

PRODUCT DATASHEET WINNIE-O-C

WINNIE-O-C

~60° + 20° oval beam with holder C compatible with LEDiL HEKLA

SPECIFICATION:

Dimensions	Ø 50.0 mm
Height	19.5 mm
Fastening	socket
ROHS compliant	yes 🛈



MATERIALS:

Component C14760_WINNIE-O C15821_WINNIE-HLD-C

Туре
Single lens
Holder

Material	Colour	Finish
PMMA	clear	
PC	black	

ORDERING INFORMATION:

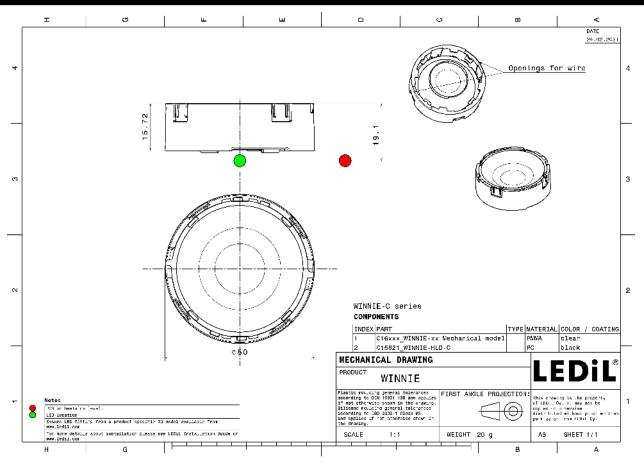
Quantities for one set:

Single lens 1 Holder 1



Component		Qty in box	MOQ	MPQ	Box weight (kg)
C14760_WINNIE-O » Box size: 480 x 280 x 300 mm	Single lens	364	84	28	7.0
C15821_WINNIE-HLD-C » Box size: 400 x 300 x 300 mm	Holder	420		28	4.1

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



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA		
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LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA		



