

CARMEN-M-C

~35° medium beam. Assembly with holder C compatible with LEDiL HEKLA.

SPECIFICATION:

Dimensions	Ø 69.5 mm
Height	41.5 mm
Fastening	socket
ROHS compliant	yes 🛈



MATERIALS:

Component	Туре	Material	Colour	Finish
CARMEN-M	Single lens	PMMA	clear	
CARMEN-HLD-C	Holder	PC	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CP15775_CARMEN-M-C	Single lens	150	150	15	4.6
» Box size: 476 x 273 x 292 mm					



PRODUCT DATASHEET CP15775_CARMEN-M-C



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



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15253_HEKLA-		50 ⁴ 75 60 ⁴ 60 ⁴
bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15255_HEKLA-		50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15859_HEKLA-		30.4 10.5 30.4 30.4 10.5 30.5 30.5 60.0 60.5 30.5 60.0 60.5 30.5 60.0 60.5
bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15616_HEKLA-		5°



bridgelux.		954 954
LED	Vesta DTW 13mm (21W)	
FWHM / FWTM	55.0° / 80.0°	
Efficiency	64 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	Tunable White	
Required compone	ents:	
C16142_HEKLA	A-SOCKET-K	
Bender Wirth: 4	91 Typ L8	
		200 - 200 -
bridgelux.		20°
LED	Vesta DTW 9mm (4W/6W/12W)	
FWHM / FWTM	40.0° / 67.0°	
Efficiency	67 %	
Peak intensity	1.4 cd/lm	
LEDs/each optic	1	
Light colour	White	gr
Required compone		
C16142_HEKLA		
Bender Wirth: 4		
		30
bridgelux.		30*
LED	Vesta TW 6mm DP	
FWHM / FWTM	37.0° / 63.0°	
Efficiency	72 %	
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	gr ar
Required compone		129
C16142_HEKLA		
Bender Wirth: 5		
bridgelux.		
LED	Vesta TW 9mm (12W) CSP	
FWHM / FWTM	42.0° / 69.0°	31
Efficiency	42.0° / 69.0° 66 %	
Peak intensity	00 % 1.2 cd/lm	69 ³
LEDs/each optic	1.2 ca/im 1	
Light colour	ı White	e,
Required compone		
C16142_HEKLA		
		2200
		30° 0° 12°

