

MIRELLA-50-W-PF

~40° 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



FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	White	34 15 15 15 15 15 15 15 15 15 15
bridgetuk LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13709_PF-SC C12479_MIREI	White ents: DCKET-VERO13-18	3° 13° 0° 2°
bridgetux LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13709_PF-SC	White	
bridgetux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13709_PF-SC C13333_MIREI	White ents: DCKET-VERO13-18	II II II II II II III III III IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII

PRODUCT DATASHEET



FWHM Efficiency Peak intensity LEDs/each optic	White ents: ICKET-CXA15	
FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	White ents: ICKET-VERO13-18	
FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	White ents: ICKET-VERO13-18 ILA-DL	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13761_PF-SC C13333_MIREI	White ents: PCKET-CXA15	

PRODUCT DATASHEET



PHOTOMETRIC DATA (MEASURED):

LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13761_PF-SC	White ents:	54 50 54 54 54 54 54 54 54 55 54 55 55 55 55
bridgetux LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13709_PF-SC C12479_MIRE Bender Wirth: 4	White ents: DCKET-VERO13-18 LLA-DL	Δ. · · · · · · · · · · · · · · · · · · ·
bridgetux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13761_PF-SC C13333_MIRE	White ents: DCKET-CXA15	
bridgetux LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13761_PF-SC	White ents:	21 21 21 21 20 20 20 20 20 20 20 20 20 20

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bridgetux LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13761_PF-SC C12479_MIREI	White ents: PCKET-CXA15	
bridgetux LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13708_PF-SC C12479_MIRE	White ents: ICKET-VERO10	
bridgetux LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13708_PF-SC	White	2 ⁴ 2 ⁴ 0 ⁴
bridgetux LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13708_PF-SC C13333_MIREI	White ents: VCKET-VERO10	

PRODUCT DATASHEET



bridgetux.		94
LED	VERO13	
FWHM	50.0°	
Efficiency	82 %	
Peak intensity	1.120 cd/lm	
LEDs/each optic	1	
Light colour	White	ar at
Required compor	nents:	
C13709_PF-S0	DCKET-VERO13-18	
C12479_MIRE	LLA-DL	
		34
bridgelux.		N1 N1
LED	VERO13	
FWHM	46.0°	
Efficiency	90 %	
Peak intensity	1.290 cd/lm	
LEDs/each optic	1	
Light colour	White	a
Required compor	nents:	
C13709_PF-S0	DCKET-VERO13-18	
		2230
		34
		13' 0' 25'
\bigcap		
bridgelux.		201 ⁴
LED	VERO13	21° 21° 21° 21° 21° 21° 21° 21° 21° 21°
LED FWHM	51.0°	31 ⁴ 31 ⁴
LED FWHM Efficiency	51.0° 77 %	91 ⁴
LED FWHM Efficiency Peak intensity	51.0° 77 % 1.100 cd/lm	91 ⁴ 91 ⁴ 72 ² 91 ⁴ 91 ⁴
LED FWHM Efficiency Peak intensity LEDs/each optic	51.0° 77 % 1.100 cd/lm 1	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	51.0° 77 % 1.100 cd/lm 1 White	11 ² 000 01 ²
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	51.0° 77 % 1.100 cd/lm 1 White nents:	10 ¹⁰
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-SC	51.0° 77 % 1.100 cd/lm 1 White hents: DCKET-VERO13-18	94* 90 94* 00 44* 00 44* 00 00 00 00 00 00 00 00 00 00
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	51.0° 77 % 1.100 cd/lm 1 White hents: DCKET-VERO13-18	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-SC	51.0° 77 % 1.100 cd/lm 1 White hents: DCKET-VERO13-18	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-SC	51.0° 77 % 1.100 cd/lm 1 White hents: DCKET-VERO13-18	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-SC C13333_MIRE	51.0° 77 % 1.100 cd/lm 1 White hents: DCKET-VERO13-18	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-SC C13333_MIRE	51.0° 77 % 1.100 cd/lm 1 White hents: DCKET-VERO13-18 LLA-CL	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-SC C13333_MIRE	51.0° 77 % 1.100 cd/lm 1 White nents: DCKET-VERO13-18 LLA-CL Xenio Point 13mm	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-SC C13333_MIREI	51.0° 77 % 1.100 cd/lm 1 White nents: DCKET-VERO13-18 LLA-CL Xenio Point 13mm 48.0° 78 % 1.050 cd/lm	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-SC C13333_MIRE Drdgetux LED FWHM Efficiency Peak intensity LEDs/each optic	51.0° 77 % 1.100 cd/lm 1 White hents: DCKET-VERO13-18 LLA-CL Xenio Point 13mm 48.0° 78 % 1.050 cd/lm 1	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-SC C13333_MIREI	51.0° 77 % 1.100 cd/lm 1 White nents: DCKET-VERO13-18 LLA-CL Xenio Point 13mm 48.0° 78 % 1.050 cd/lm	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-SC C13333_MIRE bridgetux LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	51.0° 77 % 1.100 cd/lm 1 White hents: DCKET-VERO13-18 LLA-CL Xenio Point 13mm 48.0° 78 % 1.050 cd/lm 1 White hents:	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-SC C13333_MIRE Dridgetux LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-SC	51.0° 77 % 1.100 cd/lm 1 White hents: DCKET-VERO13-18 LLA-CL Xenio Point 13mm 48.0° 78 % 1.050 cd/lm 1 White hents: DCKET-VERO13-18	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-SC C13333_MIRE bridgetux LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	51.0° 77 % 1.100 cd/lm 1 White hents: DCKET-VERO13-18 LLA-CL Xenio Point 13mm 48.0° 78 % 1.050 cd/lm 1 White hents: DCKET-VERO13-18	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-SC C13333_MIRE brogetux LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-SC	51.0° 77 % 1.100 cd/lm 1 White hents: DCKET-VERO13-18 LLA-CL Xenio Point 13mm 48.0° 78 % 1.050 cd/lm 1 White hents: DCKET-VERO13-18	

PRODUCT DATASHEET



bridgetux.		24*
LED	Xenio Point 13mm	
FWHM	45.0°	n'
Efficiency	85 %	
Peak intensity	1.260 cd/lm	0° / / / / / / / / / / / / / / / / / / /
LEDs/each optic		
Light colour	White	ar Alexandre ar
Required compon		
	OCKET-VERO13-18	
		43° 0 3°
bridgelux.		94
LED	Xenio Point 13mm	
FWHM	49.0°	
Efficiency	81 %	
Peak intensity	1.130 cd/lm	
LEDs/each optic	1	
Light colour	White	a
Required compon	ents:	
C13709_PF-SC	OCKET-VERO13-18	
C13333_MIRE	_LA-CL	
		»*
	·	123 ¹¹ 2200 22 ⁴
OTETET		
CITIZE	N	
	CLL01x	
LED	CLL01x 36.0° 90 %	
LED FWHM Efficiency Peak intensity	CLL01x 36.0° 90 % 1.800 cd/lm	
LED FWHM Efficiency Peak intensity LEDs/each optic	CLL01x 36.0° 90 % 1.800 cd/lm 1	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	CLL01x 36.0° 90 % 1.800 cd/lm 1 White	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	CLL01x 36.0° 90 % 1.800 cd/lm 1 White ents:	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	CLL01x 36.0° 90 % 1.800 cd/lm 1 White ents:	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	CLL01x 36.0° 90 % 1.800 cd/lm 1 White ents:	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	CLL01x 36.0° 90 % 1.800 cd/lm 1 White ents:	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13083_PF-SC	CLL01x 36.0° 90 % 1.800 cd/lm 1 White ents: DCKET	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13083_PF-SC	CLL01x 36.0° 90 % 1.800 cd/lm 1 White ents: DCKET	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13083_PF-SC	CLL01x 36.0° 90 % 1.800 cd/lm 1 White ents: DCKET N CLL01x	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13083_PF-SC	CLL01x 36.0° 90 % 1.800 cd/lm 1 White ents: DCKET N CLL01x 42.0°	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13083_PF-SC CITIZE LED FWHM Efficiency	CLL01x 36.0° 90 % 1.800 cd/lm 1 White ents: DCKET N CLL01x 42.0° 86 %	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13083_PF-SC CITIZEI LED FWHM Efficiency Peak intensity	CLL01x 36.0° 90 % 1.800 cd/lm 1 White ents: DCKET N CLL01x 42.0° 86 % 1.400 cd/lm	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13083_PF-SC CITIZEI LED FWHM Efficiency Peak intensity LEDs/each optic	CLL01x 36.0° 90 % 1.800 cd/lm 1 White ents: DCKET N CLL01x 42.0° 86 % 1.400 cd/lm 1	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13083_PF-SC CITIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	CLL01x 36.0° 90 % 1.800 cd/lm 1 White ents: DCKET N CLL01x 42.0° 86 % 1.400 cd/lm 1 White	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13083_PF-SC CITIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	CLL01x 36.0° 90 % 1.800 cd/lm 1 White ents: OCKET N CLL01x 42.0° 86 % 1.400 cd/lm 1 White ents:	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13083_PF-SC ED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13083_PF-SC	CLL01x 36.0° 90 % 1.800 cd/lm 1 White ents: DCKET N CLL01x 42.0° 86 % 1.400 cd/lm 1 White ents: DCKET	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13083_PF-SC CITIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	CLL01x 36.0° 90 % 1.800 cd/lm 1 White ents: DCKET N CLL01x 42.0° 86 % 1.400 cd/lm 1 White ents: DCKET	

PRODUCT DATASHEET



CITIZE	N	
LED	CLL01x	
FWHM	44.0°	
Efficiency	86 %	
Peak intensity	1.400 cd/lm	
LEDs/each optic		
Light colour	White	
Required compor		
C13083_PF-S0		
C12479_MIRE		
012470_0000		
CITIZE	N	38 ⁴
LED	CLL02x/CLU02x (LES10)	
FWHM	39.0°	n'
Efficiency	78 %	
Peak intensity	1.500 cd/lm	
LEDs/each optic	1	
Light colour	White	e / e
Required compor		
	DCKET-VERO13-18	
C13333_MIRE		
Bender Wirth: 4		
		10 ¹ 16 ¹ 2 ¹
CITIZE	CH13907_WIRELLA=50=U=EF=REL_fCLL020)	
LED	CLL02x/CLU02x (LES10)	
FWHM	46.0°	
Efficiency	%	
Peak intensity	0.700 cd/lm	
LEDs/each optic		
Light colour	White	
Required compor		
C13083_PF-S0		
C13723_MIRE		
OTTIT	NT.	
CITIZE		
LED	CLL02x/CLU02x (LES10)	
FWHM	46.0°	
Efficiency	86 %	
Peak intensity	1.500 cd/lm	
LEDs/each optic		
Light colour	White	
Required compor		
C13083_PF-S0		
C12479_MIRE	LLA-DL	
	LLA-DL	

