



RONDA-WAS2-C

Asymmetric beam ideal for floor installations with holder C compatible with LEDiL HEKLA

SPECIFICATION:

Dimensions	Ø 53.9 mm
Height	16 mm
Fastening	socket
ROHS compliant	yes 🛈



MATERIALS:

Component F15862_RONDA-WAS2 F15635_RONDA-HLD-C

Туре
Single lens
Holder

Material	Colour	Finish
PMMA	clear	
PC	white	

ORDERING INFORMATION:

Quantities for one set:

Single lens 1 Holder 1

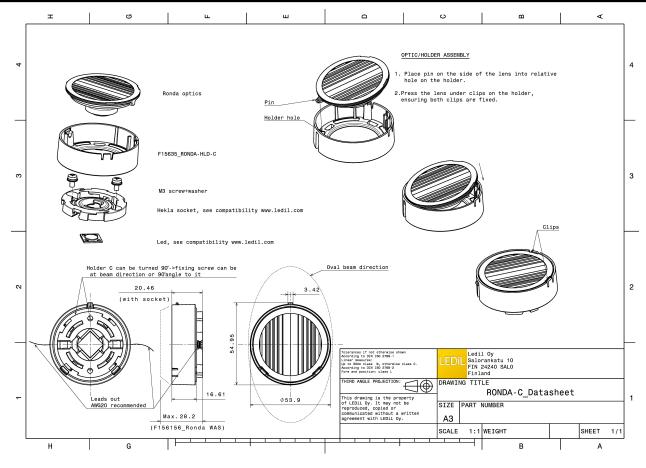


PRODUCT DATASHEET RONDA-WAS2-C

Component		Qty in box	MOQ	MPQ	Box weight (kg)
F15862_RONDA-WAS2 » Box size: 480 x 280 x 300 mm	Single lens	420	120	30	8.3
F15635_RONDA-HLD-C » Box size: 480 x 280 x 300 mm	Holder	420	120	30	4.1



PRODUCT DATASHEET RONDA-WAS2-C



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



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63		
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA		
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA		
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA		



bridgelux. LED FWHM / FWTM	V9 HD Gen7 Asymmetric		92 ⁴ 25 ⁶ 500
Efficiency	89 %	and the second se	
Peak intensity	0.9 cd/lm	Statement Street Street	60* 60*
LEDs/each optic	1		400
Light colour	White		65°
Required compone	nts:		
F15859_HEKLA	-SOCKET-I		600
			20 ² 22 ³ 0 ¹ 22 ³ 20 ⁴
bridgelux.			90° 90°
LED	VERO10		
FWHM / FWTM	Asymmetric		731 6 782
Efficiency	89 %		200
Peak intensity	0.8 cd/lm		50 ⁴ 60 ⁴ .
LEDs/each optic	1		400
Light colour	White		45* 45*
Required compone	nts:		
F15616_HEKLA	-SOCKET-F		610
			24° 60° 23° 20°
bridgelux.			50° 50°
bridgelux, LED	Vesta DTW 13mm (21W)		yy*
	Vesta DTW 13mm (21W) Asymmetric		<u>31</u> ,
LED			94 [*] 99 [*] 75 [*] 99 [*] 77 [*] 99 [*]
LED FWHM / FWTM	Asymmetric		91 ³ 92 ⁴ 92 95 95 96 96 97 97 97 97 97 97 97 97 97 97 97 97 97
LED FWHM / FWTM Efficiency	Asymmetric 85 %		9°* 90' 350 60'
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 85 % 0.6 cd/lm		92 92 93 64 67 67 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 85 % 0.6 cd/lm 1 Tunable White nts:		90° 93° 64° 65° 66° 66° 66° 66°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	Asymmetric 85 % 0.6 cd/lm 1 Tunable White nts: -SOCKET-K		90* 907 73* 907 64* 60 60* 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 85 % 0.6 cd/lm 1 Tunable White nts: -SOCKET-K		92 ⁴ 92 ⁴ 92 ⁴ 92 ⁶ 90 90 90 90 90 90 97 97 97 97 97 97 97 97 97 97 97 97 97
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	Asymmetric 85 % 0.6 cd/lm 1 Tunable White nts: -SOCKET-K		24 ⁻ 25 ⁻ 26 ⁺ 27 ⁻ 26 ⁺ 20 ⁻ 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	Asymmetric 85 % 0.6 cd/lm 1 Tunable White nts: -SOCKET-K		9° 9° 9° 9° 9° 9° 9° 9° 9° 9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45	Asymmetric 85 % 0.6 cd/lm 1 Tunable White nts: -SOCKET-K		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 49	Asymmetric 85 % 0.6 cd/lm 1 Tunable White nts: -SOCKET-K 11 Typ L8 Vesta TW 13mm (25W) CSP Asymmetric		90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45 bridgeLUX. LED FWHM / FWTM Efficiency	Asymmetric 85 % 0.6 cd/lm 1 Tunable White nts: -SOCKET-K 11 Typ L8 Vesta TW 13mm (25W) CSP Asymmetric 85 %		90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45 bridgelux. LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 85 % 0.6 cd/lm 1 Tunable White nts: -SOCKET-K 11 Typ L8 Vesta TW 13mm (25W) CSP Asymmetric		90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45 bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 85 % 0.6 cd/lm 1 Tunable White nts: -SOCKET-K 01 Typ L8 Vesta TW 13mm (25W) CSP Asymmetric 85 % 0.6 cd/lm 1		90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45 bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 85 % 0.6 cd/lm 1 Tunable White nts: -SOCKET-K 21 Typ L8 Vesta TW 13mm (25W) CSP Asymmetric 85 % 0.6 cd/lm 1 White		90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45 bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 85 % 0.6 cd/lm 1 Tunable White nts: -SOCKET-K 21 Typ L8 Vesta TW 13mm (25W) CSP Asymmetric 85 % 0.6 cd/lm 1 White		9 ³ 9 ³ 9 ³ 9 ³ 9 ³ 9 ³ 9 ³ 9 ³