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bridgelux. LED Vesta		
		50*
	a TW 9mm (9W) DP	
FWHM / FWTM 43.0°	/ 69.0°	73*
Efficiency 69 %		400
Peak intensity 1.2 co	d/Im	
LEDs/each optic 1		
Light colour White		954
Required components:		
C16142_HEKLA-SOCK	ET-K	
Bender Wirth: 489 Typ L	_8	
		30° 17° 0° 17°
CITIZEN		90 ⁴
	120 Series (Dim To Worm)	
	120 Series (Dim-To-Warm) / 68.0°	75*
Efficiency 66 %		
Peak intensity 1.3 co		69°
LEDs/each optic 1		
Light colour White		43*
Required components:		
C16142_HEKLA-SOCK	FT-K	
		1220
CITIZEN		99*
	2x/CLU02x (LES10)	99°
LED CLLO	2x/CLU02x (LES10) / 73.0°	35 er 15
LED CLLO	/ 73.0°	55° 0° 12°
LED CLL0. FWHM / FWTM 45.0°	/ 73.0°	60) 95* 95* 100 100 100 100 100 100 100 10
LED CLL0. FWHM / FWTM 45.0° Efficiency 73 %	/ 73.0°	
LED CLL0. FWHM / FWTM 45.0° Efficiency 73 % Peak intensity 1.2 cc	/ 73.0° d/lm	g. g. 55 60 55 60 60 60 60 60 60 60 60 60 60
LEDCLL0.FWHM / FWTM45.0°Efficiency73 %Peak intensity1.2 ccLEDs/each optic1	/ 73.0° d/lm	20 20 20 20 20 20 0 0 0 10 10 10 10 10 10 10
LEDCLL0.FWHM / FWTM45.0°Efficiency73 %Peak intensity1.2 ccLEDs/each optic1Light colourWhite	/ 73.0° d/lm	
LEDCLL0.FWHM / FWTM45.0°Efficiency73 %Peak intensity1.2 cdLEDs/each optic1Light colourWhiteRequired components:	/ 73.0° d/lm	
LEDCLL0.FWHM / FWTM45.0°Efficiency73 %Peak intensity1.2 cdLEDs/each optic1Light colourWhiteRequired components:	/ 73.0° d/lm	25° (° 15° (10)
LED CLL0. FWHM / FWTM 45.0° Efficiency 73 % Peak intensity 1.2 cc LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKI	/ 73.0° d/lm	
LED CLL0 FWHM / FWTM 45.0° Efficiency 73 % Peak intensity 1.2 cc LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKI	/ 73.0° d/m e ET-C	
LED CLL0 FWHM / FWTM 45.0° Efficiency 73 % Peak intensity 1.2 cc LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKI	/ 73.0° d/m e ET-C	
LED CLL0 FWHM / FWTM 45.0° Efficiency 73 % Peak intensity 1.2 cc LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKI CITTIZEN LED CLU7 FWHM / FWTM 37.0°	/ 73.0° d/m e ET-C 700/701/702/703 / 66.0°	
LED CLL0. FWHM / FWTM 45.0° Efficiency 73 % Peak intensity 1.2 cc LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKI ED CLU7 FWHM / FWTM 37.0° Efficiency 76 %	/ 73.0° d/m e ET-C 200/701/702/703 / 66.0°	
LED CLL0. FWHM / FWTM 45.0° Efficiency 73 % Peak intensity 1.2 cc LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKI ED CLU7 FWHM / FWTM 37.0° Efficiency 76 % Peak intensity 1.7 cc	/ 73.0° d/m e ET-C 200/701/702/703 / 66.0°	
LED CLL0. FWHM / FWTM 45.0° Efficiency 73 % Peak intensity 1.2 cc LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKI ED CLU7 FWHM / FWTM 37.0° Efficiency 76 % Peak intensity 1.7 cc LEDs/each optic 1	/ 73.0° d/lm e ET-C	
LED CLL0. FWHM / FWTM 45.0° Efficiency 73 % Peak intensity 1.2 cc LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKI ED CLU7 FWHM / FWTM 37.0° Efficiency 76 % Peak intensity 1.7 cc LEDs/each optic 1 Light colour White	/ 73.0° d/lm e ET-C	
LED CLL0 FWHM / FWTM 45.0° Efficiency 73 % Peak intensity 1.2 cc LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKI Efficiency 76 % Peak intensity 1.7 cc LEDs/each optic 1 Light colour White Required components:	/ 73.0° d/m e ET-C r00/701/702/703 / 66.0° d/m e	27 57 50 57
LED CLL0. FWHM / FWTM 45.0° Efficiency 73 % Peak intensity 1.2 cc LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKI Efficiency 76 % Peak intensity 1.7 cc LEDs/each optic 1 Light colour White	/ 73.0° d/m e ET-C r00/701/702/703 / 66.0° d/m e	55 60 55 128
LED CLL0 FWHM / FWTM 45.0° Efficiency 73 % Peak intensity 1.2 cc LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKI Efficiency 76 % Peak intensity 1.7 cc LEDs/each optic 1 Light colour White Required components:	/ 73.0° d/m e ET-C r00/701/702/703 / 66.0° d/m e	27 69 69 60

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CITIZE	'NT	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	CLU710/711 41.0° / 68.0° 73 % 1.4 cd/lm 1 White ents:	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU7A2/7A3 37.0° / 64.0° 78 % 1.8 cd/lm 1 White ents:	
CITIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU7B2 35.0° / 62.0° 80 % 2 cd/lm 1 White ents:	
CITIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	LCN-C01B (Tunable White) 41.0° / 69.0° 66 % 1.3 cd/lm 1 White ents:	



		90 ⁵
LED	CMA1516	
FWHM / FWTM	45.0° / 68.0°	
Efficiency	77 %	
Peak intensity	1.4 cd/lm	
LEDs/each optic	1	
Light colour	White	gr de
Required compone	ents:	
F15256_HEKLA	A-SOCKET-D	
		34
	FDS	25 ⁴ 6 ⁴ 15 ³
	LUXEON CX Plus CoB L08 (Gen2)	75
FWHM / FWTM	56.0° / 80.0°	
Efficiency Book intensity	67 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1 White	
Light colour	White	
Required compone Bender Wirth: 6		
	S/ a FIERIA	
		20
		30 ⁶ 23 ⁹ 0 ⁶ 35 ⁷
LUMIL	.EDS	90,4
LED	LUXEON CoB 1202HD	
FWHM / FWTM	36.0° / 59.0°	
Efficiency	78 %	
Peak intensity	2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
F15848_HEKLA	A-SOCKET-G	200
		30°
	.EDS	
LED	LUXEON CoB 1204HD	
FWHM / FWTM	43.0° / 64.0°	
Efficiency	76 %	
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	
Light colour	White	a - 60 - 60 - 60 - 60 - 60 - 60 - 60 - 6
Required compone		
F15858_HEKLA		
		34
		20 ⁻



