

# PRODUCT DATASHEET F13701\_BARBARA-W-PF

# **BARBARA-W-PF**

~35° wide beam

## **TECHNICAL SPECIFICATIONS:**

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



# **MATERIAL SPECIFICATIONS:**

Component BARBARA-W-PF

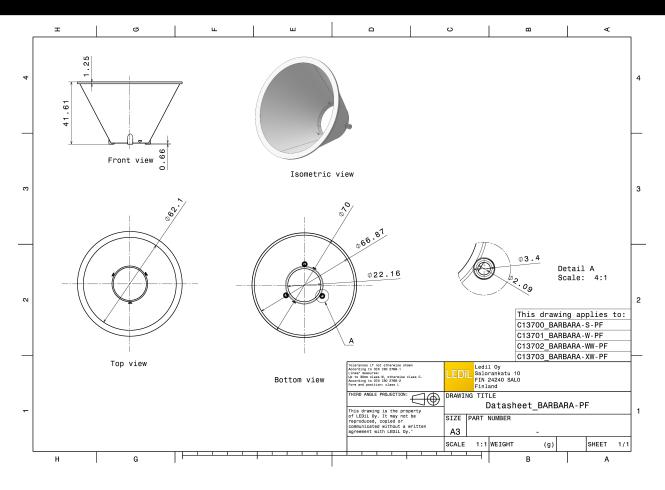
**Type** Reflector **Material** PC

Colour	Finish	Coating
metal		HMDS

## **ORDERING INFORMATION:**

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F13701_BARBARA-W-PF	288	90	18	7.7
» Box size: 480 x 280 x 300 mm				

