# imall

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!



## Contact us

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### MIRELLA-50-M-PF

~30° medium 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 🛈

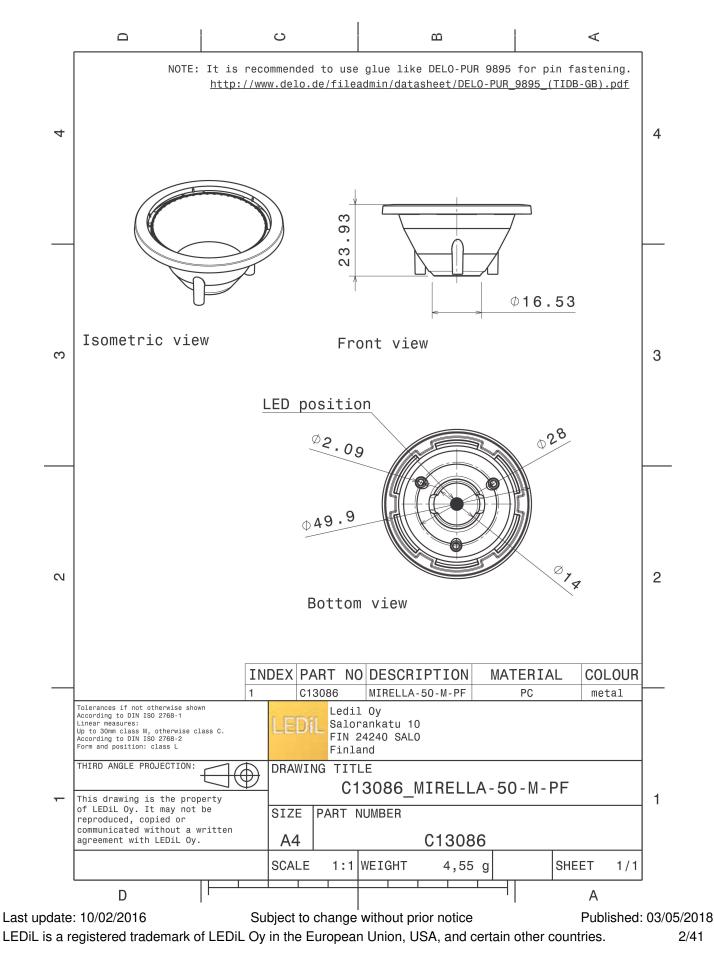


PRODUCT DATASHEET C13086\_MIRELLA-50-M-PF

#### MATERIAL SPECIFICATIONS:

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







-		
C12479_MIF	oonents: SOCKET-VERO13-18	
bridgelux. LED FWHM Efficiency Peak intensity Required comp C13761_PF- C12479_MIF	oonents: SOCKET-CXA15	
bridgelux. LED FWHM Efficiency Peak intensity Required comp C13761_PF-		

PRODUCT DATASHEET

C13086\_MIRELLA-50-M-PF



bridgelux.			50° 50°
LED	V6 Gen6		73*
FWHM	25.0°		
Efficiency	82 %		60* 60*
Peak intensity	2.300 cd/lm		
Required comp	onents:		43°
C13761_PF-	SOCKET-CXA15		
C13333_MIF	RELLA-CL		
			30° 30° 30°
bridgelux.			90° 90°
LED	V8 Gen6		75
FWHM	28.0°		
Efficiency	83 %		60* · · · · · · · · · · · · · · · · · · ·
Peak intensity			
Required comp			9°'
	SOCKET-CXA15		1600
C12479_MIF	RELLA-DL		
			30" 325 0" 35" 36"
bridgelux.			
LED	V8 Gen6		
FWHM	26.0°		
Efficiency	71 %		
Peak intensity	2.600 cd/lm		
Required comp	onents:		
C13709_PF-	SOCKET-VERO13-18		-
C12479_MIF	RELLA-DL		
Bender Wirth	: 460 Typ L1		
bridgelux.		and the second se	90° 90°
LED	VERO10		75'
FWHM	32.0°		400
Efficiency	80 %		
Peak intensity	1.800 cd/lm		
Required comp	onents:		95°
C13708_PF-	SOCKET-VERO10		
C12479_MIF	RELLA-DL		2000
			30* 30*
			15° 0° 15°

PRODUCT DATASHEET

C13086\_MIRELLA-50-M-PF



bridgetux LED FWHM Efficiency Peak intensity Required comp C13708_PF-3		34 35 960 70 A dat dat 35 25 25 25 25 25 25 25 25 25 25 25 25 25
bridgelux.		
LED FWHM Efficiency Peak intensity Required comp	onents: SOCKET-VERO10	
bridgelux. LED FWHM Efficiency Peak intensity Required comp C13709_PF-3 C13333_MIR	onents: SOCKET-VERO13-18	34. 34. 35. 36. 36. 36. 36. 37. 30. 37. 30. 37. 37. 37. 37. 37. 37. 37. 37
bridgetux. LED FWHM Efficiency Peak intensity Required comp C13709_PF-3		127 0° 137 194 194 195 196 197 197 197 197 197 197 197 197



bridgelux.		80 <sup>4</sup>
LED	VERO13	75
FWHM	38.0°	400
Efficiency	82 %	60°
Peak intensity	1.500 cd/lm	
Required comp	onents:	a, a.
C13709_PF-	SOCKET-VERO13-18	1200
C12479_MIF	ELLA-DL	
		30° 32° 35° 32°
bridgelux.		90°
LED	Xenio Point 13mm	75
FWHM	36.0°	400
Efficiency	80 %	64
Peak intensity	1.590 cd/lm	
Required comp	onents:	gri dat
C13709_PF-	SOCKET-VERO13-18	
C13333_MIF	ELLA-CL	
		36* 25* 0* 25* 30*
bridgelux.		80 <sup>4</sup>
LED	Xenio Point 13mm	750 270
FWHM	34.0°	400
Efficiency	84 %	
Peak intensity	1.760 cd/lm	
Required comp		67° 62°
C13709_PF-	SOCKET-VERO13-18	
		100
		304 255 04 257 364
bridgelux.		99*
LED	Xenio Point 13mm	75
FWHM	39.0°	600
Efficiency	78 %	60 <sup>1</sup>
Peak intensity	1.360 cd/lm	
Required comp		4°
C13709_PF-	SOCKET-VERO13-18	
C12479_MIF	ELLA-DL	- 1220
		300
1		

PRODUCT DATASHEET

C13086\_MIRELLA-50-M-PF



OTTTT	NT	
CITIZE	N	
LED	CLL01x	
FWHM	24.0°	
Efficiency	86 %	
Peak intensity	2.600 cd/lm	
Required comp	onents:	
C13083_PF-		
C13333_MIR	ELLA-CL	
CITIZE	N	
LED	CLL01x	
FWHM	28.0°	
Efficiency	86 %	
Peak intensity	2.300 cd/lm	
Required comp	onents:	
C13083_PF-	SOCKET	
C12479_MIR	ELLA-DL	
CITIZE	N	
LED	CLL01x	
FWHM	20.0°	
Efficiency	90 %	
Peak intensity	3.100 cd/lm	
Required comp	onents:	
C13083_PF-	SOCKET	
CITIZE	N	
LED	CLL02x/CLU02x (LES10)	
FWHM	31.0°	
Efficiency	87 %	
Peak intensity		
Required comp		
C13083_PF-	SOCKET	
C12479_MIR	ELLA-DL	

