# mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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### **MIRELLA-50-W-PF**

 ${\sim}40^{\circ}$  wide beam

#### **TECHNICAL SPECIFICATIONS:**

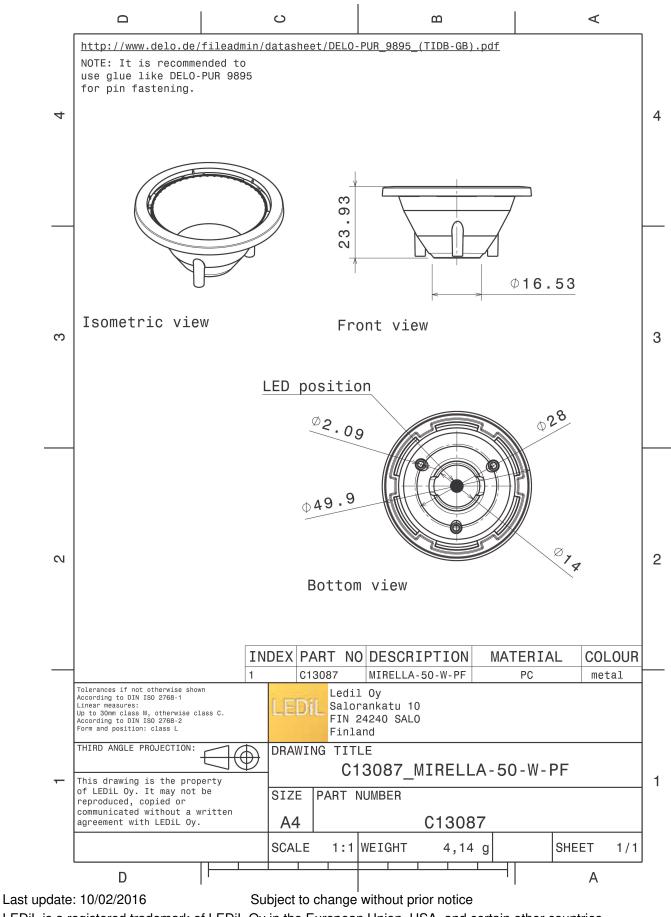
Dimensions	Ø 49.9 mm
Height	24 mm
Fastening	socket
Colour	metal
Box size	480 x 280 x 300 mm
Box weight	2.8 kg
Quantity in Box	336 pcs
ROHS compliant	yes 🛈



PRODUCT DATASHEET C13087\_MIRELLA-50-W-PF

#### **MATERIAL SPECIFICATIONS:**

Component MIRELLA-50-W-PF **Type** Reflector Material PC **Colour** metal Coating lacquer



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LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.



bridgelux.		-	90'	
LED	V10 Gen6		75	
FWHM	39.0°			
Efficiency	86 %		601	
Peak intensity	1.500 cd/lm			
Required comp	oonents:		45'	
C14115_PF-	SOCKET-CXA15-18			1200
				$\times$ $\land$ $\land$ $\times$
			36	- <u>1600</u> 36° 15° 0° 15°
bridgelux.		-	90	
LED	V6 Gen6		75	
FWHM	44.0°			
Efficiency	81 %		60.	400 - B0*
Peak intensity	1.300 cd/lm			
Required comp	oonents:		45'	
C13761_PF-	SOCKET-CXA15			
C13333_MIF	RELLA-CL			
			36	
bridgelux.		-		
LED	V6 Gen6			
FWHM	31.0°			
Efficiency	74 %			
Peak intensity	2.100 cd/lm			
Required comp	oonents:			
C13709_PF-	SOCKET-VERO13-18			
C12479_MIF	RELLA-DL			
Bender Wirth	n: 460 Typ L1			
bridgelux.		-	90	
LED	V6 Gen6		75	
FWHM	39.0°			400
Efficiency	87 %		60.	
Peak intensity	1.500 cd/lm			
Required comp	oonents:		45'	
	SOCKET-CXA15			1200
			36'	1650 34°
			/	15° 0° 15°

PRODUCT DATASHEET



bridgelux.		
LED	V6 Gen6	
FWHM	27.0°	
Efficiency	82 %	
Peak intensity	2.690 cd/lm	
Required comp	onents:	
C13709_PF-	SOCKET-VERO13-18	
Bender Wirth	: 460 Typ L1	
bridgelux.		90 <sup>4</sup> 90 <sup>4</sup>
LED	V6 Gen6	77
FWHM	44.0°	
Efficiency	81 %	60 <sup>4</sup>
Peak intensity	1.250 cd/lm	
Required comp		5°* 6°
	SOCKET-CXA15	
C12479_MIF	ELLA-DL	
		200 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 -
bridgelux.		90°
LED	V8 Gen6	TE CONTRACTOR
FWHM	38.0°	
Efficiency	87 %	621 64
Peak intensity	1.600 cd/lm	
Required comp		a. di
C13761_PF-	SOCKET-CXA15	
		30" 20" 34" 34"
bridgelux.		80* 80*
LED	V8 Gen6	7:
FWHM	43.0°	
Efficiency	82 %	60°
Peak intensity	1.330 cd/lm	
Required comp	onents:	9 <sup>-</sup> 00 - 0 <sup>-</sup>
C13761_PF-	SOCKET-CXA15	
C12479_MIF	ELLA-DL	1200
		300
1		15° 0° 35°