	90
LED LUXEON CoB 1205HD	
FWHM / FWTM 49.0° / 70.0°	
Efficiency 71 %	
Peak intensity 1.1 cd/lm	
LEDs/each optic 1	$\sim h$
Light colour White	
Required components:	
F15858_HEKLA-SOCKET-H	
26	
	15*
UMILEDS	90
LED LUXEON CX Plus CoB - HD S01H4	
FWHM / FWTM 36.0° / 57.0°	
Efficiency 78 %	60
Peak intensity 2.1 cd/lm	
LEDs/each optic 1	
Light colour White	
Required components:	
Bender Wirth: 634c Hekla	
9 ¹⁰ 27	15° 30
LUMILEDS	90
LUMILEDS LED LUXEON CX Plus CoB - HD S02H6	90
LED LUXEON CX Plus CoB - HD S02H6	23
LED LUXEON CX Plus CoB - HD S02H6 FWHM / FWTM 35.0° / 57.0°	20
LED LUXEON CX Plus CoB - HD S02H6 FWHM / FWTM 35.0° / 57.0° Efficiency 77 %	29
LED LUXEON CX Plus CoB - HD S02H6 FWHM / FWTM 35.0° / 57.0° Efficiency 77 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White	29
LED LUXEON CX Plus CoB - HD S02H6 FWHM / FWTM 35.0° / 57.0° Efficiency 77 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components:	23
LED LUXEON CX Plus CoB - HD S02H6 FWHM / FWTM 35.0° / 57.0° Efficiency 77 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White	
LED LUXEON CX Plus CoB - HD S02H6 FWHM / FWTM 35.0° / 57.0° Efficiency 77 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components:	25
LED LUXEON CX Plus CoB - HD S02H6 FWHM / FWTM 35.0° / 57.0° Efficiency 77 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components:	99 73 60 60 60 60 60 60 60 60 60 60 60 60 60
LED LUXEON CX Plus CoB - HD S02H6 FWHM / FWTM 35.0° / 57.0° Efficiency 77 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 634c Hekla	90 73 60 60 55 55 55 55
LED LUXEON CX Plus CoB - HD S02H6 FWHM / FWTM 35.0° / 57.0° Efficiency 77 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 634c Hekla CUMILEDS LUMILEDS	
LED LUXEON CX Plus CoB - HD S02H6 FWHM / FWTM 35.0° / 57.0° Efficiency 77 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 63+C Hekla ED LUXEON CX Plus CoB - HD S04H9	99 73 60 60 60 60 60 60 60 60 60 60 60 60 60
LED LUXEON CX Plus CoB - HD S02H6 FWHM / FWTM 35.0° / 57.0° Efficiency 77 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 634c Hekla ED LUXEON CX Plus CoB - HD S04H9 FWHM / FWTM 43.0° / 66.0°	
LED LUXEON CX Plus CoB - HD S02H6 FWHM / FWTM 35.0° / 57.0° Efficiency 77 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 634c Hekla ED LUXEON CX Plus CoB - HD S04H9 FWHM / FWTM 43.0° / 66.0° Efficiency 75 %	23 23 23 20 20 20 20 20 20 20 20 20 20 20 20 20
LED LUXEON CX Plus CoB - HD S02H6 FWHM / FWTM 35.0° / 57.0° Efficiency 77 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 634c Hekla	
LED LUXEON CX Plus CoB - HD S02H6 FWHM / FWTM 35.0° / 57.0° Efficiency 77 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 634c Hekla	
LED LUXEON CX Plus CoB - HD S02H6 FWHM / FWTM 35.0° / 57.0° Efficiency 77 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 634c Hekla EDS LUXEON CX Plus CoB - HD S04H9 FWHM / FWTM 43.0° / 66.0° Efficiency 75 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White	
LED LUXEON CX Plus CoB - HD S02H6 FWHM / FWTM 35.0° / 57.0° Efficiency 77 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 634c Hekla Efficiency 75 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components: Efficiency 75 %	
LED LUXEON CX Plus CoB - HD S02H6 FWHM / FWTM 35.0° / 57.0° Efficiency 77 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 634c Hekla Efficiency 75 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Efficiency 75 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White	
LED LUXEON CX Plus CoB - HD S02H6 FWHM / FWTM 35.0° / 57.0° Efficiency 77 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 63 + Hekla Efficiency 75 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components: Efficiency 75 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components:	