PRODUCT DATASHEET C13086\_MIRELLA-50-M-PF

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CITIZE	EN	
LED	CLL02x/CLU02x (LES10)	77
FWHM	26.0°	
Efficiency	84 %	
Peak intensity	2.500 cd/lm	
Required com	ponents:	9° - 100
C13709_PF	-SOCKET-VERO13-18	
Bender Wirt	th: 434 Typ L1	200
CITIZE	EN	
LED	CLL02x/CLU02x (LES10)	
FWHM	26.0°	
Efficiency	91 %	
Peak intensity	/ 3.000 cd/lm	
Required com	iponents:	
C13083_PF	-SOCKET	
C13083_PF	EN	50 <sup>4</sup>
C13083_PF	EN CLL02x/CLU02x (LES10)	90 <sup>4</sup> 79 79
C13083_PF CITIZE LED FWHM	<b>EN</b> CLL02x/CLU02x (LES10) 33.0°	92 <sup>3</sup> 92 60 <sup>4</sup>
C13083_PF CITIZE LED FWHM Efficiency	CLL02x/CLU02x (LES10) 33.0° 76 %	90 <sup>4</sup> 97 97 40 96 90
C13083_PF CITIZE LED FWHM Efficiency Peak intensity	CLL02x/CLU02x (LES10) 33.0° 76 % 71.600 cd/lm	25- 25- 26- 25- 26- 20- 20- 20- 20- 20- 20- 20- 20- 20- 20
C13083_PF CITIZE LED FWHM Efficiency Peak intensity Required com	CLL02x/CLU02x (LES10) 33.0° 76 % 71.600 cd/lm	
C13083_PF CITIZE LED FWHM Efficiency Peak intensity Required com	CLL02x/CLU02x (LES10) 33.0° 76 % 71.600 cd/lm aponents: E-SOCKET-VERO13-18	25 26 06 06 06 06 06 06 06 06 06 0
C13083_PF CITIZE LED FWHM Efficiency Peak intensity Required com C13709_PF C12479_MI	CLL02x/CLU02x (LES10) 33.0° 76 % 71.600 cd/lm aponents: E-SOCKET-VERO13-18	
C13083_PF CITIZE LED FWHM Efficiency Peak intensity Required com C13709_PF C12479_MI	CLL02x/CLU02x (LES10) 33.0° 76 % 71.600 cd/lm aponents: E-SOCKET-VERO13-18 RELLA-DL th: 434 Typ L1	
C13083_PF CITIZE LED FWHM Efficiency Peak intensity Required com C13709_PF C12479_MI Bender Wirt	CLL02x/CLU02x (LES10) 33.0° 76 % 71.600 cd/lm aponents: E-SOCKET-VERO13-18 RELLA-DL th: 434 Typ L1	
C13083_PF CITIZE LED FWHM Efficiency Peak intensity Required com C13709_PF C12479_MI Bender Wirt CITIZE LED	CLL02x/CLU02x (LES10) 33.0° 76 % 76 %	
C13083_PF CITIZE LED FWHM Efficiency Peak intensity Required com C13709_PF C12479_MI Bender Wirt CITIZE LED FWHM Efficiency	CLL02x/CLU02x (LES10) 33.0° 76 % 76 % 76 % 76 00 cd/lm ponents: E-SOCKET-VERO13-18 RELLA-DL th: 434 Typ L1 CLL02x/CLU02x (LES10) 30.0° 87 %	
C13083_PF CITIZE LED FWHM Efficiency Peak intensity Required com C13709_PF C12479_MI Bender Wirt CITIZE LED FWHM Efficiency Peak intensity	CLL02x/CLU02x (LES10) 33.0° 76 % 76 %	
C13083_PF CITIZE LED FWHM Efficiency Peak intensity Required com C13709_PF C12479_MI Bender Wirt CITIZE LED FWHM Efficiency Peak intensity Required com	CLL02x/CLU02x (LES10) 33.0° 76 % 76 % 70 %	
C13083_PF CITIZE LED FWHM Efficiency Peak intensity Required com C13709_PF C12479_MI Bender Wirt CITIZE LED FWHM Efficiency	CLL02x/CLU02x (LES10) 33.0° 76 % 76 % 71.600 cd/lm aponents: E-SOCKET-VERO13-18 RELLA-DL th: 434 Typ L1 CLL02x/CLU02x (LES10) 30.0° 87 % 72.500 cd/lm aponents: E-SOCKET	



	Ν	
LED	CLL02x/CLU02x (LES10)	
FWHM	36.0°	
Efficiency	%	
Peak intensity	1.000 cd/lm	
Required comp	ponents:	
C13083_PF-	SOCKET	-
C13723_MIF	RELLA-RZL	
CITIZE	N	30 <sup>4</sup>
LED	CLL02x/CLU02x (LES10)	
FWHM	28.0°	$\square \land \square \land \urcorner$
Efficiency	79 %	605 60
Peak intensity	2.100 cd/lm	
Required comp		
	SOCKET-VERO13-18	1600
C13333_MIF	RELLA-CL	
Bender Wirth	n: 434 Typ L1	30° 15° 0° 15° 30
CITIZE	Ν	50°
LED	CLU700/701	75
FWHM	21.0°	
Efficiency	82 %	60 <sup>6</sup> 60
Peak intensity	3.200 cd/lm	1690
Required comp	ponents:	g. t
C13083_PF-	SOCKET	
C13333_MIF	RELLA-CL	
		36* 25* 0* 15*
CITIZE	Ν	50° X
LED	CLU700/701	
FWHM	24.0°	
Efficiency	81 %	60 <sup>3</sup> 60
Peak intensity	2.500 cd/lm	
Required comp	ponents:	چې 1630 د
C13083_PF-	SOCKET	$\sim$ KZ / $\sim$ A
C12479_MIF	RELLA-DL	
		30° 2130



CITIZE	N	90* 90*
LED	CLU700/701	75"
FWHM	32.0°	400
Efficiency	81 %	605 60*
Peak intensity	1.700 cd/lm	
Required com	ponents:	gr at
C13083_PF	SOCKET	
C13723_MI	RELLA-RZL	1000
		30° 0° 15° 30°
CITIZE	IN IN	50*
LED	CLU700/701	75
FWHM	19.0°	
Efficiency	78 %	664 664
Peak intensity	4.800 cd/lm	
Required com	ponents:	53°
C13709_PF	-SOCKET-VERO13-18	
C13333_MI		300
Bender Wirt	h: 434 Typ L1	30° 15° 0° 15°
CITIZE	IN IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	30* 30*
LED	CLU700/701	
FWHM	18.0°	
Efficiency	82 %	69*
Peak intensity	4.000 cd/lm	
Required com	ponents:	97 2000 45°
C13709_PF	-SOCKET-VERO13-18	320
Bender Wirt	h: 434 Typ L1	$\times$ / $\setminus$ $\times$
		30° 30° 30°
CITIZE		90 <sup>+</sup>
LED	CLU700/701	75
FWHM	19.0°	
Efficiency	87 %	60 <sup>1</sup>
Peak intensity	3.900 cd/lm	
Required com	ponents:	₹ <sup>4</sup> 2000 ₹
C13083_PF	SOCKET	
1		3200
		30* 630 34