PRODUCT DATASHEET



bridgetux. LED FWHM Efficiency Peak intensity Required comp C13761_PF- C13333_MIF	onents: SOCKET-CXA15	27 27 27 27 27 27 27 27 27 27
bridgelux. LED FWHM Efficiency Peak intensity Required comp C13709_PF- C12479_MIF Bender Wirth	onents: SOCKET-VERO13-18 ELLA-DL	
bridgelux. LED FWHM Efficiency Peak intensity Required comp C13708_PF- C12479_MIF	onents: SOCKET-VERO10	20, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1
bridgelux. LED FWHM Efficiency Peak intensity Required comp C13708_PF-		200 200 200 200 200 200 200 200

PRODUCT DATASHEET



bridgelux.		
LED	VERO10	
FWHM	44.0°	
Efficiency	80 %	
Peak intensity	1.300 cd/lm	
Required comp	onents:	
C13708_PF-	SOCKET-VERO10	
C13333_MIF	ELLA-CL	
bridgelux.	_	97 97
LED	VERO13	
FWHM	46.0°	
Efficiency	90 %	an an
Peak intensity	1.290 cd/lm	
Required comp	onents:	9 <sup>7</sup> 00
C13709_PF-	SOCKET-VERO13-18	
		120
		90°
bridgelux.	_	20° 0° 20°
LED	VERO13	
FWHM	51.0°	3.
Efficiency	77 %	90° 40°
Peak intensity		
Required comp		er et
	SOCKET-VERO13-18	
C13333_MIF		
		325 1 <u>956</u> 132 25
bridgelux.		<u>90*</u>
LED	VERO13	7:
FWHM	50.0°	
Efficiency	82 %	
Peak intensity		
Required comp		
	SOCKET-VERO13-18	
C12479_MIF	ELLA-DL	
		30° - 120 - 120 - 140
L		

PRODUCT DATASHEET



bridgelux.				90*	^	90*
LED	Xenio Point 13mm			75*	$\frown$	75*
FWHM	49.0°					$\langle \rangle$
Efficiency	81 %			60*	400	60*
Peak intensity	1.130 cd/lm			$ \times  / $		$\mathbf{X}$
Required comp	oonents:			43×		45*
C13709_PF-	SOCKET-VERO13-18				800	$\langle \rangle$
C13333_MIF	RELLA-CL			$\swarrow$ $\land$		$\geq$
				30° 15°	1200 0 <sup>9</sup>	12.
bridgelux.				90°	$\wedge$	90*
LED	Xenio Point 13mm			75.		25*
FWHM	48.0°					$\frown$
Efficiency	78 %			60°	400	60°
Peak intensity	1.050 cd/lm			$\sim$ //		$\setminus$ $\setminus$
Required comp				5°		\$2°
	SOCKET-VERO13-18				- 200	
C12479_MIF	RELLA-DL					
				30° 15°	0°	35°
bridgelux.				90¢	<u> </u>	90°
LED	Xenio Point 13mm			75*		- 37
FWHM	45.0°					$\sim$
Efficiency	85 %			60°		60°
Peak intensity	1.260 cd/lm					$\searrow$
Required comp			_	e	810	45*
C13709_PF-	SOCKET-VERO13-18					
					1200	
				30% 15%	00	15°
CITIZE	N					
LED	CLL01x					
FWHM	36.0°					
Efficiency	90 %					
Peak intensity	1.800 cd/lm					
Required comp						
C13083_PF-	SOCKET					

PRODUCT DATASHEET



CITIZE	EN	
LED	CLL01x	
FWHM	44.0°	
Efficiency	86 %	
Peak intensity	1.400 cd/lm	
Required com	ponents:	
C13083_PF	-SOCKET	
C12479_MI	RELLA-DL	
CITIZE	EN	
LED	CLL01x	
FWHM	42.0°	
Efficiency	86 %	
	1.400 cd/lm	
Required com		
C13083_PF		
C13333_MI		
CITIZE	EN	
LED	CLL02x/CLU02x (LES10)	
FWHM	46.0°	
Efficiency	86 %	
Peak intensity		
Required com		
C13083_PF		
C12479_MI		
• · _ · · •···		
CITIZE	EN	55*
LED	CLL02x/CLU02x (LES10)	73.
FWHM	36.0°	400
Efficiency	84 %	
-	1.700 cd/lm	
Required com		43* és
C13709_PF	-SOCKET-VERO13-18	
Bender Wirt	h: 434 Typ L1	
		ו

