

# PRODUCT DATASHEET F13702\_BARBARA-WW-PF

# **BARBARA-WW-PF**

~60° wide beam

### **SPECIFICATION:**

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



#### **MATERIALS**:

Component	
BARBARA-WW-PF	

**Type** Reflector

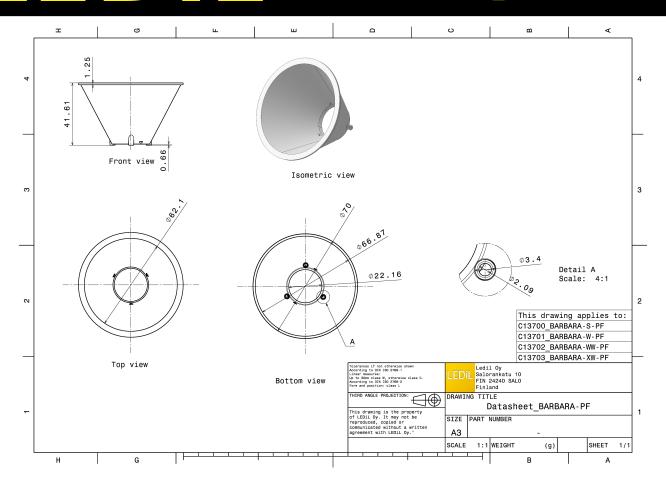
**Material** PC

Colour	Finish	Coating
metal		HMDS

#### **ORDERING INFORMATION:**

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F13702_BARBARA-WW-PF	288	90	18	6.3
» Box size: 480 x 280 x 300 mm				

PRODUCT DATASHEET F13702\_BARBARA-WW-PF



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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 C13708_PF-SO			
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO	VERO13 51.0° / 77.0° 90 % 1.4 cd/lm 1 White nts: CKET-VERO13-18		



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO	VERO18 58.0° / 83.0° 91 % 1.2 cd/lm 1 White nts: CKET-VERO13-18	974 974 974 974 974
bridgeluX. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO	Xenio Point 13mm 49.0° / 76.0° 89 % 1.4 cd/lm 1 White nts: CKET-VERO13-18	99+ 75* 60*
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO	Xenio Point 18mm 59.0° / 80.0° 88 % 1.1 cd/lm 1 White nts: CKET-VERO13-18	9)* 75* 60*
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 43	CLL02x/CLU02x (LES10) 43.0° / 74.0° 88 % 1.6 cd/lm 1 White nts: CKET-VERO13-18	99° 