LED VERO13 PMM /FWTM 58.0 + 2.0 / 2.2 + 56.0° Efficancy 81% Repaired components: C16142_HEKLASOCKET-K Efficancy 79% Peak intensity 1.1 cdm LED VERO118 FVMM /FWTM 58.0 + 69.0° Efficancy 79% Peak intensity 1.1 cdm LED Vesta DTW 13mm (21W) FVMM /FWTM 55.0 + 69.0° Efficancy 79% Peak intensity 1.1 cdm LED Vesta DTW 13mm (21W) FVMM /FWTM 55.0 + 69.0° Efficancy 79% Peak intensity 1.3 cdm LED/each optic 1 Liph colour Turable Write C16142_HEKLASOCKET-K Binder Write: 401 Typ L8 Efficancy 88% Peak intensity 1.4 cdm LED/each optic 1 Liph colour Write: 401 Typ L8 Efficancy 88% Peak intensity 1.4 cdm LED/each optic 1 Liph colour Write: 401 Typ L8 Efficancy 88% Peak intensity 1.4 cdm LED/each optic 1 Liph colour Write: 401 Typ L8 Efficancy 88% Peak intensity 1.4 cdm LED/each optic 1 Liph colour Write: 401 Typ L8 Efficancy 88% Peak intensity 1.4 cdm LED/each optic 1 Liph colour Write: 401 Typ L8 Efficancy 88% Peak intensity 1.4 cdm LED/each optic 1 Liph colour Write: 401 Typ L8				
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PVHM/ PVTM 68.0 + 25.0 / 82.0 + 65.0 ° Efficiency 81 % Peak intensity 14 colum Lephroachoure 1 Light colour White Required components: C16142_HEKL&SOCKET.K Efficiency 73 % Peak intensity 1.1 colum LED VER018 PVHM/ FVTM 52.0 + 33.0 / 85.0 + 65.0 ° Efficiency 73 % Peak intensity 1.1 colum LED Verta DTW 13mm (21W) PVHM/ FVTM 56.0 + 28.0 / 82.0 + 85.0 ° Efficiency 73 % Peak intensity 1.1 colum LED Verta DTW 13mm (21W) PVHM/ FVTM 56.0 + 28.0 / 82.0 + 85.0 ° Efficiency 73 % Peak intensity 1.1 colum LED Verta DTW 13mm (21W) PVHM/ FVTM 56.0 + 28.0 / 82.0 + 85.0 ° Efficiency 73 % Peak intensity 1.3 colum LED Verta DTW 13mm (21W) PVHM/ FVTM 56.0 + 28.0 / 82.0 + 55.0 ° Efficiency 73 % Peak intensity 1.3 colum LED Verta DTW 13mm (21W) PVHM/ FVTM 56.0 + 28.0 / 81.0 + 65.0 ° Efficiency 73 % Peak intensity 1.3 colum LED Verta DTW 13mm (25W) CSP Peak intensity 1.3 colum LED Vesta TW 13mm (25W) CSP Peak intensity 1.4 colum LED Vesta TW	LED	VERO13		
Peak intensity 1 4 cd/m LEDs/each optic 1 LED VERO18 FVHM / FVTM 520+34.0*/85.0+69.0* Efficiency 73% Peak intensity 11 cd/m LED Vesta DTW 13mm (21W) FVHM / FVTM 56.0+28.0*/85.0+69.0* Efficiency 73% Peak intensity 11 cd/m LEDs/each optic 1 LQh cdour White Required components: C16142_HEKLA-SOCKET-K Bender With: 431 Typ L8 CMGCOL LED Vesta TW 13mm (25W) CSP FVHM / FVTM ST.0+28.0*/81.0+57.0* Efficiency 80% CMGCOL LED Vesta TW 13mm (25W) CSP FVHM / FVTM ST.0+28.0*/81.0+57.0* Efficiency 80% CMGCOL LED Vesta TW 13mm (25W) CSP FVHM / FVTM ST.0+28.0*/81.0+57.0* Efficiency 80% CMGCOL LED Vesta TW 13mm (25W) CSP FVHM / FVTM ST.0+28.0*/81.0+57.0* Efficiency 80% Peak intensity 14 cd/m LEDs/each optic 1 LQh cdour White Required components: C16142_HEKLA-SOCKET-K Bender With: 432 Typ L8	FWHM / FWTM	58.0 + 25.0° / 82.0 + 56.0°		
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LED VER013 FVHM / FVHM / 52.0 + 34.0 / /85.0 + 69.0 * Efficiency 79 % Peak intensity 1.1 cd/m LED/seach optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wintt: 491 Typ L8 CondgetA LED Vesta DTW 13mm (25W) CSP FVHM / FVTM 57.0 + 28.0 * / 81.0 + 57.0 * Efficiency 80 % Peak intensity 1.4 cd/m LED/seach optic 1 LED Vesta TW 13mm (25W) CSP FVHM / FVTM 57.0 + 28.0 * / 81.0 + 57.0 * Efficiency 80 % Peak intensity 1.4 cd/m LED/seach optic 1 LED Vesta TW 13mm (25W) CSP FVHM / FVTM 57.0 + 28.0 * / 81.0 + 57.0 * Efficiency 80 % Peak intensity 1.4 cd/m LED/seach optic 1 LED Vesta TW 13mm (25W) CSP FVHM / FVTM S7.0 + 28.0 * / 81.0 + 57.0 * Efficiency 80 % Peak intensity 1.4 cd/m LED/seach optic 1 LED Vesta TW 13mm (25W) CSP FVHM / FVTM S7.0 + 28.0 * / 81.0 + 57.0 * Efficiency 80 % Peak intensity 1.4 cd/m LED/seach optic 1 LED/seach optic 1 LED Vesta TW 13mm (25W) CSP FVHM / FVTM S7.0 + 28.0 * / 81.0 + 57.0 * Efficiency 80 % Peak intensity 1.4 cd/m LED/seach optic 1 LIght colour White Required components: C16142_HEKLA-SOCKET-K Bender Wintt: 492 Typ L8	Required compone	nts:		
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Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 492 Typ L8				
Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 492 Typ L8	Peak intensity	1.4 cd/lm		
C16142_HEKLA-SOCKET-K Bender Wirth: 492 Typ L8	Peak intensity LEDs/each optic	1.4 cd/lm 1		
Bender Wirth: 492 Typ L8	Peak intensity LEDs/each optic Light colour	1.4 cd/lm 1 White	-	
	Peak intensity LEDs/each optic Light colour Required compone	1.4 cd/lm 1 White nts:		97 - 28
	Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	1.4 cd/lm 1 White nts: -SOCKET-K		5 ²⁷ 6 ²⁷
	Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	1.4 cd/lm 1 White nts: -SOCKET-K		



-		
bridgelux.		
LED	Vesta TW 6mm DP	
FWHM / FWTM	59.0 + 16.0° / 77.0 + 42.0°	
Efficiency	80 %	
Peak intensity	2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
C16142_HEKL	A-SOCKET-K	
Bender Wirth: 5	04 Тур L8	
bridgelux.		
LED	Vesta TW 9mm (12W) CSP	
FWHM / FWTM	57.0 + 20.0° / 78.0 + 49.0°	35
Efficiency	81 %	
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
C16142_HEKLA	A-SOCKET-K	
CITIZE	'N	
LED		
FWHM / FWTM	CLC020 Series (Dim-To-Warm) 58.0 + 20.0° / 78.0 + 49.0°	
Efficiency	81 %	
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
C16142_HEKLA		
_		
CITIZE	'N	2.7 W 107
LED FWHM / FWTM	CLC030 Series (Dim-To-Warm)	
	56.0 + 30.0° / 83.0 + 61.0° 79 %	
Efficiency Peak intensity		5 / ⁶⁹ / w
LEDs/each optic	1.3 cd/lm 1	
LEDS/each optic	White	
Required compone		
C16142_HEKLA		
CIUI42_REAL		
L		