PRODUCT DATASHEET



#### PHOTOMETRIC DATA (MEASURED):

#### **CITIZEN** LED CLL02x/CLU02x (LES10) FWHM 46.0° Efficiency 86 % Peak intensity 1.500 cd/lm Required components: C13083 PF-SOCKET C13333\_MIRELLA-CL **CITIZEN** LED CLL02x/CLU02x (LES10) FWHM 41.0° 76 % Efficiency Peak intensity 1.300 cd/lm Required components: C13709\_PF-SOCKET-VERO13-18 C12479\_MIRELLA-DL Bender Wirth: 434 Typ L1 **CITIZEN** LED CLL02x/CLU02x (LES10) FWHM 39.0° Efficiency 78 % Peak intensity 1.500 cd/lm Required components: C13709 PF-SOCKET-VERO13-18 C13333 MIRELLA-CL Bender Wirth: 434 Typ L1 **CITIZEN** LED CLL02x/CLU02x (LES10) FWHM 41.0° 90 % Efficiency Peak intensity 1.800 cd/lm Required components:

C13083\_PF-SOCKET



CITIZE	N	CN13907_MIRELLA-50-0-BF-R2L_(CLL020)	
LED	CLL02x/CLU02x (LES10)		
FWHM	46.0°		
Efficiency	%		
Peak intensity	0.700 cd/lm		
Required com	ponents:		
C13083_PF	SOCKET		•
C13723_MIF	RELLA-RZL		
CITIZE	N		39 <sup>4</sup>
LED	CLU700/701		
FWHM	39.0°		
Efficiency	82 %		60 <sup>4</sup>
Peak intensity			
Required com			er*
C13083_PF			
C12479_MI			1220
			36° 35 6° 35
CITIZE	N		50° 50
LED	CLU700/701	1000	75:
FWHM	31.0°		400
Efficiency	77 %		
Peak intensity	1.800 cd/lm		
Required com	ponents:		451- 42
C13709_PF	-SOCKET-VERO13-18		
C12479_MIF	RELLA-DL		100
Bender Wirth	h: 434 Typ L1		36 <sup>4</sup>
CITIZE	N		90°90
LED	CLU700/701		73
FWHM	29.0°		
Efficiency	80 %		63-
Peak intensity	2.100 cd/lm		
Required comp	ponents:		9°
C13709_PF	-SOCKET-VERO13-18		1600
C13333_MIF	RELLA-CL		
Randar Wirth	h: 434 Typ L1		



CITIZE	L'N	59°
LED	CLU700/701	
FWHM	42.0°	
Efficiency	81 %	
Peak intensity	1.300 cd/lm	
Required com	ponents:	
C13083_PF	-SOCKET	
C13723_MI	RELLA-RZL	
		24" 22" et 22"
CITIZE	<sup>C</sup> N	21 <sup>4</sup>
LED	CLU700/701	
FWHM	33.0°	
Efficiency	88 %	80 80
Peak intensity	1.900 cd/lm	
Required com	ponents:	
C13083_PF	-SOCKET	
		20* 2000
CITIZE	:N	
LED	CLU700/701	
FWHM	26.0°	
Efficiency	83 %	
Peak intensity		
Required com		
	-SOCKET-VERO13-18	
	h: 434 Typ L1	
		30.
CITIZE	'N	
LED	CLU700/701	
FWHM	34.0°	
Efficiency Peak intensity	81 %	
Required com		
C13083_PF		
C13083_PF		
010000_1010		
		20 <sup>10</sup> 429 0 <sup>4</sup> 157 3



CITIZE	'N	90° 90
LED FWHM	CLU720/721 44.0°	781
Efficiency	44.0 74 %	60* 400 60
Peak intensity		
Required com		
	-SOCKET-VERO13-18	800
C12479_M		
	h: 433 Typ L1	
CITIZE	'N	255 <sup>-</sup> 1300 25*
		90
	CLU720/721	75
FWHM	40.0° 81 %	600 CO
Efficiency		
Peak intensity		er 000 es
Required com	-SOCKET-VERO13-18	
	h: 433 Typ L1	1230
	11. 455 Typ L1	$\times$ / $\checkmark$ $\lambda$
		36 <sup>4</sup> 35 <sup>4</sup> 36
CITIZE	EN	90* 90
LED	CLU720/721	73
FWHM	43.0°	
Efficiency	76 %	60°
Peak intensity	1.300 cd/lm	
Required com	ponents:	45 <sup>4</sup> 600
C13709_PF	-SOCKET-VERO13-18	
C13333_MI	RELLA-CL	
Bender Wirt	h: 433 Typ L1	300 30
CREE	TH	90 <sup>4</sup>
LED	CXA/B 13xx	75
FWHM	37.0°	400
Efficiency	86 %	
Peak intensity	1.800 cd/lm	
Required com		5° (
	-SOCKET-CXA15	
		152 00 152