bridgelux.		90* 90*
LED	Vesta TW 6mm DP	
FWHM / FWTM	Asymmetric	75°
Efficiency	84 %	
Peak intensity	0.9 cd/lm	66*
LEDs/each optic	1	400
Light colour	White	45*
Required compone	onts:	640
C16142_HEKLA	A-SOCKET-K	
Bender Wirth: 5	04 Typ L8	000
		15 ⁵ 0 ⁶ 15 ⁶
bridgelux.		50°
LED	Vesta TW 9mm (12W) CSP	
FWHM / FWTM	Asymmetric	78
Efficiency	86 %	200
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 400 45*
Required compone	ents:	
C16142_HEKLA	N-SOCKET-K	
		500
		15° 0¢ 15°
CITIZE	N	50* 50*
LED	CLC020 Series (Dim-To-Warm)	
FWHM / FWTM	Asymmetric	73°
Efficiency	86 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	440
Light colour	White	6
Required compone		
C16142_HEKLA	N-SOCKET-K	640
		30* <u>800</u> 30* 30*
CITIZE	N	
	CLL02x/CLU02x (LES10)	90°
FWHM / FWTM	Asymmetric	734 772
	Asymmetric 87 %	
Efficiency Rock intensity		50* 60*
Peak intensity	0.8 cd/lm 1	
LEDs/each optic		40
Light colour Required compone	White	e.
	3115.	
	SOCKET C	
F15255_HEKLA	-SOCKET-C	60
F15255_HEKLA	-SOCKET-C	
F15255_HEKLA	-SOCKET-C	200 201 201 201 201 201 201 201