	EDS	20° 20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB L04 / L05 (Gen2) 49.0° / 72.0° 71 % 1.1 cd/lm 1 White ents:	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB M02 / M03 (Gen2) 41.0° / 63.0° 74 % 1.5 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB S01 (Gen2) 35.0° / 56.0° 78 % 2.1 cd/lm 1 White ents:	9° 99 99 99 99 99 99 99 99 99 99 99 99 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4	CDM-6 (Dim-To-Warm) 38.0° / 66.0° 70 % 1.5 cd/lm 1 White ents: N-SOCKET-K	



-					
C LUMI	NUS			90°	90*
LED	CDM-9 (Dim-To-Warm)				
FWHM / FWTM	43.0° / 69.0°			73*	
Efficiency	68 %			400	
Peak intensity	1.3 cd/lm				$\wedge \sim$
LEDs/each optic	1				
Light colour	White			45°	45"
Required compone	nts:				
C16142_HEKLA					k >
Bender Wirth: 49	90 Typ L8				4
				30* 15 0*	15°
	NUS			90*	90
LED	CTM-9 (Tunable White)				1
FWHM / FWTM	43.0° / 69.0°			75	25
Efficiency	67 %			60 ⁴	\land
Peak intensity	1.2 cd/lm				
LEDs/each optic	1				$\wedge \times$
Light colour	White			9×	45
Required compone	nts:	•			
C16142_HEKLA	-SOCKET-K				\wedge
Bender Wirth: 49	95 Typ L8				
				30° 1200	15°
ELUMI	NUS			90°	90*
	NUS CxM-11 (19x19)			99*	90'
				27	25
LED	CxM-11 (19x19)			84 25 26	50
LED FWHM / FWTM	CxM-11 (19x19) 51.0° / 77.0°			9 ¹ 9 0 ¹	25
LED FWHM / FWTM Efficiency	CxM-11 (19x19) 51.0° / 77.0° 69 %			92 ³ 02 02	2
LED FWHM / FWTM Efficiency Peak intensity	CxM-11 (19x19) 51.0° / 77.0° 69 % 1 cd/lm			92 ⁴ 02 ⁴ 05	99 73 80 80 80 80 80 80 80 80 80 80 80 80 80
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CxM-11 (19x19) 51.0° / 77.0° 69 % 1 cd/lm 1 White		0	9 ¹ 9 ² 23	99 99
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CxM-11 (19x19) 51.0° / 77.0° 69 % 1 cd/lm 1 White nts:			93 97 97 97 97	90 73 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CxM-11 (19x19) 51.0° / 77.0° 69 % 1 cd/lm 1 White nts:			93 95 95 95 95 95 95	99 72 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CxM-11 (19x19) 51.0° / 77.0° 69 % 1 cd/lm 1 White nts:			20 27 00 00 00 00 00 00 00 00	32°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CxM-11 (19x19) 51.0° / 77.0° 69 % 1 cd/lm 1 White nts: -SOCKET-I				25. 25. 26. 25.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	CxM-11 (19x19) 51.0° / 77.0° 69 % 1 cd/lm 1 White nts: -SOCKET-I				99 73 73 70 70 70 70 70 70 70 70 70 70 70 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	CxM-11 (19x19) 51.0° / 77.0° 69 % 1 cd/lm 1 White nts: -SOCKET-I				90 73 70 70 70 70 70 70 70 70 70 70 70 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	CxM-11 (19x19) 51.0° / 77.0° 69 % 1 cd/lm 1 White nts: -SOCKET-I				99 73 90 90 90 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	CxM-11 (19x19) 51.0° / 77.0° 69 % 1 cd/lm 1 White nts: -SOCKET-I				99 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 F15859_HEKLA	CxM-11 (19x19) 51.0° / 77.0° 69 % 1 cd/lm 1 White nts: -SOCKET-I INUS CXM-3 35.0° / 61.0° 80 %				99 75 70 70 70 70 70 70 70 70 70 70 70 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	CxM-11 (19x19) 51.0° / 77.0° 69 % 1 cd/lm 1 White nts: -SOCKET-I NUS CXM-3 35.0° / 61.0° 80 % 2 cd/lm				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	CxM-11 (19x19) 51.0° / 77.0° 69 % 1 cd/lm 1 White nts: -SOCKET-I NUS CXM-3 35.0° / 61.0° 80 % 2 cd/lm 1 White				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	CxM-11 (19x19) 51.0° / 77.0° 69 % 1 cd/lm 1 White nts: -SOCKET-I CXM-3 35.0° / 61.0° 80 % 2 cd/lm 1 White nts:				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	CxM-11 (19x19) 51.0° / 77.0° 69 % 1 cd/lm 1 White nts: -SOCKET-I CXM-3 35.0° / 61.0° 80 % 2 cd/lm 1 White nts:				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	CxM-11 (19x19) 51.0° / 77.0° 69 % 1 cd/lm 1 White nts: -SOCKET-I CXM-3 35.0° / 61.0° 80 % 2 cd/lm 1 White nts:				

