

PRODUCT DATASHEET WINNIE-S-C

WINNIE-S-C

~20° spot beam with holder C compatible with LEDiL HEKLA

TECHNICAL SPECIFICATIONS:

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



MATERIAL SPECIFICATIONS:

Component C14232_WINNIE-S C15821_WINNIE-HLD-C

Туре
Single lens
Holder

Material	Colour	Finish
PMMA	clear	
PC	black	

ORDERING INFORMATION:

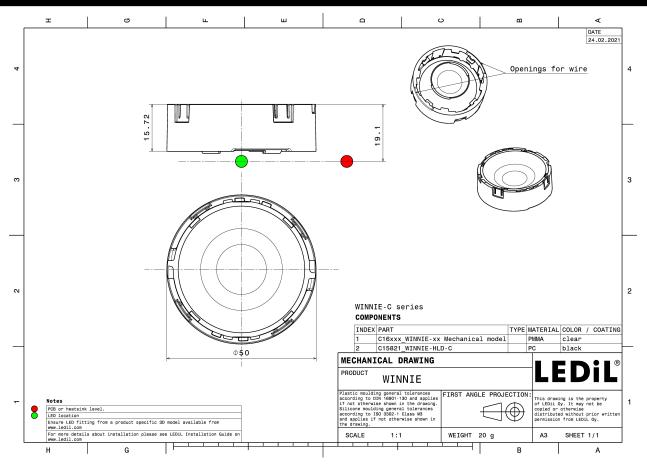
Quantities for one set:

Single lens 1 Holder 1



Component		Qty in box	MOQ	MPQ	Box weight (kg)
C14232_WINNIE-S » 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

PRODUCT DATASHEET WINNIE-S-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 F15253_HEKLA		200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA		30. 30. 20. 20. 20. 20. 20. 20. 20. 2
bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA		
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA		9° 9° 9° 9° 9° 9° 9° 9° 9° 9°



bridgelux.		55*
LED	VERO13	
FWHM / FWTM	26.0° / 59.0°	
Efficiency	83 %	
Peak intensity	2.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		100
C16142_HEKLA		
bridgelux.		160 - 160 -
LED	VERO18	
FWHM / FWTM	37.0° / 79.0°	129 -
Efficiency	81 %	i i i i i i i i i i i i i i i i i i i
Peak intensity	1.4 cd/lm	· · · · · · · · · · · · · · · · · · ·
LEDs/each optic	1	500
Light colour	White	· · · · · · · · · · · · · · · · · · ·
Required compone	ents:	
C16142_HEKLA	A-SOCKET-K	
		30
bridgelu		
bridgelux.	Vacto DT/M 12mm (21)M/	
LED	Vesta DTW 13mm (21W)	77
LED FWHM / FWTM	31.0° / 66.0°	25
LED FWHM / FWTM Efficiency	31.0° / 66.0° 81 %	
LED FWHM / FWTM Efficiency Peak intensity	31.0° / 66.0° 81 % 1.9 cd/lm	97 80 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	31.0° / 66.0° 81 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	31.0° / 66.0° 81 % 1.9 cd/lm 1 Tunable White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	31.0° / 66.0° 81 % 1.9 cd/lm 1 Tunable White ents:	50 00 00 00 00 00 00 00 00 00 00 00 00 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	31.0° / 66.0° 81 % 1.9 cd/lm 1 Tunable White ents: A-SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	31.0° / 66.0° 81 % 1.9 cd/lm 1 Tunable White ents: A-SOCKET-K	50 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4	31.0° / 66.0° 81 % 1.9 cd/lm 1 Tunable White ents: A-SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4	31.0° / 66.0° 81 % 1.9 cd/lm 1 Tunable White ents: A-SOCKET-K 91 Typ L8	50 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4	31.0° / 66.0° 81 % 1.9 cd/lm 1 Tunable White ents: A-SOCKET-K 91 Typ L8 Vesta TW 13mm (25W) CSP	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4 bridgeLux. LED FWHM / FWTM	31.0° / 66.0° 81 % 1.9 cd/lm 1 Tunable White ents: A-SOCKET-K 91 Typ L8 Vesta TW 13mm (25W) CSP 29.0° / 62.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4 bridgeLux, LED FWHM / FWTM Efficiency	31.0° / 66.0° 81 % 1.9 cd/lm 1 Tunable White ents: A-SOCKET-K 91 Typ L8 Vesta TW 13mm (25W) CSP 29.0° / 62.0° 82 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL4 Bender Wirth: 4 bridgelux. LED FWHM / FWTM Efficiency Peak intensity	31.0° / 66.0° 81 % 1.9 cd/lm 1 Tunable White ents: A-SOCKET-K 91 Typ L8 Vesta TW 13mm (25W) CSP 29.0° / 62.0° 82 % 2.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4 bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	31.0° / 66.0° 81 % 1.9 cd/lm 1 Tunable White ents: A-SOCKET-K 91 Typ L8 Vesta TW 13mm (25W) CSP 29.0° / 62.0° 82 % 2.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4: bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	31.0° / 66.0° 81 % 1.9 cd/lm 1 Tunable White ents: A-SOCKET-K 91 Typ L8 Vesta TW 13mm (25W) CSP 29.0° / 62.0° 82 % 2.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4 bridgeLux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	31.0° / 66.0° 81 % 1.9 cd/lm 1 Tunable White ents: A-SOCKET-K 91 Typ L8 Vesta TW 13mm (25W) CSP 29.0° / 62.0° 82 % 2.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4 bridgeLux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/	31.0° / 66.0° 81 % 1.9 cd/lm 1 Tunable White ents: A-SOCKET-K 91 Typ L8 Vesta TW 13mm (25W) CSP 29.0° / 62.0° 82 % 2.1 cd/lm 1 White ents: A-SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4 bridgeLux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	31.0° / 66.0° 81 % 1.9 cd/lm 1 Tunable White ents: A-SOCKET-K 91 Typ L8 Vesta TW 13mm (25W) CSP 29.0° / 62.0° 82 % 2.1 cd/lm 1 White ents: A-SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4 bridgeLUX. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/	31.0° / 66.0° 81 % 1.9 cd/lm 1 Tunable White ents: A-SOCKET-K 91 Typ L8 Vesta TW 13mm (25W) CSP 29.0° / 62.0° 82 % 2.1 cd/lm 1 White ents: A-SOCKET-K	