PRODUCT DATASHEET



CITIZE	N		M ⁴ M ⁴
LED FWHM	CLL02x/CLU02x (LES10) 41.0°		<u>n</u>
Efficiency	76 %		
Peak intensity	1.300 cd/lm		97 / / / · · · / · · · · · · · · · · · ·
LEDs/each optic		and the second	$\times / \mathbb{N} \to \mathbb{N} \times$
Light colour	White		ar A ar
Required compor	ents:		
C13709_PF-S0	OCKET-VERO13-18		
C12479_MIRE			
Bender Wirth: 4	34 Тур L1		25° (* 25°
CITIZE	N		
LED	CLL02x/CLU02x (LES10)		
FWHM	46.0°		
Efficiency	86 %		
Peak intensity	1.500 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required compor			
C13083_PF-S0			
C13333_MIRE	LA-CL		
CITIZE	NT		
CITIZE			
LED	CLL02x/CLU02x (LES10)		
FWHM	41.0°		
Efficiency	90 %		
Peak intensity	1.800 cd/lm		
LEDs/each optic Light colour	White		
Required compor			
C13083_PF-S0			
CITIZE	N		M*W
LED	CLL02x/CLU02x (LES10)		31 ⁴ 32 ⁴
LED FWHM	CLL02x/CLU02x (LES10) 36.0°		11 12 10 10 10 10 10 10 10
LED FWHM Efficiency	CLL02x/CLU02x (LES10) 36.0° 84 %		10° 10° 10° 10° 10° 10° 10° 10° 10° 10°
LED FWHM Efficiency Peak intensity	CLL02x/CLU02x (LES10) 36.0° 84 % 1.700 cd/lm		94 94 77 64 00
LED FWHM Efficiency Peak intensity LEDs/each optic	CLL02x/CLU02x (LES10) 36.0° 84 % 1.700 cd/lm 1		10 ¹ 10
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	CLL02x/CLU02x (LES10) 36.0° 84 % 1.700 cd/lm 1 White		84"
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	CLL02x/CLU02x (LES10) 36.0° 84 % 1.700 cd/lm 1 White ents:		45°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-S0	CLL02x/CLU02x (LES10) 36.0° 84 % 1.700 cd/lm 1 White ents: 0CKET-VERO13-18		8* 9* 7* 000 4* 000 4* 000 4* 000 100 100 100 100 100 100
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	CLL02x/CLU02x (LES10) 36.0° 84 % 1.700 cd/lm 1 White ents: 0CKET-VERO13-18		91 ⁴ 92 ⁴ 72 64 ⁵ 60 ⁶ 65 65 100



CITIZE	Ν	24*
LED	CLU700/701	
FWHM	31.0°	
Efficiency	77 %	
Peak intensity	1.800 cd/lm	
LEDs/each optic		
Light colour	White	ar ar
Required compor	nents:	
	DCKET-VERO13-18	$\times A \wedge X$
C12479_MIRE		100
Bender Wirth: 4	434 Typ L1	y" y" y
CITIZE	N	at at
LED	CLU700/701	
FWHM	26.0°	n:
Efficiency	83 %	
Peak intensity	2.400 cd/lm	61
LEDs/each optic		
Light colour	White	er et
Required compor		- 100
	DCKET-VERO13-18	
Bender Wirth:		
		72, 6, 12,
CITIZE	NT	
UTILL.		31*
		N4 N4
LED	CLU700/701 33.0°	20 ⁴
LED FWHM	CLU700/701	20 20 20 20 20 20 20 20 20 20 20 20 20 2
LED	CLU700/701 33.0°	92. 26. 26. 26. 26. 26. 26. 26. 26. 26. 2
LED FWHM Efficiency	CLU700/701 33.0° 88 % 1.900 cd/lm	9° - 90 - 9°
LED FWHM Efficiency Peak intensity	CLU700/701 33.0° 88 % 1.900 cd/lm	11. 12. 14. 15. 15. 15. 15. 15. 15. 15. 15
LED FWHM Efficiency Peak intensity LEDs/each optic	CLU700/701 33.0° 88 % 1.900 cd/lm 1 White	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	CLU700/701 33.0° 88 % 1.900 cd/lm 1 White hents:	9° 90 0° 00 0° 00 0° 0° 0° 0°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	CLU700/701 33.0° 88 % 1.900 cd/lm 1 White hents:	10° 10° 10° 10° 10° 10° 10° 10° 10° 10°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	CLU700/701 33.0° 88 % 1.900 cd/lm 1 White hents:	3, 100 X,
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-S0	CLU700/701 33.0° 88 % 1.900 cd/lm 1 White hents: DCKET	12. 0. N. 21. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-SC	CLU700/701 33.0° 88 % 1.900 cd/lm 1 White hents: DCKET N	Na. Na. 12. 0 13. 0 10. 10.
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-SC	CLU700/701 33.0° 88 % 1.900 cd/lm 1 White hents: DCKET N CLU700/701	34 30 34 30 36 30 36 30 36 30 36 30 37 30 38 30 39 30 39 30 36 30 37 30 38 30 39 30 30 30 31 30 32 30 33 30
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-SC CITTIZE LED FWHM	CLU700/701 33.0° 88 % 1.900 cd/lm 1 White hents: DCKET N CLU700/701 34.0°	30 30<
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-SC CITTIZE LED FWHM Efficiency	CLU700/701 33.0° 88 % 1.900 cd/lm 1 White nents: DCKET	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-SC CITIZE LED FWHM Efficiency Peak intensity	CLU700/701 33.0° 88 % 1.900 cd/lm 1 White nents: DCKET N CLU700/701 34.0° 81 % 1.800 cd/lm	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-SC CITIZE LED FWHM Efficiency Peak intensity LEDs/each optic	CLU700/701 33.0° 88 % 1.900 cd/lm 1 White nents: DCKET N CLU700/701 34.0° 81 % 1.800 cd/lm 1	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-SC CITIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	CLU700/701 33.0° 88 % 1.900 cd/lm 1 White nents: DCKET N CLU700/701 34.0° 81 % 1.800 cd/lm 1 White	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-SC CITTIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	CLU700/701 33.0° 88 % 1.900 cd/lm 1 White hents: DCKET N CLU700/701 34.0° 81 % 1.800 cd/lm 1 White hents: CLU700/701	71
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-SC CITTIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-SC	CLU700/701 33.0° 88 % 1.900 cd/lm 1 White hents: DCKET N CLU700/701 34.0° 81 % 1.800 cd/lm 1 White hents: DCKET	71
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-SC CITTIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	CLU700/701 33.0° 88 % 1.900 cd/lm 1 White hents: DCKET N CLU700/701 34.0° 81 % 1.800 cd/lm 1 White hents: DCKET	71
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-SC CITTIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-SC	CLU700/701 33.0° 88 % 1.900 cd/lm 1 White hents: DCKET N CLU700/701 34.0° 81 % 1.800 cd/lm 1 White hents: DCKET	71



CITIZE	N	34 ⁴ 24 ⁴
LED	CLU700/701	
FWHM	29.0°	
Efficiency	80 %	
Peak intensity	2.100 cd/lm	B1*
LEDs/each optic		
Light colour	White	ar / / ar
Required compor		$\times \Lambda \wedge \times$
	DCKET-VERO13-18	
C13333_MIRE		
Bender Wirth:		
		24. 12. 0, 12. 24.
CITIZE	N	
LED	CLU700/701	m m
FWHM	42.0°	$\sqrt{2}$
Efficiency	81 %	6° / **
Peak intensity	1.300 cd/lm	\times
LEDs/each optic		
Light colour	White	a
Required compor		
C13083_PF-S		
C13723_MIRE	LLA-RZL	120
		24
CITIZE	N	
	CLU700/701	
LED		
		n:
FWHM	39.0°	7 ²
Efficiency	39.0° 82 %	27. Qr
Efficiency Peak intensity	39.0° 82 % 1.400 cd/lm	27. 94. 94.
Efficiency Peak intensity LEDs/each optic	39.0° 82 % 1.400 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	39.0° 82 % 1.400 cd/lm 1 1 1 White 1	4°
Efficiency Peak intensity LEDs/each optic Light colour Required compor	39.0° 82 % 1.400 cd/lm 1 White tents:	9°
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-S0	39.0° 82 % 1.400 cd/lm 1 White tents: DCKET	17. 19. 19. 19. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10
Efficiency Peak intensity LEDs/each optic Light colour Required compor	39.0° 82 % 1.400 cd/lm 1 White tents: DCKET	27 - 29 29 29 29 29 - 29 - 29 - 29 - 29 -
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-S0	39.0° 82 % 1.400 cd/lm 1 White tents: DCKET	32° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-St C12479_MIRE	39.0° 82 % 1.400 cd/lm 1 White tents: DCKET LLA-DL	
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-St C12479_MIRE	39.0° 82 % 1.400 cd/lm 1 White Nents: DCKET LLA-DL	Net Net Net Net Net Net Net Net Net Net Net Net
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-S0 C12479_MIRE	39.0° 82 % 1.400 cd/lm 1 White vents: DCKET LLA-DL N CLU720/721	31. 32. 32. 33. 33. 33. 34. 36. 36. 94. 36. 94. 37. 96. 96. 94. 36. 94.
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-St C12479_MIRE	39.0° 82 % 1.400 cd/lm 1 White tents: DCKET LLA-DL N CLU720/721 44.0°	34. 36. 36. 36. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16.
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-St C12479_MIRE CITTIZE LED FWHM Efficiency	39.0° 82 % 1.400 cd/lm 1 White tents: DCKET LLA-DL N CLU720/721 44.0° 74 %	Bit. Bit. <th< th=""></th<>
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-S0 C12479_MIRE CI2479_MIRE EFICIENCY FWHM Efficiency Peak intensity	39.0° 82 % 1.400 cd/lm 1 White nents: DCKET LLA-DL N CLU720/721 44.0° 74 % 1.100 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-S0 C12479_MIRE CI2479_MIRE EFUTIZE LED FWHM Efficiency Peak intensity LEDs/each optic	39.0° 82 % 1.400 cd/lm 1 White nents: DCKET LLA-DL N CLU720/721 44.0° 74 % 1.100 cd/lm 1	71. Q ¹ .
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-S6 C12479_MIRE C12479_MIRE C12479_MIRE Efficiency Peak intensity LEDs/each optic Light colour	39.0° 82 % 1.400 cd/lm 1 White 1 wents: 0 DCKET 1 LA-DL 1 N 1 CLU720/721 44.0° 74 % 1.100 cd/lm 1 White	10. 00 94. 25. 00 96. 94. 36. 00 96. 94. 10. 00 96. 94. 10. 00 96. 94. 10. 00 96. 94. 10. 00 96. 94. 10. 00 96. 94. 10. 00 96. 94.
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-SC C12479_MIRE C12479_MIRE C12479_MIRE Efficiency Peak intensity LEDs/each optic Light colour Required compor	39.0° 82 % 1.400 cd/lm 1 1 White wents: OCKET DCKET LA-DL N CLU720/721 44.0° 74 % 1.100 cd/lm 1 White Image: Second S	71. Q ¹ .
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-St C12479_MIRE C12479_MIRE CITTIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-St	39.0° 82 % 1.400 cd/lm 1 White nents: DCKET LLA-DL N CLU720/721 44.0° 74 % 1.100 cd/lm 1 White nents: DCKET-VERO13-18	71. Q ¹ .
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-St C12479_MIRE C12479_MIRE CITTIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-St C12479_MIRE	39.0° 82 % 1.400 cd/lm 1 White hents: DCKET LLA-DL N CLU720/721 44.0° 74 % 1.100 cd/lm 1 White hents: DCKET-VERO13-18 LLA-DL	71. Q ¹ . 40. 11.
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-St C12479_MIRE C12479_MIRE CITTIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-St	39.0° 82 % 1.400 cd/lm 1 White hents: DCKET LLA-DL N CLU720/721 44.0° 74 % 1.100 cd/lm 1 White hents: DCKET-VERO13-18 LLA-DL	71



CITIZE	NT	
CITIZEI LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13709_PF-SC Bender Wirth: 4	CLU720/721 40.0° 81 % 1.400 cd/lm 1 White ents: 0CKET-VERO13-18	
CITIZEI LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13709_PF-SC C13333_MIREI Bender Wirth: 4	CLU720/721 43.0° 76 % 1.300 cd/lm 1 White ents: DCKET-VERO13-18 LA-CL	
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13761_PF-SC C13333_MIREI	CXA/B 13xx 42.0° 81 % 1.500 cd/lm 1 White ents: CCKET-CXA15	
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13761_PF-SC	CXA/B 13xx 37.0° 86 % 1.800 cd/lm 1 White ents:	2 ³ 2 ³ 2 ⁴ 2 ⁴