CITIZE	:N		1.1	
LED FWHM / FWTM Efficiency Peak intensity	CLL02x/CLU02x (LES10) 63.0 + 23.0° / 81.0 + 52.0° 80 %		R	NZ.
LEDs/each optic	1.5 cd/lm 1			
Light colour	White		92 - 30	- 1 -
Required compone				
F15255_HEKLA				
				R.
CITIZE	N		12	
LED	CLU700/701/702/703			1 tonto
FWHM / FWTM	63.0 + 18.0° / 79.0 + 43.0°		25 June 1	KX -
Efficiency	82 %			IXX S
Peak intensity	1.8 cd/lm			
LEDs/each optic	1		\rightarrow	A Ver
Light colour	White			
Required compone	ents:			
F15255_HEKLA	A-SOCKET-C		Add	1 M
017175	'NT			
('I'I'Z L'				
			an	N *
LED	CLU7A2/7A3			
LED FWHM / FWTM	CLU7A2/7A3 62.0 + 17.0° / 78.0 + 37.0°		n.	NE
CITIZE LED FWHM / FWTM Efficiency	CLU7A2/7A3 62.0 + 17.0° / 78.0 + 37.0° 83 %		80 95 97	NE.
LED FWHM / FWTM Efficiency Peak intensity	CLU7A2/7A3 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm		et and	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLU7A2/7A3 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1		5. 35 5 6	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLU7A2/7A3 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1 White		95 57	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLU7A2/7A3 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1 White ents:		95 57	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CLU7A2/7A3 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1 White ents: A-SOCKET-C		25	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU7A2/7A3 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1 White ents: 			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM	CLU7A2/7A3 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1 White ents: -SOCKET-C - N LCN-C01B (Tunable White) 58.0 + 20.0° / 77.0 + 50.0°			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency	CLU7A2/7A3 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1 White ents: -SOCKET-C N LCN-C01B (Tunable White) 58.0 + 20.0° / 77.0 + 50.0° 81 %			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity	CLU7A2/7A3 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1 White ents: A-SOCKET-C CN-CO1B (Tunable White) 58.0 + 20.0° / 77.0 + 50.0° 81 % 1.7 cd/lm			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLU7A2/7A3 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1 White ents: N-SOCKET-C 'N LCN-C01B (Tunable White) 58.0 + 20.0° / 77.0 + 50.0° 81 % 1.7 cd/lm 1			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLU7A2/7A3 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1 White ents: N-SOCKET-C CN-C01B (Tunable White) 58.0 + 20.0° / 77.0 + 50.0° 81 % 1.7 cd/lm 1 White			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLU7A2/7A3 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1 White ents: A-SOCKET-C CN-C01B (Tunable White) 58.0 + 20.0° / 77.0 + 50.0° 81 % 1.7 cd/lm 1 White ents:			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	CLU7A2/7A3 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1 White ents: A-SOCKET-C N LCN-C01B (Tunable White) 58.0 + 20.0° / 77.0 + 50.0° 81 % 1.7 cd/lm 1 White ents: A-SOCKET-K			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLU7A2/7A3 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1 White ents: A-SOCKET-C N LCN-C01B (Tunable White) 58.0 + 20.0° / 77.0 + 50.0° 81 % 1.7 cd/lm 1 White ents: A-SOCKET-K			