CITIZI	EN	80°
LED	CLU700/701	78
FWHM	23.0°	
Efficiency	77 %	601 60
Peak intensit	y 2.500 cd/lm	
Required con		47 <sup>2</sup>
C13709_PI	F-SOCKET-VERO13-18	
C12479_M	IIRELLA-DL	
Bender Wir	rth: 434 Typ L1	30 <sup>4</sup> 25 <sup>5</sup> 0 <sup>6</sup> 15 <sup>5</sup>
CITIZI	EN	90 <sup>4</sup>
LED	CLU720/721	
FWHM	36.0°	
Efficiency	73 %	60°
Peak intensity	y 1.400 cd/lm	
Required con	-	er e
C13709_PI	F-SOCKET-VERO13-18	
C12479_M	IIRELLA-DL	1220
Bender Wir	rth: 433 Typ L1	30° 55° 0° 55°
CITIZI	EN	90 <sup>4</sup>
LED	CLU720/721	78
FWHM	31.0°	400
Efficiency	76 %	
Peak intensit	y 1.800 cd/lm	
Required con	nponents:	97* et 1230
C13709_PI	F-SOCKET-VERO13-18	
C13333_M	IIRELLA-CL	
Bender Wir	rth: 433 Typ L1	30 <sup>6</sup> 13 <sup>9</sup> 19 <sup>6</sup> 15 <sup>9</sup> 30
CITIZI	EN	90°
LED	CLU720/721	73.
FWHM	29.0°	
Efficiency	80 %	60 <sup>-</sup>
Peak intensit	y 2.000 cd/lm	
Required con	nponents:	
C13709_PI	F-SOCKET-VERO13-18	100
Bender Wir	rth: 433 Typ L1	
		15° 0° 15° °



CREE -	т		90° 90°
LED	CXA/B 13xx		75*
FWHM	26.0°		
Efficiency	80 %		69* 60*
Peak intensity	2.400 cd/lm		
Required comp	oonents:		a
C13761_PF-	SOCKET-CXA15		1630
C12479_MIF	RELLA-DL		
			30" 30
CREE <del>(</del>	rs.		50° 50'
LED	CXA/B 13xx		75
FWHM	20.0°		
Efficiency	85 %		60* 60
Peak intensity	3.700 cd/lm		1633
Required comp	oonents:		gr* is
C13761_PF-	SOCKET-CXA15		 2100
			30° 30' 30'
CREE -	- M		
LED	CXA/B 13xx		
FWHM	23.0°		
Efficiency	81 %		
Peak intensity	2.900 cd/lm		
Required comp	oonents:		
C13761_PF-	SOCKET-CXA15		
C13333_MIF	RELLA-CL		
CREE -			90 <sup>4</sup> 99
LED	CXA/B 15xx		75'
FWHM	30.0°		
Efficiency	83 %		
Peak intensity			
Required comp			×
	SOCKET-CXA15		
C13333_MIF	RELLA-CL		
			30 <sup>6</sup> 200 30



<b>CREE</b> -			90*
LED	CXA/B 15xx		25
FWHM	26.0°		
Efficiency	78 %		
Peak intensity	2.300 cd/lm		
Required com	ponents:		
C13709_PF	-SOCKET-VERO13-18		
C13333_MI	RELLA-CL		$\times$ / $\setminus$ / $\times$
Bender Wirt	h: 441 Typ L1		30° 3430 3
CREE -			90* 5
LED	CXA/B 15xx		75
FWHM	38.0°		400
Efficiency	81 %		50*
Peak intensity	1.500 cd/lm		80
Required com	ponents:		a
C13761_PF	-SOCKET-CXA15		1230
C13723_MI	RELLA-RZL		$\times$ / $\setminus$ / $\times$
			36* 160 2
CREE -	n l		90*
LED	CXA/B 15xx		
FWHM	24.0°		
Efficiency	83 %		50°
Peak intensity	2.660 cd/lm		
Required com	ponents:		5°* 100 1
C13709_PF	-SOCKET-VERO13-18		
Bender Wirt	h: 441 Typ L1		200
			30 <sup>0</sup> 12 <sup>3</sup> 0 <sup>4</sup> 32 <sup>3</sup> 2
CREE -	<b>1</b> 11	_	90* S
LED	CXA/B 15xx		
FWHM	31.0°		
Efficiency	75 %		
Peak intensity	1.700 cd/lm		
Required com	ponents:		
C13709_PF	-SOCKET-VERO13-18		
C12479_MI	RELLA-DL		1600
Bender Wirt	h: 441 Typ L1		
			15° 0° 15°



#### PHOTOMETRIC DATA (MEASURED):

CREE <del>4</del>		50° 50°
LED	CXA/B 15xx	75
FWHM	32.0°	
Efficiency	86 %	50 <sup>12</sup> 500 - 50 <sup>10</sup>
Peak intensity		
Required comp		9 <sup>7</sup> 1200 4 <sup>6</sup> *
	SOCKET-CXA15	1500
C12479_MIF	RELLA-DL	
		364
CREE <del>4</del>	The second se	50 <sup>14</sup> 50 <sup>14</sup>
LED	CXA/B 15xx	75.
FWHM	27.0°	
Efficiency	91 %	60× 60×
Peak intensity	2.600 cd/lm	
Required comp		5°* 63*
C13761_PF-	SOCKET-CXA15	
		260
		34" 34"
CREE 4		99 <sup>4</sup> 9 <sup>5</sup>
LED	MHD-E/G	
FWHM	23.0°	
Efficiency	91 %	60* 60*
Peak intensity	2.800 cd/lm	
Required comp	ponents:	
C13083_PF-	SOCKET	
		3499
		36'
CREE 4		20° 0 <sup>1</sup> 12°
LED	MHD-E/G	
FWHM	25.0°	27
Efficiency	85 %	60 <sup>1</sup> 60 <sup>1</sup>
Peak intensity		
Required comp		or or
C13083_PF-		- 100
C13333_MIF		
		30" 2450 30 <sup>°</sup>

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CREE				90° 9
LED	MHD-E/G			77
FWHM	29.0°			
Efficiency	86 %			605
Peak intensity	y 2.000 cd/lm			
Required com	ponents:			
C13083_PF	-SOCKET			1500
C12479_MI	IRELLA-DL			
CREE -				80 <sup>4</sup>
LED	MHD-E/G			75
FWHM	35.0 + 53.0°		100	400
Efficiency	83 %			
Peak intensity	y 1.500 cd/lm		-	
Required com				97 <sup>4</sup>
C13083_PF	-SOCKET			1200
C13723_MI	IRELLA-RZL			
				30° 15° 3
<b>CREE</b>				90*9
LED	MK-R			
FWHM	23.0°			
Efficiency	80 %			
Peak intensity	y 2.600 cd/lm			
Required com	nponents:			<sup>934</sup> e
C13083_PF				
C12479_MI	IRELLA-DL			3100
				30° 15° 0° 15°
CREE -		5		
LED	MT-G			
FWHM	34.0°			
Efficiency	86 %			
-	y 2.000 cd/lm			
Required com			-	
C13083_PF				
C13333_MI	IRELLA-CL			