# PRODUCT DATASHEET F13701\_BARBARA-W-PF



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



bridgelux.		90*
LED	V10 Gen7	
FWHM / FWTM 3	31.0° / 70.0°	
Efficiency	90 %	60° 800 60°
Peak intensity 2	2.4 cd/lm	$\land$ / / $\land$ $\land$ $\land$
LEDs/each optic	1	
	White	45. 42,
Required components	S:	
C13709_PF-SOCK		
Bender Wirth: 434	Typ L1	
		36° 22 24 30° 30°
bridgelux.		90°
LED	VERO10	
FWHM / FWTM	31.0° / 71.0°	
Efficiency	91 %	60 <sup>4</sup> 800 60°
Peak intensity 2	2.3 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 45°
Required components	s:	1699
C13708_PF-SOCK	KET-VERO10	
		30* 200 30*
		15° 0° 15°
bridgelux.		
	VERO13	
LED	VERO13 36.0° / 72.0°	
LED FWHM / FWTM		
LED S FWHM / FWTM S Efficiency S	36.0° / 72.0°	
LED STREAM STREA	36.0° / 72.0° 93 %	30*         30*           30*         30*
LED Seach optic	36.0° / 72.0° 93 % 2 cd/lm	30*         30*           30*         30*
LED Seach optic	36.0° / 72.0° 93 % 2 cd/lm 1 White	30*         30*           30*         30*
LED Seach optic States of the second	36.0° / 72.0° 93 % 2 cd/lm 1 White s:	30*         30*           30*         30*
LED Construction of the second	36.0° / 72.0° 93 % 2 cd/lm 1 White s:	30*         30*           30*         30*
LED Construction of the second	36.0° / 72.0° 93 % 2 cd/lm 1 White s:	30*         30*           30*         30*
LED FWHM / FWTM C Efficiency S Peak intensity C LEDs/each optic C Light colour M Required components C13709_PF-SOCK	36.0° / 72.0° 93 % 2 cd/lm 1 White s:	
LED S FWHM / FWTM S Efficiency S Peak intensity S LEDs/each optic S Light colour S Required components C13709_PF-SOCK	36.0° / 72.0° 93 % 2 cd/lm 1 White s: KET-VERO13-18	
LED S FWHM / FWTM S Efficiency S Peak intensity S LEDs/each optic S Light colour N Required components C13709_PF-SOCK	36.0° / 72.0° 93 % 2 cd/lm 1 White s: KET-VERO13-18 VERO18	
LED C FWHM / FWTM C Efficiency S Peak intensity C LEDs/each optic C Light colour C Required components C13709_PF-SOCK	36.0° / 72.0° 93 % 2 cd/lm 1 White s: KET-VERO13-18 VERO18 45.0° / 76.0°	
LED PWHM / FWTM C Efficiency S Peak intensity C LEDs/each optic C Light colour M Required components C13709_PF-SOCK bridgelux. LED S EFMHM / FWTM C Efficiency S	36.0° / 72.0° 93 % 2 cd/lm 1 White s: KET-VERO13-18 VERO18 45.0° / 76.0° 92 %	
LED P FWHM / FWTM C Efficiency S Peak intensity C LEDs/each optic C Light colour M Required components C13709_PF-SOCK DrdgeLux, LED S FWHM / FWTM C Efficiency S Peak intensity C	36.0° / 72.0° 93 % 2 cd/lm 1 White s: KET-VERO13-18 VERO18 45.0° / 76.0° 92 % 1.5 cd/lm	
LED PERMIN / FWTM Control of the second seco	36.0° / 72.0° 93 % 2 cd/lm 1 White s: KET-VERO13-18 VERO18 45.0° / 76.0° 92 % 1.5 cd/lm 1	
LED PEAK intensity 2 FWHM / FWTM 2 Efficiency 9 Peak intensity 2 LEDs/each optic 4 Required components C13709_PF-SOCK bridgetux. LED 9 FWHM / FWTM 4 Efficiency 9 Peak intensity 4 LEDs/each optic 4 LED	36.0° / 72.0° 93 % 2 cd/lm 1 White s: KET-VERO13-18 VERO18 45.0° / 76.0° 92 % 1.5 cd/lm 1 White 1 White	
LED PERMIN / FWTM Constraints of the second	36.0° / 72.0° 93 % 2 cd/lm 1 White s: KET-VERO13-18 VERO18 45.0° / 76.0° 92 % 1.5 cd/lm 1 White s: S:	
LED PEAK intensity 2 FWHM / FWTM 2 Efficiency 9 Peak intensity 2 LEDs/each optic 4 Required components C13709_PF-SOCK bridgetux. LED 9 FWHM / FWTM 4 Efficiency 9 Peak intensity 4 LEDs/each optic 4 LED	36.0° / 72.0° 93 % 2 cd/lm 1 White s: KET-VERO13-18 VERO18 45.0° / 76.0° 92 % 1.5 cd/lm 1 White s: S:	
LED PERMIN / FWTM Constraints of the second	36.0° / 72.0° 93 % 2 cd/lm 1 White s: KET-VERO13-18 VERO18 45.0° / 76.0° 92 % 1.5 cd/lm 1 White s: S:	