bridgelux.		
LED	Vesta TW 6mm DP	
FWHM / FWTM	16.0° / 40.0°	
Efficiency	82 %	
Peak intensity	5.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
C16142_HEKLA		
Bender Wirth: 5		
bridgelux.		90 ⁴
LED	Vesta TW 9mm (12W) CSP	
FWHM / FWTM	23.0° / 50.0°	
Efficiency	84 %	
Peak intensity	3.3 cd/lm	
LEDs/each optic	1	
Light colour	White	gr at
Required compone		300
C16142_HEKLA		
0.01.12_1.21.21		
		30" 15" 0° 15"
CITIZE	'N	30*
FWHM / FWTM	CLC020 Series (Dim-To-Warm) 22.0° / 53.0°	77
Efficiency	83 %	
Peak intensity	3.1 cd/lm	60- × / / × ×
LEDs/each optic	1	
Light colour	White	
Required compone		
C16142_HEKLA		200
		9 ^{0°} 2200 90 [°] 15 [°] 0 [°] 15 [°]
CITIZE		80°
LED	CLC030 Series (Dim-To-Warm)	
FWHM / FWTM	29.0° / 67.0°	
Efficiency	80 %	
Peak intensity	2 cd/lm	
LEDs/each optic	1	
Light colour	White	9 ⁻ - 120 - 5
Required compone		-
C16142_HEKLA	A-SOCKET-K	
		20
		157 [°] 0 ⁰ 157 [°]



CITIZE	'N	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLL02x/CLU02x (LES10) 20.0° / 53.0° 81 % 3 cd/lm 1 White ents:	
CITIZE	N	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU7A2 (LES 4.2mm) 13.0° / 36.0° 85 % 6.8 cd/lm 1 White ents:	
	'NT	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4	LCN-C01B (Tunable White) 23.0° / 50.0° 83 % 3.1 cd/lm 1 White ents: A-SOCKET-K	
	D	90'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA		



