

PRODUCT DATASHEET C13087_MIRELLA-50-W-PF

MIRELLA-50-W-PF

~40° wide beam

SPECIFICATION:

Dimensions	Ø 49.9 mm
Height	24 mm
Fastening	socket
ROHS compliant	yes 🛈



MATERIALS:

Component	
MIRELLA-50-W-PF	

Type Reflector **Material** PC

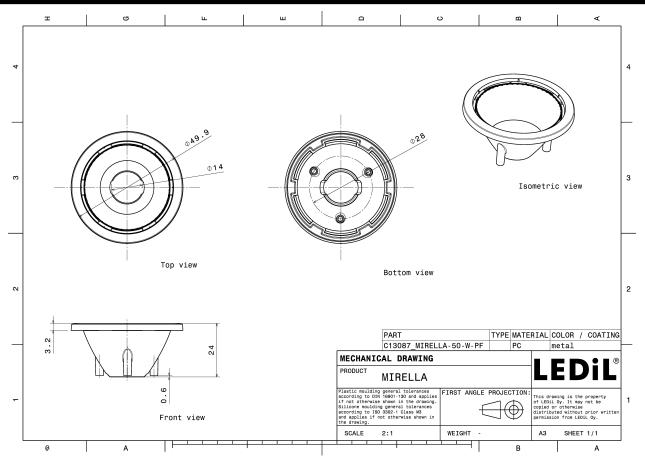
Colour	Finish	Coating
metal		lacquer

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C13087_MIRELLA-50-W-PF	336	112	28	2.8
» Box size: 480 x 280 x 300 mm				



PRODUCT DATASHEET C13087_MIRELLA-50-W-PF



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



LED VI0 Gen6 FWHM / FWTM 39.0° / 73.0° Fildency 86 % Peak intensity 1.5.cd/m LED/seach optic 1 LED/seach optic 1 LED/seach optic 1 LED/seach optic 1 LED V10 Gen7 FVHM / FWTM 35.0° / 76.0° Efficiency 84 % Peak intensity 1.7.cd/m LED/seach optic 1 Light colour White Required components: C13709_PF-SOCKET-VER013-18 C13709_PF-SOCKET-VER013-18 C13709_PF-SOCKET-VER013-18 C13709_PF-SOCKET-VER013-18 Fildency 77 % Peak intensity 1.3.cd/m LED/seach optic 1 Light colour White Required components: C13709_PF-SOCKET-VER013-18 Fildency 77 % Peak intensity 1.3.cd/m LED/seach optic 1 Light colour White Required components: C13709_PF-SOCKET-VER013-18 Fildency 77 % Peak intensity 1.3.cd/m LED/seach optic 1 Light colour White Required components: C13709_PF-SOCKET-VER013-18 C13709_PF-SOCKET-VER013-18 C13709_PF-SOCKET-VER013-18 Fildency 77 % Fildency 77 % Filde				
LED V10 Gen7 FWHM / FWTM 35.0° / 76.0° Efficiency 44 % Peak Intensity 1.7 cd/m LEDS/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C13709_PF-SOCKET-VERO13-18 C13709_PF-SOCKET-VERO13-18 C12709_PF-SOCKET-VERO13-18 C12709_PF-SOCKET-VERO13-18 C12709_PF-SOCKET-VERO13-18 C12709_PF-SOCKET-VERO13-18 C12709_PF-SOCKET-VERO13-18 C12709_PF-SOCKET-VERO13-18 C12709_PF-SOCKET-VERO13-18 C12709_PF-SOCKET-VERO13-18 C12709_PF-SOCKET-VERO13-18 C12709_PF-SOCKET-VERO13-18 C12709_PF-SOCKET-VERO13-18 C12709_PF-SOCKET-VERO13-18 C12709_PF-SOCKET-VERO13-18 C12709_PF-SOCKET-VERO13-18 C12709_PF-SOCKET-VERO13-18 C12709_PF-SOCKET-VERO13-18 C12709_PF-SOCKET-VERO13-18 C13709_PF-SOCKET-VERO13-18		39.0° / 79.0° 86 % 1.5 cd/lm 1 White ints:		
LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C13709_PF-SOCKET-VERO13-18 C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C13709_PF-SOCKET-VERO13-18 C12709_PF-SOCKET-VERO13-18 C12709_PF-SOCKET-VERO13-18 C12709_PF-SOCKET-VERO13-18 C12709_PF-SOCKET-VERO13-18 C13709_PF-SOCKET-VERO13-18 C13709_PF-SOCKET-VERO13-18 C13709_PF-SOCKET-VERO13-18 C13709_PF-SOCKET-VERO13-18 C13709_PF-SOCKET-VERO13-18 C13709_PF-SOCKET-VERO13-18 C13709_PF-SOCKET-VERO13-18 C13709_PF-SOCKET-VERO13-18 C13709_PF-SOCKET-VERO13-18 C13709_PF-SOCKET-VERO13-18 C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL	bridgelux. LED FWHM / FWTM Efficiency	35.0° / 76.0° 84 %		33. 33. 39. 39. 39. 39. 39. 39. 39. 39.
LED V10 Gen7 FWHM / FWTM 40.0° / 75.0° Efficiency 77 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL Efficiency 79 % Peak intensity 1.5 cd/m LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL	LEDs/each optic Light colour Required compone	1 White ints:		
LED V10 Gen7 FWHM / FWTM 40.0° / 75.0° Efficiency 77 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL Efficiency 79 % Peak intensity 1.5 cd/m LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL	bridgelux			90°
Efficiency 77 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VER013-18 C12479_MIRELLA-DL C12479_MIRELLA-DL C10 Gen7 FWHM / FWTM 39.0° / 73.0° Efficiency 79 % Peak intensity 1.5 cd/m LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VER013-18 C13333_MIRELLA-CL	LED	V10 Gen7		
Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C13709_PF-SOCKET-VERO13-18 C13709_PF-SOCKET-VERO13-18 C13709_PF-SOCKET-VERO13-18 C13709_PF-SOCKET-VERO13-18 C13739_MIRELLA-CL	FWHM / FWTM			
LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL	Efficiency			60° 60°
Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-CL C12479_MIRELLA-CL				$ \times / / \setminus \times$
Required components: C13709_PF-SOCKET-VER013-18 C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL C12479_MIRELLA-DL				9°
C13709_PF-SOCKET-VER013-18 C12479_MIRELLA-DL				
LED V10 Gen7 FWHM / FWTM 39.0° / 73.0° Efficiency 79 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL	C13709_PF-SO	CKET-VERO13-18		30° 157° 0° 157° 36°
LED V10 Gen7 FWHM / FWTM 39.0° / 73.0° Efficiency 79 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL	bridgelux			50° 50°
FWHM / FWTM 39.0° / 73.0° Efficiency 79 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL	LED	V10 Gen7		
Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL	FWHM / FWTM			23.
LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL	Efficiency			60° 60°
Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL				
Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL				a7
C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL				
C13333_MIRELLA-CL				



bridgelux.			90*
LED	V6 Gen6		
FWHM / FWTM	44.0° / 78.0°		73* 75*
Efficiency	81 %		400
Peak intensity	1.3 cd/lm		60*
LEDs/each optic	1		$ \times / / \times $
Light colour	White	and the second	az. az.
Required component			
C13761_PF-SO			
C12479_MIRELI			
			1200 30° 30°
			15 ⁵ 0 ⁶ 35 ⁵
bridgelux.			90° 90°
LED	V6 Gen6		75
FWHM / FWTM	44.0° / 77.0°		
Efficiency	81 %		60° 400 50°
Peak intensity	1.3 cd/lm		
LEDs/each optic	1		
Light colour	White		45°
Required compone			
C13761_PF-SO			
C13333_MIRELI	_A-CL		1200
			30° 13° 0° 13° 30°
bridgelux.			
LED	V6 Gen6		
FWHM / FWTM	27.0° / 76.0°		
Efficiency	82 %		
Peak intensity	2.7 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required compone	nts:		
C13709_PF-SO	CKET-VERO13-18		
Bender Wirth: 46	60 Typ L1		
bridgelux.			
LED	V6 Gen6		
FWHM / FWTM	31.0° / 72.0°		
Efficiency	74 %		
Peak intensity	2.1 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required compone			
	CKET-VERO13-18		
C12479_MIRELI			
Bender Wirth: 46			



bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SO			90 ⁴ 90 ⁴ 9
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO C12479_MIREL Bender Wirth: 44	CKET-VERO13-18 LA-DL		
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SO			30° - 00 30° -
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SO C12479_MIREL	CKET-CXA15		



bridgelux.			
1		And in case of the local division of the loc	90* 99
LED	V8 Gen6		
FWHM / FWTM	42.0° / 76.0°		
Efficiency	82 %		60° - 400 - 60°
Peak intensity	1.4 cd/lm		$\square \land \land$
LEDs/each optic	1		
Light colour	White		er" es
Required compone	nts:		
C13761_PF-SO	CKET-CXA15		
C13333_MIREL	LA-CL		1220
			36° 15° 56
bridgelux.			80° 90
LED	VERO10		
EED FWHM / FWTM	40.0° / 79.0°		78 78
Efficiency	40.0 7 79.0 85 %		
Peak intensity	1.5 cd/lm		60° × / / · · · · · · · · · · · · · · · · ·
LEDs/each optic	1		
Light colour	White		45-
Required compone			
C13708_PF-SO			1230
C13700_F1-30	CRET-VEROTO		
			30° 30 15° 0° 15°
bridgelux.			90* 90
LED	VERO10		
FWHM / FWTM	44.0° / 76.0°		
Efficiency	80 %		60° 400 560
Peak intensity	1.3 cd/lm		
	1		
LEDs/each optic			
LEDs/each optic Light colour	White		g+ 000
	White		9 ⁷
Light colour	White		94 o
Light colour Required compone	White ents: CKET-VERO10		2 ⁴ 00 0
Light colour Required compone C13708_PF-SO	White ents: CKET-VERO10		9 ⁵
Light colour Required compone C13708_PF-SO	White ents: CKET-VERO10		9 ⁵
Light colour Required compone C13708_PF-SO C12479_MIRELI	White ints: CKET-VERO10 LA-DL		2 ⁵ 0.0 5 3 ¹⁰ 1.5 ¹⁰ 1.5 ¹⁰
Light colour Required compone C13708_PF-SO C12479_MIRELI	White ints: CKET-VERO10 LA-DL VERO10		25 ⁻ 00 15 ⁻ 15 ⁻
Light colour Required compone C13708_PF-SOU C12479_MIRELI bridgeLUX. LED FWHM / FWTM	White Ints: CKET-VERO10 LA-DL VERO10 44.0° / 76.0°		25 ⁻ 25 ⁻
Light colour Required compone C13708_PF-SOU C12479_MIRELI bridgeLUX. LED FWHM / FWTM Efficiency	White Ints: CKET-VERO10 LA-DL VERO10 44.0° / 76.0° 80 %		200 00 100 00 00 00 00 00 00 00 00 00 00
Light colour Required compone C13708_PF-SO C12479_MIRELI bridgeLux. LED FWHM / FWTM Efficiency Peak intensity	White Ints: CKET-VERO10 LA-DL VERO10 44.0° / 76.0°		
Light colour Required compone C13708_PF-SO C12479_MIRELI bridgeLUX. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	White Ints: CKET-VERO10 LA-DL VERO10 44.0° / 76.0° 80 % 1.3 cd/lm		
Light colour Required compone C13708_PF-SO C12479_MIRELI bridgeLUX. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White Ints: CKET-VERO10 LA-DL VERO10 44.0° / 76.0° 80 % 1.3 cd/lm 1 White		
Light colour Required compone C13708_PF-SO C12479_MIRELI bridgeLux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	White Ints: CKET-VERO10 LA-DL VERO10 44.0° / 76.0° 80 % 1.3 cd/lm 1 White Ints:		
Light colour Required compone C13708_PF-SOU C12479_MIRELI bridgeLux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13708_PF-SOU	White Ints: CKET-VERO10 LA-DL VERO10 44.0° / 76.0° 80 % 1.3 cd/lm 1 White I CKET-VERO10		
Light colour Required compone C13708_PF-SO C12479_MIRELI bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	White Ints: CKET-VERO10 LA-DL VERO10 44.0° / 76.0° 80 % 1.3 cd/lm 1 White I CKET-VERO10		