#### CREE ≑ LED CXA/B 13xx FWHM 43.0° Efficiency 81 % Peak intensity 1.400 cd/lm Required components: C13761 PF-SOCKET-CXA15 C12479\_MIRELLA-DL CREE 🚖 LED CXA/B 13xx FWHM 42.0° 81 % Efficiency Peak intensity 1.500 cd/lm Required components: C13761\_PF-SOCKET-CXA15 C13333\_MIRELLA-CL CREE 🚖 LED CXA/B 15xx FWHM 47.0° Efficiency 85 % Peak intensity 1.200 cd/lm Required components: C13761 PF-SOCKET-CXA15 C12479\_MIRELLA-DL CREE 🚖 LED CXA/B 15xx FWHM 46.0° 85 % Efficiency Peak intensity 1.400 cd/lm Required components: C13761\_PF-SOCKET-CXA15 C13333\_MIRELLA-CL

PRODUCT DATASHEET



<b>CREE</b>			50* 90'
LED	CXA/B 15xx		75
FWHM	34.0°		400
Efficiency	82 %		60
Peak intensity	/ 1.800 cd/lm		
Required corr	nponents:		45* 42
C13709_PF	-SOCKET-VERO13-18		
Bender Wir	th: 441 Typ L1		1600
			30° 30
CREE			50° 50
LED	CXA/B 15xx		75
FWHM	37.0°		400
Efficiency	79 %		601 60
Peak intensity	/ 1.600 cd/lm		
Required com	ponents:		5° 6
C13709_PF	-SOCKET-VERO13-18		1200
C13333_MI	IRELLA-CL		
Bender Wir	th: 441 Typ L1		30° 15° 0° 15°
<b>CREE</b> ·			90° 90°
LED	CXA/B 15xx		75 75
FWHM	47.0°		
Efficiency	81 %		60 <sup>1</sup> 60
Peak intensity	/ 1.200 cd/lm		$ X /  X  \land X$
Required com	ponents:		5° 5
C13761_PF	-SOCKET-CXA15		
C13723_MI	IRELLA-RZL		
			36 <sup>6</sup> 1235 36 15 <sup>9</sup> 0 <sup>6</sup> 15 <sup>9</sup>
CREE			90 <sup>4</sup>
LED	CXA/B 15xx		20
FWHM	41.0°		
Efficiency	90 %		60. 00
Peak intensity	/ 1.400 cd/lm		
Required corr	ponents:		
C13761_PF	-SOCKET-CXA15		
			1200
			30"
			15° 0° 15°

PRODUCT DATASHEET



<b>CREE</b> -	▼n	90 <sup>4</sup> 90 <sup>4</sup>
LED	CXA/B 15xx	
FWHM	39.0°	400
Efficiency	75 %	66 <sup>5</sup>
Peak intensity	1.300 cd/lm	
Required com	ponents:	aa.
C13709_PF	-SOCKET-VERO13-18	
C12479_MI	RELLA-DL	1230
Bender Wirt	h: 441 Typ L1	30° 30° 30°
CREE -		80* B0*
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	75
FWHM	43.0°	
Efficiency	87 %	60* 60*
Peak intensity	1.370 cd/lm	
Required com	ponents:	
IDEAL: 50-2	2101CR + 50-2100MR	
		30° 0° 15°
CREE -	N.	90° 90°
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	75
FWHM	45.0°	
Efficiency	84 %	60, 60,
Peak intensity	1.300 cd/lm	
Required com	ponents:	er i i i i i i i i i i i i i i i i i i i
C14115_PF	-SOCKET-CXA15-18	
		1200
		30 <sup>4</sup> 15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>5</sup>
CREE -	v v	30*
LED	MHD-E/G	75.
FWHM	45.0°	
Efficiency	82 %	60* 60*
Peak intensity	1.100 cd/lm	$ X /  X  \land X$
Required com	ponents:	
C13083_PF	-SOCKET	
C13723_MI	RELLA-RZL	
		364 355



CREE C LED FWHM Efficiency Peak intensity Required com C13083_PF	MHD-E/G 38.0° 89 % 1.500 cd/lm ponents:		99 <sup>1</sup> 73 60 <sup>2</sup> 97 90 90 120 120	22° 25° 25° 25°
CREE C LED FWHM Efficiency Peak intensity Required com C13083_PF C13333_MIF	MHD-E/G 44.0° 84 % 1.300 cd/lm ponents: -SOCKET		50° 50° 50° 50° 50° 50° 50° 50° 50° 50°	52 62 62 62
CREE C LED FWHM Efficiency Peak intensity Required comp C13083_PF C12479_MIR	MHD-E/G 45.0° 84 % 1.200 cd/lm ponents: -SOCKET		99* 99 99 90 90 120 10	
CREE	MK-R 30.0° 85 % 2.100 cd/lm ponents:			22 99 99 99 97 97 97 97