LED MT-G FWHM 36.0° Efficiency 37 % Peak intensity 2.600 cd/m Required components: C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET CREE ← LED MT-G FWHM 28.0° Efficiency 91 % Peak intensity 2.600 cd/m Required components: C13083_PF-SOCKET CREE ← LED MT-G2 FWHM 25.0° Efficiency 90 % Peak intensity 2.600 cd/m Required components: C13083_PF-SOCKET	LED MT-G FWHM 36.0° Efficiency 87 % Peak intensity 1.900 col/m Required components: C13083_PF-SOCKET C12479_MIRELLA-DL CREE LED MT-G FWHM 28.0° Efficiency 91 % Peak intensity 2.600 col/m Required components: C13083_PF-SOCKET CREE LED MT-G2 FWHM 25.0° Efficiency 90 % Peak intensity 2.600 col/m Required components: C13083_PF-SOCKET CREE CREE LED MT-G2 FWHM 25.0° Efficiency 90 % Peak intensity 2.600 col/m Required components: C13083_PF-SOCKET	CREE 🗧		
Efficiency 87 % Peak intensity 1.900 col/m Required components: C12479_MIRELLA-DL CREE \$ LED MT-G FWHM 28.0° Efficiency 91 % Peak intensity 2.600 col/m Required components: C13083_PF-SOCKET CREE \$ LED MT-G2 FWHM 25.0° Efficiency 90 % Peak intensity 2.600 col/m Required components: C13083_PF-SOCKET CREE \$ LED MT-G2 FWHM 30.0° Efficiency 87 % Peak intensity 2.100 col/m Required components: C13083_PF-SOCKET	Efficiency 87% Peak intensity 1.900 cd/lm Required components: C13083_PF-SOCKET C12479_MIRELLADL CREE $\Leftrightarrow$ LED MT-G FWHM 28.0° Efficiency 91% Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE $\diamondsuit$ LED MT-G2 FWHM 25.0° Efficiency 90% Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE $\diamondsuit$ LED MT-G2 FWHM 25.0° Efficiency 90% Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET			
Peak intensity 1.900 cd/lm Required components: C13083_PF-SOCKET C12479_MIRELLA-DL CREE LED MT-G FWHM 28.0° Efficiency 91% Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE LED MT-G2 FWHM 25.0° Efficiency 90% Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE LED MT-G2 FWHM 30.0° Efficiency 97% Peak intensity 2.100 cd/lm Required components: C13083_PF-SOCKET	Peak intensity 1.900 cd//m Required components: C13083_PF-SOCKET C12479_MIRELLA-DL CREE ← LED MT-G FWHM 28.0° Efficiency 91% Peak intensity 2.600 cd//m Required components: C13083_PF-SOCKET CREE ← LED MT-G2 FWHM 25.0° Efficiency 90% Peak intensity 2.600 cd//m Required components: C13083_PF-SOCKET CREE ← LED MT-G2 FWHM 25.0° Efficiency 90% Peak intensity 2.600 cd//m Required components: C13083_PF-SOCKET	FWHM	36.0°	
Required components: C13083_PF-SOCKET C12479_MIRELLA-DL CREE ← LED MT-G Efficiency 91% Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE ← LED MT-G2 FWHM 25.0° Efficiency 90% Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE ← LED MT-G2 FWHM 30.0° Efficiency 87% Peak intensity 2.100 cd/lm Required components: C13083_PF-SOCKET	Required components: C13083_PF-SOCKET C12479_MIRELLA-DL CREE ← LED MT-G FWHM 28.0° Efficiency 91% Peak intensity 2.600 cd/m Required components: C13083_PF-SOCKET CREE ← LED MT-G2 FWHM 25.0° Efficiency 90% Peak intensity 2.600 cd/m Required components: C13083_PF-SOCKET C13083_PF-SOCKET	Efficiency	87 %	
CI3083_PF-SOCKET C12479_MIRELLA-DL CREE \$ LED MT-G FWHM 28.0° Efficiency 91% Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE \$ LED MT-G2 FWHM 25.0° Efficiency 90% Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE \$ LED MT-G2 FWHM 30.0° Efficiency 87% Peak intensity 2.100 cd/lm Required components: C13083_PF-SOCKET	CI3083_PF-SOCKET C12479_MIRELLA-DL CREE LED MT-G FWHM 28.0° Efficiency 91 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE LED MT-G2 FWHM 25.0° Efficiency 90 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE LED MT-G2 FWHM 30.0°		1.900 cd/lm	
C12479_MIRELLA-DL  CREE  LED MT-G  FWHM 28.0°  Efficiency 91 %  Peak intensity 2.600 cd/lm  Required components:  C13083_PF-SOCKET  CREE  LED MT-G2  FWHM 25.0°  Efficiency 90 %  Peak intensity 2.600 cd/lm  Required components:  C13083_PF-SOCKET  CREE  LED MT-G2  FWHM 30.0°  Efficiency 87 %  Peak intensity 2.100 cd/lm  Required components:  C13083_PF-SOCKET	C12479_MIRELLA-DL  CREE  LED MT-G FWHM 28.0° Efficiency 91 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET  CREE  LED MT-G2 FWHM 25.0° Efficiency 90 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET  CREE  ED MT-G2 FWHM 30.0°			
CREE + LED MT-G FWHM 28.0° Efficiency 91% Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE + LED MT-G2 FWHM 25.0° Efficiency 90% Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE + LED MT-G2 FWHM 30.0° Efficiency 87% Peak intensity 2.100 cd/lm Required components: C13083_PF-SOCKET	CREE \$ LED MT-G FWHM 28.0° Efficiency 91 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET  CREE \$ LED MT-G2 FWHM 25.0° Efficiency 90 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET  CREE \$ LED MT-G2 FWHM 30.0°	C13083_PF-	SOCKET	
LED MT-G FWHM 28.0° Efficiency 91 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE ← LED MT-G2 FWHM 25.0° Efficiency 90 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE ← LED MT-G2 FWHM 30.0° Efficiency 87 % Peak intensity 2.100 cd/lm Required components: C13083_PF-SOCKET	LED MT-G FWHM 28.0° Efficiency 91 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET C13083_PF-SOCKET CREE \$\leD MT-G2 FWHM 25.0° Efficiency 90 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE \$\leD MT-G2 FWHM 30.0°	C12479_MIF	ELLA-DL	
LED MT-G FWHM 28.0° Efficiency 91 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE ← LED MT-G2 FWHM 25.0° Efficiency 90 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE ← LED MT-G2 FWHM 30.0° Efficiency 87 % Peak intensity 2.100 cd/lm Required components: C13083_PF-SOCKET	LED MT-G FWHM 28.0° Efficiency 91 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET C13083_PF-SOCKET CREE \$\leD MT-G2 FWHM 25.0° Efficiency 90 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE \$\leD MT-G2 FWHM 30.0°	CREE ÷		
FWHM 28.0° Efficiency 91 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE € LED MT-G2 FWHM 25.0° Efficiency 90 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE € LED MT-G2 FWHM 30.0° Efficiency 87 % Peak intensity 2.100 cd/lm Required components: C13083_PF-SOCKET	FWHM 28.0° Efficiency 91 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CTSDES CREE € FWHM 25.0° Efficiency 90 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE € LED MT-G2 FWHM 30.0°			
Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE LED MT-G2 FWHM 25.0° Efficiency 90 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE LED MT-G2 FWHM 30.0° Efficiency 87 % Peak intensity 2.100 cd/lm Required components: C13083_PF-SOCKET	Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET C13083_PF-SOCKET CREE € LED MT-G2 FWHM 25.0° Efficiency 90 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE € LED MT-G2 FWHM 30.0°			
Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE LED MT-G2 FWHM 25.0° Efficiency 90 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE LED MT-G2 FWHM 30.0° Efficiency 87 % Peak intensity 2.100 cd/lm Required components: C13083_PF-SOCKET	Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CT3083_PF-SOCKET CREE € LED MT-G2 FWHM 25.0° Efficiency 90 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE € LED MT-G2 FWHM 30.0°	Efficiency	91 %	
C13083_PF-SOCKET CREE ← LED MT-G2 FWHM 25.0° Efficiency 90 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CREE ← LED MT-G2 FWHM 30.0° Efficiency 87 % Peak intensity 2.100 cd/lm Required components: C13083_PF-SOCKET	C13083_PF-SOCKET		2.600 cd/lm	
CREE LED MT-G2 FWHM 25.0° Efficiency 90 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CT3083_PF-SOCKET CREE LED MT-G2 FWHM 30.0° Efficiency 87 % Peak intensity 2.100 cd/lm Required components: C13083_PF-SOCKET	CREE \$         LED       MT-G2         FWHM       25.0°         Efficiency       90 %         Peak intensity       2.600 cd/lm         Required components:       C13083_PF-SOCKET         CTEE \$       MT-G2         FWHM       30.0°	Required comp	onents:	
LED MT-G2 FWHM 25.0° Efficiency 90 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET C13083_PF-SOCKET CT3083_PF-SOCKET CT3083_PF-SOCKET CT3083_PF-SOCKET	LED MT-G2 FWHM 25.0° Efficiency 90 % Peak intensity 2.600 cd/lm Required comments: C13083_PF-SOCKET C13083_PF-SOCKET CREE€ LED MT-G2 FWHM 30.0°	C13083_PF-	SOCKET	
LED MT-G2 FWHM 25.0° Efficiency 90 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET C13083_PF-SOCKET CT3083_PF-SOCKET CT3083_PF-SOCKET CT3083_PF-SOCKET	LED MT-G2 FWHM 25.0° Efficiency 90 % Peak intensity 2.600 cd/lm Required comments: C13083_PF-SOCKET C13083_PF-SOCKET CREE€ LED MT-G2 FWHM 30.0°			
LED MT-G2 FWHM 25.0° Efficiency 90 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET C13083_PF-SOCKET CT3083_PF-SOCKET CT3083_PF-SOCKET	LED MT-G2 FWHM 25.0° Efficiency 90 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET C13083_PF-SOCKET CREE€ LED MT-G2 FWHM 30.0°	CREE -	•	
FWHM       25.0°         Efficiency       90 %         Peak intensity       2.600 cd/lm         Required components:       C13083_PF-SOCKET         C13083_PF-SOCKET       Image: Component of the second of the seco	FWHM 25.0°   Efficiency 90 %   Peak intensity 2.600 cd/lm   Required components: C13083_PF-SOCKET			
Efficiency 90 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET C13083_PF-SOCKET CT3083_PF-SOCKET CT3083_PF-SOCKET	Efficiency 90 % Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET CT3083_PF-SOCKET CREE \$ LED MT-G2 FWHM 30.0°			
Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET	Peak intensity 2.600 cd/lm Required components: C13083_PF-SOCKET C13083_PF-SOCKET CREE LED MT-G2 FWHM 30.0°			
Required components: C13083_PF-SOCKET CREE LED MT-G2 FWHM 30.0° Efficiency 87 % Peak intensity 2.100 cd/lm Required components: C13083_PF-SOCKET	Required components: C13083_PF-SOCKET			
C13083_PF-SOCKET	C13083_PF-SOCKET			
LEDMT-G2FWHM30.0°Efficiency87 %Peak intensity2.100 cd/lmRequired components:100 cd/lmC13083_PF-SOCKET	LED MT-G2 FWHM 30.0°			
LEDMT-G2FWHM30.0°Efficiency87 %Peak intensity2.100 cd/lmRequired components:613083_PF-SOCKET	LED MT-G2 FWHM 30.0°			
LEDMT-G2FWHM30.0°Efficiency87 %Peak intensity2.100 cd/lmRequired components:100 cd/lmC13083_PF-SOCKET	LED MT-G2 FWHM 30.0°	CREE -		
FWHM30.0°Efficiency87 %Peak intensity2.100 cd/lmRequired components:100 cd/lmC13083_PF-SOCKET	FWHM 30.0°			
Efficiency 87 % Peak intensity 2.100 cd/lm Required components: C13083_PF-SOCKET				
Peak intensity 2.100 cd/lm Required components: C13083_PF-SOCKET				
Required components: C13083_PF-SOCKET	Peak intensity 2.100 cd/lm			
C13083_PF-SOCKET				
	C13333_MIRELLA-CL			