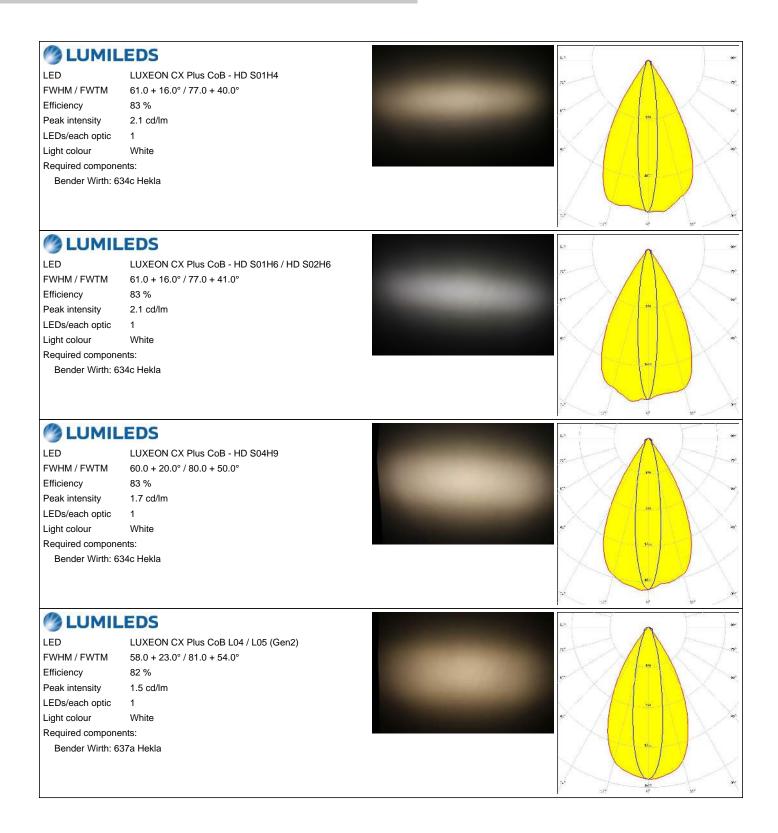


LED	CMT14xx	
FWHM / FWTM	61.0 + 22.0° / 81.0 + 52.0°	
Efficiency	83 %	
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
F15255_HEKLA	-SUCKET-C	
	D	
LED	CMT19xx	
FWHM / FWTM	57.0 + 28.5° / 84.0 + 61.0°	
Efficiency	81 %	- 20 - 10 - 10 - 10 - 10 - 10 - 10 - 10
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
F15859_HEKLA	-SOCKET-I	
	D	
LED	CXA/B 13xx	
FWHM / FWTM	64.0 + 19.0° / 79.0 + 43.0°	
Efficiency	83 %	
Peak intensity	1.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
F15956_HEKLA	A-SOCKET-J	
	.EDS	
	EDS LUXEON CX Plus CoB L08 (Gen2) 56.0 + 28.0° / 83.0 + 61.0°	
LED	LUXEON CX Plus CoB L08 (Gen2)	
LED FWHM / FWTM	LUXEON CX Plus CoB L08 (Gen2) 56.0 + 28.0° / 83.0 + 61.0°	
LED FWHM / FWTM Efficiency	LUXEON CX Plus CoB L08 (Gen2) 56.0 + 28.0° / 83.0 + 61.0° 82 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CX Plus CoB L08 (Gen2) 56.0 + 28.0° / 83.0 + 61.0° 82 % 1.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB L08 (Gen2) 56.0 + 28.0° / 83.0 + 61.0° 82 % 1.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB L08 (Gen2) 56.0 + 28.0° / 83.0 + 61.0° 82 % 1.3 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB L08 (Gen2) 56.0 + 28.0° / 83.0 + 61.0° 82 % 1.3 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON CX Plus CoB L08 (Gen2) 56.0 + 28.0° / 83.0 + 61.0° 82 % 1.3 cd/lm 1 White ents:	



	FDS	
LED		
EED FWHM / FWTM	LUXEON CoB 1202HD	
Efficiency	63.0 + 18.0° / 78.0 + 43.0° 83 %	
Peak intensity	1.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
F15848_HEKLA		
1 10040_HERE/	COOKET O	
	EDS	
LED	LUXEON CoB 1202s	
EED FWHM / FWTM	64.0 + 18.0° / 79.0 + 43.0°	
Efficiency	83 %	
Peak intensity	1.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
F15848_HEKLA		
1.100.10_112.12		142
		X N Z
	.EDS	
LED	LUXEON CoB 1204HD	»
FWHM / FWTM	61.0 + 21.0° / 80.0 + 49.0°	
Efficiency	83 %	
Peak intensity	1.7 cd/lm	
LEDs/each optic		
	1	
Light colour	White	er
Required compone	White ents:	
	White ents:	
Required compone	White ents:	
Required compone	White ents:	
Required compone	White ents: -SOCKET-H	
Required compone F15858_HEKLA	White ents: -SOCKET-H	
Required compone F15858_HEKLA	White ents: A-SOCKET-H	
Required compone F15858_HEKLA	White ents: -SOCKET-H .EDS LUXEON CoB 1205HD	
Required compone F15858_HEKLA	White ents: -SOCKET-H .EDS LUXEON CoB 1205HD 59.0 + 24.0° / 81.0 + 54.0°	
Required compone F15858_HEKLA	White ents: -SOCKET-H .EDS LUXEON CoB 1205HD 59.0 + 24.0° / 81.0 + 54.0° 83 %	
Required compone F15858_HEKLA	White ents: -SOCKET-H LUXEON CoB 1205HD 59.0 + 24.0° / 81.0 + 54.0° 83 % 1.5 cd/lm 1 White	
Required compone F15858_HEKLA	White ents: -SOCKET-H LUXEON CoB 1205HD 59.0 + 24.0° / 81.0 + 54.0° 83 % 1.5 cd/lm 1 White	
Required compone F15858_HEKLA	White ents: -SOCKET-H LUXEON CoB 1205HD 59.0 + 24.0° / 81.0 + 54.0° 83 % 1.5 cd/lm 1 White ents:	
Required compone F15858_HEKLA	White ents: -SOCKET-H LUXEON CoB 1205HD 59.0 + 24.0° / 81.0 + 54.0° 83 % 1.5 cd/lm 1 White ents:	
Required compone F15858_HEKLA	White ents: -SOCKET-H LUXEON CoB 1205HD 59.0 + 24.0° / 81.0 + 54.0° 83 % 1.5 cd/lm 1 White ents:	