OTTTTT	NT	
CITIZE	IN I	90*
LED	CLL03x/CLU03x	
FWHM / FWTM	Asymmetric	
Efficiency	86 %	200 jun
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	S* S*
Required componer		
F15859_HEKLA-	SOCKET-I	
		30* <u>50</u> 30* 30*
CITIZE	N	90 ⁺ 90 ⁺
LED	CLU700/701/702/703	
FWHM / FWTM	Asymmetric	730 731
Efficiency	88 %	
Peak intensity	1 cd/lm	×04 / ×04
LEDs/each optic	1	400
Light colour	White	45*
Required componer	nts:	
F15255_HEKLA	SOCKET-C	
		80
		30° 30° 30°
CITIZE	N	5°*
	N CLU7A2/7A3	
		90° 72°
LED	CLU7A2/7A3	90° 73° 73°
LED FWHM / FWTM	CLU7A2/7A3 Asymmetric	99* 735 60 ⁴ 600
LED FWHM / FWTM Efficiency	CLU7A2/7A3 Asymmetric 89 %	99° 73° 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity	CLU7A2/7A3 Asymmetric 89 % 1.1 cd/lm	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLU7A2/7A3 Asymmetric 89 % 1.1 cd/lm 1 White	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLU7A2/7A3 Asymmetric 89 % 1.1 cd/lm 1 White nts:	97 73 ¹ 64 ² 67 67 86
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CLU7A2/7A3 Asymmetric 89 % 1.1 cd/lm 1 White nts:	97 73 66 ⁴ 67 96 96 96
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CLU7A2/7A3 Asymmetric 89 % 1.1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA-	CLU7A2/7A3 Asymmetric 89 % 1.1 cd/lm 1 White hts: SOCKET-C	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA-	CLU7A2/7A3 Asymmetric 89 % 1.1 cd/lm 1 White nts: SOCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA-	CLU7A2/7A3 Asymmetric 89 % 1.1 cd/lm 1 White nts: SOCKET-C N LCN-C01B (Tunable White)	25 26 26 27 26 27 27 27 27 27 27 27 27 27 27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA-	CLU7A2/7A3 Asymmetric 89 % 1.1 cd/lm 1 White hts: SOCKET-C N LCN-C01B (Tunable White) Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA- CITTIZE LED FWHM / FWTM Efficiency	CLU7A2/7A3 Asymmetric 89 % 1.1 cd/lm 1 White hts: SOCKET-C N LCN-C01B (Tunable White) Asymmetric 86 %	77
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA- T5255_HEKLA- Efficiency Peak intensity	CLU7A2/7A3 Asymmetric 89 % 1.1 cd/lm 1 White hts: SOCKET-C N LCN-C01B (Tunable White) Asymmetric 86 % 0.6 cd/lm	77
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA- T5255_HEKLA- ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLU7A2/7A3 Asymmetric 89 % 1.1 cd/lm 1 White hts: SOCKET-C N LCN-C01B (Tunable White) Asymmetric 86 %	77
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA- ET5255_HEKLA- ET5255_HEKLA- ET5255_HEKLA- FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLU7A2/7A3 Asymmetric 89 % 1.1 cd/lm 1 White hts: SOCKET-C N LCN-C01B (Tunable White) Asymmetric 86 % 0.6 cd/lm 1 White	77
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA- CITTIZEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CLU7A2/7A3 Asymmetric 89 % 1.1 cd/lm 1 White hts: SOCKET-C N LCN-C01B (Tunable White) Asymmetric 86 % 0.6 cd/lm 1 White hts:	77
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA- CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA	CLU7A2/7A3 Asymmetric 89 % 1.1 cd/lm 1 White hts: SOCKET-C N LCN-C01B (Tunable White) Asymmetric 86 % 0.6 cd/lm 1 White hts: -SOCKET-K	77
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA- CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CLU7A2/7A3 Asymmetric 89 % 1.1 cd/lm 1 White hts: SOCKET-C N LCN-C01B (Tunable White) Asymmetric 86 % 0.6 cd/lm 1 White hts: -SOCKET-K	77



CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15256_HEKLA		
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15254_HEKLA		200 200 00 00 00 00 00 00 00 00
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA		
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA		



LED LEDS	CXA/B 13xx		90* 90*
LED FWHM / FWTM			75°
Efficiency	Asymmetric 89 %		
		and the second se	604 60*
Peak intensity	1 cd/lm		-400
LEDs/each optic	1 White		
Light colour			45' 600 45'
Required compone F15956_HEKLA			
1 13930_HERE	-300RE1-3		800
			30* 15 ³ 0 ⁶ 15 ⁴ 30*
LED	CXA/B 15xx		
FWHM / FWTM	Asymmetric		75°
Efficiency	89 %		200
Peak intensity	0.8 cd/lm		60* 607
LEDs/each optic	1		
Light colour	White		45*
Required compone			
F15256_HEKLA			610
_			
			800
			30° 30° 30° 30°
🥙 LUMIL	EDS	And in case of the local division in which the local division is not the local division in the local division is not the local division in the local division is not the local division in the local division is not the local division in the local division is not the local division in the local division is not the local division in the local division is not the local division in the local division is not the local division in the local division is not the local division is not the local division in the local division is not the local division in the local division is not the local division in the local division is not the local division in the local division in the local division is not the local division in the local division in the local division is not the local division in the loc	90° 90°
LED	LUXEON CX Plus CoB L08 (Gen2)		
FWHM / FWTM	Asymmetric		
Efficiency	88 %		60e 60e
Peak intensity	0.7 cd/lm	the second s	
LEDs/each optic	1	and the second se	
Light colour	White		43°
Required compone			
Bender Wirth: 6	37a Hekla		
			30"
	FDS		
			90° 90'
	LUXEON CoB 1202HD		750 / 750
FWHM / FWTM	Asymmetric	and the second se	
Efficiency	92 %		50* 50*
Peak intensity	1 cd/lm	and the second se	400
LEDs/each optic Light colour	1 White		
	White		45* 45*
Boguirod company			
Required compone	nts:		
Required compone F15848_HEKLA	nts:		00
	nts:		
	nts:		30 ⁺ 25 ² 0 ⁰ 13 ² 30 ⁴