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO	VERO13 46.0° / 82.0° 90 % 1.3 cd/lm 1 White onts: CKET-VERO13-18		22.00 20.00 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO C12479_MIREL	CKET-VERO13-18		94° 90° 90° 90° 90° 90° 90° 90° 90° 90° 90
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO C13333_MIREL	CKET-VERO13-18		2. 6. 6. 6. 6. 6. 60. 7. 60. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO	Xenio Point 13mm 45.0° / 81.0° 85 % 1.3 cd/lm 1 White Ints: CKET-VERO13-18		



bridgelux.			90° 90°
LED	Xenio Point 13mm		
FWHM / FWTM	49.0° / 78.0°		
Efficiency	81 %		
Peak intensity	1.1 cd/lm		
LEDs/each optic	1		
Light colour	White		45*
Required compone	ents:		
	CKET-VERO13-18		
C13333_MIREL			
			30° <u>1200</u> 36°
bridgelux.			90 ⁴
LED	Xenio Point 13mm		
FWHM / FWTM	48.0° / 80.0°		75.
Efficiency	78 %		
Peak intensity	1.1 cd/lm		60° 60°
LEDs/each optic	1		
Light colour	' White		
Required compone			
	CKET-VERO13-18		
C12479_MIREL			
012479_1011112	LA-DL		
			30° 0° 35° 36°
CITIZE	N		
LED	CLL01x		
FWHM / FWTM	44.0° / 76.0°		
Efficiency	86 %		
Peak intensity	1.4 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required compone			
C13083_PF-SO			
C12479_MIREL			
CITIZE	N		
LED	CLL01x		
FWHM / FWTM	42.0° / 76.0°		
Efficiency	86 %		
Peak intensity	1.4 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required compone			
C13083_PF-SO			
C13083_PF-SO C13333_MIREL			



CITIZE	N	
LED	CLL01x	
FWHM / FWTM	36.0° / 80.0°	
Efficiency	90 %	
Peak intensity	1.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
C13083_PF-SC		
CITIZE	'N	94 ²
	CLL02x/CLU02x (LES10)	
FWHM / FWTM	39.0° / 73.0°	
Efficiency Dock intensity	78 % 1.5 cd/lm	ger -
Peak intensity		
LEDs/each optic	1 White	
Light colour		
Required compone		
	OCKET-VERO13-18	
C13333_MIREL		
Bender Wirth: 4	34 Typ L1	30 ⁵ 15 ⁵ 18 ⁵ 0 15 ⁵
CITIZE	^C N	
LED	CLL02x/CLU02x (LES10)	
FWHM / FWTM	41.0° / 80.0°	
Efficiency	90 %	
Peak intensity	1.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
C13083_PF-SC		
010000_11 00		
CITIZE	N	50 ⁴
LED	CLL02x/CLU02x (LES10)	
FWHM / FWTM	41.0° / 76.0°	
Efficiency	76 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	gy no
Required compone		
	OCKET-VERO13-18	
C12479_MIREL		
Bender Wirth: 4		120
Denuel Wiltin 4		



CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM / FWTM	46.0° / 77.0°
Efficiency	86 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White
Required compone	nts:
C13083_PF-SO	CKET
C12479_MIRELI	LA-DL



CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM / FWTM	46.0° / 80.0°
Efficiency	%
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White
Required componer	its:
C13083_PF-SOC	KET
C13723 MIRELL	A-RZL



LED	CLL02x/CLU02x (LES10)				
FWHM / FWTM	36.0° / 77.0°				
Efficiency	84 %				
Peak intensity	1.7 cd/lm				
LEDs/each optic	1				
Light colour	White				
Required componen	Required components:				
C13709_PF-SOC	KET-VERO13-18				
Bender Wirth: 434	4 Typ L1				

CITIZEN

 LED
 CLL02x/CLU

 FWHM / FWTM
 46.0° / 78.0°

 Efficiency
 86 %

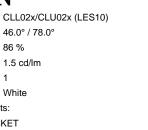
 Peak intensity
 1.5 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 C13083_PF-SOCKET

 C13333_MIRELLA-CL
 C1





Last update: 18/08/2023Subject to change without prior noticePublished: 03/05/2018LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.10/42



CITIZE	'N	814	
LED	CLU700/701/702/703		
FWHM / FWTM	31.0° / 70.0°		
Efficiency	77 %		
Peak intensity	1.8 cd/lm		
LEDs/each optic	1		
Light colour	White	g.	
Required compone			
	CKET-VERO13-18		
C12479_MIREL		100	
Bender Wirth: 43		30	,
CITIZE	N	Ba.	
LED	CLU700/701/702/703		
FWHM / FWTM	39.0° / 75.0°	27	
Efficiency	82 %		
Peak intensity	1.4 cd/lm		
LEDs/each optic	1		
Light colour	White	∞	
Required compone	ents:		
C13083_PF-SO			
C12479_MIREL			
_			\rightarrow
			19
CITIZE	IN	50 ³	
LED	CLU700/701/702/703		
	CLU700/701/702/703 33.0° / 78.0°	77	
FWHM / FWTM		80	
FWHM / FWTM Efficiency	33.0° / 78.0°	8°	
FWHM / FWTM Efficiency Peak intensity	33.0° / 78.0° 88 %	27 Bit 00	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	33.0° / 78.0° 88 % 1.9 cd/lm	27	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	33.0° / 78.0° 88 % 1.9 cd/lm 1 White	27	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO	33.0° / 78.0° 88 % 1.9 cd/lm 1 White ents:	27 00 6 ⁴ 280 5 ⁷ 150	X
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	33.0° / 78.0° 88 % 1.9 cd/lm 1 White ents:	27	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	33.0° / 78.0° 88 % 1.9 cd/lm 1 White ents:		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO	33.0° / 78.0° 88 % 1.9 cd/lm 1 White ents: CKET		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO	33.0° / 78.0° 88 % 1.9 cd/lm 1 White ents: PCKET		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO	33.0° / 78.0° 88 % 1.9 cd/lm 1 White ents: PCKET CLU700/701/702/703		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO	33.0° / 78.0° 88 % 1.9 cd/lm 1 White ents: VCKET CLU700/701/702/703 34.0° / 72.0°		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO CITTIZE LED FWHM / FWTM Efficiency	33.0° / 78.0° 88 % 1.9 cd/lm 1 White ents: ICKET CLU700/701/702/703 34.0° / 72.0° 81 %		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO CITIZE LED FWHM / FWTM Efficiency Peak intensity	33.0° / 78.0° 88 % 1.9 cd/lm 1 White ents: CKET CLU700/701/702/703 34.0° / 72.0° 81 % 1.8 cd/lm		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	33.0° / 78.0° 88 % 1.9 cd/lm 1 White ents: CKET CLU700/701/702/703 34.0° / 72.0° 81 % 1.8 cd/lm 1		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	33.0° / 78.0° 88 % 1.9 cd/lm 1 White POCKET CKET CLU700/701/702/703 34.0° / 72.0° 81 % 1.8 cd/lm 1 White		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	33.0° / 78.0° 88 % 1.9 cd/lm 1 White POCKET CLU700/701/702/703 34.0° / 72.0° 81 % 1.8 cd/lm 1 White Ponts:	27 64 97 90	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO	33.0° / 78.0° 88 % 1.9 cd/lm 1 White POCKET CLU700/701/702/703 34.0° / 72.0° 81 % 1.8 cd/lm 1 White POCKET	27 64 97 90	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	33.0° / 78.0° 88 % 1.9 cd/lm 1 White POCKET CLU700/701/702/703 34.0° / 72.0° 81 % 1.8 cd/lm 1 White POCKET	27 64 97 90	



CITIZE	N		90°
	CLU700/701/702/703		
FWHM / FWTM	26.0° / 73.0°		75
Efficiency	83 %		
Peak intensity	2.4 cd/lm		60 ¹
LEDs/each optic	1		
Light colour	White		5 ²
Required compone		_	1600
	CKET-VERO13-18		
Bender Wirth: 43			
			30°
CITIZE	N	-	90°
LED	CLU700/701/702/703		
FWHM / FWTM	29.0° / 69.0°		73*
Efficiency	80 %		
Peak intensity	2.1 cd/lm		695
LEDs/each optic	1		
Light colour	White		ggr / /
Required compone			
	CKET-VERO13-18		1600
C13333_MIREL			
Bender Wirth: 43			
Donaol Thain I	· · ·)p = ·		30° 15° 0° 15°
CITIZE	NT		
ULILLE	1N		90*
	LN CLU700/701/702/703		<u>90*</u>
LED			25
LED FWHM / FWTM	CLU700/701/702/703		59 ¹
LED FWHM / FWTM Efficiency	CLU700/701/702/703 42.0° / 78.0°		59 ⁴
LED FWHM / FWTM Efficiency Peak intensity	CLU700/701/702/703 42.0° / 78.0° 81 %		95 ¹ 95
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLU700/701/702/703 42.0° / 78.0° 81 % 1.3 cd/lm		27 000 29 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLU700/701/702/703 42.0° / 78.0° 81 % 1.3 cd/lm 1 White		5° 5° 5° 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO	CLU700/701/702/703 42.0° / 78.0° 81 % 1.3 cd/lm 1 White ents:		5° 60 5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLU700/701/702/703 42.0° / 78.0° 81 % 1.3 cd/lm 1 White ents: CKET		5° 60 5° 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO	CLU700/701/702/703 42.0° / 78.0° 81 % 1.3 cd/lm 1 White ents: CKET		5°. 10° 10° 10° 10° 10° 10° 10° 10°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO C13723_MIREL	CLU700/701/702/703 42.0° / 78.0° 81 % 1.3 cd/lm 1 White ents: CKET LA-RZL		54 54 54 55 55 55 55 55 55 55
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO	CLU700/701/702/703 42.0° / 78.0° 81 % 1.3 cd/lm 1 White ents: CKET LA-RZL		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO C13723_MIREL	CLU700/701/702/703 42.0° / 78.0° 81 % 1.3 cd/lm 1 White ents: CKET LA-RZL		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO C13723_MIREL CITTIZE LED FWHM / FWTM	CLU700/701/702/703 42.0° / 78.0° 81 % 1.3 cd/lm 1 White ents: CKET LA-RZL		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO C13723_MIREL CITTIZE LED FWHM / FWTM Efficiency	CLU700/701/702/703 42.0° / 78.0° 81 % 1.3 cd/lm 1 White ents: CKET LA-RZL N CLU720/721/723 40.0° / 78.0° 81 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO C13723_MIREL CITTIZE LED FWHM / FWTM Efficiency Peak intensity	CLU700/701/702/703 42.0° / 78.0° 81 % 1.3 cd/lm 1 White ents: CKET LA-RZL		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO C13723_MIREL CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLU700/701/702/703 42.0° / 78.0° 81 % 1.3 cd/lm 1 White ents: CKET LA-RZL N CLU720/721/723 40.0° / 78.0° 81 % 1.4 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO C13723_MIREL CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLU700/701/702/703 42.0° / 78.0° 81 % 1.3 cd/lm 1 White ents: CKET LA-RZL		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO C13723_MIREL CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLU700/701/702/703 42.0° / 78.0° 81 % 1.3 cd/lm 1 White ents: CKET LA-RZL CLU720/721/723 40.0° / 78.0° 81 % 1.4 cd/lm 1 White ents:		77 60 5 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO C13723_MIREL CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO	CLU700/701/702/703 42.0° / 78.0° 81 % 1.3 cd/lm 1 White ents: CKET LA-RZL		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO C13723_MIREL CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLU700/701/702/703 42.0° / 78.0° 81 % 1.3 cd/lm 1 White ents: CKET LA-RZL		77 60 5 5



FWHM / FWTM 44 Efficiency 74 Peak intensity 1. LEDs/each optic 1 Light colour W Required components: C12479_MIRELLA-I Bender Wirth: 433 T CITTIZEEN LED C FWHM / FWTM 4. Efficiency 74	LU720/721/723 I.0° / 78.0° I % 1 cd/lm hite ST-VERO13-18 DL yp L1	
FWHM / FWTM 44 Efficiency 74 Peak intensity 1 LEDs/each optic 1 Light colour 4 Required components: C13709_PF-SOCKE C12479_MIRELLA- Bender Wirth: 433 T EDCITIZEEN LED C FWHM / FWTM 43 Efficiency 74	L.0° / 78.0° F % 1 cd/lm hite ET-VERO13-18 DL yp L1 - LU720/721/723 8.0° / 74.0° 5 %	
Efficiency 74 Peak intensity 1 LEDs/each optic 1 Light colour W Required components: C13709_PF-SOCKE C12479_MIRELLA- Bender Wirth: 433 T CITTIZEEN LED C FWHM / FWTM 4 Efficiency 7	4 % 1 cd/lm hite CT-VERO13-18 DL yp L1 	
Peak intensity 1. LEDs/each optic 1 Light colour W Required components: C13709_PF-SOCKE C12479_MIRELLA- Bender Wirth: 433 T CITTIZEN LED C FWHM / FWTM 4: Efficiency 7	1 cd/lm hite CT-VERO13-18 DL yp L1 	
LEDs/each optic 1 Light colour W Required components: C13709_PF-SOCKE C12479_MIRELLA- Bender Wirth: 433 T CITTIZEN LED C FWHM / FWTM 4: Efficiency 7	hite CT-VERO13-18 DL yp L1 	
Light colour W Required components: C13709_PF-SOCKE C12479_MIRELLA- Bender Wirth: 433 T CITTIZEEN LED C FWHM / FWTM 4: Efficiency 7	ET-VERO13-18 DL yp L1 LU720/721/723 3.0° / 74.0° 5 %	
Required components: C13709_PF-SOCKE C12479_MIRELLA- Bender Wirth: 433 T CCITTIZEN LED C FWHM / FWTM 4: Efficiency 7	ET-VERO13-18 DL yp L1 LU720/721/723 3.0° / 74.0° 5 %	90 90 90 90 90 90 90 90 90 90 90 90 90 9
C13709_PF-SOCKE C12479_MIRELLA- Bender Wirth: 433 T CITTIZEN LED C FWHM / FWTM 4: Efficiency 7	DL yp L1 	
C12479_MIRELLA- Bender Wirth: 433 T CITTIZEN LED C FWHM / FWTM 43 Efficiency 7	DL yp L1 	30° 30° 30° 30° 30° 30° 30° 30° 30° 30°
Bender Wirth: 433 T CITTIZEN LED C FWHM / FWTM 4: Efficiency 7	yp L1 	30 ⁴ 10 ⁵ 10 ⁵ 20 ⁵
LED C FWHM / FWTM 44 Efficiency 74	_U720/721/723 3.0° / 74.0° 5 %	
LED C FWHM / FWTM 44 Efficiency 74	_U720/721/723 3.0° / 74.0° 5 %	75
FWHM / FWTM 43 Efficiency 70	8.0° / 74.0° 5 %	75
Efficiency 70	5 %	
-		
i bait intoniony in		60°
LEDs/each optic 1		
-	hite	g- / e
Required components:		
C13709_PF-SOCKE	T-VERO13-18	
C13333_MIRELLA-		
Bender Wirth: 433 T		1200
		 30°
LED C	XA/B 13xx	
FWHM / FWTM 42	2.0° / 76.0°	
Efficiency 8	%	
Peak intensity 1.	5 cd/lm	
LEDs/each optic 1		
Light colour W	hite	
Required components:		
C13761_PF-SOCKE	T-CXA15	
C13333_MIRELLA-	CL	
CREE ≑		50°
LEDS		90* 91
	XA/B 13xx	757
	7.0° / 80.0°	400
•	3 %	
	8 cd/lm	
LEDs/each optic 1	L. 24-	
	hite	65° a
Required components:		
C13761_PF-SOCKE	T-CXA15	
		100
		304 00 00 00