CITIZE	Ν	90 <sup>4</sup>	90
LED	CLL03x/CLU03x		1
FWHM / FWTM	50.0° / 76.0°		
Efficiency	86 %		$( \land \land$
Peak intensity	1.3 cd/lm		$\mathbb{N}$
LEDs/each optic	1		
Light colour	White	the second s	
Required compone	ents:		
C13709_PF-SO	CKET-VERO13-18		
Bender Wirth: 43	33 Typ L1		
		20* 125 et	15°
CITIZE	N	8°	9
LED	CLU700/701/702/703		
FWHM / FWTM	28.0° / 72.0°	2	1
Efficiency	88 %		
Peak intensity	2.1 cd/lm	60 <sup>4</sup>	
LEDs/each optic	1		
Light colour	White		( ) e
Required compone			
	CKET-VERO13-18		
Bender Wirth: 43			
			1 7
		- 15° 0°	15°
CITIZE	Ν	92 <sup>4</sup>	90
		75	1 73
	CLU720/721/723		
	CLU720/721/723 43.0° / 73.0°		$\mathcal{N}$
LED FWHM / FWTM Efficiency	43.0° / 73.0°	95× 40 5	
FWHM / FWTM Efficiency	43.0° / 73.0° 86 %	60	
FWHM / FWTM Efficiency LEDs/each optic	43.0° / 73.0° 86 % 1	5	
FWHM / FWTM Efficiency LEDs/each optic Light colour	43.0° / 73.0° 86 % 1 White	er er	
FWHM / FWTM Efficiency LEDs/each optic Light colour Required compone	43.0° / 73.0° 86 % 1 White ents:	<b>e</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b>	
FWHM / FWTM Efficiency LEDs/each optic Light colour Required compone C13709_PF-SO	43.0° / 73.0° 86 % 1 White ents: CKET-VERO13-18	gr 440	
FWHM / FWTM Efficiency LEDs/each optic Light colour Required compone	43.0° / 73.0° 86 % 1 White ents: CKET-VERO13-18		
FWHM / FWTM Efficiency LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 43	43.0° / 73.0° 86 % 1 White ents: CKET-VERO13-18		
FWHM / FWTM Efficiency LEDs/each optic Light colour Required compone C13709_PF-SO	43.0° / 73.0° 86 % 1 White ents: CKET-VERO13-18		
FWHM / FWTM Efficiency LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 43	43.0° / 73.0° 86 % 1 White ents: CKET-VERO13-18		
FWHM / FWTM Efficiency LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 43	43.0° / 73.0° 86 % 1 White ents: CKET-VERO13-18 33 Typ L1 CXA/B 15xx 41.0° / 73.0°		
FWHM / FWTM Efficiency LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 43 CREEC LED FWHM / FWTM Efficiency	43.0° / 73.0° 86 % 1 White ents: CKET-VERO13-18 33 Typ L1 CXA/B 15xx 41.0° / 73.0° 87 %		
FWHM / FWTM Efficiency LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 43 CREE EDS LED FWHM / FWTM Efficiency Peak intensity	43.0° / 73.0° 86 % 1 White ents: CKET-VERO13-18 33 Typ L1 CXA/B 15xx 41.0° / 73.0°		
FWHM / FWTM Efficiency LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 43 CREECS LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	43.0° / 73.0° 86 % 1 White ents: CKET-VERO13-18 33 Typ L1 CXA/B 15xx 41.0° / 73.0° 87 % 1.7 cd/lm 1		
FWHM / FWTM Efficiency LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 43 CREECS LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	43.0° / 73.0° 86 % 1 White ents: CKET-VERO13-18 33 Typ L1 CXA/B 15xx 41.0° / 73.0° 87 % 1.7 cd/lm 1 White		
FWHM / FWTM Efficiency LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 43 CREEC EDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	43.0° / 73.0° 86 % 1 White ents: CKET-VERO13-18 33 Typ L1 CXA/B 15xx 41.0° / 73.0° 87 % 1.7 cd/lm 1 White ents:		
FWHM / FWTM Efficiency LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 43 CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO	43.0° / 73.0° 86 % 1 White ents: CKET-VERO13-18 33 Typ L1 CXA/B 15xx 41.0° / 73.0° 87 % 1.7 cd/lm 1 White ents: CKET-VERO13-18	50 <sup>4</sup> 75 60 <sup>4</sup> 60 <sup>4</sup> 60 <sup>4</sup> 60 <sup>4</sup>	
FWHM / FWTM Efficiency LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 43 CREEC EDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	43.0° / 73.0° 86 % 1 White ents: CKET-VERO13-18 33 Typ L1 CXA/B 15xx 41.0° / 73.0° 87 % 1.7 cd/lm 1 White ents: CKET-VERO13-18	50 <sup>4</sup> 75 60 <sup>4</sup> 60 <sup>4</sup> 60 <sup>4</sup> 60 <sup>4</sup>	