	EDS	20* 20*
LED	LUXEON CoB 1202s	
FWHM / FWTM	Asymmetric	72 72
Efficiency	89 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	00
F15848_HEKLA		
		*
		33* 39*
	FDS	
	LUXEON CoB 1204HD	781
FWHM / FWTM	Asymmetric	
Efficiency	91 %	av av
Peak intensity	0.8 cd/lm	
LEDs/each optic	1 M/hite	
Light colour	White	s. / / s.
Required compone		60
F15858_HEKLA	4-200KE1-H	
		30* 80 15* 0* 12* 31*
	.EDS	90*
LED	LUXEON CoB 1205HD	
FWHM / FWTM	Asymmetric	
Efficiency	90 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	er 40
Required compone	ents:	
F15858_HEKLA	A-SOCKET-H	
		60
	EDS	7 <u>191</u> <u>191</u>
		30°
LED	LUXEON CX Plus CoB - HD S01H4	25 28
FWHM / FWTM	Asymmetric	
Efficiency	89 %	50 ⁴
Peak intensity	1.1 cd/lm	40
LEDs/each optic	1	
Light colour	White	
Required compone		
Bender Wirth: 6	34c Hekla	
		307
		15° 0° 15°



UMIL	EDS	90* 91*
LED	LUXEON CX Plus CoB - HD S02H6	
FWHM / FWTM	Asymmetric	730
Efficiency	89 %	
Peak intensity	1.1 cd/lm	50* 50*
LEDs/each optic	1	
Light colour	White	
Required compone		
Bender Wirth: 6		800
		(30* 30 [*] 15* 30 [*]
UMIL	EDS	50° 50°
LED	LUXEON CX Plus CoB - HD S04H9	
FWHM / FWTM	Asymmetric	
Efficiency	89 %	605
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	400
Light colour	White	97°
Required compone	ents:	
Bender Wirth: 6	34c Hekla	
		36° 000 30°
	EDS	90° 15° 940
LED	LUXEON CX Plus CoB L04 / L05 (Gen2)	
FWHM / FWTM	Asymmetric	75*
Efficiency	89 %	200
Peak intensity	0.8 cd/lm	60°
LEDs/each optic	1	
Light colour	White	gyr 400 gy
Required compone	ents:	
Bender Wirth: 6		
		600
		30*
		 15° 0° 15°
🥙 LUMIL	EDS	90° 90
LED	LUXEON CX Plus CoB M02 / M03 (Gen2)	
FWHM / FWTM	Asymmetric	75 (200) 75
Efficiency	89 %	605
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	43*
Required compone	ents:	
Bender Wirth: 6	41a Hekla	
		364 36
		15° 0° 15°