CREE <del>{</del>	ты	-		90°
LED	MK-R			75*
FWHM	34.0°			400
Efficiency	80 %			60.5
Peak intensity	1.660 cd/lm			
Required com	oonents:			
C13083_PF	-SOCKET			1220
C12479_MI	RELLA-DL			
				30° 15° 0° 15°
CREE -	ты			
LED	MT-G			
FWHM	52.0°			
Efficiency	86 %			
Peak intensity	1.200 cd/lm			
Required com				
C13083_PF				
C12479_MI	RELLA-DL			
CREE -				
LED	MT-G			
FWHM	52.0°			
Efficiency	86 %			
Peak intensity				
Required com			_	
C13083_PF				
C13333_MI				
CREE -	ты			
LED	MT-G			
FWHM	48.0°			
Efficiency	90 %			
Peak intensity				
Required com				
C13083_PF				



	<b></b>		
CREE -	<b>T</b> M		
LED	MT-G2		
FWHM	50.0°		
Efficiency	87 %		
Peak intensity	/ 1.200 cd/lm		
Required com	ponents:		
C13083_PF	-SOCKET		
C13333_MI	RELLA-CL		
CREE			
LED	MT-G2		
FWHM	46.0°		
Efficiency	91 %		
	/ 0.800 cd/lm		
Required com			
C13083_PF			
CREE			-
LED	MT-G2		
FWHM	51.0° 87 %		
Efficiency Rock intensity			
Required com	/ 1.200 cd/lm		
C13083_PF			
C13085_FT C12479_MI			
012473_0			
CREE -	<b>1</b> 11		50 <sup>0</sup>
LED	XHP50		
FWHM	38.0°		
Efficiency	80 %		69*
Peak intensity	/ 1.300 cd/lm	and the second se	
Required com	ponents:		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
C13083_PF	-SOCKET		
C13723_MI	RELLA-RZL		1270
			304
			15° 0° 15°

PRODUCT DATASHEET



<b>CREE</b> -	'n		90*
LED	XHP50	and the second se	75
FWHM	39.0°		400
Efficiency	81 %		60 <sup>1</sup>
Peak intensity	1.500 cd/lm		
Required com	oonents:		e*
C13083_PF	-SOCKET		1200
C13333_MI	RELLA-CL		
			30° 36 <sup>°</sup> 16 <sup>°</sup> 35°
CREE -	TM		90*
LED	XHP50		77
FWHM	39.0°		40
Efficiency	82 %		
Peak intensity			
Required com			
C13083_PF			
C12479_MI	RELLA-DL		1220
			34" 37" 5" 37"
CREE -	'n		50°
LED	XHP50		75
FWHM	33.0°		400 -
Efficiency	87 %		60*
Peak intensity	1.800 cd/lm		
Required com	ponents:		¢. 1200
C13083_PF	-SOCKET		
			1632
			30* 35* 35*
<b>CREE</b>	M		90 <sup>,</sup>
LED	XHP70		73
FWHM	42.0°		
Efficiency	81 %		60°
Peak intensity	1.300 cd/lm		
Required com	ponents:		
C13083_PF			
C13333_MI			1200
			30.
			15° 0° 35°



CREE C LED FWHM Efficiency Peak intensity Required comp C13083_PF- C12479_MIF	XHP70 43.0° 81 % 1.300 cd/lm ponents: SOCKET		20 20 20 20 20 20 20 20 20 20
CREE C LED FWHM Efficiency Peak intensity Required comp C13083_PF-	XHP70 39.0° 86 % 1.500 cd/lm ponents:		
CREE C LED FWHM Efficiency Peak intensity Required comp C13083_PF- C13723_MIF	XHP70 44.0° 79 % 1.200 cd/lm ponents: SOCKET		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
CREE C LED FWHM Efficiency Peak intensity Required comp C13083_PF- C13723_MIF	XM-L RGB 41.0° 80 % 1.300 cd/lm ponents: SOCKET		1 15% of 15%