ED CXA/B 15xx WHM / FWTM 51.0° / 78.0° fficiency 85 % eak intensity 1.2 cd/lm EDs/each optic 1 ight colour White required components: C13083_PF-SOCKET
ED CXA/B 15xx   WHM / FWTM 51.0° / 78.0°   fficiency 85 %   eak intensity 1.2 cd/lm   EDs/each optic 1   ight colour White   equired components: 50
WHM / FWTM 51.0° / 78.0° fficiency 85 % eak intensity 1.2 cd/lm EDs/each optic 1 ight colour White required components:
eak intensity 1.2 cd/m EDs/each optic 1 ight colour White lequired components:
EDs/each optic 1 ight colour White lequired components:
ight colour White Lequired components:
lequired components:
lequired components:
C13083 PE-SOCKET
C14658_BARBARA-RZ-LENS
30*
LEDs
ED CXA/B 15xx
WHM / FWTM 40.0° / 73.0°
fficiency 89 %
eak intensity 1.8 cd/lm
EDs/each optic 1
ight colour White
equired components:
C14115_PF-SOCKET-CXA15-18
30 <sup>5</sup> 10 <sup>5</sup> 0000 115 <sup>5</sup>
CREE 💠
30°
ED CXA/B 1816 & CXA/B 1820 & CXA 1850
ED CXA/B 1816 & CXA/B 1820 & CXA 1850 WHM / FWTM 46.0° / 75.0°
ED   CXA/B 1816 & CXA/B 1820 & CXA 1850     WHM / FWTM   46.0° / 75.0°     fficiency   90 %
ED CXA/B 1816 & CXA/B 1820 & CXA 1850   WHM / FWTM 46.0° / 75.0°   fficiency 90 %   eak intensity 1.6 cd/lm
ED CXA/B 1816 & CXA/B 1820 & CXA 1850   WHM / FWTM 46.0° / 75.0°   fficiency 90 %   reak intensity 1.6 cd/m   EDs/each optic 1
ED CXA/B 1816 & CXA/B 1820 & CXA 1850   WHM / FWTM 46.0° / 75.0°   fficiency 90 %   eak intensity 1.6 cd/lm   EDs/each optic 1   ight colour White
ED CXA/B 1816 & CXA/B 1820 & CXA 1850   WHM / FWTM 46.0° / 75.0°   fficiency 90 %   reak intensity 1.6 cd/m   EDs/each optic 1
ED CXA/B 1816 & CXA/B 1820 & CXA 1850   WHM / FWTM 46.0° / 75.0°   fficiency 90 %   eak intensity 1.6 cd/lm   EDs/each optic 1   ight colour White   equired components: ***
ED CXA/B 1816 & CXA/B 1820 & CXA 1850   WHM / FWTM 46.0° / 75.0°   fficiency 90 %   eak intensity 1.6 cd/lm   EDs/each optic 1   ight colour White   equired components: ***
ED CXA/B 1816 & CXA/B 1820 & CXA 1850 WHM / FWTM 46.0° / 75.0° fficiency 90 % eak intensity 1.6 cd/m EDs/each optic 1 ight colour White tequired components: C14115_PF-SOCKET-CXA15-18
ED CXA/B 1816 & CXA/B 1820 & CXA 1850 WHM / FWTM 46.0° / 75.0° fficiency 90 % eak intensity 1.6 cd/m EDs/each optic 1 ight colour White lequired components: C14115_PF-SOCKET-CXA15-18 C14115_FF-SOCKET-CXA15-18
ED CXA/B 1816 & CXA/B 1820 & CXA 1850 WHM / FWTM 46.0° / 75.0° fficiency 90 % eak intensity 1.6 cd/lm EDs/each optic 1 ight colour White lequired components: C14115_PF-SOCKET-CXA15-18 ED CXA/B 1816 & CXA/B 1820 & CXA 1850
ED CXA/B 1816 & CXA/B 1820 & CXA 1850 WHM / FWTM 46.0° / 75.0° fficiency 90 % eak intensity 1.6 cd/m EDs/each optic 1 ight colour White lequired components: C14115_PF-SOCKET-CXA15-18 ED CXA/B 1816 & CXA/B 1820 & CXA 1850 WHM / FWTM 46.0° / 75.0°
ED CXA/B 1816 & CXA/B 1820 & CXA 1850 WHM / FWTM 46.0° / 75.0° fficiency 90 % eak intensity 1.6 cd/lm EDs/each optic 1 ight colour White lequired components: C14115_PF-SOCKET-CXA15-18 ED CXA/B 1816 & CXA/B 1820 & CXA 1850 WHM / FWTM 46.0° / 75.0° fficiency 86 %
ED CXA/B 1816 & CXA/B 1820 & CXA 1850 WHM / FWTM 46.0° / 75.0° fficiency 90 % eak intensity 1.6 cd/m EDs/each optic 1 ight colour White lequired components: C14115_PF-SOCKET-CXA15-18 ED CXA/B 1816 & CXA/B 1820 & CXA 1850 WHM / FWTM 46.0° / 75.0° fficiency 86 % eak intensity 1.4 cd/m
ED CXA/B 1816 & CXA/B 1820 & CXA 1850 WHM / FWTM 46.0° / 75.0° fficiency 90 % eak intensity 1.6 cd/lm EDs/each optic 1 ight colour White required components: C14115_PF-SOCKET-CXA15-18 ED CXA/B 1816 & CXA/B 1820 & CXA 1850 WHM / FWTM 46.0° / 75.0° fficiency 86 % eak intensity 1.4 cd/lm EDs/each optic 1
ED CXA/B 1816 & CXA/B 1820 & CXA 1850 WHM / FWTM 46.0° / 75.0° fficiency 90 % eak intensity 1.6 cd/lm EDs/each optic 1 ight colour White ED CXA/B 1816 & CXA/B 1820 & CXA 1850 WHM / FWTM 46.0° / 75.0° fficiency 86 % eak intensity 1.4 cd/lm EDs/each optic 1 ight colour White
ED CXA/B 1816 & CXA/B 1820 & CXA 1850 WHM / FWTM 46.0° / 75.0° fficiency 90 % eak intensity 1.6 cd/lm EDs/each optic 1 ight colour White tequired components: C14115_PF-SOCKET-CXA15-18 CXA/B 1816 & CXA/B 1820 & CXA 1850 WHM / FWTM 46.0° / 75.0° fficiency 86 % eak intensity 1.4 cd/lm EDs/each optic 1 ight colour White tequired components:
ED CXA/B 1816 & CXA/B 1820 & CXA 1850 WHM / FWTM 46.0° / 75.0° fficiency 90 % eak intensity 1.6 cd/lm EDs/each optic 1 ight colour White equired components: C14115_PF-SOCKET-CXA15-18 ED CXA/B 1816 & CXA/B 1820 & CXA 1850 WHM / FWTM 46.0° / 75.0° fficiency 86 % eak intensity 1.4 cd/lm EDs/each optic 1 ight colour White equired components: C13709_PF-SOCKET-VER013-18
ED CXA/B 1816 & CXA/B 1820 & CXA 1850 WHM / FWTM 46.0° / 75.0° fficiency 90 % eak intensity 1.6 cd/lm EDs/each optic 1 ight colour White tequired components: C14115_PF-SOCKET-CXA15-18 CXA/B 1816 & CXA/B 1820 & CXA 1850 WHM / FWTM 46.0° / 75.0° fficiency 86 % eak intensity 1.4 cd/lm EDs/each optic 1 ight colour White tequired components:



	.EDS	50°
LED FWHM / FWTM	LUXEON CoB 1202/1203 39.0° / 73.0°	77
Efficiency	88 %	
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	e"
Required compone		
	OCKET-VERO13-18	
Bender Wirth: 4		300
		30°
ØNICHI/	١	80*
LED	COB J-Type	
FWHM / FWTM	51.0° / 76.0°	
Efficiency	86 %	60 <sup>1</sup>
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	** / <del>******</del>
Required compone	ents:	
C13709_PF-SC	OCKET-VERO13-18	
Bender Wirth: 4	63 Typ L2	120
		30" 15" 0" 15"
ØNICHI/	١	90°
LED	СОВ Ј-Туре	
FWHM / FWTM	55.0° / 78.0°	
Efficiency	90 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	gr Andrew Andr
Required compone	ents:	
C14037_PF-NS	SX-SOCKET	
		30° 250 0° 15°
ØNICHI/	١	99*
/		
	COB L-Type (LES 11)	
LED	COB L-Type (LES 11) 51.0° / 77.0°	
LED FWHM / FWTM		
LED FWHM / FWTM Efficiency Peak intensity	51.0° / 77.0°	
LED FWHM / FWTM Efficiency Peak intensity	51.0° / 77.0° 90 %	20 60 <sup>1</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	51.0° / 77.0° 90 % 1.3 cd/lm 1 White	2°. (60)
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	51.0° / 77.0° 90 % 1.3 cd/lm 1 White	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	51.0° / 77.0° 90 % 1.3 cd/lm 1 White ents:	97 - 100. 97 - 100. 97 - 100.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	51.0° / 77.0° 90 % 1.3 cd/lm 1 White ents:	97 - 460
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	51.0° / 77.0° 90 % 1.3 cd/lm 1 White ents:	