LUMIL		
	EDS	90° 90°
LED	LUXEON CX Plus CoB S01 (Gen2)	
FWHM / FWTM	Asymmetric	73
Efficiency	89 %	$ \land \forall \lor \lor$
Peak intensity	1.1 cd/m	60° 400
LEDs/each optic	1	
Light colour	White	9
Required compone		
Bender Wirth: 63		800
		15° 0° 15°
	NUS	90*
LED	CDM-14 (Dim-To-Warm)	
FWHM / FWTM	Asymmetric	75°
Efficiency	82 %	
Peak intensity	0.6 cd/lm	- 60° - 60°
LEDs/each optic	1	
Light colour	White	45+ 45+
Required compone	nts:	400
C16142_HEKLA	SOCKET-K	
Bender Wirth: 49	1 Typ L8	
		30°
	NUS	
LED	CDM-6 (Dim-To-Warm)	
FWHM / FWTM	Asymmetric	75%
Efficiency		
Efficiency	85 %	
Efficiency Peak intensity	85 % 0.8 cd/lm	50 ⁴ 60*
-		60*
Peak intensity	0.8 cd/lm	6 ⁴
Peak intensity LEDs/each optic Light colour Required compone	0.8 cd/lm 1 White nts:	60 ¹ 60 ¹
Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	0.8 cd/lm 1 White hts: SOCKET-K	50° 60°
Peak intensity LEDs/each optic Light colour Required compone	0.8 cd/lm 1 White hts: SOCKET-K	60° 60°
Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	0.8 cd/lm 1 White hts: SOCKET-K	
Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45	0.8 cd/m 1 White hts: SOCKET-K 0 Typ L8	
Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45	0.8 cd/m 1 White hts: SOCKET-K 0 Typ L8	
Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 49	0.8 cd/m 1 White hts: SOCKET-K 0 Typ L8 NUS CDM-9 (Dim-To-Warm)	
Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45	0.8 cd/m 1 White hts: SOCKET-K 0 Typ L8 NUS CDM-9 (Dim-To-Warm) Asymmetric	
Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45	0.8 cd/m 1 White ts: SOCKET-K 0 Typ L8 NUS CDM-9 (Dim-To-Warm) Asymmetric 85 %	
Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4S	0.8 cd/m 1 White hts: SOCKET-K 0 Typ L8 NUS CDM-9 (Dim-To-Warm) Asymmetric 85 % 0.8 cd/m	
Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4S	0.8 cd/m 1 White hts: -SOCKET-K 0 Typ L8 NUS CDM-9 (Dim-To-Warm) Asymmetric 85 % 0.8 cd/m 1	
Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 49 CEE LUMI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.8 cd/lm 1 White hts: -SOCKET-K 0 Typ L8 NUS CDM-9 (Dim-To-Warm) Asymmetric 85 % 0.8 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4S	0.8 cd/m 1 White hts: SOCKET-K 0 Typ L8 NUS CDM-9 (Dim-To-Warm) Asymmetric 85 % 0.8 cd/m 1 White hts:	
Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4S EDE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	0.8 cd/m 1 White hts: SOCKET-K 0 Typ L8 NUS CDM-9 (Dim-To-Warm) Asymmetric 85 % 0.8 cd/m 1 White hts: SOCKET-K	
Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4S	0.8 cd/m 1 White hts: SOCKET-K 0 Typ L8 NUS CDM-9 (Dim-To-Warm) Asymmetric 85 % 0.8 cd/m 1 White hts: SOCKET-K	



C LUMI	NUS	94*	90*
LED	CTM-14 (Tunable White)		
FWHM / FWTM	Asymmetric	775	75°
Efficiency	83 %		
Peak intensity	0.6 cd/lm	60 ⁴	60*
LEDs/each optic	1		
Light colour	White	45*	45+
Required compone	nts:	40	
C16142_HEKLA			
Bender Wirth: 44	12 Typ L8		\mathbb{N}
		29* 29* 29*	30*
	NUS	80-	90*
LED	CTM-9 (Tunable White)		
FWHM / FWTM	Asymmetric	75%	78
Efficiency	85 %	200	X
Peak intensity	0.8 cd/lm	505	60*
LEDs/each optic	1		$\langle \rangle$
Light colour	White	45*	45*
Required component	nts:		\mathbf{V}
C16142_HEKLA	-SOCKET-K		
Bender Wirth: 49			
			~
		/30*	
	NUC	13° 13° 23° 13°	30*
		20 ⁴ 20 20 20	30*
LED	CxM-14 (19x19)	20 ⁴ 20 ⁴ 20 ⁴	90°
LED FWHM / FWTM	CxM-14 (19x19) Asymmetric	30° 30° 30°	90°
LED FWHM / FWTM Efficiency	CxM-14 (19x19) Asymmetric 87 %	30* 20 30 30* 30 30* 30 40* 200	30°
LED FWHM / FWTM Efficiency Peak intensity	CxM-14 (19x19) Asymmetric 87 % 0.6 cd/lm	5° 20 200	30° 90° 75°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CxM-14 (19x19) Asymmetric 87 % 0.6 cd/lm 1	200 200	30°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CxM-14 (19x19) Asymmetric 87 % 0.6 cd/lm 1 White	5° 20 200	99 ⁻ 99 ⁻ 99 ⁻ 90 ⁻ 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CxM-14 (19x19) Asymmetric 87 % 0.6 cd/lm 1 White nts:	5° 20 20 40 40 40 40 40 40 40 40 40 40 40 40 40	90 ⁻ 90 ⁻ 75 ⁻
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CxM-14 (19x19) Asymmetric 87 % 0.6 cd/lm 1 White nts:	5° <u>5°</u> <u>5°</u> <u>5°</u> <u>5°</u> <u>5°</u> <u>5°</u> <u>5°</u> <u>5</u>	30 ⁵ 90 ⁴ 75 ⁵ 60 ⁵ 60 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CxM-14 (19x19) Asymmetric 87 % 0.6 cd/lm 1 White nts:	3° 20 50 50 50 50 50 50 50 50 50 50 50 50 50	95° 95° 75° 66°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CxM-14 (19x19) Asymmetric 87 % 0.6 cd/lm 1 White nts:	200	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CxM-14 (19x19) Asymmetric 87 % 0.6 cd/lm 1 White nts: -SOCKET-I		90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15859_HEKLA	CxM-14 (19x19) Asymmetric 87 % 0.6 cd/lm 1 White nts: -SOCKET-I		30
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15859_HEKLA	CxM-14 (19x19) Asymmetric 87 % 0.6 cd/lm 1 White nts: -SOCKET-I		30 90' 90' 90' 90' 90' 90' 90' 90' 90' 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15859_HEKLA:	CxM-14 (19x19) Asymmetric 87 % 0.6 cd/lm 1 White nts: -SOCKET-I		30 30 30 30 30 30 30 30 30 30
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15859_HEKLA	CxM-14 (19x19) Asymmetric 87 % 0.6 cd/lm 1 White nts: -SOCKET-I		30 30 30 30 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15859_HEKLA:	CxM-14 (19x19) Asymmetric 87 % 0.6 cd/lm 1 White nts: -SOCKET-I		30 30 30 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15859_HEKLA: T15859_HEKLA: ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CxM-14 (19x19) Asymmetric 87 % 0.6 cd/lm 1 White nts: -SOCKET-I NUS CXM-4 Asymmetric 88 % 1 cd/lm		30
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15859_HEKLA:	CxM-14 (19x19) Asymmetric 87 % 0.6 cd/lm 1 White nts: -SOCKET-I		30 90 75 60 60 73 90 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15859_HEKLA F15859_HEKLA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CxM-14 (19x19) Asymmetric 87 % 0.6 cd/lm 1 White nts: SOCKET-I		30 90 90 90 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15859_HEKLA: F15859_HEKLA: ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CxM-14 (19x19) Asymmetric 87 % 0.6 cd/lm 1 White nts: SOCKET-I		30 30 30 30 30 30 30 30 50 60 60 60 60 60 60 60 60 60 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15859_HEKLA: Efficiency Peak intensity LEDs/each optic Light colour Required component	CxM-14 (19x19) Asymmetric 87 % 0.6 cd/lm 1 White nts: SOCKET-I		30 ³ 90 ⁴ 775 80 ⁴ 90 ⁴ 90 ⁴ 775 80 ⁴ 80 ⁴ 90 ⁴