LUMIL	EDS		
LED	LUXEON CX Plus CoB M02 / M03 (Gen2)	and the second sec	
FWHM / FWTM	58.0 + 19.0° / 78.0 + 48.0°		
Efficiency	83 %		
Peak intensity	1.8 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required compone			
Bender Wirth: 6			X X X
			and the first of the second se
	EDS		135
LED	LUXEON CX Plus CoB S01 (Gen2)		\wedge
FWHM / FWTM	60.0 + 16.0° / 77.0 + 40.0°		
Efficiency	83 %		
Peak intensity	2.1 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required compone			
Bender Wirth: 6			
Dender Wittil. 6	HE HERIA		
	EDS		
LED	LUXEON Fusion 12-up (20x24)		
FWHM / FWTM	59.0 + 17.0° / 77.0 + 45.0°		
Efficiency	82 %		
Peak intensity	1.9 cd/lm		
LEDs/each optic	1		
Light colour	Tunable White		
Required compone	nts:		
C16142_HEKLA			
Bender Wirth: 4			
	NUS		
LED	CxM-14 (19x19)	100 C	
FWHM / FWTM	58.0 + 29.0° / 84.0 + 60.0°		
Efficiency	81 %		
Peak intensity	1.3 cd/lm		
LEDs/each optic	1		
	White		200
Light colour			
Light colour Required compone	nts:		
Light colour	nts:		
Light colour Required compone	nts:		



	INUS	1.7	*
LED	CXM-4		
FWHM / FWTM	62.0 + 16.0° / 78.0 + 39.0°	23	
Efficiency	82 %		
Peak intensity	2 cd/lm		co
LEDs/each optic	1		
Light colour	White		a
Required compone			
F15255_HEKLA			
_			
	INUS		*
LED	CxM-9 (13.5x13.5)		
FWHM / FWTM	62.0 + 23.0° / 81.0 + 52.0°	n de la constante de	
Efficiency	82 %		
Peak intensity	1.5 cd/lm		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
LEDs/each optic	1		
Light colour	White) an
Required compone			
F15255_HEKLA		the second se	
			\sim
PHILI	06		-1-
LED	Fortimo SLM L09 CoB	25	-/
FWHM / FWTM	60.0 + 20.0° / 80.0 + 50.0°		
Efficiency	83 %		60
Peak intensity	1.7 cd/lm 1		
LEDs/each optic			14
Light colour		e Alexandre and a second se	
	White		~ ~
Required compone	White ents:		
Light colour Required compone F15858_HEKLA	White ents:		X
Required compone	White ents:		R
Required compone	White ents:		Z
Required compone F15858_HEKLA	White ents:		<u> </u>
Required compone F15858_HEKLA	White ents: -SOCKET-H		
Required compone F15858_HEKLA	White ents: -SOCKET-H PS Fortimo SLM L13 CoB 27.0 + 55.0° / 58.0 + 81.0°		
Required compone F15858_HEKLA PHILLE LED FWHM / FWTM Efficiency	White ents: -SOCKET-H S Fortimo SLM L13 CoB 27.0 + 55.0° / 58.0 + 81.0° 81 %		
Required compone F15858_HEKLA PHILLE LED FWHM / FWTM Efficiency Peak intensity	White ents: -SOCKET-H PS Fortimo SLM L13 CoB 27.0 + 55.0° / 58.0 + 81.0°		
Required compone F15858_HEKLA PHILLE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	White ents: -SOCKET-H S Fortimo SLM L13 CoB 27.0 + 55.0° / 58.0 + 81.0° 81 % 1.4 cd/lm 1		
Required compone F15858_HEKLA	White ents: -SOCKET-H S Fortimo SLM L13 CoB 27.0 + 55.0° / 58.0 + 81.0° 81 % 1.4 cd/lm 1 White		
Required compone F15858_HEKLA	White ents: -SOCKET-H S Fortimo SLM L13 CoB 27.0 + 55.0° / 58.0 + 81.0° 81 % 1.4 cd/lm 1 White ents:		
Required compone F15858_HEKLA	White P-SOCKET-H Fortimo SLM L13 CoB 27.0 + 55.0° / 58.0 + 81.0° 81 % 1.4 cd/lm 1 White P-SOCKET-K		
Required compone F15858_HEKLA	White P-SOCKET-H Fortimo SLM L13 CoB 27.0 + 55.0° / 58.0 + 81.0° 81 % 1.4 cd/lm 1 White P-SOCKET-K		
Required compone F15858_HEKLA	White P-SOCKET-H Fortimo SLM L13 CoB 27.0 + 55.0° / 58.0 + 81.0° 81 % 1.4 cd/lm 1 White P-SOCKET-K		