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			90° 9
LED	CXA/B 13xx		
FWHM / FWTM	43.0° / 76.0°		
Efficiency	81 %		60 ⁰
Peak intensity	1.4 cd/lm		
LEDs/each optic	1		
Light colour	White		e7. 800 e
Required compone	ents:		
C13761_PF-SO	CKET-CXA15		
C12479_MIREL	LA-DL		1200
			30
LED	CXA/B 15xx		
FWHM / FWTM	46.0° / 79.0°		
Efficiency	85 %		
Peak intensity	1.4 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required compone			
C13761_PF-SO			
C13333_MIREL			
010000_WIITEE	EXOL		
			80*
LEDS	CXA/B 15xx		90 ⁴
LED	CXA/B 15xx 41.0° / 82.0°		50°
LED FWHM / FWTM	CXA/B 15xx 41.0° / 82.0° 90 %		90°
LED FWHM / FWTM Efficiency	41.0° / 82.0° 90 %		50° - 2 50° - 2 50° - 2
LEDs LED FWHM / FWTM Efficiency Peak intensity	41.0° / 82.0° 90 % 1.4 cd/lm		91 ⁴ 9
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	41.0° / 82.0° 90 %		90 ⁴ 90 75 75 70 70 70 70 70 70 70 70 70 70 70 70 70
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	41.0° / 82.0° 90 % 1.4 cd/lm 1 White		50 ⁴ 75 50 75 50 50
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	41.0° / 82.0° 90 % 1.4 cd/lm 1 White ents:		
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	41.0° / 82.0° 90 % 1.4 cd/lm 1 White ents:		90* 92 60* 60 57 60 60 60 60 60 60 60 60 60 60 60 60 60
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	41.0° / 82.0° 90 % 1.4 cd/lm 1 White ents:		
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SO	41.0° / 82.0° 90 % 1.4 cd/lm 1 White ents:		
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	41.0° / 82.0° 90 % 1.4 cd/lm 1 White ents:		
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SO	41.0° / 82.0° 90 % 1.4 cd/lm 1 White ents:		200 <u>00</u> <u>100</u> <u>9</u>
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SO	41.0° / 82.0° 90 % 1.4 cd/lm 1 White ents: CKET-CXA15		20 <u>10</u> <u>10</u> <u>10</u>
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SO	41.0° / 82.0° 90 % 1.4 cd/lm 1 White ents: CKET-CXA15 CXA/B 15xx		200 <u>00</u> <u>100</u> <u>9</u>
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SO	41.0° / 82.0° 90 % 1.4 cd/lm 1 White ents: CKET-CXA15 CXA/B 15xx 37.0° / 72.0°		20 <u>10</u> <u>10</u> <u>10</u>
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SO	41.0° / 82.0° 90 % 1.4 cd/lm 1 White ents: CKET-CXA15 CXA/B 15xx 37.0° / 72.0° 79 %		20 <u>10</u> <u>10</u> <u>10</u>
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SO	41.0° / 82.0° 90 % 1.4 cd/lm 1 White ents: CKET-CXA15 CXA/B 15xx 37.0° / 72.0° 79 % 1.6 cd/lm		20 <u>10</u> <u>10</u> <u>10</u>
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SO CREE LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	41.0° / 82.0° 90 % 1.4 cd/lm 1 White ents: CKET-CXA15 CXA/B 15xx 37.0° / 72.0° 79 % 1.6 cd/lm 1 White		
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SO CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	41.0° / 82.0° 90 % 1.4 cd/lm 1 White ents: CKET-CXA15 CXA/B 15xx 37.0° / 72.0° 79 % 1.6 cd/lm 1 White		
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SO CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	41.0° / 82.0° 90 % 1.4 cd/lm 1 White ents: CKET-CXA15 CXA/B 15xx 37.0° / 72.0° 79 % 1.6 cd/lm 1 White ents: CKET-VERO13-18		
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SO CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO	41.0° / 82.0° 90 % 1.4 cd/lm 1 White white CKET-CXA15 CXA/B 15xx 37.0° / 72.0° 79 % 1.6 cd/lm 1 White white cKET-VERO13-18 LA-CL		



			90°	90*
LED	CXA/B 15xx			
FWHM / FWTM	34.0° / 75.0°		75°	A The
Efficiency	82 %			
Peak intensity	1.8 cd/lm		60*	60 ⁴
LEDs/each optic	1			X
Light colour	White		47°	45*
Required compone			1200	$H \setminus 2$
	CKET-VERO13-18			$N \times$
Bender Wirth: 44			1600	
			\times / \lor	
			30° 15° 0°	30.
			30*	90*
LED	CXA/B 15xx			
FWHM / FWTM	47.0° / 81.0°			
Efficiency	81 %		60° 400	60*
Peak intensity	1.2 cd/lm		\wedge / A	$\Lambda \setminus \Sigma$
LEDs/each optic	1		\times /	X
Light colour	White		43°	47*
Required compone	nts:		800	
C13761_PF-SO	CKET-CXA15		\sim \sim \sim	
C13723_MIRELI	_A-RZL		$\times \Lambda$	
			30°	34*
			15° 0°	15*
			90*	90*
CREE ÷ LEDs	CXA/B 15xx		<u>30*</u>	90*
LEDS	CXA/B 15xx 47.0° / 79.0°		32 20,	
LED			8)	
LED FWHM / FWTM	47.0° / 79.0°		би 26. 26.	
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	47.0° / 79.0° 85 %		94* 740 647 400	6°
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	47.0° / 79.0° 85 % 1.2 cd/lm 1 White		94* 75 64 64 60 60	90*
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	47.0° / 79.0° 85 % 1.2 cd/lm 1 White nts:		9; 9; 9; 9; 9; 9; 9; 9; 9; 9; 9; 9; 9; 9	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SOU	47.0° / 79.0° 85 % 1.2 cd/lm 1 White nts: CKET-CXA15		6	95 95
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	47.0° / 79.0° 85 % 1.2 cd/lm 1 White nts: CKET-CXA15		d2. 20. 20. 20.	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SOU	47.0° / 79.0° 85 % 1.2 cd/lm 1 White nts: CKET-CXA15		50° 60° 60° 60° 50° 60° 50° 60° 50° 60°	9°*
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SOU C12479_MIRELI	47.0° / 79.0° 85 % 1.2 cd/lm 1 White nts: CKET-CXA15		50° 00 50° 00	90°
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SOU C12479_MIRELI	47.0° / 79.0° 85 % 1.2 cd/lm 1 White nts: CKET-CXA15 _A-DL		54° 54° 66° 66° 66° 66° 66° 66° 66° 66° 66°	90°
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SOU C12479_MIRELI	47.0° / 79.0° 85 % 1.2 cd/lm 1 White nts: CKET-CXA15 _A-DL CXA/B 15xx		24 24 25 26 26 26 20 20 20 20 20 20 20 20 20 20	90°
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SOU C12479_MIRELI	47.0° / 79.0° 85 % 1.2 cd/lm 1 White nts: CKET-CXA15 _A-DL		24 25 26 26 26 26 26 20 20 20 20 20 20 20 20 20 20 20 20 20	22° 25° 26° 26° 26° 26°
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SOU C12479_MIRELI	47.0° / 79.0° 85 % 1.2 cd/lm 1 White nts: CKET-CXA15 _A-DL CXA/B 15xx 39.0° / 75.0° 75 %		64	92* 93* 93* 93* 93* 93* 93* 93*
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SOU C12479_MIRELI	47.0° / 79.0° 85 % 1.2 cd/lm 1 White nts: CKET-CXA15 _A-DL CXA/B 15xx 39.0° / 75.0°		60	90°
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SOU C12479_MIRELI	47.0° / 79.0° 85 % 1.2 cd/lm 1 White nts: CKET-CXA15 _A-DL CXA/B 15xx 39.0° / 75.0° 75 % 1.3 cd/lm 1		g. 60 10 10 10 10 10 10 10 10 10 1	90°
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SOU C12479_MIRELI	47.0° / 79.0° 85 % 1.2 cd/lm 1 White nts: CKET-CXA15 _A-DL CXA/B 15xx 39.0° / 75.0° 75 % 1.3 cd/lm 1 White		6. 00 24. 00 25. 00 26. 00 27. 00 28. 00 29. 00	85° 66° 15° 15° 15° 15° 15°
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SOU C12479_MIRELI	47.0° / 79.0° 85 % 1.2 cd/lm 1 White nts: CKET-CXA15 A-DL CXA/B 15xx 39.0° / 75.0° 75 % 1.3 cd/lm 1 White nts:		6. 6. 6. 6. 6. 7. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6	84 15 15 15 15 15 15 15 15 15 15
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SOU C12479_MIRELI CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SOU	47.0° / 79.0° 85 % 1.2 cd/lm 1 White nts: CKET-CXA15 A-DL CXA/B 15xx 39.0° / 75.0° 75 % 1.3 cd/lm 1 White nts: CKET-VERO13-18		er er er er er er er er er er	
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13761_PF-SOU C12479_MIRELI	47.0° / 79.0° 85 % 1.2 cd/lm 1 White nts: CKET-CXA15 A-DL CXA/B 15xx 39.0° / 75.0° 75 % 1.3 cd/lm 1 White nts: CKET-VERO13-18 A-DL		90	30 ⁴ 72 ⁵ 82 ⁶ 82 ⁶ 8



		90 ⁴ 30 ⁴
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	
FWHM / FWTM	45.0° / 81.0°	
Efficiency	84 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	g*00
Required compone	nts:	
C14115_PF-SO	CKET-CXA15-18	
		20-
		90 ¹
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	
FWHM / FWTM	43.0° / 81.0°	
Efficiency	87 %	60× 60-×
Peak intensity	1.4 cd/lm	
LEDs/each optic	1	
Light colour	White	9 ⁴
Required compone	nts:	
IDEAL: 50-2101	CR + 50-2100MR	
		302
		22 ⁵ 0 ⁴ 72 ⁵
		50°
	MHD-E/G	<u>59'</u> 59'
LED	MHD-E/G 38.0° / 82.0°	90 ⁴ 90 ⁴
LED FWHM / FWTM	MHD-E/G 38.0° / 82.0° 89 %	90°
LED FWHM / FWTM Efficiency	38.0° / 82.0° 89 %	
LED FWHM / FWTM Efficiency Peak intensity	38.0° / 82.0° 89 % 1.5 cd/lm	92* 95* 93 60* 60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	38.0° / 82.0° 89 % 1.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	38.0° / 82.0° 89 % 1.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	38.0° / 82.0° 89 % 1.5 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	38.0° / 82.0° 89 % 1.5 cd/lm 1 White ints:	77
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	38.0° / 82.0° 89 % 1.5 cd/lm 1 White ints:	77
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO	38.0° / 82.0° 89 % 1.5 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	38.0° / 82.0° 89 % 1.5 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO	38.0° / 82.0° 89 % 1.5 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO	38.0° / 82.0° 89 % 1.5 cd/lm 1 White Ints: CKET	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SOU	38.0° / 82.0° 89 % 1.5 cd/lm 1 White Ints: CKET MHD-E/G	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SOU	38.0° / 82.0° 89 % 1.5 cd/lm 1 White ints: CKET MHD-E/G 44.0° / 77.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SOU	38.0° / 82.0° 89 % 1.5 cd/lm 1 White ints: CKET MHD-E/G 44.0° / 77.0° 84 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SOU	38.0° / 82.0° 89 % 1.5 cd/lm 1 White ints: CKET MHD-E/G 44.0° / 77.0° 84 % 1.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SOU CTEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	38.0° / 82.0° 89 % 1.5 cd/lm 1 White ints: CKET MHD-E/G 44.0° / 77.0° 84 % 1.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SOU CI3083_PF-SOU CI3083_PF-SOU ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	38.0° / 82.0° 89 % 1.5 cd/lm 1 White ints: CKET MHD-E/G 44.0° / 77.0° 84 % 1.3 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SOU CI3083_PF-SOU ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	38.0° / 82.0° 89 % 1.5 cd/lm 1 White ints: CKET MHD-E/G 44.0° / 77.0° 84 % 1.3 cd/lm 1 White ints: CKET	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO	38.0° / 82.0° 89 % 1.5 cd/lm 1 White ints: CKET MHD-E/G 44.0° / 77.0° 84 % 1.3 cd/lm 1 White ints: CKET	