ELUM	INUS	90° 90°
LED	CxM-9 (13.5x13.5)	
FWHM / FWTM	Asymmetric	730 750
Efficiency	88 %	
Peak intensity	0.8 cd/lm	.60° 60°
LEDs/each optic	1	
Light colour	White	45"
Required compone	ents:	
F15255_HEKLA		640
<i>N</i>		 30* 113 ⁵ 200 115* 30*
ØNICHI/	•	90* 90*
LED	NJCWL024Z-V1MT: COB L-Type Tunable White	A
FWHM / FWTM	Asymmetric	73°
Efficiency	82 %	al ⁴ or
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	-65+ 65+
Required compone		
C16142_HEKLA		
Bender Wirth: 4	97 Typ L8	
		30* 15* 0° 15* 30*
ØNICHI	N	50° 50°
LED	NVCWJ024Z-V1MT: COB J-Type Tunable White	
FWHM / FWTM	Asymmetric	75
Efficiency	86 %	60° 60°
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	aze 400 aze
Required compone		
C16142_HEKLA	A-SOCKET-K	
Bender Wirth: 4	98 Typ L8	600
		36° 15° 0° 15° 36°
PHILIF	DS	90 ⁴ 90 ⁴
LED	Fortimo SLM L09 CoB	
FWHM / FWTM	Asymmetric	75
Efficiency	90 %	200
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	63*
Required compone		
F15858_HEKLA		640
_		
		30°
		15°



PHILI	PS	90* 90*
LED	Fortimo SLM L13 CoB	
FWHM / FWTM	Asymmetric	73*
Efficiency	88 %	504 S200 S00
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	92. J
Required compone	ents:	400
C16142_HEKL	A-SOCKET-K	
Bender Wirth: 4	32 Typ L8	
		30° 660 30°
SAMS	UNG	90 ⁴ 90 ⁵
LED	LC003D / LC006D / LC009D / LC013D	
FWHM / FWTM	Asymmetric	73%
Efficiency	87 %	
Peak intensity	0.8 cd/lm	50 ⁴
LEDs/each optic	1	
Light colour	White	45+ 400
Required compone	ents:	
F15255_HEKLA	A-SOCKET-C	500
0.0.0.0		13 20 19
SAMS	JNG	90* 90*
LED	LC010C	
FWHM / FWTM	Asymmetric	75* 75
Efficiency	87 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	40
Light colour	White	6. C
Required compone		200
F15848_HEKLA	A-SOCKET-G	
		800
		30* 30
SЛМS	ING	13' 0' 13'
		90° 90°
	LC010C G2	750
FWHM / FWTM	Asymmetric	200
Efficiency	88 %	
Peak intensity	1 cd/lm	400
LEDs/each optic	1	
Light colour	White	45' 60
Required compone		
F15255_HEKLA	A-500KE1-0	800
		$K / T \setminus \mathcal{V}$
		30+ 30