		50 ¹
LED	CMT19xx	
FWHM / FWTM	29.0° / 65.0°	
Efficiency	83 %	
Peak intensity	2 cd/lm	
LEDs/each optic	1	
Light colour	White	gr det
Required compone		
F15859_HEKLA		- 100 -
		10 ² 0 ⁴ 10 ²
		80 ⁴ 80 ⁷
LED	CXA/B 13xx	
FWHM / FWTM	15.0° / 43.0°	
Efficiency	85 %	60 ¹
Peak intensity	4.9 cd/lm	
LEDs/each optic	1	
Light colour	White	gr (1)
Required compone		
F15956_HEKLA	-SOCKET-J	
		30 ⁴ 25 ⁷ 0 ⁴ 15 ⁷
	EDS	
LED	LUXEON CX Plus CoB L08 (Gen2)	
FWHM / FWTM	29.0° / 64.0°	
Efficiency	84 %	
Peak intensity	2.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
Bender Wirth: 63	7a Hekla	
	EDC	
		95°
LED	LUXEON CoB 1202HD	<u>90</u> *
LED FWHM / FWTM	LUXEON CoB 1202HD 15.0° / 37.5 + 37.0°	
LED FWHM / FWTM Efficiency	LUXEON CoB 1202HD 15.0° / 37.5 + 37.0° 87 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CoB 1202HD 15.0° / 37.5 + 37.0° 87 % 5.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CoB 1202HD 15.0° / 37.5 + 37.0° 87 % 5.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1202HD 15.0° / 37.5 + 37.0° 87 % 5.8 cd/lm 1 White	8 ¹ 100 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON CoB 1202HD 15.0° / 37.5 + 37.0° 87 % 5.8 cd/lm 1 White nts:	8 ¹ 100 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1202HD 15.0° / 37.5 + 37.0° 87 % 5.8 cd/lm 1 White nts:	8 ¹ 100 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON CoB 1202HD 15.0° / 37.5 + 37.0° 87 % 5.8 cd/lm 1 White nts:	8 ¹ 100 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON CoB 1202HD 15.0° / 37.5 + 37.0° 87 % 5.8 cd/lm 1 White nts:	8 ¹ 100 67



UMIL	EDS	50*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15848_HEKLA		
	.EDS	90* 99
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1204HD 18.0° / 44.0° 87 % 4.2 cd/lm 1 White ents:	
	EDS	50 ⁺
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1205HD 22.0° / 52.0° 85 % 3 cd/lm 1 White ents:	
	EDS	50*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H4 14.0° / 36.0° 87 % 6.5 cd/lm 1 White ents:	



UMIL	.EDS	50*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63		20. 20. 20. 20. 20. 20. 20. 20.
	.EDS	99°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB - HD S04H9 19.0° / 46.0° 86 % 3.9 cd/lm 1 White ents:	50 50 50 50 50 50 50 50 50 50 50 50 50 5
	EDS	125 ⁷ 6 ⁶ 125
C LUMIL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB L04 / L05 (Gen2) 23.0° / 55.0° 85 % 2.9 cd/lm 1 White ents:	
UMIL	.EDS	59*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6-		73. 66. 67. 500 500