		30°
LED	MHD-E/G	
FWHM / FWTM	45.0° / 83.0°	257 - 257
Efficiency	82 %	
Peak intensity	1.1 cd/lm	60° - 400 - 60°
LEDs/each optic	1	
Light colour	White	er et
Required componer		
C13083_PF-SO		
C13723_MIRELL		
		30"
		30° 30° 30° 30°
		99*
LED	MHD-E/G	
FWHM / FWTM	45.0° / 78.0°	
Efficiency	84 %	400
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	47 ⁴ 42 ⁴
Required componer	nts:	
C13083_PF-SO	CKET	
C12479_MIRELL	LA-DL	
		30°
		50°
LEDS	MK-R	90*
LED	MK-R 30.0° / 77.0°	90°
LED FWHM / FWTM	30.0° / 77.0°	90°
LEDs LED FWHM / FWTM Efficiency	30.0° / 77.0° 85 %	94°
LEDs LED FWHM / FWTM Efficiency Peak intensity	30.0° / 77.0° 85 % 2.1 cd/lm	64
LEDs EWHM / FWTM Efficiency Peak intensity LEDs/each optic	30.0° / 77.0° 85 %	6. 6. 90 90 90 90 90 90
LEDs EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 77.0° 85 % 2.1 cd/lm 1 White	64. 69. 90. 90. 90. 90.
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	30.0° / 77.0° 85 % 2.1 cd/lm 1 White nts:	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LEDs EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 77.0° 85 % 2.1 cd/lm 1 White nts:	90°
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	30.0° / 77.0° 85 % 2.1 cd/lm 1 White nts:	94°
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13083_PF-SOC	30.0° / 77.0° 85 % 2.1 cd/lm 1 White nts:	22 62 90 90 90 90 90 90 90 90 90 90 90 90 90
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	30.0° / 77.0° 85 % 2.1 cd/lm 1 White nts:	22 62 90 90 90 90 90 90 90 90 90 90 90 90 90
LEDs EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component C13083_PF-SOC	30.0° / 77.0° 85 % 2.1 cd/lm 1 White nts:	24- 25- 26- 2009 2009 2009 2009 2009 200 200
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13083_PF-SOC	30.0° / 77.0° 85 % 2.1 cd/lm 1 White nts: CKET	24- 25- 26- 2009 2009 2009 2009 2009 200 200
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component C13083_PF-SOC	30.0° / 77.0° 85 % 2.1 cd/lm 1 White nts: CKET MK-R	24- 25- 26- 2009 2009 2009 2009 2009 200 200
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13083_PF-SOC	30.0° / 77.0° 85 % 2.1 cd/lm 1 White nts: CKET MK-R 34.0° / 73.0°	24- 25- 26- 2009 2009 2009 2009 2009 200 200
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component C13083_PF-SOC C13083_PF-SOC CREE LED FWHM / FWTM Efficiency	30.0° / 77.0° 85 % 2.1 cd/lm 1 White nts: CKET MK-R 34.0° / 73.0° 80 %	5- 5- 5- 5- 5- 5- 5- 5- 5- 5-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component C13083_PF-SOC CREE LED FWHM / FWTM Efficiency Peak intensity	30.0° / 77.0° 85 % 2.1 cd/lm 1 White nts: CKET MK-R 34.0° / 73.0° 80 % 1.7 cd/lm	5° 6° 77 70 70 70 70 70 70 70 70 70 70 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component C13083_PF-SOC CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	30.0° / 77.0° 85 % 2.1 cd/m 1 White nts: CKET MK-R 34.0° / 73.0° 80 % 1.7 cd/m 1 White	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component C13083_PF-SOC CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 77.0° 85 % 2.1 cd/lm 1 White nts: CKET MK-R 34.0° / 73.0° 80 % 1.7 cd/lm 1 White nts:	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component C13083_PF-SOC CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	30.0° / 77.0° 85 % 2.1 cd/lm 1 White nts: CKET MK-R 34.0° / 73.0° 80 % 1.7 cd/lm 1 White nts: CKET	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component C13083_PF-SOC CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component C13083_PF-SOC	30.0° / 77.0° 85 % 2.1 cd/lm 1 White nts: CKET MK-R 34.0° / 73.0° 80 % 1.7 cd/lm 1 White nts: CKET	



CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	MT-G 48.0° / 87.0° 90 %	
FWHM / FWTM Efficiency Peak intensity	48.0° / 87.0°	
Efficiency Peak intensity		
Peak intensity	90 %	
LEDs/each optic	1.4 cd/lm	
	1	
Light colour	White	
Required componer		
C13083_PF-SOC	CKET	
LED	MT-G	
FWHM / FWTM	52.0° / 83.0°	
Efficiency	86 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required componer	nts:	
C13083_PF-SOC	CKET	
C13333_MIRELL	A-CL	
CREE ≑		
LEDs	MT-G	
EED FWHM / FWTM	52.0° / 84.0°	
	52.0 7 84.0 86 %	
Efficiency		
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required componer		
C13083_PF-SOC		
C12479_MIRELL	A-DL	
LED	MT-G2	
EED FWHM / FWTM	51.0° / 82.0°	
Efficiency	87 %	
	1.2 cd/lm	
Peak intensity LEDs/each optic	1.2 ca/im 1	
LEDS/each optic	1 White	
Required componer		
C13083_PF-SOC		
C12479_MIRELL	-A-DL	



LED	MT-G2		
FWHM / FWTM	46.0° / 86.0°		
Efficiency	91 %		
Peak intensity	0.8 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required compone	ents:		
C13083_PF-SC	OCKET		
LED	MT-G2		
FWHM / FWTM	50.0° / 81.0°		
Efficiency	87 %		
Peak intensity	1.2 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required compone	ents:		
C13083_PF-SO			
C13333_MIREL			
_			
CREE 🚖			
LEDS			90°
LED	XHP50	and the second se	
FWHM / FWTM	38.0° / 77.0°		$\uparrow \land \land \uparrow$
Efficiency	80 %		60° 400 60°
Peak intensity	1.3 cd/lm		
LEDs/each optic	1		
Light colour	White		42, 000 42,
Required compone			
C13083_PF-SO	OCKET		
C13723_MIREL	LA-RZL		1200
			30° 30° 30°
			90*
LED	XHP50	and the second se	73
FWHM / FWTM	39.0° / 76.0°		
Efficiency	82 %		60° 60°
Peak intensity	1.4 cd/lm		
LEDs/each optic	1		
Light colour	White		a2. a2.
Required compone			
C13083_PF-SO			1200
C12479_MIREL	LA-DL		
			30*
			15° 0° 15°



		90* 90*
LED	XHP50	
FWHM / FWTM	39.0° / 76.0°	75* 75*
Efficiency	81 %	
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	
Light colour	White	47*
Required componer		
C13083_PF-SOC		1200
C13333_MIRELL		
		364 400
		15° 1800 15°
	XHP50	
LED FWHM / FWTM	33.0° / 80.0°	75
Efficiency	87 %	
Peak intensity	1.8 cd/lm	eet et
LEDs/each optic	1	
Light colour	White	97° 05°
Required componer		
C13083_PF-SOC		
013003_11-5000		1630
		30° 30° 30°
1		
		90° 90°
LEDS	XHP70	50°
LED	XHP70 44.0° / 80.0°	37 37 37 37 37 37 37 37
LED FWHM / FWTM		50°
LED FWHM / FWTM Efficiency	44.0° / 80.0°	93 ⁴ 92 ⁴ 75 ⁻ 72 ⁴ 96 ⁴ 600 60 ⁵
LEDs LED FWHM / FWTM Efficiency Peak intensity	44.0° / 80.0° 79 %	99 ⁴ 99 ⁵ 75 ⁵ 60 ⁶ 60 ⁷
LED FWHM / FWTM Efficiency	44.0° / 80.0° 79 % 1.2 cd/lm	99 ⁴ 99 ⁴ 72 ⁴ 60 ⁴ 60 60 60 60 60 60 60 ⁴ 60 ⁴ 60 ⁴ 60 ⁴ 60 ⁴
LEDs EHMM / FWTM Efficiency Peak intensity LEDs/each optic	44.0° / 80.0° 79 % 1.2 cd/lm 1 White	94 [*] 95 [*] 75 [*] 60 60
LEDs EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	44.0° / 80.0° 79 % 1.2 cd/lm 1 White hts:	97 ⁴ 97 ⁴ 97 ⁴
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	44.0° / 80.0° 79 % 1.2 cd/lm 1 White hts: CKET	50 ⁴ 50 ⁴ 73 ⁵ 72 ⁶ 60 ⁴ 60 ⁵ 97 ⁴ 60 ⁵ 80 ⁴
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13083_PF-SOC	44.0° / 80.0° 79 % 1.2 cd/lm 1 White hts: CKET	90 ⁴ 90 ⁴ 75 ⁴ 60 ⁴ 6
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13083_PF-SOC C13723_MIRELL	44.0° / 80.0° 79 % 1.2 cd/lm 1 White hts: CKET	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13083_PF-SOC C13723_MIRELL CREE	44.0° / 80.0° 79 % 1.2 cd/lm 1 White nts: CKET 	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13083_PF-SOC C13723_MIRELL	44.0° / 80.0° 79 % 1.2 cd/lm 1 White nts: CKET 	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13083_PF-SOC C13723_MIRELL CREE S LED FWHM / FWTM	44.0° / 80.0° 79 % 1.2 cd/lm 1 White hts: CKET A-RZL XHP70 43.0° / 77.0°	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13083_PF-SOC C13723_MIRELL CREE LED FWHM / FWTM Efficiency	44.0° / 80.0° 79 % 1.2 cd/lm 1 White hts: CKET A-RZL XHP70 43.0° / 77.0° 81 %	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13083_PF-SOC C13723_MIRELL CREE LED FWHM / FWTM Efficiency Peak intensity	44.0° / 80.0° 79 % 1.2 cd/lm 1 White hts: CKET A-RZL XHP70 43.0° / 77.0° 81 % 1.3 cd/lm	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13083_PF-SOC C13723_MIRELL CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	44.0° / 80.0° 79 % 1.2 cd/lm 1 White hts: CKET A-RZL XHP70 43.0° / 77.0° 81 % 1.3 cd/lm 1	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13083_PF-SOC C13723_MIRELL CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	44.0° / 80.0° 79 % 1.2 cd/lm 1 White hts: CKET A-RZL XHP70 43.0° / 77.0° 81 % 1.3 cd/lm 1 White	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13083_PF-SOC C13723_MIRELL CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	44.0° / 80.0° 79 % 1.2 cd/lm 1 White hts: CKET A-RZL XHP70 43.0° / 77.0° 81 % 1.3 cd/lm 1 White hts: Literation of the second s	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13083_PF-SOC C13723_MIRELL CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13083_PF-SOC	44.0° / 80.0° 79 % 1.2 cd/lm 1 White hts: CKET A-RZL XHP70 43.0° / 77.0° 81 % 1.3 cd/lm 1 White hts: CKET LARZE	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13083_PF-SOC C13723_MIRELL CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	44.0° / 80.0° 79 % 1.2 cd/lm 1 White hts: CKET A-RZL XHP70 43.0° / 77.0° 81 % 1.3 cd/lm 1 White hts: CKET LARZE	



		50' 50'
		30" 30"
LED	XHP70	77
FWHM / FWTM	39.0° / 82.0°	
Efficiency	86 %	
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		220
C13083_PF-SO	GKET	
		30 ⁴ <u>155</u> 0 ⁴ 157 0 ⁵ 159
		90 ⁴
LED	XHP70	
FWHM / FWTM	42.0° / 77.0°	
Efficiency	81 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	¢* • • • • • • • • • • • • • • • • • • •
Required compone	nts:	
C13083_PF-SO	CKET	
C13333_MIRELI	LA-CL	1270
		30+ 127 0+ 127
		201347_1010-0-444-00, 1140, 2013
LED	XM-L RGBW (XMLCTW)	
FWHM / FWTM	41.0° / 80.0°	
Efficiency	80 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	9 ⁻ 00
Required compone	nts:	
C13083_PF-SO	CKET	
C13723_MIRELI	LA-RZL	1200
		30 ¹⁰
CREE ≑		
LED LEDS	XQ-E HI	
EED FWHM / FWTM	42.0° / 82.0°	
Efficiency	42.0° / 82.0° 87 %	
Peak intensity	1.4 cd/lm	
a can interisity	4	
LEDs/each ontic	4 RGBW	
LEDs/each optic		
Light colour		
Light colour Required compone	nts:	
Light colour	nts: CKET	