SAMSU	JNG	90° 91
LED	LC010T (Tunable White)	
FWHM / FWTM	Asymmetric	73
Efficiency	86 %	505
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	Tunable White	5° 400
Required compone	nts:	
C16142_HEKLA	-SOCKET-K	
Bender Wirth: 50)1 Тур L8	
		34 ⁴ 137 0 ⁴ 137
<u> </u> S M S I 	JNG E	20*
LED	LC016D / LC019D / LC026D / LC033D	
FWHM / FWTM	Asymmetric	
Efficiency	87 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	400
F15859_HEKLA		
		20 ⁴
<u> </u> S M S I	JNG	8*
LED	LC020C	
FWHM / FWTM	Asymmetric	75%
Efficiency	88 %	
Peak intensity	0.8 cd/lm	.604
LEDs/each optic	1	40
Light colour	White	457
Required compone	nts:	
F15848_HEKLA	-SOCKET-G	eio
		30* 15 ⁵ 0 ⁶ 15* 3
SAMSI	JNG	20° 0° 12° 12° 12°
		20* 25 ⁵ 0* 25 ⁵
LED	LC020C G2	90° 133° 0° 133° 1
LED FWHM / FWTM	LC020C G2 Asymmetric	90- 39+ 39- 39- 39- 200
LED FWHM / FWTM Efficiency	LC020C G2 Asymmetric 87 %	90° 90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity	LC020C G2 Asymmetric 87 % 0.8 cd/lm	90 ⁴ 20 ⁴ 30 ⁴ 30 ⁴ 30 ⁴ 50 ⁴ 50 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC020C G2 Asymmetric 87 % 0.8 cd/lm 1	20 ⁴ 20 ⁶ 25 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC020C G2 Asymmetric 87 % 0.8 cd/lm 1 White	201 201 201 201 201 201 201 201 201 201
SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859 HEKLA	LC020C G2 Asymmetric 87 % 0.8 cd/lm 1 White nts:	20* 20 ⁰ 20 ⁰ 20 ⁰
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC020C G2 Asymmetric 87 % 0.8 cd/lm 1 White nts:	20 ⁴ 20 ⁴ 20 ⁴ 20 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC020C G2 Asymmetric 87 % 0.8 cd/lm 1 White nts:	201 201 201 201 201 201 201 201 201 201



SAMSUNG LED LC020T (Tunable white) FWHM / FWTM Asymmetric Efficiency 86 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 501 Typ L8 **	
FWHM / FWTM Asymmetric Efficiency 86 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 501 Typ L8 TRIDONIC	- 200 - 000
Efficiency 86 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 501 Typ L8 TRIDONIC	-20 -00
Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 501 Typ L8 TRIDONIC	- 200 - 00 - 00
LEDs/each optic 1 Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 501 Typ L8 TRIDONIC	- 40
Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 501 Typ L8 TRIDONIC	- 400
C16142_HEKLA-SOCKET-K Bender Wirth: 501 Typ L8	400
Bender Wirth: 501 Typ L8 TRIDONIC	
TRIDONIC	
	600 0° 15° 30'
	90
LED SLE G7 LES09	
FWHM / FWTM Asymmetric	775
Efficiency 89 %	
Peak intensity 0.8 cd/lm	× × × *
LEDs/each optic 1	400
Light colour White	5
Required components:	
F15255_HEKLA-SOCKET-C	600
30°	800 0° 15° 30'
TRIDONIC	
LED SLE G7 LES13	×**
FWHM / FWTM Asymmetric	
Efficiency 86 %	
Peak intensity 0.6 cd/lm	200
LEDs/each optic 1	
Light colour White	
Required components:	400
F15859_HEKLA-SOCKET-I	
Jack and the set	600 0° 10° 30
TRIDONIC	90
LED SLE G7 LES15	
FWHM / FWTM Asymmetric	
Efficiency 86 %	
Peak intensity 0.6 cd/lm	200
LEDs/each optic 1	
Light colour White	
Required components:	400
F15859_HEKLA-SOCKET-I	