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C LUMI	NUS		90* 90*
LED	CXM-4		
FWHM / FWTM	35.0° / 62.0°		75°
Efficiency	78 %		
Peak intensity	1.9 cd/lm		
LEDs/each optic	1		
Light colour	White		eg* 1230 es*
Required componer	nts:		
F15255_HEKLA-	SOCKET-C		1500
			306 2000 30*
<u> </u>			<u>115°</u> 0 ⁶ <u>15°</u>
	NUS		90* 90*
LED	CxM-9 (13.5x13.5)		75. 75.
FWHM / FWTM	44.0° / 72.0°		
Efficiency	73 %		60° 60°
Peak intensity	1.2 cd/lm		
LEDs/each optic	1		
Light colour	White		55° - 800 - 63°
Required componer			
F15255_HEKLA-	SOCKET-C		
			1220
			30° - 30°
\sim			
MNICHIA	i i i i i i i i i i i i i i i i i i i		90° 90°
			<u>99¹</u> 99 ¹
	NJCWL024Z-V1MT: COB L-Type Tunable White 37.0° / 64.0°	1000	30*
LED	NJCWL024Z-V1MT: COB L-Type Tunable White		20°
LED FWHM / FWTM	NJCWL024Z-V1MT: COB L-Type Tunable White 37.0° / 64.0°		60 90 90 90 90 90 90
LED FWHM / FWTM Efficiency	NJCWL024Z-V1MT: COB L-Type Tunable White 37.0° / 64.0° 67 %		00 00 00 00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity	NJCWL024Z-V1MT: COB L-Type Tunable White 37.0° / 64.0° 67 % 1.5 cd/lm		61 61 61 60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NJCWL024Z-V1MT: COB L-Type Tunable White 37.0° / 64.0° 67 % 1.5 cd/lm 1 White		0° 0° 0°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NJCWL024Z-V1MT: COB L-Type Tunable White 37.0° / 64.0° 67 % 1.5 cd/lm 1 White nts:		50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	NJCWL024Z-V1MT: COB L-Type Tunable White 37.0° / 64.0° 67 % 1.5 cd/lm 1 White tts: SOCKET-K		\$7 60 70 70 70 70 70 70 70 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA:	NJCWL024Z-V1MT: COB L-Type Tunable White 37.0° / 64.0° 67 % 1.5 cd/lm 1 White tts: SOCKET-K		\$7 60 70 70 70 70 70 70 70 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: Bender Wirth: 49	NJCWL024Z-V1MT: COB L-Type Tunable White 37.0° / 64.0° 67 % 1.5 cd/lm 1 White hts: SOCKET-K 7 Typ L8		75 60 90 125 125
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: Bender Wirth: 49	NJCWL024Z-V1MT: COB L-Type Tunable White 37.0° / 64.0° 67 % 1.5 cd/lm 1 White nts: SOCKET-K 7 Typ L8		25 60 10 10 10 10 10 10 10 10 10 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: Bender Wirth: 49	NJCWL024Z-V1MT: COB L-Type Tunable White 37.0° / 64.0° 67 % 1.5 cd/lm 1 White tts: SOCKET-K 7 Typ L8 NVCWJ024Z-V1MT: COB J-Type Tunable White		27 27 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: Bender Wirth: 49	NJCWL024Z-V1MT: COB L-Type Tunable White 37.0° / 64.0° 67 % 1.5 cd/lm 1 White hts: SOCKET-K 7 Typ L8 NVCWJ024Z-V1MT: COB J-Type Tunable White 44.0° / 71.0°		25 60 10 10 10 10 10 10 10 10 10 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: Bender Wirth: 49	NJCWL024Z-V1MT: COB L-Type Tunable White 37.0° / 64.0° 67 % 1.5 cd/lm 1 White hts: SOCKET-K 7 Typ L8 NVCWJ024Z-V1MT: COB J-Type Tunable White 44.0° / 71.0° 66 %		25 60 10 10 10 10 10 10 10 10 10 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: Bender Wirth: 49	NJCWL024Z-V1MT: COB L-Type Tunable White 37.0° / 64.0° 67 % 1.5 cd/lm 1 White hts: SOCKET-K 7 Typ L8 NVCWJ024Z-V1MT: COB J-Type Tunable White 44.0° / 71.0° 66 % 1.1 cd/lm		75 60 60 10 10 10 10 10 10 10 10 10 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: Bender Wirth: 49	NJCWL024Z-V1MT: COB L-Type Tunable White 37.0° / 64.0° 67 % 1.5 cd/lm 1 White hts: SOCKET-K 7 Typ L8 NVCWJ024Z-V1MT: COB J-Type Tunable White 44.0° / 71.0° 66 % 1.1 cd/lm 1		75 60 60 10 10 10 10 10 10 10 10 10 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: Bender Wirth: 49	NJCWL024Z-V1MT: COB L-Type Tunable White 37.0° / 64.0° 67 % 1.5 cd/lm 1 White tts: SOCKET-K 7 Typ L8 NVCWJ024Z-V1MT: COB J-Type Tunable White 44.0° / 71.0° 66 % 1.1 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: Bender Wirth: 49	NJCWL024Z-V1MT: COB L-Type Tunable White 37.0° / 64.0° 67 % 1.5 cd/lm 1 White hts: SOCKET-K 7 Typ L8 NVCWJ024Z-V1MT: COB J-Type Tunable White 44.0° / 71.0° 66 % 1.1 cd/lm 1 White hts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA Bender Wirth: 49	NJCWL024Z-V1MT: COB L-Type Tunable White 37.0° / 64.0° 67 % 1.5 cd/lm 1 White tts: SOCKET-K 7 Typ L8 NVCWJ024Z-V1MT: COB J-Type Tunable White 44.0° / 71.0° 66 % 1.1 cd/lm 1 White tts: SOCKET-K		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA Bender Wirth: 49	NJCWL024Z-V1MT: COB L-Type Tunable White 37.0° / 64.0° 67 % 1.5 cd/lm 1 White tts: SOCKET-K 7 Typ L8 NVCWJ024Z-V1MT: COB J-Type Tunable White 44.0° / 71.0° 66 % 1.1 cd/lm 1 White tts: SOCKET-K		