bridgelux.			90*	90*
LED	Xenio Point 13mm			
FWHM / FWTM	36.0° / 73.0°		25* 400	at the second se
Efficiency	91 %			$\mathbb{N} \times \mathbb{N}$
Peak intensity	2 cd/lm		60° 800	60*
LEDs/each optic	1			
Light colour	White		e7 1200	47.
Required compone				
	CKET-VERO13-18		1600	A
			30°	35°
bridgelux.			90*	90*
LED	Xenio Point 18mm			
FWHM / FWTM	46.0° / 77.0°		70	1
Efficiency	89 %		60° 400	A X Xare
Peak intensity	1.4 cd/lm		$\sim$ $\times$ /	$\mathbf{N} \times \mathbf{i}$
LEDs/each optic	1			XX
Light colour	White		47° / 000	47.
Required compone	ents:			
C13709_PF-SO	CKET-VERO13-18		1200	
			30*	3(*
			15° 0°	15*
OTTIT	<b>N T</b>			-
CITIZE	Ν		90*	90*
	N CLL02x/CLU02x (LES10)		50* 27*	90°
			80*	90*
LED	CLL02x/CLU02x (LES10)		60°	92 32
LED FWHM / FWTM	CLL02x/CLU02x (LES10) 32.0° / 71.0°		60°	80 26 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLL02x/CLU02x (LES10) 32.0° / 71.0° 88 %		905 000 705 000 700	90°
LED FWHM / FWTM Efficiency Peak intensity	CLL02x/CLU02x (LES10) 32.0° / 71.0° 88 % 2.3 cd/lm		62. 00. 25. 00.	50 70 70 70 70 70 70 70 70 70 70 70 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CLL02x/CLU02x (LES10) 32.0° / 71.0° 88 % 2.3 cd/lm 1 White ents:		g, 60, 00 25, 00	90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO	CLL02x/CLU02x (LES10) 32.0° / 71.0° 88 % 2.3 cd/lm 1 White ents: CKET-VERO13-18		9 <sup>3</sup> 9 <sup>3</sup> 9 <sup>3</sup> 9 <sup>3</sup>	90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CLL02x/CLU02x (LES10) 32.0° / 71.0° 88 % 2.3 cd/lm 1 White ents: CKET-VERO13-18		90* 95 60* 60* 1200	90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO	CLL02x/CLU02x (LES10) 32.0° / 71.0° 88 % 2.3 cd/lm 1 White ents: CKET-VERO13-18		20 <sup>5</sup> 200 20 <sup>5</sup> 200 20 <sup>5</sup> 200 20 <sup>5</sup> 200 20 <sup>5</sup> 200 20 <sup>5</sup> 200 200 200	80 80 80 80 80 80 80 80 80 80 80 80 80 8
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 43	CLL02x/CLU02x (LES10) 32.0° / 71.0° 88 % 2.3 cd/lm 1 White ents: CKET-VERO13-18 34 Typ L1		15% 00	100 100 100 100 100 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 43	CLL02x/CLU02x (LES10) 32.0° / 71.0° 88 % 2.3 cd/lm 1 White white white CKET-VERO13-18 34 Typ L1		54 <sup>3</sup> 55 <sup>3</sup> 60 <sup>5</sup> 60 <sup>5</sup> 6	100 100 100 100 100 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 43 CITTIZE LED	CLL02x/CLU02x (LES10) 32.0° / 71.0° 88 % 2.3 cd/lm 1 White onts: CKET-VERO13-18 34 Typ L1		15% 00	99 
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 43 <b>CITTIZE</b> LED FWHM / FWTM	CLL02x/CLU02x (LES10) 32.0° / 71.0° 88 % 2.3 cd/lm 1 White ents: CKET-VERO13-18 34 Typ L1 N CLL03x/CLU03x 41.0° / 73.0°		90* 0*	20- 
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 4: <b>CITTIZE</b> LED FWHM / FWTM Efficiency	CLL02x/CLU02x (LES10) 32.0° / 71.0° 88 % 2.3 cd/lm 1 White ents: CKET-VERO13-18 34 Typ L1 N CLL03x/CLU03x 41.0° / 73.0° 87 %		90* 0*	60 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 4: <b>CITTIZE</b> LED FWHM / FWTM Efficiency Peak intensity	CLL02x/CLU02x (LES10) 32.0° / 71.0° 88 % 2.3 cd/lm 1 White ents: CKET-VERO13-18 34 Typ L1 N CLL03x/CLU03x 41.0° / 73.0° 87 % 1.6 cd/lm		90* 0*	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 4: <b>CITTIZE</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLL02x/CLU02x (LES10) 32.0° / 71.0° 88 % 2.3 cd/lm 1 White ents: CKET-VERO13-18 34 Typ L1 <b>N</b> CLL03x/CLU03x 41.0° / 73.0° 87 % 1.6 cd/lm 1		90* 0*	8°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 4: CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLL02x/CLU02x (LES10) 32.0° / 71.0° 88 % 2.3 cd/lm 1 White onts: CKET-VERO13-18 34 Typ L1 <b>N</b> CLL03x/CLU03x 41.0° / 73.0° 87 % 1.6 cd/lm 1 White		90* 0*	99 
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 4: <b>CITTIZE</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLL02x/CLU02x (LES10) 32.0° / 71.0° 88 % 2.3 cd/lm 1 White white white White N CLL03x/CLU03x 41.0° / 73.0° 87 % 1.6 cd/lm 1 White white white		90* 0*	8,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 4: <b>CITTIZE</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO	CLL02x/CLU02x (LES10) 32.0° / 71.0° 88 % 2.3 cd/lm 1 White white white M CLL03x/CLU03x 41.0° / 73.0° 87 % 1.6 cd/lm 1 White white cKET-VERO13-18		90* 0*	8°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 4: <b>CITTIZE</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLL02x/CLU02x (LES10) 32.0° / 71.0° 88 % 2.3 cd/lm 1 White white white M CLL03x/CLU03x 41.0° / 73.0° 87 % 1.6 cd/lm 1 White white cKET-VERO13-18		90* 0*	8°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 4: <b>CITTIZE</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO	CLL02x/CLU02x (LES10) 32.0° / 71.0° 88 % 2.3 cd/lm 1 White white white M CLL03x/CLU03x 41.0° / 73.0° 87 % 1.6 cd/lm 1 White white cKET-VERO13-18		90* 0*	8°