🥙 LUMIL	.EDS	89*
LED	LUXEON CX Plus CoB S01 (Gen2)	
FWHM / FWTM	14.0° / 35.0°	
Efficiency	87 %	
Peak intensity	6.9 cd/lm	
LEDs/each optic	1	
Light colour	White	a.
Required compone		
Bender Wirth: 63	34c Hekla	
		502
		30 137 04 135
🖉 LUMIL	EDS	90*
LED	LUXEON Fusion 12-up (20x24)	
FWHM / FWTM	18.0° / 45.0°	
Efficiency	84 %	
Peak intensity	4.2 cd/lm	
LEDs/each optic	1	
Light colour	Tunable White	
Required compone	ents:	
C16142_HEKLA	A-SOCKET-K	
Bender Wirth: 44	42 Typ L8	
		30 ⁴
	INUS	20 ⁴ 20 ⁷ 2 ³
		30 ⁴ 20 0 10 10 10 10 10 10 10 10 10 10 10 10
	CxM-14 (19x19) 29.0° / 67.0°	20 ⁴ 20 ⁴ 20 ⁴ 20 ⁴
LED	CxM-14 (19x19)	
LED FWHM / FWTM	CxM-14 (19x19) 29.0° / 67.0°	
LED FWHM / FWTM Efficiency	CxM-14 (19x19) 29.0° / 67.0° 83 %	
LED FWHM / FWTM Efficiency Peak intensity	CxM-14 (19x19) 29.0° / 67.0° 83 % 1.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CxM-14 (19x19) 29.0° / 67.0° 83 % 1.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CxM-14 (19x19) 29.0° / 67.0° 83 % 1.9 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CxM-14 (19x19) 29.0° / 67.0° 83 % 1.9 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CxM-14 (19x19) 29.0° / 67.0° 83 % 1.9 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	CxM-14 (19x19) 29.0° / 67.0° 83 % 1.9 cd/lm 1 White ents: -SOCKET-I	300
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	CxM-14 (19x19) 29.0° / 67.0° 83 % 1.9 cd/lm 1 White ents: -SOCKET-I	257 00 100 100 100 100 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	CxM-14 (19x19) 29.0° / 67.0° 83 % 1.9 cd/lm 1 White white SOCKET-I	257 00 100 100 100 100 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	CxM-14 (19x19) 29.0° / 67.0° 83 % 1.9 cd/lm 1 White white souther SOCKET-I	257 00 100 100 100 100 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	CxM-14 (19x19) 29.0° / 67.0° 83 % 1.9 cd/lm 1 White ents: -SOCKET-I	31 ¹ 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	CxM-14 (19x19) 29.0° / 67.0° 83 % 1.9 cd/lm 1 White ents: -SOCKET-I CXM-4 13.0° / 37.0° 84 %	257 00 100 100 100 100 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	CxM-14 (19x19) 29.0° / 67.0° 83 % 1.9 cd/lm 1 White ents: -SOCKET-I CXM-4 13.0° / 37.0° 84 % 6.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CxM-14 (19x19) 29.0° / 67.0° 83 % 1.9 cd/lm 1 White ents: -SOCKET-I CXM-4 13.0° / 37.0° 84 % 6.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	CxM-14 (19x19) 29.0° / 67.0° 83 % 1.9 cd/lm 1 White onts: -SOCKET-I CXM-4 13.0° / 37.0° 84 % 6.4 cd/lm 1 White onts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	CxM-14 (19x19) 29.0° / 67.0° 83 % 1.9 cd/lm 1 White onts: -SOCKET-I CXM-4 13.0° / 37.0° 84 % 6.4 cd/lm 1 White onts:	

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LED CxM-9 (13.5x13.5 FWHM / FWTM 20.0° / 53.0° Efficiency 83 % Peak intensity 3.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C		я в в в с лол
Efficiency 83 % Peak intensity 3.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C		g:
Peak intensity 3.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C		g:
LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C		g:
Light colour White Required components: F15255_HEKLA-SOCKET-C		g:
Required components: F15255_HEKLA-SOCKET-C		200
F15255_HEKLA-SOCKET-C		N3
PHILIPS		
PHILIPS		
PHILIPS		36° 3200 15° 0° 15°
		90°
LED Fortimo SLM L09	СоВ	
FWHM / FWTM 19.0° / 46.0°		79-
Efficiency 87 %		
Peak intensity 4 cd/lm		
LEDs/each optic 1		
Light colour White		9 ²⁴ 2400
Required components:		
F15858_HEKLA-SOCKET-H		200
		$ \times \times $
		304
PHILIPS		90*
LED Fortimo SLM L13	20B	
FWHM / FWTM 28.0° / 61.0°		75
Efficiency 84 %		
Peak intensity 2.3 cd/lm		60°
LEDs/each optic 1		
Light colour White		931
Required components:		1600
C16142_HEKLA-SOCKET-K		
Bender Wirth: 432 Typ L8		
		30° 2400 00
		15 ⁰ 0 ⁰ 15 ⁰
		55° 0° 35°
PHILIPS	ХоВ	
PHILIPS LED Fortimo SLM L15 FWHM / FWTM 32.0° / 67.0°	ХоВ	
PHILIPS LED Fortimo SLM L15 FWHM / FWTM 32.0° / 67.0°	юВ	
PHILIPS LED Fortimo SLM L15 FWHM / FWTM 32.0° / 67.0° Efficiency 83 %	Сов	
PHILIPS LED Fortimo SLM L15 FWHM / FWTM 32.0° / 67.0° Efficiency 83 % Peak intensity 1.9 cd/lm	ЪоВ	
PHILIPS LED Fortimo SLM L15 FWHM / FWTM 32.0° / 67.0° Efficiency 83 % Peak intensity 1.9 cd/lm LEDs/each optic 1	ЪоВ	27 27 29 00 00
PHILIPS LED Fortimo SLM L15 FWHM / FWTM 32.0° / 67.0° Efficiency 83 % Peak intensity 1.9 cd/lm LEDs/each optic 1 Light colour White	Ъов	
PHILIPS LED Fortimo SLM L15 FWHM / FWTM 32.0° / 67.0° Efficiency 83 % Peak intensity 1.9 cd/lm LEDs/each optic 1 Light colour White Required components: 1	СоВ	200 - 10 10 - 10 10 10 - 10 10 - 10 10 10 - 10 10 10 10 - 10 10 10 10 10 10 10 10 10 10
PHILIPS LED Fortimo SLM L15 FWHM / FWTM 32.0° / 67.0° Efficiency 83 % Peak intensity 1.9 cd/lm LEDs/each optic 1 Light colour White	СоВ	27 27 29 00 00