CREE ÷		24°
LED	CXA/B 13xx	
FWHM	43.0°	
Efficiency	81 %	
Peak intensity	1.400 cd/lm	
LEDs/each optic		
Light colour	White	45
Required compor		
	OCKET-CXA15	
C12479_MIRE		1000
		us' 0' is'
CREE ≑		50°
LED	CXA/B 15xx	
FWHM	37.0°	
Efficiency	79 %	
Peak intensity	1.600 cd/lm	
LEDs/each optic	1	
Light colour	White	e / / .
Required compor	nents:	
	OCKET-VERO13-18	
C13333_MIRE	LLA-CL	
Bender Wirth:	441 Typ L1	×
		15 th 0 th 15 th
CREE ÷		24 ⁴
LED	CXA/B 15xx	N, N,
LED FWHM	CXA/B 15xx 39.0°	N. N.
LED FWHM Efficiency	CXA/B 15xx 39.0° 75 %	21 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -
LED FWHM Efficiency Peak intensity	CXA/B 15xx 39.0° 75 % 1.300 cd/lm	81 - 24 - 24 - 24 - 24 - 24 - 24 - 24 - 2
LED FWHM Efficiency Peak intensity LEDs/each optic	CXA/B 15xx 39.0° 75 % 1.300 cd/lm 1	81
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	CXA/B 15xx 39.0° 75 % 1.300 cd/lm 1 White	dr. 90 dr.
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	CXA/B 15xx 39.0° 75 % 1.300 cd/lm 1 White hents:	8° 8° 8° 8° 8° 8° 8° 8° 8° 8°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-S0	CXA/B 15xx 39.0° 75 % 1.300 cd/lm 1 White hents: DCKET-VERO13-18	8°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-S0 C12479_MIRE	CXA/B 15xx 39.0° 75 % 1.300 cd/lm 1 White hents: DCKET-VERO13-18 LLA-DL	2* 20 10* 10* 10* 10* 10* 10* 10* 10* 10* 10
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-S0	CXA/B 15xx 39.0° 75 % 1.300 cd/lm 1 White hents: DCKET-VERO13-18 LLA-DL	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-St C12479_MIRE Bender Wirth: -	CXA/B 15xx 39.0° 75 % 1.300 cd/lm 1 White hents: DCKET-VERO13-18 LLA-DL 441 Typ L1	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-St C12479_MIRE Bender Wirth: 4	CXA/B 15xx 39.0° 75 % 1.300 cd/lm 1 White hents: DCKET-VERO13-18 LLA-DL 441 Typ L1	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-St C12479_MIRE Bender Wirth: 4	CXA/B 15xx 39.0° 75 % 1.300 cd/lm 1 White hents: DCKET-VERO13-18 LLA-DL 441 Typ L1 CXA/B 15xx	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-St C12479_MIRE Bender Wirth: -	CXA/B 15xx 39.0° 75 % 1.300 cd/lm 1 White hents: DCKET-VERO13-18 LLA-DL 441 Typ L1 CXA/B 15xx 46.0°	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-St C12479_MIRE Bender Wirth: 4 CREE LED FWHM Efficiency	CXA/B 15xx 39.0° 75 % 1.300 cd/lm 1 White hents: DCKET-VERO13-18 LLA-DL 441 Typ L1 CXA/B 15xx 46.0° 85 %	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-St C12479_MIRE Bender Wirth: CREE LED FWHM Efficiency Peak intensity	CXA/B 15xx 39.0° 75 % 1.300 cd/lm 1 White nents: DCKET-VERO13-18 LLA-DL 441 Typ L1 CXA/B 15xx 46.0° 85 % 1.400 cd/lm	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-St C12479_MIRE Bender Wirth: Ender Wirth: CREE ED FWHM Efficiency Peak intensity LEDs/each optic	CXA/B 15xx 39.0° 75 % 1.300 cd/lm 1 White nents: DCKET-VERO13-18 LLA-DL 441 Typ L1 CXA/B 15xx 46.0° 85 % 1.400 cd/lm 1	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-S0 C12479_MIRE Bender Wirth: - CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	CXA/B 15xx 39.0° 75 % 1.300 cd/lm 1 White hents: DCKET-VER013-18 LLA-DL 441 Typ L1 CXA/B 15xx 46.0° 85 % 1.400 cd/lm 1 White	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-St C12479_MIRE Bender Wirth: - CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	CXA/B 15xx 39.0° 75 % 1.300 cd/lm 1 White hents: DCKET-VER013-18 LLA-DL 441 Typ L1 CXA/B 15xx 46.0° 85 % 1.400 cd/lm 1 White hents:	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-SC C12479_MIRE Bender Wirth: • CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-SC	CXA/B 15xx 39.0° 75 % 1.300 cd/lm 1 White hents: DCKET-VER013-18 LLA-DL 441 Typ L1 CXA/B 15xx 46.0° 85 % 1.400 cd/lm 1 White hents: DCKET-CXA15	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-St C12479_MIRE Bender Wirth: - CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	CXA/B 15xx 39.0° 75 % 1.300 cd/lm 1 White hents: DCKET-VER013-18 LLA-DL 441 Typ L1 CXA/B 15xx 46.0° 85 % 1.400 cd/lm 1 White hents: DCKET-CXA15	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-SC C12479_MIRE Bender Wirth: • CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-SC	CXA/B 15xx 39.0° 75 % 1.300 cd/lm 1 White hents: DCKET-VER013-18 LLA-DL 441 Typ L1 CXA/B 15xx 46.0° 85 % 1.400 cd/lm 1 White hents: DCKET-CXA15	

PRODUCT DATASHEET



CREE ÷		24 ⁺
LED	CXA/B 15xx	
FWHM	34.0°	71 71
Efficiency	82 %	
Peak intensity	1.800 cd/lm	*
LEDs/each optic		\times
Light colour	White	ar X ar
Required compor		100
	DCKET-VERO13-18	$\times \Lambda \Lambda \times$
Bender Wirth: 4		101
	71	
		13 0 10
CREE \$	•	M
LED	CXA/B 15xx	
FWHM	41.0°	n:
Efficiency	90 %	
Peak intensity	1.400 cd/lm	9
LEDs/each optic		
Light colour	White	47. 417
Required compor		
C13761_PF-S0		
		13" 0" ""
CREE ÷		20 ⁴
LED	CXA/B 15xx	
FWHM	47.0°	2º
Efficiency	81 %	ar ar
Efficiency Peak intensity	81 % 1.200 cd/lm	ar ar
Efficiency Peak intensity LEDs/each optic	81 % 1.200 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	81 % 1.200 cd/lm 1 White	22 - 22 24 - 22 27 - 22 27 27 - 22 27 27 - 22 27 27 27 27 27 27 27 27 27 27 27
Efficiency Peak intensity LEDs/each optic Light colour Required compor	81 % 1.200 cd/lm 1 White ents:	22
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-SC	81 % 1.200 cd/lm 1 White ents: DCKET-CXA15	21 27 24 28 29 26 29 27 26 29 26 29 26 29 26 29 26 29 26 29 26 29 27 27 27 27 27 27 27 27 27 27 27 27 27
Efficiency Peak intensity LEDs/each optic Light colour Required compor	81 % 1.200 cd/lm 1 White ents: DCKET-CXA15	27 27 28 28 28 29 28 28 20 28 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 2
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-SC	81 % 1.200 cd/lm 1 White ents: DCKET-CXA15	
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-S0 C13723_MIRE	81 % 1.200 cd/lm 1 White ents: DCKET-CXA15 _LA-RZL	30 34 137 137 137 137 137 137 137 137 137 137
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-SC C13723_MIRE	81 % 1.200 cd/lm 1 White ents: DCKET-CXA15 _LA-RZL	
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-SC C13723_MIREI	81 % 1.200 cd/lm 1 White ents: DCKET-CXA15 _LA-RZL CXA/B 15xx	30 34 137 137 137 137 137 137 137 137 137 137
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-SC C13723_MIRE CREE LED FWHM	81 % 1.200 cd/lm 1 White ents: DCKET-CXA15 LA-RZL CXA/B 15xx 47.0°	30 34 137 137 137 137 137 137 137 137 137 137
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-SC C13723_MIRE CREE LED FWHM Efficiency	81 % 1.200 cd/lm 1 White ents: DCKET-CXA15 _LA-RZL CXA/B 15xx 47.0° 85 %	300 314 137 0 314 317 317 317 317 317 317 317 317 317 317
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-SC C13723_MIRE CT3723_MIRE EFD FWHM Efficiency Peak intensity	81 % 1.200 cd/lm 1 White ents: DCKET-CXA15 _LA-RZL CXA/B 15xx 47.0° 85 % 1.200 cd/lm	300 314 137 0 314 317 317 317 317 317 317 317 317 317 317
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-SC C13723_MIRE C13723_MIRE EFUE EED FWHM Efficiency Peak intensity LEDs/each optic	81 % 1.200 cd/lm 1 White ents: DCKET-CXA15 LA-RZL CXA/B 15xx 47.0° 85 % 1.200 cd/lm 1	300 314 137 0 314 317 317 317 317 317 317 317 317 317 317
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-SC C13723_MIREI	81 % 1.200 cd/lm 1 White ents: DCKET-CXA15 _LA-RZL CXA/B 15xx 47.0° 85 % 1.200 cd/lm 1 White	34 137 0 34
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-SC C13723_MIREI	81 % 1.200 cd/lm 1 White ents: DCKET-CXA15 _LA-RZL CXA/B 15xx 47.0° 85 % 1.200 cd/lm 1 White ents:	34 137 0 34
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-SC C13723_MIREI CREE ED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-SC	81 % 1.200 cd/lm 1 White ents: DCKET-CXA15 _LA-RZL CXA/B 15xx 47.0° 85 % 1.200 cd/lm 1 White ents: DCKET-CXA15	34 137 0 34
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-SC C13723_MIREI	81 % 1.200 cd/lm 1 White ents: DCKET-CXA15 _LA-RZL CXA/B 15xx 47.0° 85 % 1.200 cd/lm 1 White ents: DCKET-CXA15	300 314 137 0 314 317 317 317 317 317 317 317 317 317 317
Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-SC C13723_MIRE CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-SC	81 % 1.200 cd/lm 1 White ents: DCKET-CXA15 _LA-RZL CXA/B 15xx 47.0° 85 % 1.200 cd/lm 1 White ents: DCKET-CXA15	30 34 137 137 137 137 137 137 137 137 137 137

PRODUCT DATASHEET



CREE C LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor IDEAL: 50-210	CXA/B 1816 & CXA/B 1820 & CXA 1850 43.0° 87 % 1.370 cd/lm 1 White	
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C14115_PF-S0	CXA/B 1816 & CXA/B 1820 & CXA 1850 45.0° 84 % 1.300 cd/lm 1 White	
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-S0 C13723_MIRE	MHD-E/G 45.0° 82 % 1.100 cd/lm 1 White hents: DCKET	94 95 95 95 95 95 95 95 95 95 95 95 95 95
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-S0 C12479_MIRE	MHD-E/G 45.0° 84 % 1.200 cd/lm 1 White hents: DCKET	24 00 00 00 00 00 00 00 00 00 00 00 00 00

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CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13083_PF-SC	MHD-E/G 38.0° 38.0° 39 % 1.500 cd/lm 1 1 White ents:	
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13083_PF-SC C13333_MIRE	MHD-E/G 44.0° 84 % 1.300 cd/lm 1 White ents: OCKET	29 ¹ 29 ² 29 ²
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13083_PF-SC C12479_MIRE	MK-R 34.0° 80 % 1.660 cd/lm 1 White ents: DCKET	20 ¹ 20
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13083_PF-SC	MK-R 30.0° 85 % 2.100 cd/lm 1 White ents:	



CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-SC	MT-G 48.0° 90 % 1.400 cd/lm 1 White hents:	
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-SC C12479_MIRE	MT-G 52.0° 86 % 1.200 cd/lm 1 White hents: DCKET	
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-SC C13333_MIRE	MT-G 52.0° 86 % 1.200 cd/lm 1 White hents: DCKET	
CREE¢ LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-SC C12479_MIRE	MT-G2 51.0° 87 % 1.200 cd/lm 1 White hents: DCKET	

PRODUCT DATASHEET

C13087_MIRELLA-50-W-PF

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CREE ÷	-		
LED	MT-G2		
FWHM	50.0°		
Efficiency	87 %		
•			
Peak intensity	1.200 cd/lm		
LEDs/each optic			
Light colour	White		
Required compor			
C13083_PF-S			
C13333_MIRE	LLA-OL		
CREE ÷			
	MT-G2		
FWHM	46.0°		
Efficiency	91 %		
Peak intensity	0.800 cd/lm		
LEDs/each optic			
Light colour	White		
Required compor			
C13083_PF-S0	UCKET		
CREE \$			50 ⁴
LED	XHP50		
FWHM	39.0°		n:
Efficiency	81 %		$\times \square$
Peak intensity	1.500 cd/lm		9°
LEDs/each optic			
Light colour	White		454 42
Required compor			
C13083_PF-S			12m
C13333_MIRE			
010000_1011112			
			34° 15° 160 15° St
CREE ÷			20 ⁺
LED	XHP50	the second s	
FWHM	38.0°	A REAL PROPERTY AND A REAL	
Efficiency	80 %		
Peak intensity	1.300 cd/lm	CONTRACTOR OF	
LEDs/each optic			
Light colour	White	A DESCRIPTION OF THE OWNER OF THE	er v
Required compor			
C13083_PF-S			
C13723_MIRE			100
0.0.20_mm(E			
			2 ⁸⁷ 23 ¹⁰ 0 ⁴ 23 ¹⁰

PRODUCT DATASHEET



CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13083_PF-SC C12479_MIREI	XHP50 39.0° 82 % 1.400 cd/lm 1 White ents: OCKET	3, 12, 6, 23, 2, 12, 2, 12, 2, 12, 2, 12, 12, 12, 12
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13083_PF-SC	XHP50 33.0° 33.0° 1000000000000000000000000000000000000	31 13 22 24 Xt
FWHM Efficiency	XHP70 42.0° 81 % 1.300 cd/lm 1 White ents: OCKET	
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13083_PF-SC	XHP70 39.0° 39.0° 40.00000000000000000000000000000000000	



CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13083_PF-SC C13723_MIRE	XHP70 44.0° 79 % 1.200 cd/lm 1 White ents: OCKET	24. 15. 15. 15. 16. 16. 16. 16. 16. 16. 16. 16
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13083_PF-SC C12479_MIRE	XHP70 43.0° 81 % 1.300 cd/lm 1 White ents: DCKET	
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13083_PF-SC C13723_MIREI	XM-L RGB 41.0° 80 % 1.300 cd/lm 1 White ents: OCKET	
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13083_PF-SC C13723_MIRE	XQ-E HI 42.0° 87 % 1.380 cd/lm 4 RGBW ents: DCKET	



🔁 LG Innot	ek de la
LED	COB 4W
FWHM	44.0°
Efficiency	83 %
Peak intensity	1.400 cd/lm
LEDs/each optic	1
	White
Required compon	ients:
C13083_PF-SC	DCKET
C12479_MIREL	LLA-DL
🔁 LG Innot	ek
LED	COB 4W
FWHM	40.0°
Efficiency	83 %
Peak intensity	1.600 cd/lm
LEDs/each optic	
Light colour	White
Required compon	
C13083_PF-SC	
C13333_MIREL	
_	
🕒 LG Innot	
LED	COB 4W
FWHM	38.0°
	89 %
Peak intensity	1.700 cd/lm
LEDs/each optic	
Light colour	White
Required compon	
C13083_PF-SC	JCKET
	EDS
	LUXEON CoB 1202/1203
FWHM	37.0°
Efficiency	87 %
Peak intensity	1.700 cd/lm
LEDs/each optic	
	White
Required compon	
	0NC +50-2100MR
	34
	13" Ø 21

PRODUCT DATASHEET

C13087_MIRELLA-50-W-PF

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PHOTOMETRIC DATA (MEASURED):

UMIL	EDS	24 ⁴ 24 ⁴
LED	LUXEON CoB 1202/1203	
FWHM	40.0°	
Efficiency	75 %	
Peak intensity	1.300 cd/lm	6°
LEDs/each optic		
Light colour	White	or or
Required compor		
	DCKET-VERO13-18	
C12479_MIRE		
Bender Wirth: 4	38 Typ L1	y"
	EDS	
LED	LUXEON CoB 1202/1203	
FWHM	39.0°	7"
Efficiency	86 %	
Peak intensity	1.600 cd/lm	50°
LEDs/each optic		
Light colour	White	er le
Required compor	ents:	
C14037_PF-N	SX-SOCKET	
		se s
		13 ¹ 0 ⁴ 13 ⁴
		201 ⁴
LED	LUXEON CoB 1202/1203	n:
FWHM	39.0°	
Efficiency	80 %	6*
Peak intensity	1.500 cd/lm	
LEDs/each optic		
Light colour	White	
Required compor		
C13333_MIRE	LA-CL DNC +50-2100MR	200
IDEAL. 50-210	JNC +50-2100MIR	
		34' <u>36</u> 38' 34'
		24.
LED	LUXEON CoB 1202/1203	
FWHM	41.0°	
Efficiency	81 %	60°
Peak intensity	1.400 cd/lm	$\times / / \times \times$
LEDs/each optic		
Light colour	White	4" A
Required compor	ents:	
C12479_MIRE	ents: _LA-DL	
C12479_MIRE	ents:	- 109
C12479_MIRE	ents: _LA-DL	

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	EDS		M4. M4
LED	LUXEON CoB 1202/1203		
FWHM	35.0°		n' n'
Efficiency	83 %		
Peak intensity	1.700 cd/lm		
LEDs/each optic	1		
Light colour	White		e Ve
Required compor	ents:		100
	OCKET-VERO13-18		
Bender Wirth: 4	38 Typ L1		
	EDS		at a star
LED	LUXEON CoB 1202/1203		
FWHM	37.0°		n:
Efficiency	77 %		\times
Peak intensity	1.500 cd/lm		0* V 0*
LEDs/each optic			
Light colour	White		
Required compor			
	OCKET-VERO13-18		3300
C13333_MIRE			
Bender Wirth: 4			
			100 D3 D3
	EDS	and the second se	
LED	LUXEON CoB 1202s		
FWHM	41.0°		
Efficiency	82 %		
Peak intensity	1.500 cd/lm		
LEDs/each optic			
Light colour	White		
Required compor			
C13761_PF-S0			
C13333_MIRE	LA-CL		
	EDS		
LED		and the second se	
FWHM	LUXEON CoB 1202s 35.0°		
Efficiency	88 %		
Peak intensity	1.900 cd/lm		
LEDs/each optic			
Light colour	White		
Required compor			
C13761_PF-S0			



		-		-	
UMIL	EDS				9°
LED	LUXEON CoB 1202s				
FWHM	28.0°			6	
Efficiency	81 %				
Peak intensity	2.200 cd/lm				
LEDs/each optic	1				
Light colour	White				4° / / e
Required compor	nents:				A and A
C13709_PF-S0	DCKET-VERO13-18				
C13333_MIRE	LLA-CL				
Bender Wirth:	452 Typ L1				3 ¹ 13 ⁵ 0 ⁰ 3 ¹
	EDS				51 X
LED	LUXEON CoB 1202s				
FWHM	32.0°				
Efficiency	77 %				
Peak intensity	1.600 cd/lm				
LEDs/each optic					
Light colour	White				ar / / a
Required compor	nents:				20
	OCKET-VERO13-18				$ A^{\ast} A $
C12479_MIRE					
Bender Wirth:					
				l.	13" 0" 13"
	EDS				
	EDS LUXEON CoB 1202s		and the second se		
			and the second s		
LED	LUXEON CoB 1202s				
LED FWHM	LUXEON CoB 1202s 40.0°				
LED FWHM Efficiency	LUXEON CoB 1202s 40.0° 82 % 1.500 cd/lm				
LED FWHM Efficiency Peak intensity	LUXEON CoB 1202s 40.0° 82 % 1.500 cd/lm				
LED FWHM Efficiency Peak intensity LEDs/each optic	LUXEON CoB 1202s 40.0° 82 % 1.500 cd/lm 1 White				
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1202s 40.0° 82 % 1.500 cd/lm 1 White nents:				
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	LUXEON CoB 1202s 40.0° 82 % 1.500 cd/lm 1 White nents: DCKET-CXA15				
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-S0	LUXEON CoB 1202s 40.0° 82 % 1.500 cd/lm 1 White nents: DCKET-CXA15				
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-S0 C12479_MIRE	LUXEON CoB 1202s 40.0° 82 % 1.500 cd/lm 1 White hents: DCKET-CXA15 LLA-DL				××
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-SC C12479_MIRE	LUXEON CoB 1202s 40.0° 82 % 1.500 cd/lm 1 White hents: DCKET-CXA15 LLA-DL EDS LUXEON CoB 1202s				97
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-SC C12479_MIRE	LUXEON CoB 1202s 40.0° 82 % 1.500 cd/lm 1 White hents: DCKET-CXA15 LLA-DL EDS LUXEON CoB 1202s 25.0°				»'
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-SC C12479_MIRE	LUXEON CoB 1202s 40.0° 82 % 1.500 cd/lm 1 White hents: DCKET-CXA15 LLA-DL EDS LUXEON CoB 1202s 25.0° 85 %				21 12 14 14 15 16 16
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-SC C12479_MIRE	LUXEON CoB 1202s 40.0° 82 % 1.500 cd/lm 1 White hents: DCKET-CXA15 LLA-DL EDS LUXEON CoB 1202s 25.0° 85 % 2.600 cd/lm				21
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-SC C12479_MIRE	LUXEON CoB 1202s 40.0° 82 % 1.500 cd/lm 1 White nents: DCKET-CXA15 LLA-DL EDS LUXEON CoB 1202s 25.0° 85 % 2.600 cd/lm 1				9. 9.
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-SC C12479_MIRE	LUXEON CoB 1202s 40.0° 82 % 1.500 cd/lm 1 White nents: DCKET-CXA15 LLA-DL EDS LUXEON CoB 1202s 25.0° 85 % 2.600 cd/lm 1 White				24° - 200 - 44
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-S0 C12479_MIRE	LUXEON CoB 1202s 40.0° 82 % 1.500 cd/lm 1 White nents: DCKET-CXA15 LLA-DL EDS LUXEON CoB 1202s 25.0° 85 % 2.600 cd/lm 1 White nents:				9° - 00 - 00
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-S0 C12479_MIRE	LUXEON CoB 1202s 40.0° 82 % 1.500 cd/lm 1 White nents: DCKET-CXA15 LLA-DL EDS LUXEON CoB 1202s 25.0° 85 % 2.600 cd/lm 1 White nents: DCKET-VERO13-18				9° - 00 - 00
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-S0 C12479_MIRE	LUXEON CoB 1202s 40.0° 82 % 1.500 cd/lm 1 White nents: DCKET-CXA15 LLA-DL EDS LUXEON CoB 1202s 25.0° 85 % 2.600 cd/lm 1 White nents: DCKET-VERO13-18				9° - 00 - 00
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13761_PF-S0 C12479_MIRE	LUXEON CoB 1202s 40.0° 82 % 1.500 cd/lm 1 White nents: DCKET-CXA15 LLA-DL EDS LUXEON CoB 1202s 25.0° 85 % 2.600 cd/lm 1 White nents: DCKET-VERO13-18				9° - 00 - 00