PRODUCT DATASHEET C13086\_MIRELLA-50-M-PF

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CREE	<b></b>			
LED	MT-G2			
FWHM	32.0°			
Efficiency	86 %			
	y 2.000 cd/lm			
Required corr				
C13083_PF				
C12479_MI	IRELLA-DL			
CREE			90°	30'
LED	XHP50	and the second se	75*	
FWHM	31.0°			
Efficiency	81 %		60*	
	y 1.700 cd/lm			
Required corr	ponents:		95	65
C13083_PF	-SOCKET			1220
C13723_MI	IRELLA-RZL			1600
			30%	or 15°
CREE	Tu		90*	90*
LED	XHP50		75°	
FWHM	21.0°			
Efficiency	83 %		605	
Peak intensity	y 2.900 cd/lm			
Required corr	ponents:		92*	
C13083_PF	-SOCKET			
C13333_MI	IRELLA-CL			
			300 15	100 - 150 - 30.0
<b>CREE</b> ·			90°	90'
LED	XHP50		75*	
FWHM	24.0°			
Efficiency	84 %		60.6	
	y 2.500 cd/lm			
Required corr	•		95°	1630
C13083_PF				
C12479_MI	IRELLA-DL			2400
			30°	30
			15	N 40.



#### PHOTOMETRIC DATA (MEASURED):

<b>CREE</b> +	TM	90* 90
LED	XHP50	25
FWHM	18.0°	
Efficiency	88 %	900 - 60 2000 - 60
Peak intensity	3.600 cd/lm	
Required com	ponents:	es
C13083_PF	SOCKET	
		330
		30" 30 00 15" 30
CREE -	<sup>r</sup> N	90 <sup>4</sup>
LED	XHP70	73
FWHM	27.0°	
Efficiency	82 %	
Peak intensity	2.400 cd/lm	
Required com	ponents:	eg
C13083_PF	SOCKET	
C13333_MI	RELLA-CL	
		30"
CREE -	N	90° 90
LED	XHP70	78.
FWHM	28.0°	
Efficiency	82 %	600 - 600 - 60
Peak intensity	2.200 cd/lm	
Required com	ponents:	457
C13083_PF	-SOCKET	- 100
C12479_MI	RELLA-DL	
		30 <sup>4</sup> 30 0 <sup>4</sup> 35
CREE -	71	90 <sup>4</sup>
LED	XHP70	75
FWHM	33.0°	400 K
Efficiency	80 %	605-
Peak intensity	1.600 cd/lm	
Required com	ponents:	45° 43
C13083_PF	SOCKET	
C13723_MI	RELLA-RZL	
		30*
		15° 0° 35°

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CREE			
LED	XHP70		75
FWHM	24.0°		60 <sup>4</sup>
Efficiency	87 %		
	2.800 cd/lm		07 1000
Required com			
C13083_PF	-SOCKET		200
			30° 13° 0° 15° 3
CREE -		0013710_013010_0000000_0000_000000000000	50°
LED	XM-L RGB		
FWHM	31.0°		400
Efficiency	79 %		
Peak intensity	1.800 cd/lm		
Required com	ponents:		gr
C13083_PF	-SOCKET		
C13723_MI	RELLA-RZL		1570
			30 <sup>4</sup> 35 <sup>9</sup> 0 <sup>4</sup> 35 <sup>9</sup> 3
CREE			
LED	XQ-E HI RGBW		
FWHM	30.0°		
Efficiency	87 %		
	2.000 cd/lm		
Required com			
C13083_PF			
	RELLA-RZL		
🕒 LG Inno	otek		
LED	COB 4W		
FWHM	29.0°		
Efficiency	85 %		
Peak intensity	2.400 cd/lm		
Required com			
noquirou oom			
C13083_PF	-SOCKET		



	ek	
LED	COB 4W	
FWHM	23.0°	
Efficiency	90 %	
Peak intensity	3.600 cd/lm	
Required compo	nents:	
C13083_PF-S	OCKET	
🕑 LG Innote	ek	
LED	COB 4W	
FWHM	23.0°	
Efficiency	85 %	
Peak intensity	2.800 cd/lm	
Required compo	nents:	
C13083_PF-S	OCKET	
C13333_MIRE	ELLA-CL	
	DS	90*
LED	LUXEON CoB 1202/1203	TY I I I I I I I I I I I I I I I I I I I
FWHM	27.0°	
Efficiency	87 %	600
Peak intensity		
Required compo		9 <sup>5</sup> - 1000 - 45 <sup>4</sup>
C14037_PF-N	ISX-SOCKET	
		200
		30 <sup>6</sup> 30 <sup>7</sup> 30 <sup>7</sup>
	DS	30 <sup>4</sup>
LED	LUXEON CoB 1202/1203	78"
FWHM	28.0°	
Efficiency	81 %	60°-
Peak intensity		
Required compo		
C13333_MIRE		1600
IDEAL: 50-21(	00NC +50-2100MR	