CITIZE	N			80*
LED	CLU700/701/702			
FWHM / FWTM	22.0° / 61.0°			23
Efficiency	89 %			
Peak intensity	3.3 cd/lm			
LEDs/each optic	1			
Light colour	White			gr /
Required compone	nts:	l		2000
C13709_PF-SO	CKET-VERO13-18			
Bender Wirth: 43	34 Typ L1			220
	5			255 <sup>0</sup> 0 <sup>4</sup> 35 <sup>5</sup>
	CXA/B 15xx			
FWHM / FWTM	30.0° / 69.0°			
Efficiency	91 %			
Peak intensity	2.6 cd/lm			
LEDs/each optic	1 White			<b>9</b> <sup>1</sup>
Light colour				
Required compone		-		
C14115_PF-SO	CKET-CXA15-18			
				200
				30° 15° 0° 15°
			1000	<u>8</u> °
LED	CXA/B 15xx			2°-
				90 <sup>4</sup>
LED FWHM / FWTM	CXA/B 15xx			6%
LED FWHM / FWTM Efficiency Peak intensity	CXA/B 15xx 30.0° / 70.0°			00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CXA/B 15xx 30.0° / 70.0° 88 % 2.5 cd/lm 1			60 62 72 10 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CXA/B 15xx 30.0° / 70.0° 88 % 2.5 cd/lm 1 White			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 15xx 30.0° / 70.0° 88 % 2.5 cd/lm 1 White nts:			9° 9° 9° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO	CXA/B 15xx 30.0° / 70.0° 88 % 2.5 cd/lm 1 White nts: CKET-VERO13-18			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 15xx 30.0° / 70.0° 88 % 2.5 cd/lm 1 White nts: CKET-VERO13-18			9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO	CXA/B 15xx 30.0° / 70.0° 88 % 2.5 cd/lm 1 White nts: CKET-VERO13-18			22 0° 22 200 21 200 200 200 200 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO	CXA/B 15xx 30.0° / 70.0° 88 % 2.5 cd/lm 1 White nts: CKET-VERO13-18 41 Typ L1			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 44	CXA/B 15xx 30.0° / 70.0° 88 % 2.5 cd/lm 1 White nts: CKET-VERO13-18 41 Typ L1			30 <sup>4</sup> 30 <sup>5</sup> 0 <sup>4</sup> 30 <sup>5</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 44	CXA/B 15xx 30.0° / 70.0° 88 % 2.5 cd/lm 1 White nts: CKET-VERO13-18 41 Typ L1			30 <sup>4</sup> 30 <sup>5</sup> 0 <sup>4</sup> 30 <sup>5</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 44	CXA/B 15xx 30.0° / 70.0° 88 % 2.5 cd/lm 1 White nts: CKET-VERO13-18 41 Typ L1			30 <sup>4</sup> 30 <sup>5</sup> 0 <sup>4</sup> 30 <sup>5</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 44	CXA/B 15xx 30.0° / 70.0° 88 % 2.5 cd/lm 1 White nts: CKET-VERO13-18 11 Typ L1 CXA/B 15xx 30.0° / 73.0°			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 44 CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CXA/B 15xx 30.0° / 70.0° 88 % 2.5 cd/lm 1 White nts: CKET-VERO13-18 41 Typ L1 CXA/B 15xx 30.0° / 73.0° 85 %			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 44 CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CXA/B 15xx 30.0° / 70.0° 88 % 2.5 cd/lm 1 White nts: CKET-VERO13-18 41 Typ L1 CXA/B 15xx 30.0° / 73.0° 85 % 2.2 cd/lm 1 White			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 44 CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CXA/B 15xx 30.0° / 70.0° 88 % 2.5 cd/lm 1 White nts: CKET-VERO13-18 41 Typ L1 CXA/B 15xx 30.0° / 73.0° 85 % 2.2 cd/lm 1 White			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 44 CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CXA/B 15xx 30.0° / 70.0° 88 % 2.5 cd/lm 1 White nts: CKET-VERO13-18 41 Typ L1 CXA/B 15xx 30.0° / 73.0° 85 % 2.2 cd/lm 1 White nts:			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 44 CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 15xx 30.0° / 70.0° 88 % 2.5 cd/lm 1 White nts: CKET-VERO13-18 41 Typ L1 CXA/B 15xx 30.0° / 73.0° 85 % 2.2 cd/lm 1 White nts: CKET			