PHOTOMETRIC DATA (MEASURED):

Image: Constraint of the second se
FWHM 36.0° Efficiency 79 % Peak intensity 1.500 cd/lm LEDs/each optic 4 Light colour RGBW Required components: C13083_PF-SOCKET C13083_PF-SOCKET 00 C13723_MIRELLA-RZL 00 IED CXM-6 FWHM 36.0° Efficiency 85 % Peak intensity 1.800 cd/lm LEDs/each optic 1 Light colour White
Efficiency 79 % Peak intensity 1.500 cd/lm LEDs/each optic 4 Light colour RGBW Required components: C13083_PF-SOCKET C13723_MIRELLA-RZL LED CXM-6 FWHM 36.0° Efficiency 85 % Peak intensity 1.800 cd/lm LEDs/each optic 1 Light colour White
Peak intensity 1.500 cd/lm LEDs/each optic 4 Light colour RGBW Required components: C13083_PF-SOCKET C13723_MIRELLA-RZL LED CXM-6 FWHM 36.0° Efficiency 85 % Peak intensity 1.800 cd/lm LEDs/each optic 1 Light colour White
LEDs/each optic 4 Light colour RGBW Required components: C13083_PF-SOCKET C13723_MIRELLA-RZL C13723_MIRELLA-RZL LED CXM-6 FWHM 36.0° Efficiency 85 % Peak intensity 1.800 cd/lm LEDs/each optic 1 Light colour White
Light colour RGBW Required components: C13083_PF-SOCKET C13723_MIRELLA-RZL
Required components: C13083_PF-SOCKET C13723_MIRELLA-RZL LED CXM-6 FWHM 36.0° Efficiency 85 % Peak intensity 1.800 cd/lm LEDs/each optic 1 Light colour White
C13083_PF-SOCKET C13723_MIRELLA-RZL
C13083_PF-SOCKET C13723_MIRELLA-RZL
Image: Second
LED CXM-6 FWHM 36.0° Efficiency 85 % Peak intensity 1.800 cd/lm LEDs/each optic 1 Light colour White
LED CXM-6 FWHM 36.0° Efficiency 85 % Peak intensity 1.800 cd/lm LEDs/each optic 1 Light colour White
FWHM 36.0° Efficiency 85 % Peak intensity 1.800 cd/lm LEDs/each optic 1 Light colour White
Efficiency 85 % Peak intensity 1.800 cd/lm LEDs/each optic 1 Light colour White
Peak intensity 1.800 cd/lm LEDs/each optic 1 Light colour White
LEDs/each optic 1 Light colour White
Light colour White
Poquirod componente:
C13083_PF-SOCKET
X00
3° (13° (10° (10° (10° (10° (10° (10° (10° (10
LED CXM-7
FWHM 38.0°
Efficiency 86 %
Peak intensity 1.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
Required components: C13083_PF-SOCKET
C13083_PF-SOCKET

Last update: 24/01/2019Subject to change without prior noticePublished: 03/05/2018LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.25/42



LUMINUS ** LED CXM-9 FWHM 49.0°	
7'	21
FWHM 49.0°	
Efficiency 83 %	
Peak intensity 1.100 cd/lm	
LEDs/each optic 1	
Light colour White	
Required components:	
C13083_PF-SOCKET	
C12479_MIRELLA-DL	
	133
	° 13'
	\wedge
LED CXM-9 FWHM 44.0°	
Efficiency 88 % Peak intensity 1.300 cd/lm	A A
LEDs/each optic 1	
Light colour White	800 10
Required components:	
C13083_PF-SOCKET	
	1200
	0 ⁴ 13 ⁴
LED CXM-9	\wedge
FWHM 48.0°	
Efficiency 83 %	
Efficiency 83 % Peak intensity 1.200 cd/lm	
Efficiency 83 % Peak intensity 1.200 cd/lm LEDs/each optic 1	
Efficiency 83 % Peak intensity 1.200 cd/lm LEDs/each optic 1 Light colour White	90
Efficiency 83 % Peak intensity 1.200 cd/lm LEDs/each optic 1	
Efficiency 83 % Peak intensity 1.200 cd/lm LEDs/each optic 1 Light colour White Required components:	990 - 60° 990 - 60°
Efficiency 83 % Peak intensity 1.200 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET	90 00 00 00 00 00 00 00 00 00 00 00 00 0
Efficiency 83 % Peak intensity 1.200 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET C13333_MIRELLA-CL	00 00 00 00 00 00 00 00 00 00 00 00 00
Efficiency 83 % Peak intensity 1.200 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET C13333_MIRELLA-CL	200 00 00 00 00 00 00 00 00 00 00 00 00
Efficiency 83 % Peak intensity 1.200 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET C13333_MIRELLA-CL COB L-Type (LES 11)	00 00 00 00 00 00 00 00 00 00 00 00 00
Efficiency 83 % Peak intensity 1.200 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET C13333_MIRELLA-CL COB L-Type (LES 11) FWHM 46.0°	00 00 00 00 00 00 00 00 00 00 00 00 00
Efficiency 83 % Peak intensity 1.200 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET C13333_MIRELLA-CL COB L-Type (LES 11) FWHM 46.0° Efficiency 75 %	40 40 40 40 40 40 40 40 40 40
Efficiency 83 % Peak intensity 1.200 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET C13333_MIRELLA-CL COB L-Type (LES 11) FWHM 46.0° Efficiency 75 % Peak intensity 1.100 cd/lm	*** *** *** *** *** *** *** *** ***
Efficiency 83 % Peak intensity 1.200 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET C13333_MIRELLA-CL COB L-Type (LES 11) FWHM 46.0° Efficiency 75 % Peak intensity 1.100 cd/lm LEDs/each optic 1	40 40 40 40 40 40 40 40 40 40
Efficiency 83 % Peak intensity 1.200 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET C13333_MIRELLA-CL COB L-Type (LES 11) FWHM 46.0° Efficiency 75 % Peak intensity 1.100 cd/lm LEDs/each optic 1 Light colour White	*** *** *** ***
Efficiency 83 % Peak intensity 1.200 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET C13333_MIRELLA-CL COB L-Type (LES 11) FWHM 46.0° Efficiency 75 % Peak intensity 1.100 cd/lm LEDs/each optic 1 Light colour White Required components:	*** *** *** ***
Efficiency 83 % Peak intensity 1.200 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET C13333_MIRELLA-CL COB L-Type (LES 11) FWHM 46.0° Efficiency 75 % Peak intensity 1.100 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18	*** *** *** ***
Efficiency 83 % Peak intensity 1.200 cd/m LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET C13333_MIRELLA-CL COB L-Type (LES 11) FWHM 46.0° Efficiency 75 % Peak intensity 1.100 cd/m LEDs/each optic 1 Light colour White Required components:	*** *** *** ***

PRODUCT DATASHEET



AV		
ØNICHIA		a•a*
LED	COB L-Type (LES 11)	
FWHM	41.0°	$\sim \sim ~$
Efficiency	81 %	w / / w
Peak intensity	1.400 cd/lm	$\Gamma \times / \Gamma \to \Lambda \times 1$
LEDs/each optic	1	
Light colour	White	a
Required compor		
	DCKET-VERO13-18	
Bender Wirth: 4	438 Typ L1	
		*** *** ***
ØNICHIA		20 ⁴
LED	COB L-Type (LES 11)	
FWHM	47.0°	
Efficiency	81 %	
Peak intensity	1.200 cd/lm	
LEDs/each optic	1	X/N X
Light colour	White	49°
Required compor	nents:	800
C13333_MIRE	LLA-CL	
IDEAL: 50-210	0NC +50-2100MR	
		24 <u>220</u> 24
WNICHIA		24 ⁴
		<u>at</u>
	COB L-Type (LES 11) 46.0°	31 ⁴ 31 ⁴
LED	COB L-Type (LES 11)	
LED FWHM	COB L-Type (LES 11) 46.0°	21 21 21 21 21 21 21 21 21 21 21 21 21 2
LED FWHM Efficiency	COB L-Type (LES 11) 46.0° 80 % 1.200 cd/lm	81 72 90 90 91
LED FWHM Efficiency Peak intensity	COB L-Type (LES 11) 46.0° 80 % 1.200 cd/lm	91 72 91 91 90 90 91 91 91 91 91 91 91 91 91 91 91 91 91
LED FWHM Efficiency Peak intensity LEDs/each optic	COB L-Type (LES 11) 46.0° 80 % 1.200 cd/lm 1 White	11 12 12 12 12 12 12 12 12 12 12 12 12 1
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	COB L-Type (LES 11) 46.0° 80 % 1.200 cd/lm 1 White thents:	91 91 72 91 91 91 91 91 91 91 91 91 91 91 91 91 9
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C12479_MIRE	COB L-Type (LES 11) 46.0° 80 % 1.200 cd/lm 1 White thents:	91 94 72 94 94 94 96 96
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C12479_MIRE	COB L-Type (LES 11) 46.0° 80 % 1.200 cd/lm 1 White nents: LLA-DL	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C12479_MIRE	COB L-Type (LES 11) 46.0° 80 % 1.200 cd/lm 1 White hents: LLA-DL ONC +50-2100MR	M1 M2 M2 M2 M3 M3
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C12479_MIREI IDEAL: 50-210	COB L-Type (LES 11) 46.0° 80 % 1.200 cd/lm 1 White hents: LLA-DL ONC +50-2100MR	300 310 310 0 0 0 0 0 0 0 0 0 0 0 0 0 0
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C12479_MIREI IDEAL: 50-2100	COB L-Type (LES 11) 46.0° 80 % 1.200 cd/lm 1 White hents: LLA-DL ONC +50-2100MR COB L-Type (LES 11)	300 310 310 0 0 0 0 0 0 0 0 0 0 0 0 0 0
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C12479_MIREI IDEAL: 50-2100	COB L-Type (LES 11) 46.0° 80 % 1.200 cd/lm 1 White hents: LLA-DL ONC +50-2100MR COB L-Type (LES 11) 45.0°	300 310 310 0 0 0 0 0 0 0 0 0 0 0 0 0 0
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C12479_MIRE IDEAL: 50-2100	COB L-Type (LES 11) 46.0° 80 % 1.200 cd/lm 1 White hents: LLA-DL ONC +50-2100MR COB L-Type (LES 11) 45.0° 77 %	300 310 310 0 0 0 0 0 0 0 0 0 0 0 0 0 0
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C12479_MIRE IDEAL: 50-2100	COB L-Type (LES 11) 46.0° 80 % 1.200 cd/lm 1 White nents: LLA-DL ONC +50-2100MR COB L-Type (LES 11) 45.0° 77 % 1.200 cd/lm	90 91 137 0 0 137 0 137 137 137 137
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C12479_MIRE IDEAL: 50-2100 WICHIA LED FWHM Efficiency Peak intensity LEDs/each optic	COB L-Type (LES 11) 46.0° 80 % 1.200 cd/lm 1 White nents: LLA-DL ONC +50-2100MR COB L-Type (LES 11) 45.0° 77 % 1.200 cd/lm 1	90 91 137 0 0 137 0 137 137 137 137
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C12479_MIRE IDEAL: 50-2100 WICHIA LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	COB L-Type (LES 11) 46.0° 80 % 1.200 cd/lm 1 White nents: LLA-DL ONC +50-2100MR COB L-Type (LES 11) 45.0° 77 % 1.200 cd/lm 1 White	34 35 6 34 54
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C12479_MIREI IDEAL: 50-2100 WICHIA LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	COB L-Type (LES 11) 46.0° 80 % 1.200 cd/lm 1 White nents: LLA-DL ONC +50-2100MR COB L-Type (LES 11) 45.0° 77 % 1.200 cd/lm 1 White nents:	34 35 6 34 54
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C12479_MIREI IDEAL: 50-2100 WICHIA LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-SC	COB L-Type (LES 11) 46.0° 80 % 1.200 cd/lm 1 White nents: LLA-DL ONC +50-2100MR COB L-Type (LES 11) 45.0° 77 % 1.200 cd/lm 1 White nents: DCKET-VERO13-18	34 ¹ 13 ¹ 0 ⁴ 3 ⁴
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C12479_MIREI IDEAL: 50-2100 WICHIA LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	COB L-Type (LES 11) 46.0° 80 % 1.200 cd/lm 1 White nents: LLA-DL ONC +50-2100MR COB L-Type (LES 11) 45.0° 77 % 1.200 cd/lm 1 White nents: DCKET-VERO13-18 LLA-CL	34 ¹ 13 ¹ 0 ⁴ 3 ⁴