PRODUCT DATASHEET

C13086\_MIRELLA-50-M-PF

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FWHM       25.0°         Efficiency       82 %         Peak intensity       2.500 cd/lm         Required components:       C13703 PF-SOCKET-VERO13-18         Bender Wirth:       438 Typ L1         Image: Components:       Cumileeds         Image: Components:       Cimileeds         Components:       Cimileeds         Cimileeds       Cimileeds         Efficiency       77 %         Peak intensity 2.200 cd/lm       Required components:         Cimileeds       Cimileeds         Cimileeds       Cimileeds         Cimileeds       Cimileeds         Image: Components:       Cimileed			
FWHM 25.0° Efficiency 82 % Peak intensity 2.500 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 438 Typ L1 CLUMILEDS LED LUXEON CoB 1202/1203 FWHM 25.0° Efficiency 86 % Peak intensity 2.500 cd/lm Required components: IDEAL: 50-2100NC +50-2100MR CLUMILEDS LED LUXEON CoB 1202/1203 FWHM 27.0° Efficiency 77 % Peak intensity 2.200 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL Bender Wirth: 438 Typ L1	UMIL	EDS	90* 90*
Efficiency 82 % Peak intensity 2.500 cd/lm Required components: C13709 PF-SOCKET-VER013-18 Bender Wirth: 438 Typ L1 CLUNIEDS LED LUXEON CoB 1202/1203 FWHM 25.0° Efficiency 86 % Peak intensity 2.500 cd/lm Required components: IDEAL: 50-2100NC +50-2100MR Efficiency 77 % Peak intensity 2.200 cd/lm Required components: C13709_PF-SOCKET-VER013-18 C1333_MIRELLA-CL Bender Wirth: 438 Typ L1 CLUNIEDS LED LUXEON CoB 1202/1203 FWHM 27.0° Efficiency 77 % Peak intensity 1.600 cd/lm Required components: C13709_PF-SOCKET-VER013-18 C1333_MIRELLA-CL Bender Wirth: 438 Typ L1 CLUNIEDS LED LUXEON CoB 1202/1203 FWHM 32.0° Efficiency 75 % Peak intensity 1.600 cd/lm Required components: C13709_PF-SOCKET-VER013-18 C13709_FF-SOCKET-VER013-18 C13709_FF-SOCKET-VER013-18 C13709_FF-SOCKET-VER013-18 C13709_FF-SOCKET-VER013-18 C13709_FF-SOCKET-VER013-18 C13709_FF-SOCKET-VER013-18 C13709_FF-SOCKET-VER013-18 C13709_FF-SOCKET-VER013-18 C13709_FF-SOCKET-VER013-18	LED	LUXEON CoB 1202/1203	78'
Peak intensity 2.500 cd/lm Required components: C13709_PF-SOCKET-VER013-18 Bender Wirk: 438 Typ L1 CLUNILEDS LED LUXEON CoB 1202/1203 FWHM 25.0° Efficiency 86 % Peak intensity 2.500 cd/lm Required components: IDEAL: 50-2100NC +50-2100MR CLUNILEDS LED LUXEON CoB 1202/1203 FWHM 27.0° Efficiency 77 % Peak intensity 2.000 cd/lm Required components: C13709_PF-SOCKET-VER013-18 C13333_MIRELLA-CL Bender Wirk: 438 Typ L1 CLUNILEDS LED LUXEON CoB 1202/1203 FWHM 32.0° Efficiency 75 % Peak intensity 1.600 cd/lm Required components: C13709_PF-SOCKET-VER013-18 C13709_PF-	FWHM	25.0°	
Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 438 Typ L1 CLUMILEDS LED LUXEON CoB 1202/1203 FWHM 25.0° Efficiency 86 % Peak intensity 2.500 cd/m Required components: IDEAL: 50-2100NC +50-2100MR CLUXEON CoB 1202/1203 FWHM 27.0° Efficiency 77 % Peak intensity 2.200 cd/m Required components: C13709_PF-SOCKET-VERO13-18 C1333_MIRELLA-CL Bender Wirth: 438 Typ L1 CLUXEON CoB 1202/1203 FWHM 32.0° ELD LUXEON COB 1202/10	Efficiency	82 %	60°
C13709_PF-SOCKET-VERO13-18 Bender Wirth: 438 Typ L1	Peak intensity	2.500 cd/lm	
Bender Wirth: 438 Typ L1			9 <sup>°°</sup> - 1600
Image: Constraint of the second se			
LED LUXEON CoB 1202/1203 FWHM 25.0° Efficiency 86 % Peak intensity 2.500 cd/lm Required components: IDEAL: 50-2100NC +50-2100MR CIUMILEDS LED LUXEON CoB 1202/1203 FWHM 27.0° Efficiency 77 % Peak intensity 2.200 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C137	Bender Wirth	: 438 Typ L1	2000
LED LUXEON CoB 1202/1203 FWHM 25.0° Efficiency 86 % Peak intensity 2.500 cd/lm Required components: IDEAL: 50-2100NC +50-2100MR CIJUMILEDS LED LUXEON CoB 1202/1203 FWHM 27.0° Efficiency 77 % Peak intensity 2.200 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C13			30° 30° 15° 0° 25°
FWHM 25.0° Efficiency 86 % Peak intensity 2.500 cd/lm Required components: IDEAL: 50-2100NC +50-2100MR CUMILEDS LED LUXEON CoB 1202/1203 FWHM 27.0° Efficiency 77 % Peak intensity 2.200 cd/lm Required components: C13709_PF-SOCKET-VER013-18 C13709_PC-SOCKET-VER013-18 C13709_PC-SOCKET-VER013-18 C13709_PC-SOCKET-VER013-18 C13709_PC-SOCKET-VER013-18 C13	UMIL	EDS	90°
Efficiency 86 % Peak intensity 2.500 cd/lm Required components: IDEAL: 50-2100NC +50-2100MR CLUMILEDS LED LUXEON CoB 1202/1203 FWHM 27.0° Efficiency 77 % Peak intensity 2.200 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL Bender Wirth: 438 Typ L1 CLUMILEDS LED LUXEON CoB 1202/1203 FWHM 32.0° Efficiency 75 % Peak intensity 1.600 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C13709_PF-SOCKE	LED	LUXEON CoB 1202/1203	75
Peak intensity 2.500 cd/lm Required components: IDEAL: 50-2100NC +50-2100MR <b>CLUMILEDS</b> LED LUXEON CoB 1202/1203 FWHM 27.0° Efficiency 77 % Peak intensity 2.200 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL Bender Wirth: 438 Typ L1 <b>CLUMILEDS</b> LED LUXEON CoB 1202/1203 FWHM 32.0° Efficiency 75 % Peak intensity 1.600 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C1	FWHM	25.0°	
Required components: IDEAL: 50-2100NC +50-2100MR LED LUXEON CoB 1202/1203 FWHM 27.0° Efficiency 77 % Peak intensity 2.200 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL Bender Wirth: 438 Typ L1 LED LUXEON CoB 1202/1203 FWHM 32.0° Efficiency 75 % Peak intensity 1.600 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C137	Efficiency		60* 60*
DEAL: 50-2100NC +50-2100MR			
Image: Constraint of the second se			φ* 4 100 4*
LED LUXEON CoB 1202/1203 FWHM 27.0° Efficiency 77 % Peak intensity 2.200 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL Bender Wirth: 438 Typ L1 CUMILEDS LED LUXEON CoB 1202/1203 FWHM 32.0° Efficiency 75 % Peak intensity 1.600 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C121709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL	IDEAL: 50-2	00NC +50-2100MR	
LED LUXEON CoB 1202/1203 FWHM 27.0° Efficiency 77 % Peak intensity 2.200 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL Bender Wirth: 438 Typ L1 CUMILEDS LED LUXEON CoB 1202/1203 FWHM 32.0° Efficiency 75 % Peak intensity 1.600 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL			2000
LED LUXEON CoB 1202/1203 FWHM 27.0° Efficiency 77 % Peak intensity 2.200 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL Bender Wirth: 438 Typ L1 CUMILEDS LED LUXEON CoB 1202/1203 FWHM 32.0° Efficiency 75 % Peak intensity 1.600 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL			30 <sup>4</sup> 35 <sup>4</sup> 36 <sup>4</sup>
FWHM 27.0° Efficiency 77 % Peak intensity 2.200 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL Bender Wirth: 438 Typ L1 CUMILEDS LED LUXEON CoB 1202/1203 FWHM 32.0° Efficiency 75 % Peak intensity 1.600 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL		EDS	50*
Efficiency 77 % Peak intensity 2.200 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL Bender Wirth: 438 Typ L1 CLUXEON CoB 1202/1203 FWHM 32.0° Efficiency 75 % Peak intensity 1.600 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL	LED	LUXEON CoB 1202/1203	75.
Peak intensity 2.200 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL Bender Wirth: 438 Typ L1 CLUMILEDS LED LUXEON CoB 1202/1203 FWHM 32.0° Efficiency 75 % Peak intensity 1.600 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL	FWHM	27.0°	
Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL Bender Wirth: 438 Typ L1 CUMILEDS LED LUXEON CoB 1202/1203 FWHM 32.0° Efficiency 75 % Peak intensity 1.600 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL	Efficiency	77 %	605 605 60°
C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL Bender Wirth: 438 Typ L1 CUMILEDS LED LUXEON CoB 1202/1203 FWHM 32.0° Efficiency 75 % Peak intensity 1.600 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL	Peak intensity	2.200 cd/lm	
C13333_MIRELLA-CL Bender Wirth: 438 Typ L1	Required comp	onents:	
Bender Wirth: 438 Typ L1			1000
Image: Construction of the second			
LED LUXEON CoB 1202/1203 FWHM 32.0° Efficiency 75 % Peak intensity 1.600 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL	Bender Wirth	: 438 Typ L1	30° 30° 30° 30°
FWHM 32.0° Efficiency 75 % Peak intensity 1.600 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL		EDS	50*
Efficiency 75 % Peak intensity 1.600 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL	LED	LUXEON CoB 1202/1203	75'
Peak intensity 1.600 cd/lm Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL	FWHM	32.0°	400
Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL	Efficiency		
C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL	-	75 %	60* 60*
C12479_MIRELLA-DL	Peak intensity	75 % 1.600 cd/lm	00 V
	Peak intensity Required comp	75 % 1.600 cd/lm onents:	er er
Bender Wirth: 438 Typ L1	Peak intensity Required comp C13709_PF-	75 % 1.600 cd/lm onents: SOCKET-VERO13-18	00 00 00 00 00 00 00 00 00 00 00 00 00
15 <sup>9</sup> 0 <sup>6</sup> 15 <sup>9</sup>	Peak intensity Required comp C13709_PF- C12479_MIF	75 % 1.600 cd/lm onents: SOCKET-VERO13-18 ELLA-DL	er er 120