SAMSI	UNG	35
LED	LC003D / LC006D / LC009D / LC013D	
FWHM / FWTM	21.0° / 53.0°	37
Efficiency	83 %	
Peak intensity	3.1 cd/lm	
LEDs/each optic	1	
Light colour	White	9° / / /
Required compone	ents:	
		300
		30 ⁶ 22/0 3
SAMSI	ING	90 ⁴
LED	LC010C	
FWHM / FWTM	16.0° / 43.0°	37
Efficiency	84 %	
Peak intensity	4.6 cd/lm	9 ⁴
LEDs/each optic	1	
Light colour	White	g
Required compone	ents:	
F15848_HEKLA		
		\times / \setminus λ
		30% 4000
SЛМSI	ING	
	1 00100 02	
LED	LC010C G2	
LED FWHM / FWTM	14.0° / 39.0°	77
LED FWHM / FWTM Efficiency	14.0° / 39.0° 84 %	90
LED FWHM / FWTM Efficiency Peak intensity	14.0° / 39.0°	97 97 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	14.0° / 39.0° 84 % 5.4 cd/lm	93 94 97 97 90 90
LED FWHM / FWTM Efficiency	14.0° / 39.0° 84 % 5.4 cd/lm 1 White	9 ⁺ 32
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 39.0° 84 % 5.4 cd/lm 1 White ents:	73 90 97 97 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	14.0° / 39.0° 84 % 5.4 cd/lm 1 White ents:	73 60 ⁴ 75 75 75 75 75 75 75 75 75 75 75 75 75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	14.0° / 39.0° 84 % 5.4 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	14.0° / 39.0° 84 % 5.4 cd/lm 1 White ents: -SOCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	14.0° / 39.0° 84 % 5.4 cd/lm 1 White ents: -SOCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	14.0° / 39.0° 84 % 5.4 cd/lm 1 White ents: SOCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA SAMSI LED FWHM / FWTM	14.0° / 39.0° 84 % 5.4 cd/lm 1 White ents: -SOCKET-C UNG LC016D / LC019D / LC026D / LC033D 32.0° / 67.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA SAMSU LED FWHM / FWTM Efficiency	14.0° / 39.0° 84 % 5.4 cd/lm 1 White ents: -SOCKET-C UNG LC016D / LC019D / LC026D / LC033D 32.0° / 67.0° 81 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA SAMSS LED FWHM / FWTM Efficiency Peak intensity	14.0° / 39.0° 84 % 5.4 cd/lm 1 White ents: N-SOCKET-C UNG LC016D / LC019D / LC026D / LC033D 32.0° / 67.0° 81 % 1.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	14.0° / 39.0° 84 % 5.4 cd/lm 1 White ents: -SOCKET-C UNG LC016D / LC019D / LC026D / LC033D 32.0° / 67.0° 81 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 39.0° 84 % 5.4 cd/lm 1 White ents: -SOCKET-C UNG LC016D / LC019D / LC026D / LC033D 32.0° / 67.0° 81 % 1.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	14.0° / 39.0° 84 % 5.4 cd/lm 1 White ents: -SOCKET-C UNG LC016D / LC019D / LC026D / LC033D 32.0° / 67.0° 81 % 1.8 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	14.0° / 39.0° 84 % 5.4 cd/lm 1 White ents: -SOCKET-C UNG LC016D / LC019D / LC026D / LC033D 32.0° / 67.0° 81 % 1.8 cd/lm 1 White ents:	