PRODUCT DATASHEET



ØNICHIA		+
LED	COB L-Type (LES 11)	
FWHM	43.0°	
Efficiency	86 %	
Peak intensity	1.400 cd/lm	
LEDs/each optic		
Light colour	White	45°
Required compor	nents:	
IDEAL: 50-210	0NC +50-2100MR	
		94
ØNICHIA		13° 0° 2°
		94 [*] 94 [*]
	COB L-Type (LES 11)	n: n'
FWHM	46.0°	
Efficiency Book intensity	84 % 1.260 cd/lm	9° / _ **
Peak intensity		$\times / / \times$
LEDs/each optic Light colour	White	
Required compor		
C14037_PF-N		
	SA-SOURET	
		124
		* / *
		157 0° 15'
ØNICHIA		N4 N4
		N ⁴ N ⁴
NICHIA LED FWHM	COB L-Type (LES 9) 40.0°	
LED FWHM	COB L-Type (LES 9)	
LED FWHM Efficiency	COB L-Type (LES 9) 40.0°	01 01 01 01 01 01 01 01 01 01 01 01 01 0
LED FWHM	COB L-Type (LES 9) 40.0° 76 % 1.300 cd/lm	
LED FWHM Efficiency Peak intensity	COB L-Type (LES 9) 40.0° 76 % 1.300 cd/lm	
LED FWHM Efficiency Peak intensity LEDs/each optic	COB L-Type (LES 9) 40.0° 76 % 1.300 cd/lm 1 White	IN 0° N° 0° 0° 0° 0° 0° 0° 0° 0° 0°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-S0	COB L-Type (LES 9) 40.0° 76 % 1.300 cd/lm 1 White nents: DCKET-VERO13-18	137 0° 13 ⁴
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-S0 C12479_MIRE	COB L-Type (LES 9) 40.0° 76 % 1.300 cd/lm 1 White hents: DCKET-VERO13-18 LLA-DL	13" 0" 13"
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-S0	COB L-Type (LES 9) 40.0° 76 % 1.300 cd/lm 1 White hents: DCKET-VERO13-18 LLA-DL	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-St C12479_MIRE Bender Wirth: 4	COB L-Type (LES 9) 40.0° 76 % 1.300 cd/lm 1 White hents: DCKET-VERO13-18 LLA-DL 438 Typ L1	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-S0 C12479_MIRE	COB L-Type (LES 9) 40.0° 76 % 1.300 cd/lm 1 White hents: DCKET-VERO13-18 LLA-DL 438 Typ L1	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-St C12479_MIRE Bender Wirth: 4	COB L-Type (LES 9) 40.0° 76 % 1.300 cd/lm 1 White hents: DCKET-VERO13-18 LLA-DL 438 Typ L1	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-St C12479_MIRE Bender Wirth: 4	COB L-Type (LES 9) 40.0° 76 % 1.300 cd/lm 1 White hents: DCKET-VERO13-18 LLA-DL 438 Typ L1 COB L-Type (LES 9)	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-St C12479_MIRE Bender Wirth: 4 MICHIA LED FWHM	COB L-Type (LES 9) 40.0° 76 % 1.300 cd/lm 1 White hents: DCKET-VERO13-18 LLA-DL 438 Typ L1 COB L-Type (LES 9) 38.0°	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-St C12479_MIRE Bender Wirth: 4 WICHIA LED FWHM Efficiency	COB L-Type (LES 9) 40.0° 76 % 1.300 cd/lm 1 White hents: DCKET-VERO13-18 LLA-DL 438 Typ L1 COB L-Type (LES 9) 38.0° 81 % 1.500 cd/lm	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-S0 C12479_MIRE Bender Wirth: A MICHIA LED FWHM Efficiency Peak intensity	COB L-Type (LES 9) 40.0° 76 % 1.300 cd/lm 1 White hents: DCKET-VERO13-18 LLA-DL 438 Typ L1 COB L-Type (LES 9) 38.0° 81 % 1.500 cd/lm	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-St C12479_MIRE Bender Wirth: -	COB L-Type (LES 9) 40.0° 76 % 1.300 cd/lm 1 White nents: DCKET-VER013-18 LLA-DL 438 Typ L1 COB L-Type (LES 9) 38.0° 81 % 1.500 cd/lm 1 White	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-St C12479_MIRE Bender Wirth: MICHIA LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	COB L-Type (LES 9) 40.0° 76 % 1.300 cd/lm 1 White nents: DCKET-VER013-18 LLA-DL 438 Typ L1 COB L-Type (LES 9) 38.0° 81 % 1.500 cd/lm 1 White nents:	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-S0 C12479_MIRE Bender Wirth: C12479_MIRE Bender Wirth: C12479_MIRE Bender Wirth: C12479_MIRE Bender Wirth: C12479_MIRE	COB L-Type (LES 9) 40.0° 76 % 1.300 cd/lm 1 White nents: DCKET-VER013-18 LLA-DL 438 Typ L1 COB L-Type (LES 9) 38.0° 81 % 1.500 cd/lm 1 White nents:	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13709_PF-S0 C12479_MIRE Bender Wirth: C12479_MIRE Bender Wirth: C12479_MIRE Bender Wirth: C12479_MIRE Bender Wirth: C12479_MIRE	COB L-Type (LES 9) 40.0° 76 % 1.300 cd/lm 1 White nents: DCKET-VERO13-18 LLA-DL 438 Typ L1 COB L-Type (LES 9) 38.0° 81 % 1.500 cd/lm 1 White nents: LLA-CL	

PRODUCT DATASHEET



ØNICHIA		54 ⁺
LED	COB L-Type (LES 9)	
FWHM	39.0°	n
Efficiency	80 %	50°
Peak intensity	1.400 cd/lm	X / X
LEDs/each optic		
Light colour	White	
Required compor		
C12479_MIRE		3200
IDEAL: 50-210	DNC +50-2100MR	
		34
WNICHIA		34 ⁴
LED	COB L-Type (LES 9)	
FWHM	34.0°	71
Efficiency	84 %	ar ar
Peak intensity	1.800 cd/lm	
LEDs/each optic		
Light colour	White	d*
Required compor		
	OCKET-VERO13-18	
Bender Wirth: 4	138 TYP L1	
		3 ¹ , 0, 23, 31, 31, 31, 31, 31, 31, 31, 31, 31, 3
WNICHIA		M*
LED	COB L-Type (LES 9)	
FWHM	35.0°	
Efficiency	87 %	er v
Peak intensity	1.800 cd/lm	
LEDs/each optic		
Light colour	White	a. 1500
Required compor		
IDEAL: 50-210	DNC +50-2100MR	
		3° 0° 23' 3°
<i>M</i>NICHIA		3H*
LED	COB L-Type (LES 9)	n:
FWHM	38.0°	
Efficiency	86 %	9° / / / / / / / / / / / / / / / / / / /
Peak intensity	1.640 cd/lm	
LEDs/each optic		
Light colour	White	
Required compor		200
C14037_PF-NS	GX-SUCKET	
		Level Level
		34° (***) (***



MNICHIA		34°
LED	COB L-Type (LES 9)	71
FWHM	37.0°	
Efficiency	79 %	ar se
Peak intensity	1.500 cd/lm	
LEDs/each optic		
0	White	er #t
Required compon		1200
	OCKET-VERO13-18	
C13333_MIREL		
Bender Wirth: 4	38 Typ L1	21, 0, 22, 24, <u>100</u> 3,
ØNICHIA		81 N
LED	NSCxL036A	
FWHM	34.0°	- dol
Efficiency	85 %	se se
Peak intensity	1.880 cd/lm	
LEDs/each optic		
Light colour	White	45°
Required compon		
C14037_PF-NS	X-SOCKET	sen j
		5* <u>800</u> 5*
OSRAM Opto Semiconductors		
LED	Duris S10	
FWHM	45.0°	
Efficiency	80 %	
Peak intensity	1.300 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compon		I
C13083_PF-SC		
C13723_MIREL	LA-RZL	
OSRAM		1
Opto Semiconductors		
LED	Duris S10	
FWHM	45.0°	
Efficiency	79 %	
Peak intensity	1.300 cd/lm	
LEDs/each optic		
Light colour	White	
Required compon C13083_PF-SC		-
C13083_PF-SC C12479_MIREL		



OSRAM Opto Semiconductors		
	Duris S10	
	38.0°	
	87 %	
	1.700 cd/lm	
LEDs/each optic		
	White	
Required compon		
C13083_PF-SC		
C13003_FF-3C		
OSRAM Opto Semiconductors		
	Duris S10	
FWHM	43.0°	
Efficiency	%	
Peak intensity	cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compon	ents:	
C13083_PF-SC	CKET	
C13333_MIREL		
OSRAM Opto Semiconductors		
	OSTAR Stage (S2WP)	
FWHM	36.0°	
	83 %	
	1.600 cd/lm	
LEDs/each optic		
	White	
Required compon		
C13083_PF-SC		
C13723 MIREI	I A-R7I	
C13723_MIREL	LA-RZL	
	LA-RZL	
C13723_MIREL		10 ⁴
OSRAM Opto Semiconductors LED	Ostar-SMT RGB	
OSRAM Opto Semiconductors		<u>31</u> 21 21 21 21 21 21 21 21 21 21 21 21 21
OSRAM Opto Semiconductors LED FWHM	Ostar-SMT RGB	
OSRAM Pate Semiconductors LED FWHM Efficiency	Ostar-SMT RGB 37.0°	
OSRAM Dato Semiconductors LED FWHM Efficiency	Ostar-SMT RGB 37.0° 81 % 1.500 cd/lm	
OSRAM Onto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic	Ostar-SMT RGB 37.0° 81 % 1.500 cd/lm	
OSRAM Onto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic	Ostar-SMT RGB 37.0° 81 % 1.500 cd/lm 1 White	
OSRAM Outo Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	Ostar-SMT RGB 37.0° 81 % 1.500 cd/lm 1 White ents:	
OSRAM Outo Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13083_PF-SC	Ostar-SMT RGB 37.0° 81 % 1.500 cd/lm 1 White ents: ICKET	
OSRAM Outo Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	Ostar-SMT RGB 37.0° 81 % 1.500 cd/lm 1 White ents: ICKET	