	EDC	
		99 ⁴ 99 ⁴
	LUXEON CoB 1202/1203	
FWHM / FWTM	39.0° / 74.0°	
Efficiency	80 %	694 B44
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
C13333_MIREL		
IDEAL. 50-2100	NC +50-2100MR	30- 30- 30-
	.EDS	
LED	LUXEON CoB 1202/1203	
FWHM / FWTM	41.0° / 75.0°	
Efficiency	81 %	
Peak intensity	1.4 cd/lm	
LEDs/each optic	1	
Light colour	White	q [*] a [*]
Required compone	ents:	
C12479_MIREL	LA-DL	
IDEAL: 50-2100	NC +50-2100MR	
		30 - 350 of 150 - 307
	.EDS	93 ⁴ 93 ⁴
LED	LUXEON CoB 1202/1203	
FWHM / FWTM	35.0° / 76.0°	
Efficiency	83 %	60 ⁴
Peak intensity	1.7 cd/lm	
LEDe/oach ontic		
LEDs/each optic	1	
LEDs/each optic	1 White	gr at
	White	a
Light colour Required compone	White	
Light colour Required compone	White ents: CKET-VERO13-18	
Light colour Required compone C13709_PF-SO	White ents: CKET-VERO13-18	
Light colour Required compone C13709_PF-SO	White ents: CKET-VERO13-18 38 Typ L1	
Light colour Required compone C13709_PF-SO Bender Wirth: 4	White ents: CKET-VERO13-18 38 Typ L1	
Light colour Required compone C13709_PF-SO Bender Wirth: 43	White ents: CKET-VERO13-18 38 Typ L1	
Light colour Required compone C13709_PF-SO Bender Wirth: 4:	White ents: CKET-VERO13-18 38 Typ L1 .EDS LUXEON CoB 1202/1203	
Light colour Required compone C13709_PF-SO Bender Wirth: 4: LED FWHM / FWTM	White ents: CKET-VERO13-18 38 Typ L1 .EDS LUXEON CoB 1202/1203 40.0° / 75.0°	
Light colour Required compone C13709_PF-SO Bender Wirth: 4: LED FWHM / FWTM Efficiency	White ents: CKET-VERO13-18 38 Typ L1 .EDS LUXEON CoB 1202/1203 40.0° / 75.0° 75 %	200 - 127 - 200 200 - 120 200 - 120
Light colour Required compone C13709_PF-SO Bender Wirth: 4: LED FWHM / FWTM Efficiency Peak intensity	White ents: CKET-VERO13-18 38 Typ L1 EDS LUXEON CoB 1202/1203 40.0° / 75.0° 75 % 1.3 cd/lm	200 - 127 - 200 200 - 120 200 - 120
Light colour Required compone C13709_PF-SO Bender Wirth: 4: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	White ents: CKET-VERO13-18 38 Typ L1 EDS LUXEON CoB 1202/1203 40.0° / 75.0° 75 % 1.3 cd/lm 1 White	200 - 127 - 200 200 - 120 200 - 120
Light colour Required compone C13709_PF-SO Bender Wirth: 4: Composition LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	White ents: CKET-VERO13-18 38 Typ L1 EDS LUXEON CoB 1202/1203 40.0° / 75.0° 75 % 1.3 cd/lm 1 White	200 - 127 - 200 200 - 120 200 - 120
Light colour Required compone C13709_PF-SO Bender Wirth: 4: Composition LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	White ents: CKET-VERO13-18 38 Typ L1 EDS LUXEON CoB 1202/1203 40.0° / 75.0° 75 % 1.3 cd/lm 1 White ents: CKET-VERO13-18	
Light colour Required compone C13709_PF-SO Bender Wirth: 4: CONTREME LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO	White ents: CKET-VERO13-18 38 Typ L1 EDS LUXEON CoB 1202/1203 40.0° / 75.0° 75 % 1.3 cd/lm 1 White ents: CKET-VERO13-18 LA-DL	



	EDS	
		30 ⁴
LED FWHM / FWTM	LUXEON CoB 1202/1203 39.0° / 79.0°	8
Efficiency	86 %	
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	gr at
Required compone		
C14037_PF-NS2		
_		
		34 34
	EDS	90° 90°
LED	LUXEON CoB 1202/1203	75
FWHM / FWTM	37.0° / 72.0°	
Efficiency	77 %	63×
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	
Light colour	White	d'
Required compone		220
	CKET-VERO13-18	
C13333_MIREL		
Bender Wirth: 43	ютур ст	30 ⁴ 500 20 ⁴ 15 ⁵ 0 ⁴ 15 ⁵
🥙 LUMIL	EDS	90 ⁴ 99 ⁴
LED	LUXEON CoB 1202/1203	
FWHM / FWTM	37.0° / 78.0°	
Efficiency	87 %	63 ¹
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	er er
Required compone		
IDEAL: 50-2100	NC +50-2100MR	$\times \wedge \times$
		2609
		29 ⁴
🤭 LUMIL	EDS	
LED	LUXEON CoB 1202s	
FWHM / FWTM	41.0° / 78.0°	
Efficiency	82 %	
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
C13761_PF-SO		
C13333_MIREL	_A-CL	



CUMILEDS LED LUXEON CoB 1202s Filiciency 85 % 20° Efficiency 85 % 20° Filiciency 81 % Peak intensity 2.2 cd/m EDSided components: C13709 .PF SOCKET-VERO13-18 C13709 .PF SOCKET-VERO13-18 C13333.MRELLA-CL Bender With: 452 Typ 11 95 % 172.0° ED LUXEON CoB 1202s FWTM / FWTM 2.5 0° / 72.0° Efficiency 85 % Peak intensity 2.6 cd/m LEDSeck-topic 1 Light colour White Required components: C13709 .PF SOCKET-VERO13-18 Clarkin tensity 2.6 cd/m LED LWECNO CoB 1202s FWTM / FWTM 2.6 cd/m LED ED ED LWECNO CoB 1202s FWHM / FWTM <th></th> <th></th> <th></th> <th></th>				
FWWM / FWTM 36 % Peak intensity 1.3 cd/m LEDseach optic 1 Light colour White Required components: C13761_PF-SOCKET-CXA15 C13761_PF-SOCKET-VERO13-18 Image: Color of the c	S LUMIL	EDS		
Efficiency 88 % Peak intensity 1.9 coldm LEDSteach optio 1 Light colour White Required components: C13761_PF-SOCKET-CXA15	LED	LUXEON CoB 1202s		
Peak intensity 1.9 col/m LED#ach optic 1 LED#ach optic 1 LED#ach optic 2 C13761_PF-SOCKET-CXA15	FWHM / FWTM	35.0° / 82.0°		
LEDS/seach optic 1 Light colour White Required components: C13761_PF-SOCKET-CXA15	Efficiency	88 %		
Light colour White Required components: C13761_PF-SOCKET-CXA15 CI3761_PF-SOCKET-CXA15	Peak intensity	1.9 cd/lm		
Required components: C13761_PF-SOCKET-CXA15 ED LUXEON COB 12025 FWHM / FVVTM 28.0° / 68.0° Efficiency 81 % Peak intensity 12.2 cd/m LEDs/each optic 1 Light colour White Required components: C13708_PF-SOCKET-VER013-18 C13333_MRELLA-CL Bender With: 452 Typ L1 ED LUXEON COB 12025 FVVHM / FVVTM 25.0° / 72.0° Efficiency 85 % Peak intensity 2.6 cd/m LEDs/each optic 1 Light colour White Required components: C13708_PF-SOCKET-VER013-18 Bender With: 452 Typ L1	LEDs/each optic	1		
C13761_PF-SOCKET-CXA15	Light colour	White		
Image: Classical systems Image: Classical systems Image: Classical systems Image: Classical system	Required compone	nts:		
LED LUXEON CoB 12025 FWHM // FWTM 28.0° / 69.0° Efficiency 81 % Peak intensity 2.2 colin LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VER013-18 C13333_MRELLA-CL Bender Winth: 452 Typ L1 CUMILEDS LED LUXEON CoB 12025 FWHM // FWTM 25.0° / 72.0° Efficiency 85 % Peak intensity 2.6 colin LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VER013-18 Bender Winth: 452 Typ L1 CUMILEDS LED LUXEON CoB 12025 FWHM / FWTM 40.0° / 78.0° Efficiency 82 % Peak intensity 1.5 colin LEDs/each optic 1 LED LUXEON CoB 12025 FWHM / FWTM 40.0° / 78.0° Efficiency 82 % Peak intensity 1.5 colin LEDs/each optic 1	C13761_PF-SO	CKET-CXA15		
LED LUXEON CoB 1202s FWHM / FWTM 28.0° / 99.0° Efficiency 81 % Peak intensity 2.2 col/m LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C13333_MRELLA-CL Bender Wirth: 452 Typ L1 CUMILEDS LED LUXEON CoB 1202s FWHM / FWTM 25.0° / 72.0° Efficiency 85 % Peak intensity 2.6 col/m LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 452 Typ L1 CUMILEDS LED LUXEON CoB 1202s FWHM / FWTM 25.0° / 72.0° Efficiency 82 % Peak intensity 1.5 col/m LED LUXEON CoB 1202s FWHM / FWTM 40.0° / 78.0° Efficiency 82 % Peak intensity 1.5 col/m LEDs/each optic 1				
FWHM / FWTM 28.0° / 69.0° Efficiency 81 % Peak intensity 2.2 cd/m LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VER013-18 C13333_MIRELLA-CL Bender Wirth: 452 Typ L1		EDS		90° 9
Efficiency 81 % Peak intensity 2.2 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL Bender Wirth: 452 Typ L1 CLUMILEDS LED LUXEON CoB 1202s FWHM / FWTM 25.0° / 72.0° Efficiency 85 % Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 452 Typ L1 CUMILEDS LED LUXEON CoB 1202s FWHM / FWTM 40.0° / 78.0° Efficiency 82 % Peak intensity 1.5 cd/lm LEDs/each optic 1	LED	LUXEON CoB 1202s		
Peak intensity 2.2 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VER013-18 C13333_MIRELA-CL Bender Wirth: 452 Typ L1 CUMILEDS LED LUXEON CoB 1202s FWHM / FWTM 25.0° / 72.0° Efficiency 85 % Peak intensity 2.6 cd/m LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VER013-18 Bender Wirth: 452 Typ L1 CUMILEDS LED LUXEON CoB 1202s FWHM / FWTM 40.0° / 78.0° Efficiency 82 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VER013-18 Bender Wirth: 452 Typ L1	FWHM / FWTM	28.0° / 69.0°		
Peak intensity 2.2 cd/m LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VER013-18 C13333_MIRELLA-CL Bender Wirth: 452 Typ L1 CUMILEDS LED LUXEON CoB 1202S FWHM / FWTM 25.0° / 72.0° Efficiency 85 % Peak intensity 2.6 cd/m LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VER013-18 Bender Wirth: 452 Typ L1 CUMILEDS LED LUXEON CoB 1202S FWHM / FWTM 40.0° / 78.0° Efficiency 82 % Peak intensity 1.5 cd/m LED LUXEON CoB 1202S FWHM / FWTM 40.0° / 78.0° Efficiency 82 % Peak intensity 1.5 cd/m	Efficiency	81 %		60*
Light colour White Required components: C13709_PF-SOCKET-VER013-18 C13333_MIRELLA-CL Bender Wirk: 452 Typ L1	Peak intensity	2.2 cd/lm		
Light colour White Required components: C13709_PF-SOCKET-VER013-18 C13333_MIRELLA-CL Bender Wirk: 452 Typ L1		1		
C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL Bender Wirth: 452 Typ L1		White		5°
C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL Bender Wirth: 452 Typ L1	Required compone	nts:		
Bender Wirth: 452 Typ L1	C13709_PF-SO	CKET-VERO13-18		
Image: Constraint of the second se	C13333_MIREL	LA-CL		
LED LUXEON CoB 1202s FWHM / FWTM 25.0° / 72.0° Efficiency 85 % Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 452 Typ L1 CUMILEDS LED LUXEON CoB 1202s FWHM / FWTM 40.0° / 78.0° Efficiency 82 % Peak intensity 1.5 cd/lm LEDs/each optic 1	Bender Wirth: 45	52 Typ L1		30-
LED LUXEON CoB 1202s FWHM / FWTM 25.0° / 72.0° Efficiency 85 % Peak intensity 2.6 cd/m LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 452 Typ L1 LED LUXEON CoB 1202s FWHM / FWTM 40.0° / 78.0° Efficiency 82 % Peak intensity 1.5 cd/m LEDs/each optic 1		EDS		20 20 20 80° 9
FWHM / FWTM 25.0° / 72.0° Efficiency 85 % Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 452 Typ L1 V LUMILEDS LED LUXEON CoB 1202s FWHM / FWTM 40.0° / 78.0° Efficiency 82 % Peak intensity 1.5 cd/lm LEDs/each optic 1				
Efficiency 85 % Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 452 Typ L1				
Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VER013-18 Bender Wirth: 452 Typ L1		85 %		
LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 452 Typ L1				60** °
Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 452 Typ L1		1		
Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 452 Typ L1		White		43 ¹⁴ 1000 a
C13709_PF-SOCKET-VER013-18 Bender Wirth: 452 Typ L1		nts:		
Bender Wirth: 452 Typ L1				
Image: Second				2100
LEDLUXEON CoB 1202sFWHM / FWTM40.0° / 78.0°Efficiency82 %Peak intensity1.5 cd/lmLEDs/each optic1				364
LEDLUXEON CoB 1202sFWHM / FWTM40.0° / 78.0°Efficiency82 %Peak intensity1.5 cd/lmLEDs/each optic1		EDS		<u>227</u> V [*] 25*
FWHM / FWTM40.0° / 78.0°Efficiency82 %Peak intensity1.5 cd/lmLEDs/each optic1				
Efficiency82 %Peak intensity1.5 cd/lmLEDs/each optic1				
Peak intensity 1.5 cd/lm LEDs/each optic 1				
LEDs/each optic 1				
Light colour White				
Required components:				
C13761_PF-SOCKET-CXA15				
C12479_MIRELLA-DL				
	1			