CREE -	T M				
LED	XQ-E HI RGBW				
FWHM	42.0°				
Efficiency	87 %				
Peak intensity	1.380 cd/lm				
Required com	ponents:				
C13083_PF	-SOCKET				
C13723_MI	RELLA-RZL				
🕑 LG Inno	tek		_		
LED	COB 4W				
FWHM	38.0°				
Efficiency	89 %				
Peak intensity	1.700 cd/lm				
Required com	ponents:				
C13083_PF	-SOCKET				
		_			
LED	COB 4W				
LED FWHM	COB 4W 44.0°				
LED FWHM Efficiency	COB 4W 44.0° 83 %				
LED FWHM Efficiency Peak intensity	COB 4W 44.0° 83 % 1.400 cd/lm				
LED FWHM Efficiency Peak intensity Required com	COB 4W 44.0° 83 % 1.400 cd/lm ponents:				
LED FWHM Efficiency Peak intensity Required com C13083_PF	COB 4W 44.0° 83 % 1.400 cd/lm ponents: -SOCKET				
LED FWHM Efficiency Peak intensity Required com	COB 4W 44.0° 83 % 1.400 cd/lm ponents: -SOCKET				
LED FWHM Efficiency Peak intensity Required com C13083_PF	COB 4W 44.0° 83 % 1.400 cd/lm ponents: -SOCKET RELLA-DL				
LED FWHM Efficiency Peak intensity Required com C13083_PF C12479_MI	COB 4W 44.0° 83 % 1.400 cd/lm ponents: -SOCKET RELLA-DL tek COB 4W				
LED FWHM Efficiency Peak intensity Required com C13083_PF C12479_MI	COB 4W 44.0° 83 % 1.400 cd/lm ponents: -SOCKET RELLA-DL tek COB 4W 40.0°				
LED FWHM Efficiency Peak intensity Required com C13083_PF C12479_MI	COB 4W 44.0° 83 % 1.400 cd/lm ponents: -SOCKET RELLA-DL <b>tek</b> COB 4W 40.0° 83 %				
LED FWHM Efficiency Peak intensity Required com C13083_PF C12479_MI	COB 4W 44.0° 83 % 1.400 cd/lm ponents: -SOCKET RELLA-DL <b>tek</b> COB 4W 40.0° 83 % 1.600 cd/lm				
LED FWHM Efficiency Peak intensity Required com C13083_PF C12479_MI	COB 4W 44.0° 83 % 1.400 cd/lm ponents: -SOCKET RELLA-DL <b>tek</b> COB 4W 40.0° 83 % 1.600 cd/lm ponents:				
LED FWHM Efficiency Peak intensity Required com C13083_PF C12479_MI	COB 4W 44.0° 83 % 1.400 cd/lm ponents: -SOCKET RELLA-DL <b>tek</b> COB 4W 40.0° 83 % 1.600 cd/lm ponents: -SOCKET				