PRODUCT DATASHEET



SEOUL SEMICONDUCTOR		20 ⁴
LED	ZC4/6	
FWHM	42.0°	77
Efficiency	86 %	
Peak intensity	1.400 cd/lm	$^{\circ} \times / / \wedge \times ^{\circ}$
LEDs/each optic		
Light colour	White	41° 41°
Required compor	nents:	
C13083_PF-S0	DCKET	2200
		* / / /*
		a" , g _a a'
SEOUL SEMICONDUCTOR		2H*
LED	ZC4/6	n'
FWHM	46.0°	$1 \rightarrow 7$
Efficiency	80 %	ar ie
Peak intensity	1.300 cd/lm	
LEDs/each optic		
Light colour	White	a, w w
Required compor		
C13083_PF-S0		$\times \Lambda = \Lambda \times$
C13333_MIRE	LLA-CL	1 201
		ye
3201		56° 26°
SEOUL SEMICONDUCTOR	704/6	Nt Nt
SEQUE SEMICONDUCTOR	ZC4/6 48.0°	8 ^t 7 ^t 7 ^t
seoul semiconductor LED FWHM	48.0°	8 ⁴ 71 72
seoul sewiconductor LED FWHM Efficiency	48.0° 81 %	8*
scoul semiconductor LED FWHM Efficiency Peak intensity	48.0° 81 % 1.200 cd/lm	21 21 21 21 21 21 21 21 21 21 21 21 21 2
scoul staticonductor LED FWHM Efficiency Peak intensity LEDs/each optic	48.0° 81 % 1.200 cd/lm 1	22 22 04 07 09 00 00 00 00 00 00
stoul staticonductor LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	48.0° 81 % 1.200 cd/lm 1 White	91 92 72 64 99 10 10 10 10 10
stout staticonductor LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	48.0° 81 % 1.200 cd/lm 1 White hents:	94 94 72 64 96 64 65 65 66 66 66 65 66 65
stout staticonductor LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-S0	48.0° 81 % 1.200 cd/lm 1 White hents: DCKET	54 54 72 66 64 67 66 64
stout staticonductor LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	48.0° 81 % 1.200 cd/lm 1 White hents: DCKET	3. 3. 4. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5
stout.stmconductor LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-S0 C12479_MIRE	48.0° 81 % 1.200 cd/lm 1 White hents: DCKET LLA-DL	3* 3* 3* 3* 4*
STOLL SEMICONDUCTOR LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-SC C12479_MIRE	48.0° 81 % 1.200 cd/lm 1 White hents: DCKET LLA-DL RPP	3* 3*<
stout stateconductor LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-St C12479_MIRE	48.0° 81 % 1.200 cd/lm 1 White hents: DCKET LLA-DL RPP Mini Zenigata (GW6BM)	2. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0
STOUL SEMICONDUCTOR LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-SC C12479_MIRE	48.0° 81 % 1.200 cd/lm 1 White nents: DCKET LLA-DL RPP Mini Zenigata (GW6BM) 46.0°	3, 3, 4, 6, 9, 9, 9, 9, 9, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
stoul staticonductor LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-S0 C12479_MIRE SHAA LED FWHM Efficiency	48.0° 81 % 1.200 cd/lm 1 White nents: DCKET LLA-DL Mini Zenigata (GW6BM) 46.0° 81 %	2, 1, 4, 6, 6, 7, 6, 7, 7, 6, 7, 7, 6, 7, 7, 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7
stout stateonouron LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-S0 C12479_MIRE SHAA LED FWHM Efficiency Peak intensity	48.0° 81 % 1.200 cd/lm 1 White nents: DCKET LLA-DL Mini Zenigata (GW6BM) 46.0° 81 % 1.300 cd/lm	3* 3* 4* 4* 0* 0* 0* 0* 0* 0* 0* 0* 0* 0
stout stateonouron LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-S0 C12479_MIRE SHAA LED FWHM Efficiency Peak intensity LEDs/each optic	48.0° 81 % 1.200 cd/lm 1 White hents: DCKET LLA-DL	3* 3* 4* 4* 5* 5* 5* 5* 5* 5* 5* 5* 5* 5
stour, semiconduction LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-S0 C12479_MIRE SHAA LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	48.0° 81 % 1.200 cd/lm 1 White hents: DCKET LLA-DL	3* 3* 3*
stout stateconductor LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-SC C12479_MIRE SHAA LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	48.0° 81 % 1.200 cd/lm 1 White hents: DCKET LLA-DL	
stour stateconductor LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-SC C12479_MIRE SHAA LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-SC	48.0° 81 % 1.200 cd/lm 1 White hents: DCKET LLA-DL	
stout stateconductor LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-SC C12479_MIRE SHAA LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	48.0° 81 % 1.200 cd/lm 1 White hents: DCKET LLA-DL	

PRODUCT DATASHEET



SHA LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-St	Mini Zenigata (GW6BM) 38.0° 88 % 1.500 cd/lm 1 White hents:	94 94 94 96 96 96 96 96 96 96 96 96 96
SHA LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-St C12479_MIRE	Mini Zenigata (GW6BM) 45.0° 81 % 1.100 cd/lm 1 White hents: DCKET	
TRIDON LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-St	SLE G5 LES11 45.0° 87 % 1.320 cd/lm 1 White nents:	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13083_PF-St	SLE G5 LES6 35.0° 88 % 1.760 cd/lm 1 White nents:	131' 0' 31' 9' - - 9' - - 9' - - 9' - - 9' - - 9' - - 9' - -

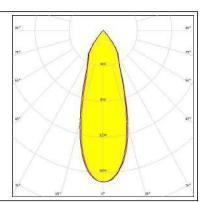


PHOTOMETRIC DATA (MEASURED):

XICATO

LED	XTM - 9mm LES
FWHM	35.0°
Efficiency	83 %
Peak intensity	1.700 cd/lm
LEDs/each optic	1
Light colour	White
Required compor	ients:
C14636_XTM-I	PF-ADAPTER







PRODUCT DATASHEET

C13087_MIRELLA-50-W-PF

PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

 LED
 LUXEON CoB Compact

 FWHM
 25.0°

 Efficiency
 85 %

 Peak intensity
 2.600 cd/lm

 LEDs/each optic
 1

 Light colour
 Whit

 Required components
 C13709_PF-SOCKET-VERO13-18

 Bender Wirth: 452 Typ L1

LUMILEDS

LED LUXEON CoB Compact FWHM 41.0° Efficiency 82 % Peak intensity 1.500 cd/lm LEDs/each optic 1 Light colour White Required components: C13761_PF-SOCKET-CXA15 C13333_MIRELLA-CL

UMILEDS

LED LUXEON CoB Compact FWHM 35.0° Efficiency 88 % Peak intensity 1.900 cd/lm LEDs/each optic 1 Light colour White Required components: C13761_PF-SOCKET-CXA15

LUMILEDS

 LED
 LUXEON CoB Compact

 FWHM
 40.0°

 Efficiency
 82 %

 Peak intensity
 1.500 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 C13761_PF-SOCKET-CXA15

 C12479_MIRELLA-DL
 Feast State



PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

 LED
 LUXEON CoB Compact

 FWHM
 32.0°

 Efficiency
 77 %

 Peak intensity
 1.600 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components
 C13709_PF-SOCKET-VERO13-18

 C12479_MIRELLA-DL
 Bender Wirth: 452 Typ L1

LUMILEDS

LED LUXEON CoB Compact FWHM 37.0° 77 % Efficiency Peak intensity 1.500 cd/lm LEDs/each optic 1 White Light colour Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL Bender Wirth: 452 Tv . .

Bender Wirth:	452 Typ L1	
	EDS	M4
LED	LUXEON K4	
FWHM	46.0°	
Efficiency	88 %	
Peak intensity	1.260 cd/lm	
LEDs/each optic	1	
Light colour	White	4° 40
Required compor	nents:	
C13761_PF-S	OCKET-CXA15	
		(E)
		× / ×
		13° (° 13°
UMIL	EDS	art
LED	LUXEON K4	
FWHM	54.0°	72 - 20 - 20
Efficiency	83 %	
Peak intensity	0.870 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compor	nents:	
	OCKET-CXA15	
C12479_MIRE	LLA-DL	
		10 ¹ 0 ⁴ 20 ¹

PRODUCT DATASHEET



PRODUCT DATASHEET

C13087_MIRELLA-50-W-PF

PHOTOMETRIC DATA (SIMULATED):

ELUMINUS

ELUMINUS

 LED
 CXM-14

 FWHM
 49.0°

 Efficiency
 75 %

 Peak intensity
 1.000 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 C13709_PF-SOCKET-VERO13-18

 Bender Wirth: 433 Typ L1

ELUMINUS

 LED
 CXM-9

 FWHM
 36.0°

 Efficiency
 84 %

 Peak intensity
 1.700 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 C13709_PF-SOCKET-VERO13-18

 Bender Wirth: 434 Typ L1

ELUMINUS

 LED
 CXM-9

 FWHM
 39.0°

 Efficiency
 78 %

 Peak intensity
 1.500 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 C13709_PF-SOCKET-VERO13-18

 C13333_MIRELLA-CL
 Bender Wirth: 434 Typ L1



PRODUCT DATASHEET

C13087_MIRELLA-50-W-PF

PHOTOMETRIC DATA (SIMULATED):

ELUMINUS

LED CXM-9 FWHM 41.0° Efficiency 76 % Peak intensity 1.300 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL Bender Wirth: 434 Typ L1

WNICHIA

LED COB S-Type (LES 7) FWHM 28.0° Efficiency 81 % Peak intensity 2.200 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL Bender Wirth: 452 Typ L1

ØNICHIA

LED COB S-Type (LES 7) FWHM 25.0° Efficiency 85 % Peak intensity 2.600 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 452 Typ L1

WNICHIA

 LED
 COB S-Type (LES 7)

 FWHM
 32.0°

 Efficiency
 77 %

 Peak intensity
 1.600 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 C13709_PF-SOCKET-VERO13-18

 C12479_MIRELLA-DL
 Bender Wirth: 452 Typ L1



PHOTOMETRIC DATA (SIMULATED):

