 91 92 91 92 91 92 91 92 92 92 92 92 92 92 92 92 92 92 92 92
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 T-VERO13-18	91 91 91 91 91 91 91 91 91 91
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13709_PF-SOCKE Bender Wirth: 479 Ty	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm 1 White T-VERO13-18 rp L1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13709_PF-SOCKE Bender Wirth: 479 Ty SAMSUN	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm 1 White T-VERO13-18 rp L1	30. 30. 30. 30. 12. 30. 6. 0.0 0.0 6. 0.0 0.0 5. 0.0 0.0 5. 0.0 0.0 5. 0.0 0.0 5. 0.0 0.0 5. 0.0 0.0 5. 0.0 0.0 5. 0.0 0.0 5. 0.0 0.0 5. 0.0 0.0 5. 0.0 0.0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13709_PF-SOCKE Bender Wirth: 479 Ty SAMSUN LED	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm 1 White T-VERO13-18 rp L1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13709_PF-SOCKE Bender Wirth: 479 Ty SAMSUN LED FWHM / FWTM	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm 1 White T-VERO13-18 rp L1 I G LC040C 70.0° / 96.0°	54 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13709_PF-SOCKE Bender Wirth: 479 Ty SAMSUN LED FWHM / FWTM Efficiency	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm 1 White T-VERO13-18 rp L1	54° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13709_PF-SOCKE Bender Wirth: 479 Ty SANNSUN LED FWHM / FWTM Efficiency Peak intensity	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm 1 White T-VERO13-18 rp L1 I G LC040C 70.0° / 96.0° 84 % 0.7 cd/lm	54° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13709_PF-SOCKE Bender Wirth: 479 Ty SANNSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm 1 White T-VERO13-18 rp L1 I C LC040C 70.0° / 96.0° 84 % 0.7 cd/lm 1	54° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13709_PF-SOCKE Bender Wirth: 479 Ty SANNSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC020C 70.0° / 95.0° 88 % 0.8 cd/lm 1 White T-VERO13-18 rp L1 I G LC040C 70.0° / 96.0° 84 % 0.7 cd/lm	54° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13709_PF-SOCKE Bender Wirth: 479 Ty SAMSUM 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 T-VERO13-18 rp L1 LC040C 70.0° / 96.0° 84 % 0.7 cd/lm 1 White	54° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13709_PF-SOCKE Bender Wirth: 479 Ty SAMSUM 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 T-VERO13-18 rp L1 IC LC040C 70.0° / 96.0° 84 % 0.7 cd/lm 1 White T-VERO13-18	54 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13709_PF-SOCKE Bender Wirth: 479 Ty SAMSUM 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 T-VERO13-18 rp L1 IC LC040C 70.0° / 96.0° 84 % 0.7 cd/lm 1 White T-VERO13-18	54 55 55 55 57 57 57 57 57 57 57 57 57 57



PHOTOMETRIC DATA (SIMULATED):

SEOUL	
	7010/10
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	
	.), =.



PRODUCT DATASHEET F13703_BARBARA-XW-PF

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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