PRODUCT DATASHEET



PLUMILEDS   LED LUXEON CoB 1202/1203   FWHM 39.0°   Efficiency 80 %   Peak intensity 1.500 col/m   Required components: 0.1000 col/m   C13333_MIRELLA-CL IDEAL: 50-2100MR   IDEAL: 50-2100MC +50-2100MR Image: colored bit of the state of the stat			
FWHM 39.0° Efficiency 80 % Peak intensity 1.500 cd/lm Required components: C13333_MIRELLA-CL IDEAL: 50-2100NC +50-2100MR CLUMILEDS LED LUXEON CoB 1202/1203 FWHM 40.0° Efficiency 75 % Peak intensity 1.300 cd/lm Required components: IDEAL: 50-2100NC +50-2100MR CLUMILEDS LED LUXEON CoB 1202/1203 FWHM 37.0° Efficiency 87 % Peak intensity 1.700 cd/lm Required components: IDEAL: 50-2100NC +50-2100MR	UMIL	EDS	50°
Efficiency 80 % Peak intensity 1.500 cd/lm Required components: C13733 MIRELLA-DL Bender Wirht: 438 Typ L1 CLUNILEDS LED LUXEON CoB 1202/1203 FWHM 40.0° Efficiency 75 % Peak intensity 1.300 cd/lm Required components: IDEAL: 50-2100NC +50-2100MR CUMILEDS LED LUXEON CoB 1202/1203 FWHM 37.0° Efficiency 87 % Peak intensity 1.700 cd/lm Required components: IDEAL: 50-2100NC +50-2100MR CUMILEDS LED LUXEON CoB 1202/1203 FWHM 33.0° Efficiency 87 % Peak intensity 1.700 cd/lm Required components: IDEAL: 50-2100NC +50-2100MR	LED	LUXEON CoB 1202/1203	75
Peak intensity 1.500 cd/lm Required components: C13333_MIRELLA-CL IDEAL: 50-2100NC +50-2100MR	FWHM	39.0°	40
Required components: C13333_MIRELLA-CL IDEAL: 50-2100NC +50-2100MR	Efficiency	80 %	60°
C13333_MIRELA-CL IDEAL: 50-2100NC +50-2100MR	Peak intensity	1.500 cd/lm	
IDEAL: 50-2100NC +50-2100MR			er er
Image: Contract of the second seco			1220
LED LUXEON CoB 1202/1203 FWHM 40.0° Efficiency 75 % Peak intensity 1.300 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL Bender Wirth: 438 Typ L1 CLUMILEDS LED LUXEON CoB 1202/1203 FWHM 37.0° Efficiency 87 % Peak intensity 1.700 cd/lm Required components: IDEAL: 50-2100MR CUMILEDS LED LUXEON CoB 1202/1203 FWHM 39.0° Efficiency 86 % Peak intensity 1.600 cd/lm Required components:	IDEAL: 50-2	100NC +50-2100MR	
LED LUXEON CoB 1202/1203 FWHM 40.0° Efficiency 75 % Peak intensity 1.300 cd/m Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL Bender Wirth: 438 Typ L1 CLUMILEDS LED LUXEON CoB 1202/1203 FWHM 37.0° Efficiency 87 % Peak intensity 1.700 cd/m Required components: IDEAL: 50-2100MR CUMILEDS LED LUXEON CoB 1202/1203 FWHM 39.0° Efficiency 86 % Peak intensity 1.600 cd/m Required components:			30" 30" 30"
FWHM 40.0° Efficiency 75 % Peak intensity 1.300 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL Bender Wirth: 438 Typ L1 CLUMILEDS LED LUXEON CoB 1202/1203 FWHM 37.0° Efficiency 87 % Peak intensity 1.700 cd/lm Required components: IDEAL: 50-2100NC +50-2100MR CLUMILEDS LED LUXEON CoB 1202/1203 FWHM 39.0° Efficiency 86 % Peak intensity 1.600 cd/lm Required components: WHM 39.0°	UMIL	EDS	90 <sup>4</sup>
Efficiency 75 % Peak intensity 1.300 cd/lm Required components: C13709_PF-SOCKET-VER013-18 C12479_MIRELLA-DL Bender Wirth: 438 Typ L1 CLUXEON CoB 1202/1203 FWHM 37.0° Efficiency 87 % Peak intensity 1.700 cd/lm Required components: IDEAL: 50-2100NC +50-2100MR CLUXEON CoB 1202/1203 FWHM 39.0° Efficiency 86 % Peak intensity 1.600 cd/lm Required components:	LED	LUXEON CoB 1202/1203	27
Peak intensity 1.300 cd/lm Required components: C13709_PF-SOCKET-VER013-18 C12479_MIRELLA-DL Bender Wirth: 438 Typ L1 CLUMILEDS LED LUXEON CoB 1202/1203 FWHM 37.0° Efficiency 87 % Peak intensity 1.700 cd/lm Required components: IDEAL: 50-2100NC +50-2100MR CLUMILEDS LED LUXEON CoB 1202/1203 FWHM 39.0° Efficiency 86 % Peak intensity 1.600 cd/lm Required components:	FWHM	40.0°	
Required components: C13709_PF-SOCKET-VERO13-18   C12479_MIRELLA-DL Bender Wirth: 438 Typ L1   Image: Component State Sta			60°
C13709_PF-SOCKET-VER013-18 C12479_MIRELLA-DL Bender Wirth: 438 Typ L1 CLUMILEDS LED LUXEON CoB 1202/1203 FWHM 37.0° Efficiency 87 % Peak intensity 1.700 cd/lm Required components: IDEAL: 50-2100NC +50-2100MR CUMILEDS LED LUXEON CoB 1202/1203 FWHM 39.0° Efficiency 86 % Peak intensity 1.600 cd/lm Required components:			
C12479_MIRELLA-DL Bender Wirth: 438 Typ L1			et
Bender Wirth: 438 Typ L1			
Image: Constrained of the second s			1220
LED LUXEON CoB 1202/1203 FWHM 37.0° Efficiency 87 % Peak intensity 1.700 cd/lm Required components: IDEAL: 50-2100NC +50-2100MR LED LUXEON CoB 1202/1203 FWHM 39.0° Efficiency 86 % Peak intensity 1.600 cd/lm Required components:	Bender Wirth	i: 438 Typ L1	30° 30° 30°
FWHM 37.0°   Efficiency 87 %   Peak intensity 1.700 cd/lm   Required components: IDEAL: 50-2100NC +50-2100MR   IED LUXEON CoB 1202/1203   FWHM 39.0°   Efficiency 86 %   Peak intensity 1.600 cd/lm   Required components: Image: Components:	UMIL	EDS	59* 59*
Efficiency 87 % Peak intensity 1.700 cd/lm Required components: IDEAL: 50-2100NC +50-2100MR	LED	LUXEON CoB 1202/1203	75
Peak intensity 1.700 cd/lm Required components: IDEAL: 50-2100NC +50-2100MR	FWHM	37.0°	
Required components: IDEAL: 50-2100NC +50-2100MR	Efficiency	87 %	005 OC
IDEAL: 50-2100NC +50-2100MR	Peak intensity	1.700 cd/lm	
Image: Second system Image: Second system   Image: Second	Required comp	oonents:	er er
LED LUXEON CoB 1202/1203 FWHM 39.0° Efficiency 86 % Peak intensity 1.600 cd/lm Required components:	IDEAL: 50-2	100NC +50-2100MR	
LED LUXEON CoB 1202/1203 FWHM 39.0° Efficiency 86 % Peak intensity 1.600 cd/lm Required components:			150
LED LUXEON CoB 1202/1203 FWHM 39.0° Efficiency 86 % Peak intensity 1.600 cd/lm Required components:			30° 13° 0° 13°
FWHM 39.0° Efficiency 86 % Peak intensity 1.600 cd/lm Required components:		EDS	90 <sup>4</sup>
Efficiency 86 % Peak intensity 1.600 cd/lm Required components:	LED	LUXEON CoB 1202/1203	R <sup>1</sup>
Peak intensity 1.600 cd/lm Required components:	FWHM	39.0°	400-
Required components:			60* 60*
C14037_PF-NSX-SOCKET			
20 23 00 23 00 30 X	C14037_PF-	NSX-SOCKET	- 129
20 <sup>10</sup> 20 <sup>10</sup> 20 <sup>10</sup> 20 <sup>10</sup>			
			30 <sup>4</sup> 31 <sup>4</sup>