<u> 21/1/191</u>	JNG	90 ⁴ 90
LED	LC020C	
FWHM / FWTM	18.0° / 48.0°	73
Efficiency	84 %	
Peak intensity	3.7 cd/lm	60 ²
LEDs/each optic	1	
Light colour	White	
Required compone		
F15848_HEKLA		
		329
		30* 30
SAMSI		10 ⁻⁷
		90* 90
LED	LC020C G2	75'
FWHM / FWTM	19.0° / 48.0°	
Efficiency	84 %	egt / / / / / / / / / / / / / / / / / / /
Peak intensity	3.7 cd/lm	
LEDs/each optic	1	
Light colour	White	49°
Required compone		
F15859_HEKLA	A-SOCKET-I	3200
		30* 30
TRIDON	NIC	90'
LED	SLE G7 LES09	
FWHM / FWTM	19.0° / 50.0°	73
	83 %	
Efficiency		
Efficiency Peak intensity	83 %	
Efficiency Peak intensity LEDs/each optic	83 % 3.4 cd/lm	
Efficiency	83 % 3.4 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour	83 % 3.4 cd/lm 1 White ents:	of a
Efficiency Peak intensity LEDs/each optic Light colour Required compone	83 % 3.4 cd/lm 1 White ents:	et a
Efficiency Peak intensity LEDs/each optic Light colour Required compone	83 % 3.4 cd/lm 1 White ents:	et a
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	83 % 3.4 cd/lm 1 White ents: N-SOCKET-C	et a
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	83 % 3.4 cd/lm 1 White ents: -SOCKET-C	σ
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	83 % 3.4 cd/lm 1 White ents: -SOCKET-C	σ
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	83 % 3.4 cd/lm 1 White ents: -SOCKET-C SLE G7 LES13 27.0° / 64.0°	et a
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA TRIDON LED FWHM / FWTM Efficiency	83 % 3.4 cd/lm 1 White ents: -SOCKET-C SLE G7 LES13 27.0° / 64.0° 81 %	σ
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity	83 % 3.4 cd/lm 1 White ents: A-SOCKET-C SLE G7 LES13 27.0° / 64.0° 81 % 2.1 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	83 % 3.4 cd/lm 1 White ents: A-SOCKET-C SLE G7 LES13 27.0° / 64.0° 81 % 2.1 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	83 % 3.4 cd/lm 1 White ents: A-SOCKET-C SLE G7 LES13 27.0° / 64.0° 81 % 2.1 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	83 % 3.4 cd/lm 1 White ents: -SOCKET-C SLE G7 LES13 27.0° / 64.0° 81 % 2.1 cd/lm 1 White ents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	83 % 3.4 cd/lm 1 White ents: -SOCKET-C SLE G7 LES13 27.0° / 64.0° 81 % 2.1 cd/lm 1 White ents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	83 % 3.4 cd/lm 1 White ents: -SOCKET-C SLE G7 LES13 27.0° / 64.0° 81 % 2.1 cd/lm 1 White ents:	



TRIDON LED FWHM / FWTM Efficiency Peak intensity	SLE G7 LES15 30.0° / 68.0° 81 %		75
LEDs/each optic Light colour Required compone F15859_HEKLA			27 - 120 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 150 - 1
XICATO)		19 ⁴
	XOB 14.5 mm		
EED FWHM / FWTM	29.0° / 68.0°		25*
Efficiency	80 %		
Peak intensity	1.8 cd/lm		69°
LEDs/each optic	1		
Light colour	White		554
Required compone	nts:		
F15859_HEKLA			20° 20° 20°
XICATC			5400
LED	XOB 9.8 mm		2000
FWHM / FWTM	20.0° / 52.0°		2609
Efficiency	83 %		2009
Peak intensity	3.3 cd/lm		2000 -
LEDs/each optic	1		1000
Light colour	White		1000
Required compone	nts:		1299
F15255_HEKLA	-SOCKET-C		