🤭 LUMIL	EDS	8°
LED	LUXEON CoB 1202s	
FWHM / FWTM	32.0° / 71.0°	27
Efficiency	77 %	
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	ar ar
Required compone		
	CKET-VERO13-18	
C12479_MIREL		\times / \times / \times
Bender Wirth: 4	52 Typ L1	30" 25 0° 25
	EDS	90°
LED	LUXEON Z	
FWHM / FWTM	36.0° / 75.0°	
Efficiency	79 %	
Peak intensity	1.5 cd/lm	
LEDs/each optic	4	
Light colour	RGBW	a. a.
Required compone	ents:	
C13083_PF-SO		
C13723_MIREL	LA-RZL	
		304 of 10
LUM	INUS	15% 0 ^k 15 ⁵
LED	CxM-6 (12x13)	
FWHM / FWTM	36.0° / 79.0°	75
Efficiency	85 %	
Efficiency Peak intensity	85 % 1.8 cd/lm	
Peak intensity		
Peak intensity LEDs/each optic	1.8 cd/lm	
Peak intensity	1.8 cd/lm 1 White	00 07 07 08 0 08 0 0 08 0 08 0
Peak intensity LEDs/each optic Light colour	1.8 cd/lm 1 White Ints:	er er 1200
Peak intensity LEDs/each optic Light colour Required compone	1.8 cd/lm 1 White Ints:	e. 200 200 200
Peak intensity LEDs/each optic Light colour Required compone	1.8 cd/lm 1 White Ints:	
Peak intensity LEDs/each optic Light colour Required compone	1.8 cd/lm 1 White mts: CKET	30°
Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO	1.8 cd/lm 1 White Ints: CKET	30°
Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO	1.8 cd/lm 1 White mts: CKET	30°
Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO	1.8 cd/lm 1 White ints: CKET CKET CXM-7 (13x13)	30°
Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO	1.8 cd/lm 1 White ints: CKET CKET CXM-7 (13x13) 38.0° / 79.0°	30°
Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO	1.8 cd/lm 1 White ints: CKET CKET CXM-7 (13x13) 38.0° / 79.0° 86 %	30°
Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO	1.8 cd/lm 1 White INUS CXM-7 (13x13) 38.0° / 79.0° 86 % 1.6 cd/lm	30°
Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO C13083_PF-SO EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1.8 cd/lm 1 White INUS CXM-7 (13x13) 38.0° / 79.0° 86 % 1.6 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO	1.8 cd/lm 1 White INUS CXM-7 (13x13) 38.0° / 79.0° 86 % 1.6 cd/lm 1 White INUS	
Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO C13083_PF-SO EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	1.8 cd/lm 1 White INUS CXM-7 (13x13) 38.0° / 79.0° 86 % 1.6 cd/lm 1 White INUS	
Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO C13083_PF-SO EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	1.8 cd/lm 1 White INUS CXM-7 (13x13) 38.0° / 79.0° 86 % 1.6 cd/lm 1 White INUS	



LUM					
				90°	90*
LED	CxM-9 (13.5x13.5)			75*	
FWHM / FWTM	49.0° / 79.0°				
Efficiency	83 %			60* 40	
Peak intensity	1.1 cd/lm			\times / / /	
LEDs/each optic	1		100	\times /	
Light colour	White			^{5*}	434
Required compone				· ·	
C13083_PF-SO					
C12479_MIREL	LA-DL			30%	»
	INUS			15 ⁷ 0	90
LED	CxM-9 (13.5x13.5)	1000			
FWHM / FWTM	44.0° / 82.0°		1000	75	
Efficiency	88 %		1000		$\mathcal{N}\mathcal{N}$
Peak intensity	1.3 cd/lm			60*	
LEDs/each optic	1				
Light colour	White		1000	er / ****	
Required compone					
C13083_PF-SO				\mathbf{X}	
				12	\sim
				aç•	2
				15° 0	15'
	INUS			90°	90*
		100		80*	90'
LED	CxM-9 (13.5x13.5)			50* 73*	90
LED FWHM / FWTM		1		32 26-	99
LED FWHM / FWTM Efficiency	CxM-9 (13.5x13.5) 48.0° / 78.0°			84	0
LED FWHM / FWTM Efficiency Peak intensity	CxM-9 (13.5x13.5) 48.0° / 78.0° 83 %			99* 29*	0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CxM-9 (13.5x13.5) 48.0° / 78.0° 83 % 1.2 cd/lm			97 97 97	9
LED FWHM / FWTM Efficiency Peak intensity	CxM-9 (13.5x13.5) 48.0° / 78.0° 83 % 1.2 cd/lm 1 White			90* 75 60* 47 47	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CxM-9 (13.5x13.5) 48.0° / 78.0° 83 % 1.2 cd/lm 1 White ents:			95°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CxM-9 (13.5x13.5) 48.0° / 78.0° 83 % 1.2 cd/lm 1 White ents: CKET			95°	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO	CxM-9 (13.5x13.5) 48.0° / 78.0° 83 % 1.2 cd/lm 1 White ents: CKET			30- 61- 12- 13- 13- 14- 14- 14- 14- 14- 14- 14- 14- 14- 14	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO	CxM-9 (13.5x13.5) 48.0° / 78.0° 83 % 1.2 cd/lm 1 White ents: CKET LA-CL			94 94 95 95 95	, ^{72,}
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO C13333_MIREL	CxM-9 (13.5x13.5) 48.0° / 78.0° 83 % 1.2 cd/lm 1 White ents: CKET LA-CL			15% 0	, ^{72,}
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO C13333_MIREL	CxM-9 (13.5x13.5) 48.0° / 78.0° 83 % 1.2 cd/lm 1 White white cKET LA-CL			15% 0	, ^{72,}
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO C13333_MIREL	CxM-9 (13.5x13.5) 48.0° / 78.0° 83 % 1.2 cd/lm 1 White white CKET LA-CL CXM-9 (13.5x13.5)			15% 0	, ^{72,}
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO C13033_MIREL	CxM-9 (13.5x13.5) 48.0° / 78.0° 83 % 1.2 cd/lm 1 White ents: CKET LA-CL CxM-9 (13.5x13.5) 48.0° / 83.0°			15% 0	, ^{72,}
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO C13083_PF-SO C13333_MIREL	CxM-9 (13.5x13.5) 48.0° / 78.0° 83 % 1.2 cd/lm 1 White ents: CKET LA-CL CxM-9 (13.5x13.5) 48.0° / 83.0° 80 %			15% 0	° 12°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO C13083_PF-SO C13033_MIREL	CxM-9 (13.5x13.5) 48.0° / 78.0° 83 % 1.2 cd/lm 1 White ents: CKET LA-CL CxM-9 (13.5x13.5) 48.0° / 83.0° 80 % 1.1 cd/lm			15% 0	0 0000000000000000000000000000000000000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO C13083_PF-SO C13083_MIREL	CxM-9 (13.5x13.5) 48.0° / 78.0° 83 % 1.2 cd/lm 1 White ents: CKET LA-CL CxM-9 (13.5x13.5) 48.0° / 83.0° 80 % 1.1 cd/lm 1 White			15% 0	0 0000000000000000000000000000000000000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO C13333_MIREL C13083_PF-SO C13333_MIREL ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CxM-9 (13.5x13.5) 48.0° / 78.0° 83 % 1.2 cd/lm 1 White ents: CKET LA-CL CxM-9 (13.5x13.5) 48.0° / 83.0° 80 % 1.1 cd/lm 1 White ents:			15% 0	0 0000000000000000000000000000000000000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO C13333_MIREL C13083_PF-SO C13333_MIREL ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CxM-9 (13.5x13.5) 48.0° / 78.0° 83 % 1.2 cd/lm 1 White ents: CKET LA-CL CxM-9 (13.5x13.5) 48.0° / 83.0° 80 % 1.1 cd/lm 1 White ents: CKET			15% 0	0 0000000000000000000000000000000000000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO C13333_MIREL C13083_PF-SO Efficiency Peak intensity LEDs/each optic Light colour Required compone C13083_PF-SO	CxM-9 (13.5x13.5) 48.0° / 78.0° 83 % 1.2 cd/lm 1 White ents: CKET LA-CL CxM-9 (13.5x13.5) 48.0° / 83.0° 80 % 1.1 cd/lm 1 White ents: CKET			15% 0	



		50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB L-Type (LES 11) 46.0° / 78.0° 75 % 1.1 cd/lm 1 White white cKET-VERO13-18 LA-DL	
		20 ¹ 20 ¹ 10 ² 20 ² 20 ²
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone IDEAL: 50-2100	COB L-Type (LES 11) 43.0° / 80.0° 86 % 1.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13333_MIREL	COB L-Type (LES 11) 47.0° / 77.0° 81 % 1.2 cd/lm 1 White ints:	
		90° - 90'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C12479_MIREL	COB L-Type (LES 11) 46.0° / 77.0° 80 % 1.2 cd/lm 1 White ints:	