		30'
LED FWHM / FWTM Efficiency Peak intensity	CXA/B 1816 & CXA/B 1820 & CXA 1850 36.0° / 72.0° 88 % 2 cd/lm	55
LEDs/each optic	1	
Light colour	White	· 1200
Required compone		
	CKET-VERO13-18	
Bender Wirth: 4	37 Тур L1	20 <sup>1</sup> 20 <sup>1</sup> 20 <sup>1</sup>
		30 <sup>3</sup>
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	
FWHM / FWTM	36.0° / 71.0°	
Efficiency	94 %	
Peak intensity	2.1 cd/lm	
LEDs/each optic	1	
Light colour	White	e,
Required compone		
C14115_PF-SC	CKET-CXA15-18	
		30 <sup>2</sup> 20 <sup>2</sup> 0 <sup>4</sup> 20 <sup>2</sup>
	EDS	
LED	LUXEON CoB 1202/1203	
FWHM / FWTM	30.0° / 68.0°	
Efficiency	91 %	90 <sup>0</sup>
Peak intensity	2.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone C14037_PF-NS		200 200 200
	EDS	30 <sup>4</sup>
LED	LUXEON CoB 1202/1203	
FWHM / FWTM	31.0° / 70.0°	
Efficiency	90 %	
Peak intensity	2.4 cd/lm	
LEDs/each optic	1	
Light colour	\A/bite	g. A A
	White	1600 H
Required compone	ents:	
Required compone C13709_PF-SC	nts: CKET-VERO13-18	
Required compone	nts: CKET-VERO13-18	250 250 250 250 250 250 250 250 250 250



UMIL	EDS	
LED	LUXEON CoB 1202s	
FWHM / FWTM	20.0° / 52.0°	
Efficiency	92 %	
Peak intensity	4.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
C13761_PF-SO	CKET-CXA15	
		90*
LED	– СОВ Ј-Туре	
FWHM / FWTM	41.0° / 74.0°	
Efficiency	92 %	
Peak intensity	92 % 1.8 cd/lm	
LEDs/each optic	1	
Light colour	White	e.
Required compone		
C14037_PF-NS		
014037_11-103		160
		30°
		90°
LED	COB J-Type	
FWHM / FWTM	40.0° / 73.0°	
Efficiency	88 %	00
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	or a second s
Required compone	nts:	
C13709_PF-SO	CKET-VERO13-18	
Bender Wirth: 46	63 Typ L2	160
		30° 110 00 110
<b>ØNICHI</b>		
LED	COB L-Type (LES 11)	
FWHM / FWTM	35.0° / 72.0°	
Efficiency	88 %	
Peak intensity	2 cd/lm	
LEDa/aaah antia	1	
LEDs/each optic	White	
Light colour	vvriite	
Light colour Required compone	nts:	
Light colour Required compone		
Light colour Required compone	nts: CKET-VERO13-18	