PHOTOMETRIC DATA (SIMULATED):

bridgelux.		90* 90*
LED	VERO10	
FWHM / FWTM	18.0° / 40.0°	75.
Efficiency	86 %	
Peak intensity	4.8 cd/lm	
LEDs/each optic	1	
Light colour	White	42*
Required components:		2200
F15616_HEKLA-SC		
		36° 36° 36°
CITIZEN	· · · · · · · · · · · · · · · · · · ·	90* 90*
	CLL03x/CLU03x	73.
FWHM / FWTM Efficiency	26.0° / 57.0° 79 %	
		69° 60° 60°
Peak intensity	2.4 cd/lm	
LEDs/each optic	1	
Light colour	White	1600
Required components:		
F15859_HEKLA-SC	UKET-I	
		30° 20° 15°
CREE ÷ LED		90 ⁶
		<u>90*</u>
LED	CMA1825	50 ¹ 37
LED FWHM / FWTM	22.0° / 50.0°	
LED FWHM / FWTM Efficiency	22.0° / 50.0° 84 %	
LED FWHM / FWTM Efficiency Peak intensity	22.0° / 50.0° 84 % 3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	22.0° / 50.0° 84 % 3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	22.0° / 50.0° 84 % 3 cd/lm 1 White	gg
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	22.0° / 50.0° 84 % 3 cd/lm 1 White	gr
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	22.0° / 50.0° 84 % 3 cd/lm 1 White	gg
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	22.0° / 50.0° 84 % 3 cd/lm 1 White	gr 000 02,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	22.0° / 50.0° 84 % 3 cd/lm 1 White	gr 000 02,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15254_HEKLA-SC	22.0° / 50.0° 84 % 3 cd/lm 1 White	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15254_HEKLA-SC	22.0° / 50.0° 84 % 3 cd/lm 1 White OCKET-B	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15254_HEKLA-SC	22.0° / 50.0° 84 % 3 cd/lm 1 White PCKET-B	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15254_HEKLA-SC	22.0° / 50.0° 84 % 3 cd/lm 1 White PCKET-B CXA/B 15xx 18.0° / 38.0°	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15254_HEKLA-SC	22.0° / 50.0° 84 % 3 cd/lm 1 White CCKET-B CXA/B 15xx 18.0° / 38.0° 84 %	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15254_HEKLA-SC	22.0° / 50.0° 84 % 3 cd/lm 1 White PCKET-B CXA/B 15xx 18.0° / 38.0° 84 % 5 cd/lm	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15254_HEKLA-SC	22.0° / 50.0° 84 % 3 cd/lm 1 White PCKET-B CXA/B 15xx 18.0° / 38.0° 84 % 5 cd/lm 1	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15254_HEKLA-SC CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	22.0° / 50.0° 84 % 3 cd/lm 1 White VCKET-B CXA/B 15xx 18.0° / 38.0° 84 % 5 cd/lm 1 White	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15254_HEKLA-SC CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	22.0° / 50.0° 84 % 3 cd/lm 1 White ACKET-B CXA/B 15xx 18.0° / 38.0° 84 % 5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15254_HEKLA-SC CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	22.0° / 50.0° 84 % 3 cd/lm 1 White ACKET-B CXA/B 15xx 18.0° / 38.0° 84 % 5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15254_HEKLA-SC CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	22.0° / 50.0° 84 % 3 cd/lm 1 White ACKET-B CXA/B 15xx 18.0° / 38.0° 84 % 5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15254_HEKLA-SC CREE©LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	22.0° / 50.0° 84 % 3 cd/lm 1 White ACKET-B CXA/B 15xx 18.0° / 38.0° 84 % 5 cd/lm 1 White	



PHOTOMETRIC DATA (SIMULATED):

Μ ΝΙCΗΙΛ		59 ⁴ A 39 ⁰
LED	NFSWE11A	
FWHM / FWTM	18.0° / 38.0°	72
Efficiency	77 %	
Peak intensity	5 cd/lm	
LEDs/each optic	30	
Light colour	White	of
Required component	S:	
		2014
		10 ⁰ 0 ⁰ 15 ³
SEOUL		90 ⁴
LED	MJT COB LES 14.5	
FWHM / FWTM	30.0° / 65.0°	25
Efficiency	81 %	
Peak intensity	1.9 cd/lm	
LEDs/each optic	1	
Light colour	White	er (
Required component	s:	
F15859_HEKLA-S	OCKET-I	1699
		30 200 30
		25° 0° 15°
SEOUL SEMICONDUCTOR		90 ^k 90 ^k
LED	MJT COB LES 9.8	
FWHM / FWTM	20.0° / 45.0°	25 20
Efficiency	83 %	
Peak intensity	3.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required component	S:	
F15255_HEKLA-S	OCKET-C	
		310
		137



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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