		10 - 3 mg
PHILIP	25	15.7 mm
LED	Fortimo SLM L15 CoB	
FWHM / FWTM	54.0 + 30.0° / 83.0 + 63.0°	
Efficiency	80 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
C16142_HEKLA	A-SOCKET-K	
Bender Wirth: 4	32 Typ L8	
SAMSI	JNG	
LED	LC003D / LC006D / LC009D / LC013D	
FWHM / FWTM	62.0 + 22.0° / 81.0 + 51.0°	
Efficiency	82 %	
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
F15255_HEKLA		
		\times \times \times \times \times
0.0.0.0		
SAMSI	JNG	
LED	LC010C	
FWHM / FWTM	65.0 + 20.0° / 80.0 + 46.0°	
Efficiency	81 %	
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
F15848_HEKLA	SOCKET C	
	-SOCKET-G	
	-SUCKET-G	
	-300KE1-3	
	JNG	
	UNG LC010C G2	
SAMSI	JNG	
SAMS LED FWHM / FWTM	UNG LC010C G2 62.0 + 17.0° / 78.0 + 41.0°	
SAMS LED FWHM / FWTM Efficiency Peak intensity	UNG LC010C G2 62.0 + 17.0° / 78.0 + 41.0° 82 %	
SAMS LED FWHM / FWTM Efficiency	UNG LC010C G2 62.0 + 17.0° / 78.0 + 41.0° 82 % 1.9 cd/lm	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	UNG LC010C G2 62.0 + 17.0° / 78.0 + 41.0° 82 % 1.9 cd/lm 1 White	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	UNG LC010C G2 62.0 + 17.0° / 78.0 + 41.0° 82 % 1.9 cd/lm 1 White ents:	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	UNG LC010C G2 62.0 + 17.0° / 78.0 + 41.0° 82 % 1.9 cd/lm 1 White ents:	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	UNG LC010C G2 62.0 + 17.0° / 78.0 + 41.0° 82 % 1.9 cd/lm 1 White ents:	



	JNG	
LED	LC016D / LC019D / LC026D / LC033D	
FWHM / FWTM	58.0 + 29.0° / 85.0 + 62.0°	
Efficiency	80 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required componer	nts:	
F15859_HEKLA-	-SOCKET-I	
<u> </u>	JNG	
LED	LC020C	
FWHM / FWTM	63.0 + 21.0° / 81.0 + 48.0°	
Efficiency	82 %	
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required componer	nts:	
F15848_HEKLA-		
SAMSL		
	LC020C G2	# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
FWHM / FWTM	61.0 + 20.0° / 81.0 + 47.0° 82 %	
Efficiency Peak intensity	82 % 1.7 cd/lm	
-	1	
	1	
	W/bito	
LEDs/each optic Light colour	White	s
Light colour Required componer	nts:	
Light colour	nts:	
Light colour Required componer	nts:	5°
Light colour Required componer	nts:	
Light colour Required componer F15859_HEKLA-	nts: -SOCKET-I	
Light colour Required componer	nts: -SOCKET-I	
Light colour Required componer F15859_HEKLA-	nts: -SOCKET-I	
Light colour Required componer F15859_HEKLA- TRIDON LED FWHM / FWTM	nts: -SOCKET-I IIC SLE G7 LES09	
Light colour Required componer F15859_HEKLA- TRIDON LED FWHM / FWTM Efficiency	nts: -SOCKET-I IIC SLE G7 LES09 62.0 + 21.0° / 81.0 + 49.0°	
Light colour Required componer F15859_HEKLA-	nts: -SOCKET-I SLE G7 LES09 62.0 + 21.0° / 81.0 + 49.0° 82 %	
Light colour Required componer F15859_HEKLA- TRIDON LED FWHM / FWTM Efficiency Peak intensity	nts: -SOCKET-I SLE G7 LES09 62.0 + 21.0° / 81.0 + 49.0° 82 % 1.6 cd/lm	
Light colour Required componer F15859_HEKLA- TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	nts: -SOCKET-I SLE G7 LES09 62.0 + 21.0° / 81.0 + 49.0° 82 % 1.6 cd/lm 1 White	
Light colour Required componer F15859_HEKLA- TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	nts: -SOCKET-I SLE G7 LES09 62.0 + 21.0° / 81.0 + 49.0° 82 % 1.6 cd/lm 1 White nts:	
Light colour Required componen F15859_HEKLA- TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	nts: -SOCKET-I SLE G7 LES09 62.0 + 21.0° / 81.0 + 49.0° 82 % 1.6 cd/lm 1 White nts:	