UMIL	EDS	90 <sup>+</sup>
LED	LUXEON CoB 1202/1203	25
FWHM	35.0°	
Efficiency	83 %	60 <sup>4</sup> 60
Peak intensity	1.700 cd/lm	
Required comp	oonents:	
C13709_PF-	SOCKET-VERO13-18	1220
Bender Wirth	n: 438 Typ L1	100
		30 <sup>0</sup> 137 0° 157 38
	EDS	90 <sup>9</sup> 90
LED	LUXEON CoB 1202/1203	75
FWHM	37.0°	
Efficiency	77 %	90* O
Peak intensity	1.500 cd/lm	
Required comp	oonents:	<i>y</i> , a
C13709_PF-	SOCKET-VERO13-18	12%
C13333_MIF	RELLA-CL	
Bender Wirth	n: 438 Typ L1	20 <sup>4</sup> 200 32 137 0 <sup>4</sup> 157
UMIL	EDS	90
LED	LUXEON CoB 1202/1203	75
FWHM	41.0°	
Efficiency	81 %	60°-
Peak intensity	1.400 cd/lm	
Required comp	oonents:	er
C12479_MIF	RELLA-DL	
IDEAL: 50-2	100NC +50-2100MR	- 1220
		90 <sup>4</sup> 137 0 <sup>4</sup> 157 35
UMIL	EDS	90 <sup>5</sup>
LED	LUXEON CoB 1202s	
FWHM	25.0°	
Efficiency	85 %	
Peak intensity	2.600 cd/lm	
Required comp		29 <sup>27</sup> 1500
C13709_PF-	SOCKET-VERO13-18	
Bender Wirth	n: 452 Typ L1	200
		305
		107 0" 35"



#### **LUMILEDS** LED LUXEON CoB 1202s FWHM 41.0° Efficiency 82 % Peak intensity 1.500 cd/lm Required components: C13761 PF-SOCKET-CXA15 C13333\_MIRELLA-CL LUMILEDS LED LUXEON CoB 1202s FWHM 28.0° 81 % Efficiency Peak intensity 2.200 cd/lm Required components: C13709\_PF-SOCKET-VERO13-18 C13333\_MIRELLA-CL Bender Wirth: 452 Typ L1 LED LUXEON CoB 1202s FWHM 32.0° Efficiency 77 % Peak intensity 1.600 cd/lm Required components: C13709 PF-SOCKET-VERO13-18 C12479 MIRELLA-DL Bender Wirth: 452 Typ L1 LUMILEDS LED LUXEON CoB 1202s FWHM 35.0° 88 % Efficiency Peak intensity 1.900 cd/lm Required components: C13761\_PF-SOCKET-CXA15

PRODUCT

DATASHEET



	FDS	
LED	LUXEON CoB 1202s	
FWHM	40.0°	
Efficiency	82 %	
Peak intensity		
Required com		
	-SOCKET-CXA15	•
C12479_MI		
	.EDS	50 <sup>4</sup>
LED	LUXEON Z RGB	75
FWHM	36.0°	400
Efficiency	79 %	50°
Peak intensity	1.500 cd/lm	
Required com	ponents:	a.
C13083_PF	-SOCKET	1200
C13723_MII	RELLA-RZL	
		30° 150 36° 36°
C LUM	INUS	50 <sup>+</sup>
LED	CXM-6	75
FWHM	36.0°	- 400
Efficiency	85 %	60* 60*
Peak intensity	1.800 cd/lm	
Required com	ponents:	5 <sup>97</sup> 520
C13083_PF	-SOCKET	
		6031
		30*
( LUM	INUS	30'
LED	CXM-7	20
FWHM	38.0°	400
Efficiency	86 %	60 <sup>-</sup>
Peak intensity	1.600 cd/lm	
Required com	ponents:	97
C13083_PF	-SOCKET	
		-10C
		15° 0° 15°

PRODUCT DATASHEET