

## BARBARA-XW-PF

White version with ~75° wide beam

### **TECHNICAL SPECIFICATIONS:**

Dimensions Height Fastening ROHS compliant

41.7 mm socket yes <sup>(1)</sup>

Ø 70.0 mm

### **MATERIAL SPECIFICATIONS:**

**Component** BARBARA-XW-PF **Type** Reflector Material HRPC



F13703\_BARBARA-XW-PF

PRODUCT DATASHEET

**Colour** white

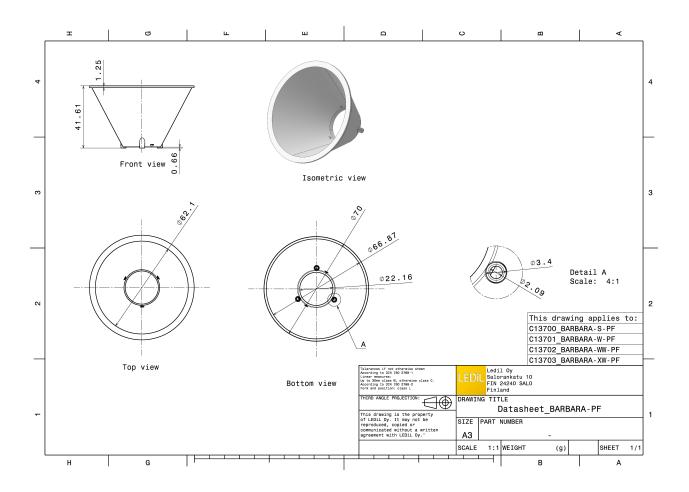
Finish

Coating

### **ORDERING INFORMATION:**

Component F13703\_BARBARA-XW-PF » Box size: 480 x 280 x 300 mm

Qty in box	MOQ	MPQ	Box weight (kg)
288	90	18	8.4



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## PHOTOMETRIC DATA (MEASURED):

bridgelux LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13709_PF-SC Bender Wirth: 4	White ents: DCKET-VERO13-18	50° 77 75 60° 60° 76° 76° 76° 76° 76° 76° 76° 76° 76° 76
bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13709_PF-SC Bender Wirth: 4	White ents: DCKET-VERO13-18	
bridgetux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13761_PF-SC	White ents:	200 - 200 - 20 20 - 200 - 20 20 - 20
bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13709_PF-SC	White	200 200 200 200 200 200 200 200



bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-S0	White	30°
bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-S0	White	
bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-S0	White	20 20 20 20 20 20 20 20 20 20
CITIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-S0 Bender Wirth: 4	CLL02x/CLU02x (LES10) 70.0° 90 % 0.7 cd/lm 1 White ents: DCKET-VERO13-18	

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## PHOTOMETRIC DATA (MEASURED):

CITIZE	N		90* 90*
LED	CLU700/701/702		
FWHM	70.0°		75° 75°
Efficiency	90 %		200
Peak intensity	0.8 cd/lm		60° 60°
LEDs/each optic			
Light colour	White		gr (in the second s
Required compor			
	DCKET-VERO13-18		
Bender Wirth: 4			
			30- 360 34
			139 00 139
CREE <del>\$</del>	×		90° 90°
LED	CXA/B 15xx		75"
FWHM	70.0°		
Efficiency	90 %		50 <sup>4</sup> 50 <sup>4</sup>
Peak intensity	0.7 cd/lm		
LEDs/each optic	1		
Light colour	White		400 400
Required compor	ents:		
C13709_PF-S0	DCKET-VERO13-18		600
Bender Wirth: 4	141 Typ L1		
			304 36
CREE <del>\$</del>	•		
			90° 90°
LED	CXA/B 15xx		23*
FWHM	73.0°		
Efficiency	85 %		60* 60*
Peak intensity	0.6 cd/lm		
LEDs/each optic		and the second	
Light colour	White		400 400
Required compor			
C13083_PF-S0			
C14658_BARE	ARA-RZ-LENS		
			30 <sup>6</sup> 30 <sup>7</sup> 30 <sup>7</sup> 30 <sup>7</sup>
CREE <del>\$</del>	•		
LED	CXA/B 15xx		
FWHM	70.0°		
Efficiency	92 %		
Peak intensity	0.8 cd/lm		
LEDs/each optic			
Light colour	White		
Required compor			
	DCKET-CXA15-18		



CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C14115_PF-SC	CXA/B 1816 & CXA/B 1820 & CXA 1850 70.0° 93 % 0.7 cd/lm 1 White	200 200 200 200 200 200 200 200
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-S0 Bender Wirth: 4	CXA/B 1816 & CXA/B 1820 & CXA 1850 67.0° 82 % 0.7 cd/lm 1 White hents: DCKET-VERO13-18	
C14037_PF-NS	LUXEON CoB 1202/1203 71.0° 92 % 0.7 cd/lm 1 White nents:	54 50 54 50 56 60 57 50 50 60 50 50 50 50 50 50 50 50 50 5
CINCLED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-S0 Bender Wirth: 4	LUXEON CoB 1202/1203 71.0° 90 % 0.7 cd/lm 1 White hents: DCKET-VERO13-18	