		90 <sup>4</sup>	
LED	COB L-Type (LES 11)		
FWHM / FWTM	46.0° / 75.0°	75	
Efficiency	87 %		400
Peak intensity	1.5 cd/lm	ear	
LEDs/each optic	1		
Light colour	White	at the second	- 800 - 93
Required compone			
	CKET-VERO13-18		1200
Bender Wirth: 43			
		*	157 1800 157 36
<b>ØNICHI</b>	N Contraction of the second se	90 <sup>4</sup>	90'
LED	COB L-Type (LES 9)		$\neg \land \land \land$
FWHM / FWTM	41.0° / 74.0°	23-	400
Efficiency	89 %	an and a second s	
Peak intensity	1.7 cd/lm		$\times$
LEDs/each optic	1		
Light colour	White	e.	
Required compone	ents:		1200
C13709_PF-SO	CKET-VERO13-18		
Bender Wirth: 4	38 Typ L1		
		*	15 0° 15 30
N			Y FT
<b>ØNICHI</b>		90*	90*
		<del>30°</del>	90*
	COB L-Type (LES 9) 47.0° / 76.0°	90° 77°	59
LED	COB L-Type (LES 9)	97 77 60	400
LED FWHM / FWTM	COB L-Type (LES 9) 47.0° / 76.0°	94 95 95	400
LED FWHM / FWTM Efficiency	COB L-Type (LES 9) 47.0° / 76.0° 91 %	991 27 191	40
LED FWHM / FWTM Efficiency Peak intensity	COB L-Type (LES 9) 47.0° / 76.0° 91 % 1.5 cd/lm	924 73 62 63	800
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	COB L-Type (LES 9) 47.0° / 76.0° 91 % 1.5 cd/lm 1 White	994 73 69 67	400
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	COB L-Type (LES 9) 47.0° / 76.0° 91 % 1.5 cd/lm 1 White ents:	94 97 97	400
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB L-Type (LES 9) 47.0° / 76.0° 91 % 1.5 cd/lm 1 White ents:	94 72 64 67	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB L-Type (LES 9) 47.0° / 76.0° 91 % 1.5 cd/lm 1 White ents:	94 97 97 97 97 97	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB L-Type (LES 9) 47.0° / 76.0° 91 % 1.5 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14037_PF-NS	COB L-Type (LES 9) 47.0° / 76.0° 91 % 1.5 cd/lm 1 White ents:		25 - 40
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14037_PF-NS	COB L-Type (LES 9) 47.0° / 76.0° 91 % 1.5 cd/lm 1 White ents: X-SOCKET		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14037_PF-NS	COB L-Type (LES 9) 47.0° / 76.0° 91 % 1.5 cd/lm 1 White ents: X-SOCKET		25 - 40
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14037_PF-NS	COB L-Type (LES 9) 47.0° / 76.0° 91 % 1.5 cd/lm 1 White ents: X-SOCKET Soleriq S13 47.0° / 75.0°		200 - Co
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14037_PF-NS OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	COB L-Type (LES 9) 47.0° / 76.0° 91 % 1.5 cd/lm 1 White ents: X-SOCKET Soleriq S13 47.0° / 75.0° 87 %		200 - Co
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14037_PF-NS OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	COB L-Type (LES 9) 47.0° / 76.0° 91 % 1.5 cd/lm 1 White ents: X-SOCKET Soleriq S13 47.0° / 75.0° 87 % 1.4 cd/lm		200 - Co
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14037_PF-NS OSCRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB L-Type (LES 9) 47.0° / 76.0° 91 % 1.5 cd/lm 1 White ents: X-SOCKET Soleriq S13 47.0° / 75.0° 87 % 1.4 cd/lm 1 White ents:		200 - Co
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14037_PF-NS Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB L-Type (LES 9) 47.0° / 76.0° 91 % 1.5 cd/lm 1 White ents: X-SOCKET Soleriq S13 47.0° / 75.0° 87 % 1.4 cd/lm 1 White		- 400
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14037_PF-NS Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB L-Type (LES 9) 47.0° / 76.0° 91 % 1.5 cd/lm 1 White ents: X-SOCKET Soleriq S13 47.0° / 75.0° 87 % 1.4 cd/lm 1 White ents: CKET-VERO13-18		25 - 40
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14037_PF-NS OBSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO	COB L-Type (LES 9) 47.0° / 76.0° 91 % 1.5 cd/lm 1 White ents: X-SOCKET Soleriq S13 47.0° / 75.0° 87 % 1.4 cd/lm 1 White ents: CKET-VERO13-18		