ØNICHI/	1		90°	94
LED	COB L-Type (LES 11)			\land
FWHM / FWTM	46.0° / 82.0°		75*	
Efficiency	84 %			
Peak intensity	1.3 cd/lm		60 e	
LEDs/each optic	1		X /	()
Light colour	White		95×	
Required compone				800
C14037_PF-NS				
				1200
Maria			20 150	or 15°
ØNICHI∕			90*	
LED	COB L-Type (LES 11)		75*	
FWHM / FWTM	41.0° / 79.0°			$\sqrt{-\sqrt{-7}}$
Efficiency	81 %		60.8	400
Peak intensity	1.4 cd/lm			\square \land \land \land \land
LEDs/each optic	1			
Light colour	White		434	
Required compone				
	OCKET-VERO13-18			
Bender Wirth: 4	38 Typ L1			1200
			30° 15°	0° 15° 3
Marra				F.
ØNICHI∕			90*	
	COB L-Type (LES 11)		90*	9
LED			99* 75*	
LED	COB L-Type (LES 11)		99°	
LED FWHM / FWTM	COB L-Type (LES 11) 45.0° / 75.0°		99°	- 40
LED FWHM / FWTM Efficiency Peak intensity	COB L-Type (LES 11) 45.0° / 75.0° 77 %		80 ³	40
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	COB L-Type (LES 11) 45.0° / 75.0° 77 % 1.2 cd/lm		27. 28. 28.	
LED FWHM / FWTM Efficiency	COB L-Type (LES 11) 45.0° / 75.0° 77 % 1.2 cd/lm 1 White		64 24 23 23 23	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB L-Type (LES 11) 45.0° / 75.0° 77 % 1.2 cd/lm 1 White		6. 2. 33.	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB L-Type (LES 11) 45.0° / 75.0° 77 % 1.2 cd/lm 1 White ents: DCKET-VERO13-18		9°.	200 - C
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO	COB L-Type (LES 11) 45.0° / 75.0° 77 % 1.2 cd/lm 1 White ents: DCKET-VERO13-18 LLA-CL		30° 25° 25° 25°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO C13333_MIREL	COB L-Type (LES 11) 45.0° / 75.0° 77 % 1.2 cd/lm 1 White ents: DCKET-VERO13-18 LLA-CL 38 Typ L1		94 95 95 95 95	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO C13333_MIREL Bender Wirth: 4	COB L-Type (LES 11) 45.0° / 75.0° 77 % 1.2 cd/lm 1 White ents: DCKET-VERO13-18 LLA-CL 38 Typ L1		20. 20. 20. 20. 20. 20. 20. 20. 20. 20.	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO C13333_MIREL Bender Wirth: 4	COB L-Type (LES 11) 45.0° / 75.0° 77 % 1.2 cd/lm 1 White ents: DCKET-VERO13-18 LLA-CL 38 Typ L1		25 26 26 26 26 26 26 26 26 27 29 29 29 29	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO C13333_MIREL Bender Wirth: 4	COB L-Type (LES 11) 45.0° / 75.0° 77 % 1.2 cd/lm 1 White ents: DCKET-VERO13-18 LLA-CL 38 Typ L1 COB L-Type (LES 9)			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO C13333_MIREL Bender Wirth: 4:	COB L-Type (LES 11) 45.0° / 75.0° 77 % 1.2 cd/lm 1 White ents: DCKET-VERO13-18 LLA-CL 38 Typ L1 COB L-Type (LES 9) 38.0° / 78.0°			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO C13333_MIREL Bender Wirth: 4 MICHIA LED FWHM / FWTM Efficiency Peak intensity	COB L-Type (LES 11) 45.0° / 75.0° 77 % 1.2 cd/lm 1 White ents: DCKET-VERO13-18 LA-CL 38 Typ L1 COB L-Type (LES 9) 38.0° / 78.0° 86 %			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO C13333_MIREL Bender Wirth: 4 WICHI/ LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	COB L-Type (LES 11) 45.0° / 75.0° 77 % 1.2 cd/lm 1 White ents: DCKET-VERO13-18 LA-CL 38 Typ L1 COB L-Type (LES 9) 38.0° / 78.0° 86 % 1.6 cd/lm			60 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO C13333_MIREL Bender Wirth: 4	COB L-Type (LES 11) 45.0° / 75.0° 77 % 1.2 cd/lm 1 White ents: DCKET-VERO13-18 LA-CL 38 Typ L1 COB L-Type (LES 9) 38.0° / 78.0° 86 % 1.6 cd/lm 1 White			400 900
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO C13333_MIREL Bender Wirth: 4 WICHIV LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	COB L-Type (LES 11) 45.0° / 75.0° 77 % 1.2 cd/lm 1 White ents: DCKET-VERO13-18 LA-CL 38 Typ L1 COB L-Type (LES 9) 38.0° / 78.0° 86 % 1.6 cd/lm 1 White ents:			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO C13333_MIREL Bender Wirth: 4.	COB L-Type (LES 11) 45.0° / 75.0° 77 % 1.2 cd/lm 1 White ents: DCKET-VERO13-18 LA-CL 38 Typ L1 COB L-Type (LES 9) 38.0° / 78.0° 86 % 1.6 cd/lm 1 White ents:			400 900
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13709_PF-SO C13333_MIREL Bender Wirth: 4.	COB L-Type (LES 11) 45.0° / 75.0° 77 % 1.2 cd/lm 1 White ents: DCKET-VERO13-18 LA-CL 38 Typ L1 COB L-Type (LES 9) 38.0° / 78.0° 86 % 1.6 cd/lm 1 White ents:			400 900



Ø NICHI∕		90* 90*
LED	COB L-Type (LES 9)	
FWHM / FWTM	37.0° / 73.0°	75-
Efficiency	79 %	
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	
Light colour	White	gr da
Required compone	ents:	
C13709_PF-SO	CKET-VERO13-18	
C13333_MIREL	LA-CL	
Bender Wirth: 43	38 Typ L1	30 ⁴ <u>1500</u> 30 ⁴ 35 ⁴
ØNICHI	L	84 Bis
LED	COB L-Type (LES 9)	
FWHM / FWTM	40.0° / 75.0°	
Efficiency	76 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	q* <u>80</u> q*
Required compone	ents:	
C13709_PF-SO	CKET-VERO13-18	
C12479_MIREL	LA-DL	120
Bender Wirth: 43	38 Typ L1	
		25° 4° 25°
LED	COB L-Type (LES 9)	
FWHM / FWTM	35.0° / 77.0°	
Efficiency	87 %	
Peak intensity	1.8 cd/lm	
-		
LEDS/each optic	I	
LEDs/each optic Light colour	1 White	g
LEDs/each optic Light colour Required compone	White	gr [*] (120) (120)
Light colour Required compone	White	9 ⁻ - 120 - 0 ⁻
Light colour Required compone	White ents:	gr
Light colour Required compone	White ents:	
Light colour Required compone	White ents: NC +50-2100MR	
Light colour Required compone IDEAL: 50-2100	White ents: NC +50-2100MR	
Light colour Required compone IDEAL: 50-2100	White ents: NC +50-2100MR	3/6 100100000000000000000000000000000000
Light colour Required compone IDEAL: 50-2100	White ents: NC +50-2100MR COB L-Type (LES 9)	200 00 200 00 200 00 00 00 00 00 00 00 0
Light colour Required compone IDEAL: 50-2100	White ents: NC +50-2100MR COB L-Type (LES 9) 38.0° / 73.0°	200 00 200 00 200 00 00 00 00 00 00 00 0
Light colour Required compone IDEAL: 50-2100	White ents: NC +50-2100MR COB L-Type (LES 9) 38.0° / 73.0° 81 %	
Light colour Required compone IDEAL: 50-2100	White ents: NC +50-2100MR COB L-Type (LES 9) 38.0° / 73.0° 81 % 1.5 cd/lm	
Light colour Required compone IDEAL: 50-2100	White ents: NC +50-2100MR COB L-Type (LES 9) 38.0° / 73.0° 81 % 1.5 cd/lm 1 White	
Light colour Required component IDEAL: 50-2100	White Inst: NC +50-2100MR COB L-Type (LES 9) 38.0° / 73.0° 81 % 1.5 cd/Im 1 White Inst: White White White Inst: White Inst: White White White Inst: White Inst: White Inst: White Wh	200 00 200 00 200 00 00 00 00 00 00 00 0
Light colour Required compone IDEAL: 50-2100 IDEAL: 50-2100	White Inst: NC +50-2100MR COB L-Type (LES 9) 38.0° / 73.0° 81 % 1.5 cd/Im 1 White Inst: White White White Inst: White Inst: White White White Inst: White Inst: White Inst: White Wh	25 ⁻ 0 ⁻ 25 ⁻ 3 ⁻
Light colour Required compone IDEAL: 50-2100 IDEAL: 50-2100	White ents: NC +50-2100MR COB L-Type (LES 9) 38.0° / 73.0° 81 % 1.5 cd/lm 1 White ents: LA-CL	25 ⁻ 0 ⁻ 25 ⁻ 3 ⁻



ØNICHI		90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C12479_MIRELL IDEAL: 50-2100f	A-DL IC +50-2100MR	29 400 400 400 400 400 400 400 40
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13709_PF-SOC Bender Wirth: 43	COB L-Type (LES 9) 34.0° / 76.0° 84 % 1.8 cd/lm 1 White tts: CKET-VERO13-18	25° 0° 55° 0°
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C14037_PF-NS	NSCxL036A 34.0° / 76.0° 85 % 1.9 cd/lm 1 White hts:	99° 92° 23° 400 72° 66° 800 72° 1200 65° 1200 65° 1200 65°
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13083_PF-SOC C13723_MIRELI	CKET	



OSRAM Opto Semiconductors			
LED	Duris S10		
FWHM / FWTM	45.0° / 81.0°		
Efficiency	79 %		
Peak intensity	1.3 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required compone			
C13083_PF-SO			
C12479_MIREL			
0000414			_
OSRAM Opto Semiconductors			
LED	Duris S10		
FWHM / FWTM	38.0° / 82.0°		
Efficiency	87 %		
Peak intensity	1.7 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required compone	ents:		
C13083_PF-SO	CKET		
000044			
OSRAM Opto Semiconductors			
LED	Duris S10		
FWHM / FWTM	43.0°		
Efficiency	%		
LEDs/each optic	1		
Light colour	White		
Required compone	ents:		
C13083_PF-SO	CKET		
C13333_MIREL	LA-CL		
OSRAM			
Opto Semiconductors			
LED	OSTAR Stage (S2WP)		
FWHM / FWTM	36.0° / 78.0°		
Efficiency	83 %		
Peak intensity	1.6 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required compone			
C13083_PF-SO			
C13723_MIREL	LA-RZL		



OSRAM Opto Semiconductors	G13177_9118114-51-4-97-4724_((missi-501,002)	90* 90*
LED	Ostar-SMT RGB	
FWHM / FWTM	37.0° / 77.0°	18. 24.
Efficiency	81 %	-400
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	
Light colour	White	(°,
Required componer	nts:	
C13083_PF-SOC		1200
C13723_MIRELL	_A-RZL	
		30° 300 30° 30°
SEOUL		
	70.4/0	
LED	ZC4/6	75.
FWHM / FWTM	46.0° / 78.0°	
Efficiency	80 % 1.3 cd/lm	60* 60*
Peak intensity		
LEDs/each optic	1 White	
Light colour		
Required componer C13083_PF-SOC		
C13333_MIRELL	A-CL	1220
		30° 30° 30°
SEOUL		50° 50°
SEOUL SEMICONDUCTOR	ZC4/6	99 ⁴
SEOUL SEMICONDUCTOR	ZC4/6 42.0° / 82.0°	35
seoul semiconductor LED FWHM / FWTM	42.0° / 82.0°	99° 99°
seoul semiconductor LED FWHM / FWTM Efficiency	42.0° / 82.0° 86 %	64 64 25 26 26 25 25 25 25
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	42.0° / 82.0° 86 % 1.4 cd/lm	60, 25, 26, 26, 27, 27, 27, 27, 27, 27, 27, 27, 27, 27
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	42.0° / 82.0° 86 %	50 50 50 50 50 50 50 50 50 50
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	42.0° / 82.0° 86 % 1.4 cd/lm 1 White	27. 000 29. 00 29. 0
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	42.0° / 82.0° 86 % 1.4 cd/lm 1 White hts:	73 64 65 70 70 70 70 70 70 70 70 70 70 70 70 70
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	42.0° / 82.0° 86 % 1.4 cd/lm 1 White hts:	99 ⁴ 97 69 ⁴ 97 69 ⁴ 98 99 99 99 99 99 99 90 90 90 90 90 90 90
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	42.0° / 82.0° 86 % 1.4 cd/lm 1 White hts:	73 64 65 70 70 70 70 70 70 70 70 70 70 70 70 70
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13083_PF-SOC	42.0° / 82.0° 86 % 1.4 cd/lm 1 White hts:	77 69 77 77 60 77 77 77 77 77 77 77 77 77 77 77 77 77
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13083_PF-SOC	42.0° / 82.0° 86 % 1.4 cd/lm 1 White hts:	77 69 77 77 60 77 77 77 77 77 77 77 77 77 77 77 77 77
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13083_PF-SOC	42.0° / 82.0° 86 % 1.4 cd/lm 1 White hts: CKET	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13083_PF-SOC	42.0° / 82.0° 86 % 1.4 cd/lm 1 White nts: CKET ZC4/6	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13083_PF-SOC	42.0° / 82.0° 86 % 1.4 cd/lm 1 White nts: CKET ZC4/6 48.0° / 80.0°	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13083_PF-SOC	42.0° / 82.0° 86 % 1.4 cd/lm 1 White nts: CKET ZC4/6 48.0° / 80.0° 81 %	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13083_PF-SOC SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	42.0° / 82.0° 86 % 1.4 cd/lm 1 White nts: CKET ZC4/6 48.0° / 80.0°	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13083_PF-SOC SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	42.0° / 82.0° 86 % 1.4 cd/lm 1 White nts: CKET ZC4/6 48.0° / 80.0° 81 % 1.2 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13083_PF-SOC SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	42.0° / 82.0° 86 % 1.4 cd/lm 1 White nts: CKET ZC4/6 48.0° / 80.0° 81 % 1.2 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13083_PF-SOC SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	42.0° / 82.0° 86 % 1.4 cd/lm 1 White nts: CKET ZC4/6 48.0° / 80.0° 81 % 1.2 cd/lm 1 White nts:	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13083_PF-SOC SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13083_PF-SOC	42.0° / 82.0° 86 % 1.4 cd/lm 1 White nts: CKET ZC4/6 48.0° / 80.0° 81 % 1.2 cd/lm 1 White nts: CKET	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13083_PF-SOC SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	42.0° / 82.0° 86 % 1.4 cd/lm 1 White nts: CKET ZC4/6 48.0° / 80.0° 81 % 1.2 cd/lm 1 White nts: CKET	