UMIL	EDS	90°
LED	LUXEON CoB 1202/1203	75.
FWHM	30.0°	
Efficiency	82 %	60 <sup>+</sup>
Peak intensity	2.000 cd/lm	
Required comp	oonents:	g
C12479_MIF	RELLA-DL	
IDEAL: 50-2	100NC +50-2100MR	
		30° 0, 15° 30°
	EDS	»·
LED	LUXEON CoB 1202s	75-
FWHM	17.0°	
Efficiency	86 %	60* 00*
Peak intensity	4.200 cd/lm	
Required comp	ponents:	9°
C13709_PF	SOCKET-VERO13-18	2200
Bender Wirth	n: 452 Typ L1	
		30° 0° 35° 36°
	EDS	90*
LED	LUXEON CoB 1202s	75'
FWHM	25.0°	
Efficiency	79 %	60* 000 00°
Peak intensity	2.200 cd/lm	
Required comp	ponents:	87°
C13709_PF	SOCKET-VERO13-18	209
C12479_MIF	RELLA-DL	
Bender Wirth	n: 452 Typ L1	95° 35° 35°
	EDS	50°
LED	LUXEON CoB 1202s	79.
FWHM	19.0°	
Efficiency	81 %	
Peak intensity		
Required comp	ponents:	er 300
C13709_PF	SOCKET-VERO13-18	$ \times$ / $ \times$
C13333 MIE	RELLA-CL	320
	n: 452 Typ L1	30-



#### **PHOTOMETRIC DATA (MEASURED):**

#### UMILEDS

 LED
 LUXEON CoB 1202s

 FWHM
 20.0°

 Efficiency
 88 %

 Peak intensity
 3.600 cd/lm

 Required comments:
 C13761\_PF-SOCKET-CXA15



#### 

 LED
 LUXEON CoB 1202s

 FWHM
 23.0°

 Efficiency
 83 %

 Peak intensity
 2.800 cd/lm

 Required components:
 C13761\_PF-SOCKET-CXA15

 C13333\_MIRELLA-CL
 C13333\_MIRELLA-CL



#### LUMILEDS

 LED
 LUXEON CoB 1202s

 FWHM
 26.0°

 Efficiency
 83 %

 Peak intensity
 2.500 cd/lm

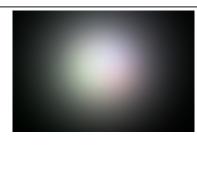
 Required components:
 C13761\_PF-SOCKET-CXA15

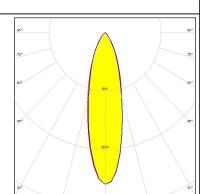
 C12479\_MIRELLA-DL
 C12479\_MIRELLA-DL





LED LUXEON Z RGB FWHM 28.0° Efficiency 79 % Peak intensity 2.100 cd/lm Required components: C13083\_PF-SOCKET C13723\_MIRELLA-RZL