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	EDS		
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-SC	LUXEON CoB 1202s 75.0° 92 % 0.7 cd/lm 1 White ents:		
<b>Μ</b> ΝΙCΗΙΛ			90°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C14037_PF-NS	White ents:		200 201 201 201 201 201 201 201
<b>Μ</b> ΝΙCΗΙΛ			90° 90°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-SC Bender Wirth: 4	COB J-Type 70.0° 89 % 0.7 cd/lm 1 White ents: DCKET-VERO13-18 I63 Typ L2		20 20 20 20 20 20 20 20 20 20
<b>Μ</b> ΝΙCΗΙΛ			90*
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C14037_PF-NS	White ents:		200 60 <sup>4</sup> 72 <sup>4</sup> 800 60 <sup>4</sup> 60 <sup>4</sup> 800 60 <sup>4</sup> 60 <sup>4</sup> 80 <sup>4</sup> 8

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F13703\_BARBARA-XW-PF

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## PHOTOMETRIC DATA (MEASURED):

<b>Μ</b> ΝΙCΗΙΛ		90° 99°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	COB L-Type (LES 11) 70.0° 90 % 0.7 cd/lm 1 White ents: DCKET-VERO13-18	200 200 200 200 200 200 200 200
<b>NICHIA</b> LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-S0 Bender Wirth: 4	COB L-Type (LES 9) 70.0° 90 % 0.7 cd/lm 1 White ents: DCKET-VERO13-18	
<b>NICHIA</b> LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C14037_PF-NS	COB L-Type (LES 9) 72.0° 93 % 0.7 cd/lm 1 White ents:	34- 50- 50- 50- 50- 50- 50- 50- 50
ED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C14037_PF-NS	White ents:	25° 27° 26° 20° 27° 400 60° 28° 60° 28° 60°



OSRAM Opto Semiconductors			
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13083_PF-SC C14658_BARB	White ents: DCKET		
OSRAM			
Opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	White ents: DCKET-VERO13-18		
SAMSU	NG		50° 30'
LED FWHM	LC026B / 033B / 040B 70.0°		8.
Efficiency Peak intensity LEDs/each optic Light colour	90 % 0.6 cd/lm 1 White		60 20 60 67 60 C
Required compon	OCKET-VERO13-18		20 <sup>4</sup> 20 <sup>7</sup> 0 <sup>6</sup> 20 <sup>7</sup> 20
XICATO			90 <sup>4</sup> 90 <sup>4</sup>
LED FWHM	XTM - 19mm LES 70.0°		75
Efficiency Peak intensity LEDs/each optic	83 % 0.6 cd/lm 1		ene
Light colour Required compon C14636_XTM-I			
			30- 22 00 12- 30

PRODUCT DATASHEET

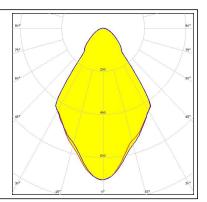


## PHOTOMETRIC DATA (MEASURED):

# XICATO

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







### **PHOTOMETRIC DATA (SIMULATED):**

### bridgelux.

LED	V10 Gen7
FWHM	66.0°
Efficiency	88 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components	:
C13709_PF-SOCK	ET-VERO13-18
Bender Wirth: 486	Гур L1

### 

LED	LUXEON CoB Compact
FWHM	75.0°
Efficiency	92 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components	:
C13761_PF-SOCK	ET-CXA15

#### 

 LED
 CxM-14 (19x19)

 FWHM
 70.0°

 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

#### 

 LED
 CxM-9 (13.5x13.5)

 FWHM
 70.0°

 Efficiency
 90 %

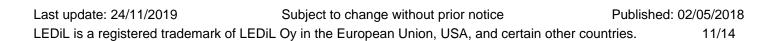
 Peak intensity
 0.7 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components
 C13709\_PF-SOCKET-VERO13-18