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15859_HEKL/	SLE G7 LES13 59.0 + 27.0° / 83.0 + 58.0° 80 % 1.3 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKL/	SLE G7 LES15 58.0 + 29.0° / 85.0 + 62.0° 80 % 1.2 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKL/	XOB 14.5 mm 58.0 + 29.0° / 84.0 + 61.0° 80 % 1.2 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15255_HEKL/	XOB 9.8 mm 62.0 + 22.0° / 81.0 + 51.0° 82 % 1.6 cd/lm 1 White ents:	



r				
bridgelux.			e	30*
LED	VERO10			
FWHM / FWTM	59.0 + 18.0° / 78.0 + 45.0°		21	/~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Efficiency	83 %			
Peak intensity	1.9 cd/lm		5 / Jan -	
LEDs/each optic	1			A N
Light colour	White		6	
Required components			$\sim / / / / /$	
F15616_HEKLA-S				X
I ISOTO_HEREA-S	OCKET-I			
				30*
CITIZEN	T		1	P 1
				1
LED	CLL03x/CLU03x		21	Lando
FWHM / FWTM	58.0 + 26.0° / 82.0 + 57.0°			$\langle \sim \rangle$
Efficiency	77 %		m / / m /	1 / w
Peak intensity	1.4 cd/lm		\times / 1	XX
LEDs/each optic	1			KX
Light colour	White		× / / =**	
Required components				
F15859_HEKLA-S	OCKET-I			1
				\times

OTTITT	т			
CITIZEN	J			
	J CLU710/711			*
LED	CLU710/711			K
LED FWHM / FWTM	CLU710/711 61.0 + 18.0° / 78.0 + 42.0°			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
LED FWHM / FWTM Efficiency	CLU710/711 61.0 + 18.0° / 78.0 + 42.0° 83 %		er A	
LED FWHM / FWTM Efficiency Peak intensity	CLU710/711 61.0 + 18.0° / 78.0 + 42.0° 83 % 2.1 cd/lm		er A	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLU710/711 61.0 + 18.0° / 78.0 + 42.0° 83 % 2.1 cd/lm 1 White		er A	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLU710/711 61.0 + 18.0° / 78.0 + 42.0° 83 % 2.1 cd/lm 1 White S:		er A	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	CLU710/711 61.0 + 18.0° / 78.0 + 42.0° 83 % 2.1 cd/lm 1 White S:		er A	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	CLU710/711 61.0 + 18.0° / 78.0 + 42.0° 83 % 2.1 cd/lm 1 White S:		er A	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-St	CLU710/711 61.0 + 18.0° / 78.0 + 42.0° 83 % 2.1 cd/lm 1 White S:		er A	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	CLU710/711 61.0 + 18.0° / 78.0 + 42.0° 83 % 2.1 cd/lm 1 White S:		er A	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-St	CLU710/711 61.0 + 18.0° / 78.0 + 42.0° 83 % 2.1 cd/lm 1 White S:			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-S	CLU710/711 61.0 + 18.0° / 78.0 + 42.0° 83 % 2.1 cd/lm 1 White 5: OCKET-I			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-St CREE \$ LED LED	CLU710/711 61.0 + 18.0° / 78.0 + 42.0° 83 % 2.1 cd/lm 1 White S: OCKET-I CXA/B 15xx			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-St CREE CLED LED FWHM / FWTM	CLU710/711 61.0 + 18.0° / 78.0 + 42.0° 83 % 2.1 cd/lm 1 White S: OCKET-I CXA/B 15xx 59.0 + 17.0° / 79.0 + 42.0°			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-St CREE LED LED FWHM / FWTM Efficiency	CLU710/711 61.0 + 18.0° / 78.0 + 42.0° 83 % 2.1 cd/lm 1 White S: OCKET-I CXA/B 15xx 59.0 + 17.0° / 79.0 + 42.0° 84 %			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-St Efficiency Peak intensity	CLU710/711 61.0 + 18.0° / 78.0 + 42.0° 83 % 2.1 cd/lm 1 White 3: OCKET-I CXA/B 15xx 59.0 + 17.0° / 79.0 + 42.0° 84 % 2.1 cd/lm			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-S CREE \$ LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLU710/711 61.0 + 18.0° / 78.0 + 42.0° 83 % 2.1 cd/lm 1 White 3: OCKET-I CXA/B 15xx 59.0 + 17.0° / 79.0 + 42.0° 84 % 2.1 cd/lm 1 White			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-St CREE CLED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLU710/711 61.0 + 18.0° / 78.0 + 42.0° 83 % 2.1 cd/lm 1 White S: OCKET-I CXA/B 15xx 59.0 + 17.0° / 79.0 + 42.0° 84 % 2.1 cd/lm 1 White S:			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-St CREE CLED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	CLU710/711 61.0 + 18.0° / 78.0 + 42.0° 83 % 2.1 cd/lm 1 White S: OCKET-I CXA/B 15xx 59.0 + 17.0° / 79.0 + 42.0° 84 % 2.1 cd/lm 1 White S:			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-St CREE CLED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	CLU710/711 61.0 + 18.0° / 78.0 + 42.0° 83 % 2.1 cd/lm 1 White S: OCKET-I CXA/B 15xx 59.0 + 17.0° / 79.0 + 42.0° 84 % 2.1 cd/lm 1 White S:			



LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	
FWHM / FWTM	56.0 + 13.0° / 75.0 + 35.0°	
Efficiency	86 %	
Peak intensity	2.7 cd/lm	
LEDs/each optic	1	
Light colour	White	of the second of the
Required components:		
F15254_HEKLA-SO	CKET-B	
LED	CXA/B 1830	
FWHM / FWTM	60.0 + 28.0° / 84.0 + 60.0°	
Efficiency	79 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	4° / 10 / 10
Required components:		
C16142_HEKLA-SO	CKET-K	
Bender Wirth: 457 T		
		. 19 ¹ 6 ¹ 10 ¹
	XP-G3	
CREE 2 LED LED FWHM / FWTM	XP-G3 58.0 + 14.0° / 76.0 + 32.0°	
LED		
LED FWHM / FWTM	58.0 + 14.0° / 76.0 + 32.0°	
LED FWHM / FWTM Efficiency	58.0 + 14.0° / 76.0 + 32.0° 84 %	
LED FWHM / FWTM Efficiency Peak intensity	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2- F17438_HEKLA-G2-	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White -1 COB T-Type	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2- F17438_HEKLA-G2- ED FWHM / FWTM Efficiency	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White -1 COB T-Type 62.0 + 18.0° / 78.0 + 38.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2: F17438_HEKLA-G2: EFWHM / FWTM Efficiency Peak intensity	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White -I COB T-Type 62.0 + 18.0° / 78.0 + 38.0° 83 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2- WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White -1 COB T-Type 62.0 + 18.0° / 78.0 + 38.0° 83 % 2.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White -1 COB T-Type 62.0 + 18.0° / 78.0 + 38.0° 83 % 2.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White -1 COB T-Type 62.0 + 18.0° / 78.0 + 38.0° 83 % 2.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2· WINCHIN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White -1 COB T-Type 62.0 + 18.0° / 78.0 + 38.0° 83 % 2.1 cd/lm 1 White	52 25 27 27 27 27 27 27 27 27 27 27 27 27 27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2- WIM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White -1 COB T-Type 62.0 + 18.0° / 78.0 + 38.0° 83 % 2.1 cd/lm 1 White	



ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NFSWE11A 58.0 + 18.0° / 76.0 + 42.0° 74 % 1.9 cd/lm 30 White	
OSRAM		
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-	OSLON Square CSSRM2/CSSRM3 58.0 + 14.0° / 74.0 + 30.0° 86 % 2.7 cd/lm 1 White	
OSRAM Opto Semiconductors		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC	Soleriq S13 19x19 57.0 + 24.0° / 81.0 + 54.0° 83 % 1.6 cd/lm 1 White CKET-I	
OSRAM		
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOC	Soleriq S9 59.0 + 20.0° / 80.0 + 48.0° 85 % 1.8 cd/lm 1 White CKET-C	



(ALONE)		7
SEQUE SEMICONDUCTOR		······
LED	MJT COB LES 14.5	
FWHM / FWTM	58.0 + 30.0° / 84.0 + 62.0°	A
Efficiency	80 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	* / <mark>*</mark>
Required components:		
F15859_HEKLA-SO	CKET-I	
		155 e 'ur
		1. The second
SEOUL SEMICONDUCTOR		A
LED	MJT COB LES 9.8	# AAAA
FWHM / FWTM	60.0 + 22.0° / 80.0 + 51.0°	n
FWHM / FWTM Efficiency	60.0 + 22.0° / 80.0 + 51.0° 83 %	
FWHM / FWTM	60.0 + 22.0° / 80.0 + 51.0°	u du
FWHM / FWTM Efficiency	60.0 + 22.0° / 80.0 + 51.0° 83 %	
FWHM / FWTM Efficiency Peak intensity	60.0 + 22.0° / 80.0 + 51.0° 83 % 1.7 cd/lm	u du
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	60.0 + 22.0° / 80.0 + 51.0° 83 % 1.7 cd/lm 1 White	50 - 50
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	60.0 + 22.0° / 80.0 + 51.0° 83 % 1.7 cd/lm 1 White	с.
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	60.0 + 22.0° / 80.0 + 51.0° 83 % 1.7 cd/lm 1 White	20 - 20
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	60.0 + 22.0° / 80.0 + 51.0° 83 % 1.7 cd/lm 1 White	10 10 10 10 10 10 10 10 10 10 10 10 10 1



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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