EWHM       23.0°         Efficiency       85 %         Peak intensity       3.100 col/Im         Required components:			
WHM       23.0°         Efficiency       85 %         Peak intensity       3.100 cd/lm         Required components:       C13083_PF-SOCKET         C13083_PF-SOCKET       Image: Components:	ELUMI	NUS	90*
Efficiency 85% Peak intensity 3.100 col/lm Required components: C13083_PF-SOCKET ED CXM-7 WHM 26.0° Efficiency 86% Peak intensity 2.700 col/lm Required components: C13083_PF-SOCKET ED CXM-9 WHM 30.0° Efficiency 89% Peak intensity 2.200 col/lm Required components: C13083_PF-SOCKET ED CXM-9 WHM 30.0° Efficiency 89% Peak intensity 2.200 col/lm Required components: C13083_PF-SOCKET ED CXM-9 WHM 30.0° Efficiency 84% Peak intensity 1.900 col/lm Required components: C13083_PF-SOCKET ED CXM-9 WHM 33.0° Efficiency 84% Peak intensity 1.900 col/lm Required components: C13083_PF-SOCKET	LED	CXM-6	75"
Peak intensity 3.100 cd/lm Required components: C13083_PF-SOCKET ED CXM-7 WHM 26.0° Efficiency 86 % Peak intensity 2.700 cd/lm Required components: C13083_PF-SOCKET ED CXM-9 WHM 30.0° Efficiency 89 % Peak intensity 2.200 cd/lm Required components: C13083_PF-SOCKET ED CXM-9 WHM 30.0° Efficiency 89 % Peak intensity 2.200 cd/lm Required components: C13083_PF-SOCKET ED CXM-9 WHM 30.0° Efficiency 84 % Peak intensity 1.900 cd/lm Required components: C13083_PF-SOCKET	FWHM	23.0°	- 200 -
Required components: C13083_PF-SOCKET	Efficiency	85 %	60° 60°
C13083_PF-SOCKET	Peak intensity	3.100 cd/lm	
ED       CXM-7         WHM       26.0°         Efficiency       86 %         Peak intensity 2.700 cd/m         Required components:         C13083_PF-SOCKET			
ED CXM-7 FWHM 26.0° Efficiency 86 % Peak intensity 2.700 cd/lm Required components: C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET	C13083_PF-9	SOCKET	3400
ED CXM-7 FWHM 26.0° Efficiency 86 % Peak intensity 2.700 cd/lm Required components: C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET			
ED CXM-7 FWHM 26.0° Efficiency 86 % Peak intensity 2.700 cd/lm Required components: C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET			30° 200 30° 30°
EWHM       26.0°         Efficiency       86 %         Peak intensity       2.700 cd/lm         Required components:       C13083_PF-SOCKET         C13083_PF-SOCKET       Image: Component State Stat		NUS	90°
Efficiency 86 % Peak intensity 2.700 cd/lm Required components: C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET ED CXM-9 WHM 30.0° Efficiency 89 % Peak intensity 2.200 cd/lm Required components: C13083_PF-SOCKET ED CXM-9 WHM 33.0° Efficiency 84 % Peak intensity 1.900 cd/lm Required components: C13083_PF-SOCKET	LED	CXM-7	75
Peak intensity 2.700 cd/lm Required components: C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET	FWHM	26.0°	
Required components: C13083_PF-SOCKET ED CXM-9 ED CXM-9 WHM 30.0° Efficiency 89 % Peak intensity 2.200 cd/m Required components: C13083_PF-SOCKET ED CXM-9 WHM 33.0° Efficiency 84 % Peak intensity 1.900 cd/m Required components: C13083_PF-SOCKET	Efficiency	86 %	gg*
Acquired components: C13083_PF-SOCKET ED CXM-9 WHM 30.0° Efficiency 89 % Peak intensity 2.200 cd/lm Required components: C13083_PF-SOCKET ED CXM-9 WHM 33.0° Efficiency 84 % Peak intensity 1.900 cd/lm Required components: C13083_PF-SOCKET C13083_PF-SOCKET	-		
Image: Components:       Image: Components:         C13083_PF-SOCKET       Image: Components:			e <sup>5*</sup> - 1500 - e <sup>4*</sup>
LED CXM-9 FWHM 30.0° Efficiency 89 % Peak intensity 2.200 cd/lm Required components: C13083_PF-SOCKET FUNINUS LED CXM-9 FWHM 33.0° Efficiency 84 % Peak intensity 1.900 cd/lm Required components: C13083_PF-SOCKET	C13083_PF-9	SOCKET	
LED CXM-9 FWHM 30.0° Efficiency 89 % Peak intensity 2.200 cd/lm Required components: C13083_PF-SOCKET ED CXM-9 FWHM 33.0° Efficiency 84 % Peak intensity 1.900 cd/lm Required components: C13083_PF-SOCKET			2430
LED CXM-9 FWHM 30.0° Efficiency 89 % Peak intensity 2.200 cd/lm Required components: C13083_PF-SOCKET ED CXM-9 FWHM 33.0° Efficiency 84 % Peak intensity 1.900 cd/lm Required components: C13083_PF-SOCKET			-30° - 35° - 36°
FWHM 30.0° Efficiency 89 % Peak intensity 2.200 cd/lm Required components: C13083_PF-SOCKET ED CXM-9 FWHM 33.0° Efficiency 84 % Peak intensity 1.900 cd/lm Required components: C13083_PF-SOCKET	ELUMI	NUS	90*
Efficiency 89 % Peak intensity 2.200 cd/lm Required components: C13083_PF-SOCKET	LED	CXM-9	75
Peak intensity 2.200 cd/lm Required components: C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET C13083_PF-SOCKET	FWHM	30.0°	
Required components: C13083_PF-SOCKET	Efficiency	89 %	50° 60°
C13083_PF-SOCKET	-		
ED CXM-9 FWHM 33.0° Efficiency 84 % Peak intensity 1.900 cd/lm Required components: C13083_PF-SOCKET			· · · · · · · · · · · · · · · · · · ·
LED CXM-9 FWHM 33.0° Efficiency 84 % Peak intensity 1.900 cd/lm Required components: C13083_PF-SOCKET	C13083_PF-	SOCKET	1600
LED CXM-9 FWHM 33.0° Efficiency 84 % Peak intensity 1.900 cd/lm Required components: C13083_PF-SOCKET			
LED CXM-9 FWHM 33.0° Efficiency 84 % Peak intensity 1.900 cd/lm Required components: C13083_PF-SOCKET			36° 35° 2450 35°
FWHM 33.0° Efficiency 84 % Peak intensity 1.900 cd/lm Required components: C13083_PF-SOCKET		NUS	80 <sup>4</sup> 00 <sup>5</sup>
Efficiency 84 % Peak intensity 1.900 cd/lm Required components: C13083_PF-SOCKET	LED	CXM-9	75 75
Peak intensity 1.900 cd/lm Required components: C13083_PF-SOCKET	FWHM	33.0°	
Required components: C13083_PF-SOCKET			60%
C13083_PF-SOCKET	Efficiency		
	Peak intensity	1.900 cd/lm	
	Peak intensity Required comp	1.900 cd/lm onents:	a. 120 a
	Peak intensity Required comp C13083_PF-5	1.900 cd/lm onents: SOCKET	er
30- 200 30	Peak intensity Required comp C13083_PF-5	1.900 cd/lm onents: SOCKET	00 07 120 150



	NUS	90* 99*
LED	CXM-9	75
FWHM	35.0°	400
Efficiency	84 %	60** B0*
Peak intensity	1.700 cd/lm	
Required comp	onents:	gar eg
C13083_PF-	SOCKET	
C12479_MIR	ELLA-DL	100
		30 <sup>4</sup> 15 <sup>3</sup> 0 <sup>4</sup> 15 <sup>3</sup>
	NUS	50*
LED	CXM-9	75
FWHM	38.0°	400
Efficiency	82 %	60** · · · · · · · · · · · · · · · · · ·
Peak intensity	1.400 cd/lm	
Required comp	onents:	
C13083_PF-	SOCKET	
C13723_MIR	ELLA-RZL	1200
		30° 15° 0° 15°
<b>ØNICHIA</b>		90 <sup>4</sup>
LED	COB L-Type (LES 11)	10°
FWHM	31.0°	***
Efficiency	86 %	65* 60°
Peak intensity	2.000 cd/lm	
Required comp	onents:	· 1230 · · · · · · · · · · · · · · · · · · ·
IDEAL: 50-21	00NC +50-2100MR	1600
		30 <sup>4</sup> 30 <sup>5</sup> 3 <sup>6</sup>
<b>ØNICHI</b>		90° 90°
LED	COB L-Type (LES 11)	20 10 10 10 10 10 10 10 10 10 10 10 10 10
FWHM	33.0°	40
Efficiency	77 %	
Peak intensity	1.700 cd/lm	
Required comp	onents:	9°
C13709_PF-	SOCKET-VERO13-18	
C13333_MIR	ELLA-CL	
Bender Wirth	: 438 Typ L1	30-
		12° 0° 15°