$\sim$			
<b>Ø</b> NICHI∕		50*	9
LED	COB L-Type (LES 11)		
FWHM / FWTM	35.0° / 71.0°		
Efficiency	91 %	eve and a second s	
Peak intensity	2.1 cd/lm		
LEDs/each optic	1		
Light colour	White	<b>9</b> 7	$\sim$
Required compone	ents:		
C14037_PF-NS	X-SOCKET		
		34 <sup>4</sup> 135 <sup>4</sup> Q <sup>4</sup> 135 <sup>4</sup>	
ØNICHI/		20*	9
LED	COB L-Type (LES 9)		
FWHM / FWTM	30.0° / 68.0°	2	1
Efficiency	92 %		×.
Peak intensity	2.7 cd/lm		/ "
LEDs/each optic	1		
Light colour	White	¢*	a
Required compone	ents:		
C14037_PF-NS	X-SOCKET		
		200	
			э
		90*	
		30°	
	COB L-Type (LES 9) 30.0° / 70.0°	30 <sup>-</sup>	~ 2
LED	COB L-Type (LES 9)	30 <sup>1</sup>	
LED FWHM / FWTM	COB L-Type (LES 9) 30.0° / 70.0°	90 <sup>4</sup>	2
LED FWHM / FWTM Efficiency	COB L-Type (LES 9) 30.0° / 70.0° 91 %	90 <sup>4</sup> 90 <sup>4</sup> 90 <sup>4</sup>	2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	COB L-Type (LES 9) 30.0° / 70.0° 91 % 2.5 cd/lm	9°*	27 27 61 4
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB L-Type (LES 9) 30.0° / 70.0° 91 % 2.5 cd/lm 1 White ents:	9°* 27 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 compone C13709_PF-SO	COB L-Type (LES 9) 30.0° / 70.0° 91 % 2.5 cd/lm 1 White ents: CKET-VERO13-18	9°* 75 67 70 70 70 70 70 70 70 70 70 70 70	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB L-Type (LES 9) 30.0° / 70.0° 91 % 2.5 cd/lm 1 White ents: CKET-VERO13-18	9°* 100) 100)	27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO	COB L-Type (LES 9) 30.0° / 70.0° 91 % 2.5 cd/lm 1 White ents: CKET-VERO13-18	9°* 75 60° 78° 78° 78° 78° 78° 78° 78° 78	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO	COB L-Type (LES 9) 30.0° / 70.0° 91 % 2.5 cd/lm 1 White ents: CKET-VERO13-18 38 Typ L1		27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 43	COB L-Type (LES 9) 30.0° / 70.0° 91 % 2.5 cd/lm 1 White ents: CKET-VERO13-18 38 Typ L1	205 205 205 205 205 205	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 43	COB L-Type (LES 9) 30.0° / 70.0° 91 % 2.5 cd/lm 1 White I KHT-VERO13-18 38 Typ L1	205 205 205 205 205 205	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 43	COB L-Type (LES 9) 30.0° / 70.0° 91 % 2.5 cd/lm 1 White ents: CKET-VERO13-18 38 Typ L1 NSCxL036A	205 205 205 205 205 205	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 43	COB L-Type (LES 9) 30.0° / 70.0° 91 % 2.5 cd/lm 1 White ents: CKET-VERO13-18 38 Typ L1 NSCxL036A 25.0° / 60.0°	205 205 205 205 205 205	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 43 <b>WICHIA</b> LED FWHM / FWTM Efficiency Peak intensity	COB L-Type (LES 9) 30.0° / 70.0° 91 % 2.5 cd/lm 1 White ents: CKET-VERO13-18 38 Typ L1 NSCxL036A 25.0° / 60.0° 90 %	205 205 205 205 205 205	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 43	COB L-Type (LES 9) 30.0° / 70.0° 91 % 2.5 cd/lm 1 White ents: CKET-VERO13-18 38 Typ L1 NSCxL036A 25.0° / 60.0° 90 % 3.2 cd/lm		L X
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 43 MICHIM LED FWHM / FWTM Efficiency	COB L-Type (LES 9) 30.0° / 70.0° 91 % 2.5 cd/lm 1 White ents: CKET-VERO13-18 38 Typ L1 NSCxL036A 25.0° / 60.0° 90 % 3.2 cd/lm 1 White		L X
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 43 <b>WICHIA</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	COB L-Type (LES 9) 30.0° / 70.0° 91 % 2.5 cd/lm 1 White ents: CKET-VERO13-18 38 Typ L1 NSCxL036A 25.0° / 60.0° 90 % 3.2 cd/lm 1 White ents:		L X
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 4:	COB L-Type (LES 9) 30.0° / 70.0° 91 % 2.5 cd/lm 1 White ents: CKET-VERO13-18 38 Typ L1 NSCxL036A 25.0° / 60.0° 90 % 3.2 cd/lm 1 White ents:		L X
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO Bender Wirth: 4: <b>WICHIA</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB L-Type (LES 9) 30.0° / 70.0° 91 % 2.5 cd/lm 1 White ents: CKET-VERO13-18 38 Typ L1 NSCxL036A 25.0° / 60.0° 90 % 3.2 cd/lm 1 White ents:		