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	XOB 14.5 mm Asymmetric 87 % 0.6 cd/lm 1 White ents:	50° 70° 60°	200 60 60
XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XTM - 19mm LES Asymmetric 83 % 0.5 cd/lm 1 White	30* 129 00 00 00	500 20 20 20 20 20 20 20 20 20 20 20 20 2
Required compone C16058_XTM-A	ents:	30. 30'	60 60



OPTICAL RESULTS (SIMULATED):

bridgelux.		50°
LED	V10 Gen 8	75*
FWHM / FWTM	Asymmetric	200
Efficiency	87 %	60° 60°
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	400
Light colour	White	42,
Required components:		
F15255_HEKLA-SO	CKET-C	600
		300 000 300
		(<u>139</u> <u>0</u> <u>139</u>
bridgelux.		90° 90°
LED	V10 Gen7	
FWHM / FWTM	Asymmetric	
Efficiency	0 %	50 ⁵
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	400
Light colour	White	5+ 5+
Required components:		
F15255_HEKLA-SO	CKET-C	600
		an ^e 800 ane
1		15° 0° 15°
bridgelux.		90° 90°
bridgelux.	V13 Gen7	99 ⁴ 99 ⁴ 99 ⁴
LED	V13 Gen7 Asymmetric	25- 25- 25- 25- 25- 25- 25- 25- 25- 25-
LED FWHM / FWTM	Asymmetric	
LED FWHM / FWTM Efficiency	Asymmetric 86 %	
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 86 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 86 % 0.7 cd/lm 1	121 01 127 1 101 121 1 1 1 101 121 1 1 1 1 101 121 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 86 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 86 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 86 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 86 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 86 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 86 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC	Asymmetric 86 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC	Asymmetric 86 % 0.7 cd/lm 1 White CKET-I	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC bridgelux. LED FWHM / FWTM Efficiency	Asymmetric 86 % 0.7 cd/lm 1 White CKET-I VERO13 Asymmetric 83 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC bridgelux. LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 86 % 0.7 cd/lm 1 White CKET-I VERO13 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 86 % 0.7 cd/lm 1 White CKET-I VERO13 Asymmetric 83 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 86 % 0.7 cd/lm 1 White CKET-I VERO13 Asymmetric 83 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 86 % 0.7 cd/lm 1 White CKET-1 VERO13 Asymmetric 83 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 86 % 0.7 cd/lm 1 White CKET-1 VERO13 Asymmetric 83 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 86 % 0.7 cd/lm 1 White CKET-1 VERO13 Asymmetric 83 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 86 % 0.7 cd/lm 1 White CKET-1 VERO13 Asymmetric 83 % 0.7 cd/lm 1 White	



OPTICAL RESULTS (SIMULATED):

		30* 3
LED	CXA/B 1830	
FWHM / FWTM	Asymmetric	7
Efficiency	86 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	g.
Required components:		440
C16142_HEKLA-SC	CKET-K	
Bender Wirth: 457 T		
		20 ⁰ 00 02 02 02
	DS	94. 9
LED	LUXEON CoB L04/L05	
FWHM / FWTM	Asymmetric	101
Efficiency	87 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	á. 40
Required components:		
F15254_HEKLA-SO	CKET-B	
		00
		<u>125</u> 04 132 3
	DS	30 ⁺
LED	LUXEON CoB L08	20
FWHM / FWTM	Asymmetric	
Efficiency	86 %	00
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	e.
Required components:		40
C16142_HEKLA-SC	CKET-K	
Bender Wirth: 457 T	yp L8	
		20 ⁵ 060 12 ⁵
	DS	
LED	LUXEON CoB M02/M03	
FWHM / FWTM	Asymmetric	
Efficiency	89 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
F15256_HEKLA-SO	CKET-D	



OPTICAL RESULTS (SIMULATED):

UMILEDS	3	LU	Μ	LE	DS
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LED	LUXEON CoB S01			
FWHM / FWTM	Asymmetric			
Efficiency	90 %			
Peak intensity	1.1 cd/lm			
LEDs/each optic	1			
Light colour	White			
Required components:				
F15956_HEKLA-SOCKET-J				

ØNICHIA

LED	COB T-Type		
FWHM / FWTM	Asymmetric		
Efficiency	83 %		
Peak intensity	1.1 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required components:			
F15848 HEKLA-SOCKET-G			

/lm XICATO LED XTM - 9mm LES FWHM / FWTM Asymmetric Efficiency 92 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components: C16058_XTM-ADAPTER-50-C



GENERAL INFORMATION:

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

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

MATERIALS:

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

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