r			
PHILIF	S		40e
LED	Fortimo SLM L09 CoB		
FWHM / FWTM	44.0° / 66.0°		25.
Efficiency	75 %		60°
Peak intensity	1.4 cd/lm		$\Gamma \times / / / \wedge \times \uparrow$
LEDs/each optic	1	and the second se	
Light colour	White		45 ¹ 45*
Required compone	nts:		
F15858_HEKLA	-SOCKET-H		
			30* 157 0* 15% 30*
S ΛΜS	ING		50°
LED	LC003D / LC006D / LC009D / LC013D		
FWHM / FWTM	45.0° / 73.0°		75*
Efficiency	74 %		
Peak intensity	1.2 cd/lm		60 ⁶ / ⁶⁰ *
LEDs/each optic	1		
Light colour	White		gzi
Required compone			800
F15255_HEKLA			
			1200
			15 ⁴ 0 ⁸ 15 ⁴
SAMSU	JNG		50* 50*
LED	LC010C G2		
FWHM / FWTM	37.0° / 65.0°		75*
Efficiency	76 %		60* 60*
Peak intensity	1.7 cd/lm		
LEDs/each optic	1		
Light colour	White		45* 43*
Required compone	nts:		
F15255_HEKLA	-SOCKET-C		$X \land X$
			1630
			30° 15° 0° 15°
S ΛΜSI	ING		50°
LED	LC010T (Tunable White)		
FWHM / FWTM	42.0° / 70.0°		75.
Efficiency	68 %		
Peak intensity	1.3 cd/lm		60* 60*
LEDs/each optic	1		$ \times / \rightarrow \times$
Light colour	Tunable White		93 ¹ 93 ²
Required compone			
C16142 HEKLA	-SOCKET-K		
C16142_HEKLA Bender Wirth: 50			
C16142_HEKLA Bender Wirth: 50			200 - 200 -