[		
OSRAM Opto Semiconductors		50 <sup>+</sup>
LED	Soleriq S13	
FWHM / FWTM	37.0° / 72.0°	75
Efficiency	89 %	
Peak intensity	1.9 cd/lm	60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	
Required compone		
	OCKET-VERO13-18	
Bender Wirth: 4		
		30" 200 127 of 27
SAMSI	UNG	
LED	LC026B / 033B / 040B	
FWHM / FWTM	45.0° / 76.0°	75
Efficiency	87 %	
Peak intensity	1.4 cd/lm	50°
LEDs/each optic	1	
Light colour	White	★*
Required compone		
	CKET-VERO13-18	
Bender Wirth: 4		400
Bender Wirth. +	00 Typ L2	
		30 <sup>10</sup> 155 0 <sup>4</sup> 155
XICATO	)	30*
LED	XTM - 19mm LES	75
LED FWHM / FWTM	XTM - 19mm LES 45.0° / 75.0°	72
LED FWHM / FWTM Efficiency	XTM - 19mm LES 45.0° / 75.0° 86 %	97 94
LED FWHM / FWTM Efficiency Peak intensity	XTM - 19mm LES 45.0° / 75.0° 86 % 1.4 cd/lm	27 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XTM - 19mm LES 45.0° / 75.0° 86 % 1.4 cd/lm 1	72° - 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XTM - 19mm LES 45.0° / 75.0° 86 % 1.4 cd/lm 1 White	32 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XTM - 19mm LES 45.0° / 75.0° 86 % 1.4 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XTM - 19mm LES 45.0° / 75.0° 86 % 1.4 cd/lm 1 White ents:	72 90 90 90 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XTM - 19mm LES 45.0° / 75.0° 86 % 1.4 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14636_XTM-F	XTM - 19mm LES 45.0° / 75.0° 86 % 1.4 cd/lm 1 White ents: PF-ADAPTER	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XTM - 19mm LES 45.0° / 75.0° 86 % 1.4 cd/lm 1 White ents: PF-ADAPTER	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14636_XTM-F	XTM - 19mm LES 45.0° / 75.0° 86 % 1.4 cd/lm 1 White ents: PF-ADAPTER	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14636_XTM-P	XTM - 19mm LES 45.0° / 75.0° 86 % 1.4 cd/lm 1 White ents: PF-ADAPTER	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14636_XTM-P	XTM - 19mm LES 45.0° / 75.0° 86 % 1.4 cd/lm 1 White ents: PF-ADAPTER XTM - 9mm LES	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14636_XTM-P	XTM - 19mm LES 45.0° / 75.0° 86 % 1.4 cd/lm 1 White ents: PF-ADAPTER XTM - 9mm LES 30.0° / 70.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14636_XTM-F	XTM - 19mm LES 45.0° / 75.0° 86 % 1.4 cd/lm 1 White ents: PF-ADAPTER XTM - 9mm LES 30.0° / 70.0° 89 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14636_XTM-P C14636_XTM-P Efficiency Peak intensity	XTM - 19mm LES 45.0° / 75.0° 86 % 1.4 cd/lm 1 White ents: PF-ADAPTER XTM - 9mm LES 30.0° / 70.0° 89 % 2.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14636_XTM-P <b>XICATC</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XTM - 19mm LES 45.0° / 75.0° 86 % 1.4 cd/lm 1 White ents: PF-ADAPTER XTM - 9mm LES 30.0° / 70.0° 89 % 2.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14636_XTM-P <b>XICATC</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XTM - 19mm LES 45.0° / 75.0° 86 % 1.4 cd/lm 1 White ents: PF-ADAPTER XTM - 9mm LES 30.0° / 70.0° 89 % 2.5 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14636_XTM-P <b>XICATC</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XTM - 19mm LES 45.0° / 75.0° 86 % 1.4 cd/lm 1 White ents: PF-ADAPTER XTM - 9mm LES 30.0° / 70.0° 89 % 2.5 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14636_XTM-P <b>XICATC</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XTM - 19mm LES 45.0° / 75.0° 86 % 1.4 cd/lm 1 White ents: PF-ADAPTER XTM - 9mm LES 30.0° / 70.0° 89 % 2.5 cd/lm 1 White ents:	