OSRAM Opto Semiconductors		24* 24*
LED	Soleriq S15	
FWHM	56.0°	n n
Efficiency	86 %	
Peak intensity	1.081 cd/lm	8°
LEDs/each optic 1		
	hite	e la
Required component		
C13709_PF-SOC		
Bender Wirth: 433		
		13 ¹
OSRAM Opto Semiconductors		26*
LED	Soleriq S9	
FWHM	51.0°	
Efficiency	85 %	erer
Peak intensity	1.200 cd/lm	
LEDs/each optic 1		
Light colour W	hite	er i e
Required component	S:	
C13083_PF-SOCH	KET	
C12479_MIRELLA	I-DL	
		3* 129 X*
		13" 0" 23"
OSRAM Opto Semiconductors		19 ⁴
OSRAM Opto Semiconductors LED	Soleriq S9	22 [°] 0 [°] 23 [°]
Opto Semiconductors	Soleriq S9 46.0°	Na N
Dpto Semiconductors LED FWHM		20 ² 2 ⁴ 3 ²
Dato Semiconductors LED FWHM Efficiency	46.0°	21 ² 2 ⁴ 23 ⁴
Opto Semiconductors LED FWHM Efficiency Peak intensity	46.0° 91 %	21 ² 2 ⁴ 13 ⁴
Osto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic 1	46.0° 91 %	10° - 86 - 10°
Osto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic 1	46.0° 91 % 1.400 cd/lm hite	11 ² 2 ² 13 ² 11 ² 2 ² 13 ² 11 ² 2 ² 13 ² 11 ² 12 ² 12 ² 11 ² 12 ² 12 ² 11 ²
Osto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour W	46.0° 91 % 1.400 cd/lm hite s:	10° - 000 - 00° -
Osto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour W Required component	46.0° 91 % 1.400 cd/lm hite s:	21 ² 2 ² 12 ⁴ 12 ⁴
Osto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour W Required component	46.0° 91 % 1.400 cd/lm hite s:	27 ² 2 ⁴ 10 ⁴
Osto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour W/ Required component C13083_PF-SOCH	46.0° 91 % 1.400 cd/lm hite s:	
Osto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour Wi Required component C13083_PF-SOCH	46.0° 91 % 1.400 cd/lm hite s:	Bit Dit 11 12 10 10 12 10 10 10 13 10 10 10 14 10 10 10 15 10 10 10
Osto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour W/ Required component C13083_PF-SOCH	46.0° 91 % 1.400 cd/lm hite s: KET	
Osto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour Wi Required component C13083_PF-SOCH	46.0° 91 % 1.400 cd/lm hite s:	
Osto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour Wr Required component C13083_PF-SOCH OstoBemiconductors LED FWHM	46.0° 91 % 1.400 cd/lm hite s: KET Soleriq S9 38.0°	
Osto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour Wi Required component C13083_PF-SOCH Osto Semiconductors LED FWHM Efficiency	46.0° 91 % 1.400 cd/lm hite s: KET Soleriq S9 38.0° 88 %	
Osto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour Wi Required component C13083_PF-SOCH Osto Semiconductors LED FWHM Efficiency Peak intensity	46.0° 91 % 1.400 cd/lm hite s: KET Soleriq S9 38.0°	
Outo Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour Wi Required component C13083_PF-SOCH OSRAM Outo Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic 1	46.0° 91 % 1.400 cd/lm hite s: KET Soleriq S9 38.0° 88 %	
Outo Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour Wi Required component C13083_PF-SOCH OSTAN Opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour Wi	46.0° 91 % 1.400 cd/lm hite s: KET Soleriq S9 38.0° 88 % 1.700 cd/lm hite	10° 10° 10° 10° 10° 10° 10° 10°
Outo Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour Wi Required component C13083_PF-SOCH Oste Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour Wi Required component	46.0° 91 % 1.400 cd/lm hite s: KET Soleriq S9 38.0° 88 % 1.700 cd/lm hite s:	
Outo Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour Wi Required component C13083_PF-SOCH OSTAN Opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour Wi	46.0° 91 % 1.400 cd/lm hite s: KET Soleriq S9 38.0° 88 % 1.700 cd/lm hite s:	
Outo Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour Wi Required component C13083_PF-SOCH Oste Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour Wi Required component	46.0° 91 % 1.400 cd/lm hite s: KET Soleriq S9 38.0° 88 % 1.700 cd/lm hite s:	



PHOTOMETRIC DATA (SIMULATED):

OSRAM Outo Beniconductors LED Soleriq S9 FWHM 50.0° Efficiency 85 % Peak intensity 1.200 cd/lm	24.4
LED Soleriq S9 FWHM 50.0° Efficiency 85 %	
FWHM 50.0° Efficiency 85 %	
Efficiency 85 %	- n;
	X
LEDs/each optic 1	
Light colour White	A.
Required components:	
C13083_PF-SOCKET	
C13723_MIRELLA-RZL	
13° Ø	21
OSRAM Dato Semiconductors	DI.*
LED Soleriq S9	1-
FWHM 52.0°	~ ~
Efficiency 85 %	
Peak intensity 1.100 cd/lm	17
LEDs/each optic 1	
Light colour White) er
Required components:	
C13083_PF-SOCKET	
C13333_MIRELLA-CL	
y	x
	n*
SAMSUNG -	Di *
LED LC010C	A m
FWHM 32.0°	
Efficiency 87 %	H
Efficiency 87 % Peak intensity 2.200 cd/lm	H
Efficiency 87 % Peak intensity 2.200 cd/lm LEDs/each optic 1	H.
Efficiency 87 % Peak intensity 2.200 cd/lm LEDs/each optic 1 Light colour White	H.
Efficiency 87 % Peak intensity 2.200 cd/lm LEDs/each optic 1 Light colour White Required components:	er er
Efficiency 87 % Peak intensity 2.200 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VER013-18	80
Efficiency 87 % Peak intensity 2.200 cd/lm LEDs/each optic 1 Light colour White Required components:	
Efficiency 87 % Peak intensity 2.200 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18	94 10 10
Efficiency 87 % Peak intensity 2.200 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 479 Typ L1	81 NC
Efficiency 87 % Peak intensity 2.200 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 479 Typ L1	10 ¹
Efficiency 87 % Peak intensity 2.200 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 479 Typ L1	27 27 27 27 27 27 27 27 27 27 27 27 27 2
Efficiency 87 % Peak intensity 2.200 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 479 Typ L1 SAMSUNG LED LC020C FWHM 35.0°	10 10 10 10 10 10 10 10 10 10 10 10 10 1
Efficiency 87 % Peak intensity 2.200 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 479 Typ L1 SAMSUNG LED LC020C FWHM 35.0° Efficiency 86 %	94 94 94
Efficiency 87 % Peak intensity 2.200 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 479 Typ L1 SAMSUNG LED LC020C FWHM 35.0° Efficiency 86 % Peak intensity 1.900 cd/lm	84 84 84 84 84
Efficiency 87 % Peak intensity 2.200 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 479 Typ L1 SAMSUNG LED LC020C FWHM 35.0° Efficiency 86 % Peak intensity 1.900 cd/lm LEDs/each optic 1	lin Bi Bi Bi
Efficiency 87 % Peak intensity 2.200 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 479 Typ L1 SAMSUNG LED LC020C FWHM 35.0° Efficiency 86 % Peak intensity 1.900 cd/lm LEDs/each optic 1 Light colour White Hereit Colour White LED LC020C FWHM 35.0° Efficiency 86 % Peak intensity 1.900 cd/lm LEDs/each optic 1 Light colour White Hereit Colour Colour White Hereit Colour Colour White Hereit Colour Co	10 10 10 10 10 10 10 10 10 10 10 10 10 1
Efficiency 87 % Peak intensity 2.200 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 479 Typ L1 SAMSUNG LED LC020C FWHM 35.0° Efficiency 86 % Peak intensity 1.900 cd/lm LEDs/each optic 1 Light colour White Required components:	10 10 10 10 10 10 10 10 10 10 10 10 10 1
Efficiency 87 % Peak intensity 2.200 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 479 Typ L1 SAMSUNG LED LC020C FWHM 35.0° Efficiency 86 % Peak intensity 1.900 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18	81 81 81 81 81 81 81 81 81 81 81 81 81 8
Efficiency 87 % Peak intensity 2.200 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 479 Typ L1 SAMSUNG LED LC020C FWHM 35.0° Efficiency 86 % Peak intensity 1.900 cd/lm LEDs/each optic 1 Light colour White Required components:	10 10 10 10 10 10 10 10 10 10 10 10 10 1



PHOTOMETRIC DATA (SIMULATED):

SAMSUN	IG		24*	
				\land
LED	LC040C		20	
FWHM	42.0°		$\sim \sim$	
Efficiency	84 %		ы• <u> </u>	
Peak intensity	1.400 cd/lm		$-\times/1$	
LEDs/each optic 1			1 ML	L K N
•	hite		2 / /	
Required componen				
C13709_PF-SOC				
Bender Wirth: 480	Typ L1			
			34	e a'
SEOUL SEMICONDUCTOR				
LED	ZC4/6			
FWHM	36.0°			
Efficiency	84 %			
Peak intensity	04 % 1.700 cd/lm			
LEDs/each optic 1				
	'hite			
Required componen				
C13709_PF-SOC				
	Turn 1 1			
Bender Wirth: 434	Typ L1			
	Typ L1			
Sender Wirth: 434	- Typ L1			
aar	ZC4/6		 	
CORD		 	 	
SEQUIN SEMICONDUCTOR	ZC4/6	 		
scoul samiconductor LED FWHM Efficiency	ZC4/6 39.0°	 		
stoul stimiconductor LED FWHM Efficiency Peak intensity	ZC4/6 39.0° 78 %			
stour stancomouctor LED FWHM Efficiency Peak intensity LEDs/each optic 1	ZC4/6 39.0° 78 %			
stour swicowouctoo LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour W	ZC4/6 39.0° 78 % 1.500 cd/lm			
stour stwicowouctow LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour W Required componen	ZC4/6 39.0° 78 % 1.500 cd/lm /hite ts:			
stour sanconoucton LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour W Required componen C13709_PF-SOCI	ZC4/6 39.0° 78 % 1.500 cd/lm 'hite ts: KET-VERO13-18			
stour stwicowouctow LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour W Required componen	ZC4/6 39.0° 78 % 1.500 cd/lm 'hite ts: KET-VERO13-18 A-CL			
stour searcoactive LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour W Required componen C13709_PF-SOCI C13333_MIRELLA	ZC4/6 39.0° 78 % 1.500 cd/lm 'hite ts: KET-VERO13-18 A-CL			
STOUL SEMICOMOLICTOR LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour W Required componen C13709_PF-SOCI C13333_MIRELL/ Bender Wirth: 434	ZC4/6 39.0° 78 % 1.500 cd/lm /hite ts: KET-VERO13-18 A-CL Typ L1			
STOUL SEMICONDUCTOR LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour W Required componen C13709_PF-SOCI C13333_MIRELL/ Bender Wirth: 434	ZC4/6 39.0° 78 % 1.500 cd/lm 'hite ts: KET-VERO13-18 A-CL Typ L1 ZC4/6			
STOUL SEMICONDUCTOR LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour W Required componen C13709_PF-SOCI C13333_MIRELL/ Bender Wirth: 434	ZC4/6 39.0° 78 % 1.500 cd/lm /hite ts: KET-VERO13-18 A-CL - Typ L1 ZC4/6 41.0°			
STOUL SEMICONDUCTOR LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour W Required componen C13709_PF-SOCI C13333_MIRELLA Bender Wirth: 434	ZC4/6 39.0° 78 % 1.500 cd/lm hite ts: KET-VERO13-18 A-CL Typ L1 ZC4/6 41.0° 76 %			
STOUL SEMICONDUCTOR LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour W Required componen C13709_PF-SOCI C13333_MIRELL/ Bender Wirth: 434	ZC4/6 39.0° 78 % 1.500 cd/lm /hite ts: KET-VERO13-18 A-CL - Typ L1 ZC4/6 41.0°			
STOUL SEMICONDUCTOR LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour W Required componen C13709_PF-SOCI C13333_MIRELL/ Bender Wirth: 434	ZC4/6 39.0° 78 % 1.500 cd/lm hite ts: KET-VERO13-18 A-CL Typ L1 ZC4/6 41.0° 76 % 1.300 cd/lm			
STOUL SEMICONDUCTOR LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour W Required componen C13709_PF-SOCI C13333_MIRELL/ Bender Wirth: 434	ZC4/6 39.0° 78 % 1.500 cd/lm hite ts: KET-VERO13-18 A-CL Typ L1 ZC4/6 41.0° 76 % 1.300 cd/lm hite			
STOUL SPINCONDUCTOR LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour W Required componen C13709_PF-SOCI C13333_MIRELLA Bender Wirth: 434 STOUL SPINCONDUCTOR LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour W Required componen	ZC4/6 39.0° 78 % 1.500 cd/lm hite ts: KET-VERO13-18 A-CL Typ L1 ZC4/6 41.0° 76 % 1.300 cd/lm hite ts:			
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STOUL SPINCONDUCTOR LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour W Required componen C13709_PF-SOCI C13333_MIRELLA Bender Wirth: 434 STOUL SPINCONDUCTOR LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour W Required componen	ZC4/6 39.0° 78 % 1.500 cd/lm hite ts: KET-VERO13-18 A-CL Typ L1 ZC4/6 41.0° 76 % 1.300 cd/lm hite ts: KET-VERO13-18			



GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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