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S ΛΜSL	JNG		90*	9
LED	LC020C G2			
FWHM / FWTM	43.0° / 70.0°			
Efficiency	72 %		60°	$K \land \nearrow$
Peak intensity	1.3 cd/lm			$ \rangle \sim $
LEDs/each optic	1			
Light colour	White		97°	- ()
Required compone	nts:			
F15859_HEKLA	-SOCKET-I			$\Lambda \times$
			1230	H \
			30° 15° 0°	15°
SEOUL			90*	Ť.
SEOUL SEMICONDUCTOR	MJT COB LES 6			
FWHM / FWTM	37.0° / 64.0°		73*	XT
Efficiency	74 %		400	\times / M
Peak intensity	1.7 cd/lm		60.5	NX 1
LEDs/each optic	1			$h \vee$
Light colour	White		57.	
Required compone			1200	+
F15255_HEKLA				Λ \vee
			1630	
			15° 0°	12.
SEOUL				F
SEOUL SEMICONDUCTOR			90*	
	MJT COB LES 9.8		90°	
SEOUL SEMICONDUCTOR	MJT COB LES 9.8 45.0° / 72.0°		39* 73*	
seoul semiconductor			99* 25 25	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	45.0° / 72.0°		60 29*	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	45.0° / 72.0° 71 %		90° 73° 700	
seoul semiconductor LED FWHM / FWTM	45.0° / 72.0° 71 % 1.2 cd/lm		90° 739 01° 60 01°	
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	45.0° / 72.0° 71 % 1.2 cd/lm 1 White		9° 9° 9° 9°	
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	45.0° / 72.0° 71 % 1.2 cd/lm 1 White nts:		9° 75 0,1 0,1 0,1 0,1 0,0 0,0 0,0 0,0 0,0 0,0	
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	45.0° / 72.0° 71 % 1.2 cd/lm 1 White nts:		5° 5° 9°	
stour stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	45.0° / 72.0° 71 % 1.2 cd/lm 1 White nts:		90° 91° 92° 92° 92° 93° 93° 93° 93° 93° 93° 93° 93° 93° 93	27
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	45.0° / 72.0° 71 % 1.2 cd/lm 1 White nts: -SOCKET-C			
stour stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	45.0° / 72.0° 71 % 1.2 cd/lm 1 White nts: -SOCKET-C			
stour structure LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	45.0° / 72.0° 71 % 1.2 cd/lm 1 White nts: -SOCKET-C SLE G7 LES09			13°
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA TRIDON LED FWHM / FWTM	45.0° / 72.0° 71 % 1.2 cd/lm 1 White nts: -SOCKET-C SLE G7 LES09 43.0° / 71.0°			
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA TRIDON LED FWHM / FWTM Efficiency	45.0° / 72.0° 71 % 1.2 cd/lm 1 White nts: -SOCKET-C SLE G7 LES09 43.0° / 71.0° 74 %			
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity	45.0° / 72.0° 71 % 1.2 cd/lm 1 White nts: -SOCKET-C SLE G7 LES09 43.0° / 71.0° 74 % 1.3 cd/lm			
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	45.0° / 72.0° 71 % 1.2 cd/lm 1 White nts: -SOCKET-C SLE G7 LES09 43.0° / 71.0° 74 % 1.3 cd/lm 1			
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	45.0° / 72.0° 71 % 1.2 cd/lm 1 White nts: -SOCKET-C SLE G7 LES09 43.0° / 71.0° 74 % 1.3 cd/lm 1 White			
stour stantconductor LED FWHM / FWTM 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	45.0° / 72.0° 71 % 1.2 cd/lm 1 White nts: -SOCKET-C SLE G7 LES09 43.0° / 71.0° 74 % 1.3 cd/lm 1 White nts:			
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	45.0° / 72.0° 71 % 1.2 cd/lm 1 White nts: -SOCKET-C SLE G7 LES09 43.0° / 71.0° 74 % 1.3 cd/lm 1 White nts:			
seou sewconductor LED FWHM / FWTM 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	45.0° / 72.0° 71 % 1.2 cd/lm 1 White nts: -SOCKET-C SLE G7 LES09 43.0° / 71.0° 74 % 1.3 cd/lm 1 White nts:			



TRIDON		8 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	SLE G7 LES13 54.0° / 79.0° 66 % 0.9 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	XOB 6 mm 38.0° / 66.0° 76 % 1.7 cd/lm 1 White ents:	
XICATO		225° 6° 225°
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 C16058_XTM-A	XTM - 19mm LES 58.0° / 88.0° 61 % 0.7 cd/lm 1 White ents:	



OPTICAL RESULTS (SIMULATED):

bridgelux.		
LED	VER013	
FWHM / FWTM	45.0° / 73.0°	
Efficiency	63 %	
	1 cd/lm	
Peak intensity		
LEDs/each optic	1	
Light colour	White	
Required components:		
C16142_HEKLA-SOC	JKE I-K	
		90° 90°
LED	CMA1825	
FWHM / FWTM	49.0° / 72.0°	73*
Efficiency	70 %	
Peak intensity	1.1 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	' White	45*
	Wille	
Required components:		840
		30° 35° 35°
		90°
LED	CMA1840	75"
FWHM / FWTM	55.0° / 79.0°	
Efficiency	66 %	60°
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		800
		30° 15° 0° 15° 30°
CREE ≑		90° 90°
LEDS		
	CMT14xx	75"
FWHM / FWTM	41.0° / 63.0°	400
Efficiency	71 %	60*
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
F17435_HEKLA-G2-(1230
		36* 30* 30*
1		15° 0° 35°