#### PHOTOMETRIC DATA (SIMULATED):

#### bridgelux.

 LED
 V10 Gen7

 FWHM / FWTM
 31.0° / 69.0°

 Efficiency
 90 %

 Peak intensity
 2.5 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 C13709\_PF-SOCKET-VERO13-18

 Bender Wirth: 486 Ty L1
 Veropenation

### UMILEDS

 LED
 LUXEON CoB Compact

 FWHM / FWTM
 20.0° / 52.0°

 Efficiency
 92 %

 Peak intensity
 4.1 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 C13761\_PF-SOCKET-CXA15

#### 

 LED
 CxM-14 (19x19)

 FWHM / FWTM
 41.0° / 73.0°

 Efficiency
 87 %

 Peak intensity
 1.6 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 C13709\_PF-SOCKET-VERO13-18

 Bender Wirth: 433 Typ L1
 Kenter State

#### 

 LED
 CxM-9 (13.5x13.5)

 FWHM / FWTM
 32.0° / 71.0°

 Efficiency
 88 %

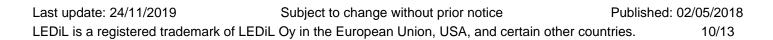
 Peak intensity
 2.3 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 C13709\_PF-SOCKET-VERO13-18

 Bender Wirth: 434 Typ L1
 1





# PHOTOMETRIC DATA (SIMULATED):

OSRAM Opto Semiconductors		91 <sup>4</sup> 95 <sup>4</sup>
LED	Soleriq S15	
FWHM / FWTM	39.0° / 74.0°	75 - 25
Efficiency	90 %	
Peak intensity	1.8 cd/lm	
LEDs/each optic	1	
Light colour	White	gr Gr
Required component		
C13709_PF-SOCI		
Bender Wirth: 433		400
		259 00 159
SAMSU	NG	30* 30*
	LC010C	75
FWHM / FWTM	23.0° / 54.0° 90 %	
Efficiency		60°
Peak intensity	3.5 cd/lm	
LEDs/each optic	1	
Light colour	White	200
Required component		
C13709_PF-SOC		
Bender Wirth: 479	Тур Ц1	200
		3 <sup>2</sup> 25 <sup>5</sup> 0 <sup>5</sup> 25 <sup>5</sup>
SAMSU	NG	307 307
LED	LC020C	
FWHM / FWTM	27.0° / 65.0°	75
Efficiency	89 %	
Peak intensity	2.9 cd/lm	691-
LEDs/each optic	1	
Light colour	White	er 500 -
Required component		
C13709_PF-SOCI		
Bender Wirth: 479		
Dender Wirth. 475	Typ E1	
		20 <sup>4</sup> 30 <sup>4</sup> 30 <sup>4</sup>
SAMSU	NG	30° 30°
LED	LC040C	
EED FWHM / FWTM	33.0° / 70.0°	25-
Efficiency	85 %	
Peak intensity	2.1 cd/lm	60 <sup>2</sup> 50 <sup>2</sup>
	2.1 cd/im 1	
LEDs/each optic Light colour	White	
Required component		
C13709_PF-SOCH		
Bender Wirth: 480		
	יארי	
		207 07 257



# PHOTOMETRIC DATA (SIMULATED):

SEOUL	
SEOUL SEMICONDUCTOR	
LED	ZC12/18
FWHM / FWTM	41.0° / 73.0°
Efficiency	87 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White
Required component	S:
C13709_PF-SOCI	KET-VERO13-18
Bender Wirth: 433	Typ L1
SEOUL	
SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM / FWTM	32.0° / 71.0°
Efficiency	88 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White
Required component	s:
C13709_PF-SOCI	
Bender Wirth: 434	
	.)p=.



#### **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.

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