SAMS	UNG	99 <sup>4</sup>
LED	LC026B / 033B / 040B	
FWHM / FWTM	55.0° / 78.0°	
Efficiency	86 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	gr (
Required compone	ents:	
C13709_PF-SC	OCKET-VERO13-18	
Bender Wirth: 4	50 Typ L2	
		305 200 200 3
XICATO	0	20 <sup>5</sup> 6 <sup>67</sup> 20 <sup>5</sup>
LED	XTM - 19mm LES	
FWHM / FWTM	55.0° / 78.0°	
Efficiency	84 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	gr de la constante de la consta
Required compone		
C14636_XTM-F		
_		
	_	257 3269 257
XICATO	)	90 <sup>4</sup>
LED	XTM - 9mm LES	
FWHM / FWTM	42.0° / 73.0°	
Efficiency	87 %	
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	5°
Required compone	ents:	
C14636_XTM-F	PF-ADAPTER	
		133 00 133



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

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LED	CxM-14 (19x19)			
FWHM / FWTM	50.0° / 76.0°			
Efficiency	86 %			
Peak intensity	1.3 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 / FWTM	43.0° / 74.0°	
Efficiency	88 %	
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
C13709_PF-SOCKET-VERO13-18		
Bender Wirth: 434 Typ L1		

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opto connectituatione		
LED	Soleriq S15	
FWHM / FWTM	73.0° / 88.0°	
Efficiency	90 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
C13709_PF-SOCKET-VERO13-18		
Bender Wirth: 433 Typ L1		

#### SEOUL

SEOUL SEMICONDUCTOR LED ZC12/18 FWHM / FWTM 50.0° / 76.0° Efficiency 86 % Peak intensity 1.3 cd/lm LEDs/each optic 1 White Light colour Required components: C13709\_PF-SOCKET-VERO13-18 Bender Wirth: 433 Typ L1



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

SEOUL		
SEOUL SEMICONDUCTOR		
LED	ZC4/6	
FWHM / FWTM	43.0° / 74.0°	
Efficiency	88 %	
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
C13709_PF-SOCKET-VERO13-18		
Bender Wirth: 434 Typ L1		



# PRODUCT DATASHEET F13702\_BARBARA-WW-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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