OPTICAL RESULTS (SIMULATED):

CREE ≑		
LEDS		90* 90*
LED	CXA/B 15xx	75*
FWHM / FWTM	35.8° / 60.0°	
Efficiency	%	60* 000 60
Peak intensity	2.3 cd/lm	
LEDs/each optic	1	
Light colour	White	er
Required components:		1630
F15256_HEKLA-SO	CKET-D	
		364 36
		15°
		90° 90°
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	
FWHM / FWTM	52.0° / 74.0°	23*
Efficiency	66 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	ar ar
Required components:		
F15254_HEKLA-SO	CKET-B	
		30° 30° 30°
ΜΝΙCΗΙΛ		
		90* 90*
		90° 90'
LED	COB S-Type (LES 7)	
LED FWHM / FWTM	38.0° / 58.0°	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency	38.0° / 58.0° 75 %	
LED FWHM / FWTM Efficiency Peak intensity	38.0° / 58.0° 75 % 1.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	38.0° / 58.0° 75 % 1.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	38.0° / 58.0° 75 % 1.9 cd/lm	90° 99 73° 400 60° 600 e° 100 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	38.0° / 58.0° 75 % 1.9 cd/lm 1 White	90° 99° 73° 000 00° 00° 00° 00° 00° 00° 00° 00° 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	38.0° / 58.0° 75 % 1.9 cd/lm 1 White	90° 99° 73° 000 72° 60° 000 72° 75° 1230 65° 1230 65°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	38.0° / 58.0° 75 % 1.9 cd/lm 1 White	90° 99° 39° 000 99° 0000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	38.0° / 58.0° 75 % 1.9 cd/lm 1 White	50° 60° 73° 60° 60° 60° 60° 60° 73° 100 60° 73° 100 60° 73° 100 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SO	38.0° / 58.0° 75 % 1.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SOU	38.0° / 58.0° 75 % 1.9 cd/lm 1 White CKET-G	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SOU	38.0° / 58.0° 75 % 1.9 cd/lm 1 White CKET-G	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SOU	38.0° / 58.0° 75 % 1.9 cd/lm 1 White CKET-G COB T-Type 36.0° / 55.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SOU	38.0° / 58.0° 75 % 1.9 cd/lm 1 White CKET-G COB T-Type 36.0° / 55.0° 78 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SOU	38.0° / 58.0° 75 % 1.9 cd/lm 1 White CKET-G COB T-Type 36.0° / 55.0° 78 % 2.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SOU WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	38.0° / 58.0° 75 % 1.9 cd/lm 1 White CKET-G COB T-Type 36.0° / 55.0° 78 % 2.2 cd/lm 1	90 ⁺ 90 72 ⁻ 72 60 ⁺ 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SOU Efficiency Peak intensity LEDs/each optic Light colour	38.0° / 58.0° 75 % 1.9 cd/lm 1 White CKET-G COB T-Type 36.0° / 55.0° 78 % 2.2 cd/lm	90 ⁺ 90 72 ⁻ 72 60 ⁺ 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SOU WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	38.0° / 58.0° 75 % 1.9 cd/lm 1 White CKET-G COB T-Type 36.0° / 55.0° 78 % 2.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SOU WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	38.0° / 58.0° 75 % 1.9 cd/lm 1 White CKET-G COB T-Type 36.0° / 55.0° 78 % 2.2 cd/lm 1 White	90 ⁺ 90 72 ⁻ 72 60 ⁺ 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SOU WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	38.0° / 58.0° 75 % 1.9 cd/lm 1 White CKET-G COB T-Type 36.0° / 55.0° 78 % 2.2 cd/lm 1 White	90 ⁺ 90 70 ⁺ 70 90 ⁺ 000



OPTICAL RESULTS (SIMULATED):

SAMSU	NG	50*
LED	LC003D / LC006D / LC009D / LC013D	
FWHM / FWTM	45.0° / 67.0°	
Efficiency	69 %	400
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	97
Required components		
F17435_HEKLA-G2	2-C	
		30° 15° 0° 15°
SAMSU	NG	50°
LED	LC003D / LC006D / LC009D / LC013D	
FWHM / FWTM	44.0° / 66.0°	
Efficiency	69 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	g"
Required components		
F17435_HEKLA-G2	2-C	
		30*
SAMSU		15° 0° 15°
		90*
LED	LC010C	75
FWHM / FWTM	34.0° / 54.0°	
Efficiency	76 %	605 800
Peak intensity	2.2 cd/lm	
LEDs/each optic	1	$\parallel \times / \mid $
Light colour	White	
Required components		
F17435_HEKLA-G2	2-C	
		36* 100 20,00 100



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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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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