SHA	RP	
	Mini Zenigata (GW6BM)	
FWHM / FWTM	46.0° / 78.0°	
Efficiency	81 % 1.3 cd/lm	
Peak intensity		
LEDs/each optic	1 White	
Light colour	White	
Required compone C13083_PF-SO		
C13083_FF-30		
C 13535_MIREE		
SHA	RP	5) ⁴ 50 ⁴
LED	Mini Zenigata (GW6BM)	
FWHM / FWTM	45.0° / 80.0°	
Efficiency	81 %	
Peak intensity	1.1 cd/lm	60 - 40 40 40 40
LEDs/each optic	1	
Light colour	White	
Required compone		
C13083_PF-SO		
C12479_MIREL		
012110_00121		
		30 ⁴ 1200 30 ⁴ 127 0 ⁶ 15 ⁹
SHA	RP	90 ⁴ 90 ⁷
LED	Mini Zenigata (GW6BM)	77
FWHM / FWTM	38.0° / 81.0°	
Efficiency	88 %	60 ¹
Peak intensity	1.5 cd/lm	
LEDs/each optic		
	1	
	1 White	
Light colour Required compone	White ents:	
Light colour	White ents:	ee.
Light colour Required compone	White ents:	ētet
Light colour Required compone	White ents:	
Light colour Required compone C13083_PF-SO	White ents: CKET	
Light colour Required compone C13083_PF-SO	White ents: CKET	20 ⁴ 20 20 ⁴ 20 20 ⁴ 20
Light colour Required compone	White ents: CKET	
Light colour Required compone C13083_PF-SO	White ents: CKET XTM - 9mm LES	20 ⁴ 10 ⁴ 10 ⁴
Light colour Required compone C13083_PF-SO XICATC LED FWHM / FWTM Efficiency	White ents: CKET XTM - 9mm LES 35.0° / 76.0°	20 ⁴ 10 ⁴ 10 ⁴
Light colour Required compone C13083_PF-SO XICATC LED FWHM / FWTM Efficiency Peak intensity	White ents: CKET XTM - 9mm LES 35.0° / 76.0° 83 %	20 ⁴ 20 20 ⁴ 20 20 ⁴ 20
Light colour Required compone C13083_PF-SO XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	White ents: CKET XTM - 9mm LES 35.0° / 76.0° 83 % 1.7 cd/lm	
Light colour Required compone C13083_PF-SO XICATC LED FWHM / FWTM	White ents: CKET XTM - 9mm LES 35.0° / 76.0° 83 % 1.7 cd/lm 1 White	20 ⁴ 20 20 ⁴ 20 20 ⁴ 20
Light colour Required compone C13083_PF-SO XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White ents: CKET XTM - 9mm LES 35.0° / 76.0° 83 % 1.7 cd/lm 1 White ents:	
Light colour Required compone C13083_PF-SO XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	White ents: CKET XTM - 9mm LES 35.0° / 76.0° 83 % 1.7 cd/lm 1 White ents:	
Light colour Required compone C13083_PF-SO XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	White ents: CKET XTM - 9mm LES 35.0° / 76.0° 83 % 1.7 cd/lm 1 White ents:	



LED	XM-L RGBW (XMLDCL HD)
FWHM / FWTM	47.0° / 80.0°
Efficiency	85 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	RGBW
Required components:	
C13083_PF-SOCKET	
C13723_MIRELLA-RZ	<u>l</u>

Protective plate, glass

LUMILEDS

LED LUXEON CoB Compact FWHM / FWTM 32.0° / 71.0° Efficiency 77 % Peak intensity 1.6 cd/lm LEDs/each optic 1 White Light colour Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL Bender Wirth: 452 Typ L1

LUMILEDS

 LED
 LUXEON CoB Compact

 FWHM / FWTM
 40.0° / 78.0°

 Efficiency
 82 %

 Peak intensity
 1.5 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 C13761_PF-SOCKET-CXA15

 C12479_MIRELLA-DL

UMILEDS

LED LUXEON CoB Compact FWHM / FWTM 37.0° / 72.0° Efficiency 77 % Peak intensity 1.5 cd/lm LEDs/each optic 1 White Light colour Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL Bender Wirth: 452 Typ L1



LUMILEDS

LED	LUXEON CoB Compact
FWHM / FWTM	25.0° / 72.0°
Efficiency	85 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13709_PF-SOCKET	-VERO13-18
Bender Wirth: 452 Typ) L1

UMILEDS

LUXEON CoB Compact
41.0° / 78.0°
82 %
1.5 cd/lm
1
White
-CXA15
-

UMILEDS

 LED
 LUXEON CoB Compact

 FWHM / FWTM
 35.0° / 82.0°

 Efficiency
 88 %

 Peak intensity
 1.9 cd/Im

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 C13761_PF-SOCKET-CXA15

		5)* 51*
LED	LUXEON K4	77
FWHM / FWTM	54.0° / 98.0°	20
Efficiency	83 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	g
Required component	ts:	
C13761_PF-SOCKET-CXA15		
C12479_MIRELL/	A-DL	
		30, 32,
		157 04 151



LUMILEDS

LED	LUXEON K4
FWHM / FWTM	46.0° / 84.0°
Efficiency	88 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13761_PF-SOCKET	-CXA15



LED	CxM-14 (19x19)		
FWHM / FWTM	51.0° / 81.0°		
Efficiency	70 %		
Peak intensity	0.9 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required components:			
C13709_PF-SOCK	ET-VERO13-18		
C12479_MIRELLA-	DL		
Bender Wirth: 433 1	⊺yp L1		

 LED
 CxM-14 (19x19)

 FWHM / FWTM
 49.0° / 72.0°

 Efficiency
 75 %

 Peak intensity
 1 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 C13709_PF-SOCKET-VERO13-18

 Bender Wirth: 433 Typ L1
 Kenter State

LED CxM-9 (13.5x13.5) FWHM / FWTM 41.0° / 76.0° Efficiency 76 % Peak intensity 1.3 cd/lm LEDs/each optic 1 White Light colour Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL Bender Wirth: 434 Typ L1



LED CxM-9 (13.5x13.5) FWHM / FWTM 39.0° / 73.0° Efficiency 78 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL Bender Wirth: 434 Typ L1

LED	CxM-9 (13.5x13.5)
FWHM / FWTM	36.0° / 77.0°
Efficiency	84 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13709_PF-SOCKET	-VERO13-18
Bender Wirth: 434 Typ) L1

ΜΝΙCΗΙΛ

LED COB S-Type (LES 7) FWHM / FWTM 28.0° / 69.0° Efficiency 81 % Peak intensity 2.2 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL Bender Wirth: 452 Typ L1

ΜΝΙCΗΙΛ

 LED
 COB S-Type (LES 7)

 FWHM / FWTM
 25.0° / 72.0°

 Efficiency
 85 %

 Peak intensity
 2.6 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 C13709_PF-SOCKET

 Bender Wirth: 452 TUR
 452 TUR



ΜΝΙCΗΙΛ

LED	COB S-Type (LES 7)	
FWHM / FWTM	32.0° / 71.0°	
Efficiency	77 %	
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
C13709_PF-SOCKET-VERO13-18		
C12479_MIRELLA-DI	-	
Bender Wirth: 452 Typ	o L1	

OODAM

OSRAM Opto Semiconductors		90 ⁴ 90 ⁵
LED	Soleriq S15	
FWHM / FWTM	56.0° / 86.0°	
Efficiency	86 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components	8:	80
C13709_PF-SOCK	ET-VERO13-18	
Bender Wirth: 433	Typ L1	
		34 00 01 34
OSRAM Opto Semiconductors		90 ⁴ 90 ⁴
LED	Soleriq S9	
FWHM / FWTM	52.0° / 79.0°	
Efficiency	85 %	00 ⁴ 00 ⁴
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	er er
Required components		
C13083_PF-SOCK		
C13333_MIRELLA	-CL	
		30° 20° 20°
OSRAM Opto Semiconductors		9)*
LED	Soleriq S9	NU N
FWHM / FWTM	38.0° / 77.0°	
Efficiency	88 %	97 87
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	a, ai
Required components		120
C13709_PF-SOCK	ET-VERO13-18	34
		100 ⁻¹ 100 ⁻¹



OSRAM		
Opto Semiconductors		90° 90°
LED	Soleriq S9	75
FWHM / FWTM	46.0° / 82.0°	
Efficiency	91 %	60° 60° 60°
Peak intensity	1.4 cd/lm	
LEDs/each optic	1	
Light colour	White	45 ⁴
Required components:		
C13083_PF-SOCKE	Т	1200
		30° 15° 0° 15° 30°
OSRAM Opto Semiconductors		90*
LED	Soleriq S9	
FWHM / FWTM	50.0° / 80.0°	75
Efficiency	85 %	
Peak intensity	1.2 cd/lm	400- 400-
LEDs/each optic	1	
Light colour	White	gz4 63*
Required components:		
C13083_PF-SOCKE	Т	
C13723_MIRELLA-R		
		30 15° 0° 15°
OSRAM		
Opto Semiconductors		90* 90*
	Soleriq S9	90 ⁴ 90 ⁴
Opto Semiconductors	Soleriq S9 51.0° / 80.0°	75. 50 ⁴ 50 ⁴
Opto Semiconductors		
^{Opto Semiconductors} LED FWHM / FWTM	51.0° / 80.0°	64
opto Semiconductors LED FWHM / FWTM Efficiency	51.0° / 80.0° 85 %	10
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	51.0° / 80.0° 85 % 1.2 cd/lm	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	51.0° / 80.0° 85 % 1.2 cd/lm 1 White	2° 29' 29' 2° 20' 20' 20' 20' 20' 20' 20' 20' 20' 20'
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	51.0° / 80.0° 85 % 1.2 cd/lm 1 White	9° 9° 75 9° 60 6° 60 6°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	51.0° / 80.0° 85 % 1.2 cd/lm 1 White	0° 00 00
opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13083_PF-SOCKE	51.0° / 80.0° 85 % 1.2 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13083_PF-SOCKE C12479_MIRELLA-E	51.0° / 80.0° 85 % 1.2 cd/lm 1 White T	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13083_PF-SOCKE C12479_MIRELLA-D SAMSUN	51.0° / 80.0° 85 % 1.2 cd/lm 1 White T L	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13083_PF-SOCKE C12479_MIRELLA-E SANSUN LED	51.0° / 80.0° 85 % 1.2 cd/lm 1 White T L I L C010C	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13083_PF-SOCKE C12479_MIRELLA-E SANSUN LED FWHM / FWTM	51.0° / 80.0° 85 % 1.2 cd/lm 1 White T L Colloc 32.0° / 74.0°	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13083_PF-SOCKE C12479_MIRELLA-E SANSUN LED FWHM / FWTM Efficiency	51.0° / 80.0° 85 % 1.2 cd/lm 1 White T L C010C 32.0° / 74.0° 87 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13083_PF-SOCKE C12479_MIRELLA-E SANSUN LED FWHM / FWTM Efficiency Peak intensity	51.0° / 80.0° 85 % 1.2 cd/lm 1 White T L CO10C 32.0° / 74.0° 87 % 2.2 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13083_PF-SOCKE C12479_MIRELLA-D SANSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	51.0° / 80.0° 85 % 1.2 cd/lm 1 White T L L CO10C 32.0° / 74.0° 87 % 2.2 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13083_PF-SOCKE C12479_MIRELLA-D SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	51.0° / 80.0° 85 % 1.2 cd/lm 1 White T L CO10C 32.0° / 74.0° 87 % 2.2 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13083_PF-SOCKE C12479_MIRELLA-D SAMSSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	51.0° / 80.0° 85 % 1.2 cd/lm 1 White T LC010C 32.0° / 74.0° 87 % 2.2 cd/lm 1 White	94 99 75 75 75 75 76 70 70 76 70 70 76 70 70 75 70 75 75 70 75 70 70 70 75 70
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13083_PF-SOCKE C12479_MIRELLA-D SAMSSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13709_PF-SOCKE	51.0° / 80.0° 85 % 1.2 cd/lm 1 White T LC010C 32.0° / 74.0° 87 % 2.2 cd/lm 1 White T-VERO13-18	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13083_PF-SOCKE C12479_MIRELLA-D SAMSSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	51.0° / 80.0° 85 % 1.2 cd/lm 1 White T LC010C 32.0° / 74.0° 87 % 2.2 cd/lm 1 White T-VERO13-18	



SAMSU	NG
	LC020C
FWHM / FWTM	35.0° / 75.0°
Efficiency	86 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1 White
Light colour	
Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 479 Typ L1	
SAMSU	NG
LED	LC040C
FWHM / FWTM	42.0° / 79.0°
Efficiency	84 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White
Required component	s:
C13709_PF-SOCKET-VERO13-18	
Bender Wirth: 480	Typ L1
SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM / FWTM	36.0° / 77.0°
Efficiency	84 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White
Required component	
C13709_PF-SOCI	
Bender Wirth: 434	Typ L1
SEOUL	
	ZC4/6
SEOUL SEMICONDUCTOR	
LED	41 0° / 76 0°
LED FWHM / FWTM	41.0° / 76.0° 76 %
LED FWHM / FWTM Efficiency	76 %
LED FWHM / FWTM Efficiency Peak intensity	76 % 1.3 cd/lm
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	76 % 1.3 cd/lm 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	76 % 1.3 cd/lm 1 White
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	76 % 1.3 cd/lm 1 White s:
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	76 % 1.3 cd/lm 1 White s: KET-VERO13-18



SEOUL			
SEOUL SEMICONDUCTOR			
LED	ZC4/6		
FWHM / FWTM	39.0° / 73.0°		
Efficiency	78 %		
Peak intensity	1.5 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

GENERAL INFORMATION:

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

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

MATERIALS:

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

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

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

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LEDiL Oy

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