 Bender Wirth: 434 Fy L1
 L1





## PHOTOMETRIC DATA (SIMULATED):

OSRAM Opto Semiconductors		bo+
LED	Soleriq S15	
FWHM	74.0°	257
Efficiency	95 %	200
Peak intensity	0.7 cd/lm	<b>5</b> 00-
LEDs/each optic	1	
Light colour	White	45+ 440
Required componer		
	KET-VERO13-18	
Bender Wirth: 43		
		200
		157 0 <sup>8</sup> 157
SAMSU	NG	50*
LED	LC010C	
FWHM	66.0°	75*
Efficiency	89 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	<i>9</i> .
Required componer	nts:	
	KET-VERO13-18	
Bender Wirth: 47	9 Typ L1	
		300
		15° 1800 15°
SAMSU	NG	50°
SAMSUI		50 <sup>4</sup>
SAMSUI LED FWHM	N <b>G</b> LC020C 70.0°	 25- 26- 25- 25- 25- 25- 25-
LED FWHM	LC020C	
LED FWHM Efficiency	LC020C 70.0°	94° 95° 96° 90°
LED FWHM	LC020C 70.0° 88 %	
LED FWHM Efficiency Peak intensity	LC020C 70.0° 88 % 0.8 cd/lm	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	LC020C 70.0° 88 % 0.8 cd/lm 1 White	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LC020C 70.0° 88 % 0.8 cd/lm 1 White	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LC020C 70.0° 88 % 0.8 cd/lm 1 White nts: ::::::::::::::::::::::::::::::::::	200 27 27 200 200 200 200 200 200 200 20
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13709_PF-SOC	LC020C 70.0° 88 % 0.8 cd/lm 1 White nts: ::::::::::::::::::::::::::::::::::	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13709_PF-SOC Bender Wirth: 47	LC020C 70.0° 88 % 0.8 cd/lm 1 White hts: :KET-VERO13-18 9 Typ L1	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13709_PF-SOC Bender Wirth: 479	LC020C 70.0° 88 % 0.8 cd/lm 1 White hts: :KET-VERO13-18 9 Typ L1	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13709_PF-SOC Bender Wirth: 475	LC020C 70.0° 88 % 0.8 cd/lm 1 White hts: :: KET-VERO13-18 9 Typ L1	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13709_PF-SOC Bender Wirth: 479 <b>SAMSU</b> LED FWHM	LC020C 70.0° 88 % 0.8 cd/lm 1 White hts: :KET-VERO13-18 9 Typ L1	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13709_PF-SOC Bender Wirth: 479 <b>SAMSU</b> LED FWHM Efficiency	LC020C 70.0° 88 % 0.8 cd/lm 1 White hts: EKET-VERO13-18 9 Typ L1 NG LC040C 70.0° 84 %	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13709_PF-SOC Bender Wirth: 479 <b>SAMSU</b> LED FWHM Efficiency Peak intensity	LC020C 70.0° 88 % 0.8 cd/lm 1 White hts: :KET-VERO13-18 9 Typ L1	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13709_PF-SOC Bender Wirth: 479 <b>SAMSU</b> LED FWHM Efficiency Peak intensity LEDs/each optic	LC020C 70.0° 88 % 0.8 cd/lm 1 White hts: CKET-VERO13-18 9 Typ L1 NG LC040C 70.0° 84 % 0.7 cd/lm 1	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13709_PF-SOC Bender Wirth: 47 <b>SAMSU</b> LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	LC020C 70.0° 88 % 0.8 cd/lm 1 White hts: EKET-VERO13-18 9 Typ L1 NG LC040C 70.0° 84 % 0.7 cd/lm 1 White	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13709_PF-SOC Bender Wirth: 479 <b>SAMSU</b> LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LC020C 70.0° 88 % 0.8 cd/lm 1 White hts: EKET-VERO13-18 9 Typ L1 NG LC040C 70.0° 84 % 0.7 cd/lm 1 White hts:	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13709_PF-SOC Bender Wirth: 479 <b>SAMSU</b> LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13709_PF-SOC	LC020C 70.0° 88 % 0.8 cd/lm 1 White hts: KET-VERO13-18 9 Typ L1 NG LC040C 70.0° 84 % 0.7 cd/lm 1 White hts: KET-VERO13-18	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13709_PF-SOC Bender Wirth: 479 <b>SAMSU</b> LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LC020C 70.0° 88 % 0.8 cd/lm 1 White hts: KET-VERO13-18 9 Typ L1 NG LC040C 70.0° 84 % 0.7 cd/lm 1 White hts: KET-VERO13-18	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13709_PF-SOC Bender Wirth: 479 SAMSUU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13709_PF-SOC	LC020C 70.0° 88 % 0.8 cd/lm 1 White hts: KET-VERO13-18 9 Typ L1 NG LC040C 70.0° 84 % 0.7 cd/lm 1 White hts: KET-VERO13-18	



## PHOTOMETRIC DATA (SIMULATED):

SEOUL	
SEOUL SEMICONDUCTOR	
LED	ZC12/18
FWHM	70.0°
Efficiency	90 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13709_PF-SOC	
Bender Wirth: 433 Typ L1	
SEOUL	
SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM	70.0°
Efficiency	90 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White
Required componer	nts:
C13709_PF-SOCKET-VERO13-18	
Bender Wirth: 434 Typ L1	
	турст

PRODUCT DATASHEET



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

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