

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:

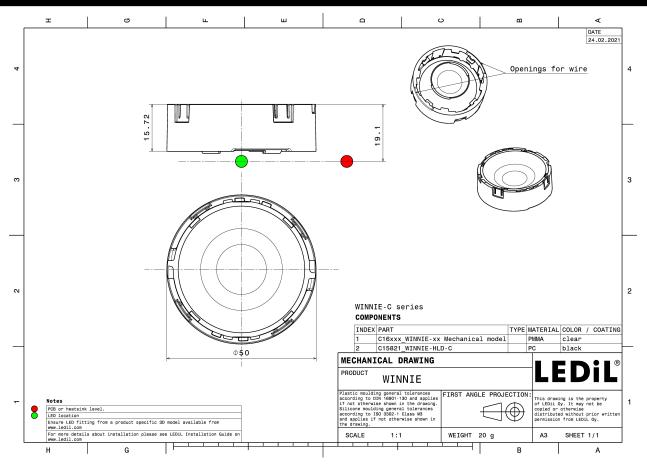
Quantities for one set:

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 - 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 - 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:	

Last update: 24/02/2021Subject to change without prior noticePublished: 10/07/2019LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.11/18



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 - 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