

### CARMEN-50-RS-C

~12° spot beam. Assembly with holder C compatible with LEDiL HEKLA.

### **TECHNICAL SPECIFICATIONS:**

Dimensions	Ø 50.0 mm
Height	25.5 mm
Fastening	socket
ROHS compliant	yes 🛈



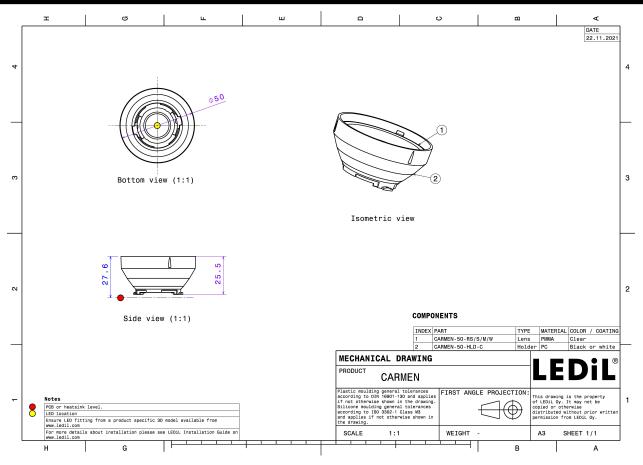
### **MATERIAL SPECIFICATIONS:**

Component	Туре	Material	Colour	Finish
CARMEN-50-RS	Single lens	PMMA	clear	
CARMEN-50-HLD-C	Holder	PC	black	

### **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CP16106_CARMEN-50-RS-C	Single lens	308	112	28	7.2
» Box size: 476 x 273 x 292 mm					





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



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA		200 120 100 100 100 100 100 100 100
bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA		200 200 200 200 200 200 200 200 200 200
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA		90 <sup>4</sup> 100 100 100 100 100 100 100 10
bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA		200 200 200 200 200 200 200 200 200 200



bridgelux.		
LED	Vesta TW 6mm DP	
FWHM / FWTM	11.0° / 21.0°	
Efficiency	59 %	
Peak intensity	9.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
C16142_HEKLA		
Bender Wirth: 50		
Dender Wirth. St		
bridgelux.		90°
LED	Vesta TW 9mm (9W) DP	72.
FWHM / FWTM	15.0° / 28.0°	
Efficiency	54 %	60* 1900.
Peak intensity	5.1 cd/lm	
LEDs/each optic	1	
Light colour	White	e <sup>2</sup> 330
Required compone	ents:	
C16142_HEKLA	A-SOCKET-K	
Bender Wirth: 48	89 Typ L8	
		30*
		15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>5</sup>
CITIZE	Ν	90°
LED	CLL02x/CLU02x (LES10)	
FWHM / FWTM	16.0° / 29.0°	72
Efficiency	63 %	
Peak intensity	5.6 cd/lm	
LEDs/each optic	1	
Light colour	White	ar (300
Required compone		
F15255_HEKLA		
		$\times$ / $\vee$ / $\times$
		30° 35°
CITIZE	Ν	90* A
LED	CLU700/701/702	
FWHM / FWTM	11.0° / 21.0°	
Efficiency	67 %	
Peak intensity	11.8 cd/lm	60* · · · · · · · · · · · · · · · · · · ·
LEDs/each optic	1	
Light colour	White	ar 500
Required compone		
F15255_HEKLA		
		800
		30 30 30



CITIZE	Ν	90° 90°
LED	CLU710/711	
FWHM / FWTM	14.0° / 27.0°	
Efficiency	62 %	
Peak intensity	6.4 cd/lm	
LEDs/each optic	1	
Light colour	White	gr gr
Required compone	ents:	
F15859_HEKLA		
		34"
CITIZE	N	255 of 25*
		90 <sup>4</sup> 90 <sup>4</sup>
LED	CLU7A2 (LES 4.2mm)	37
FWHM / FWTM	9.0° / 18.0°	
Efficiency	72 %	6)* 600 6)*
Peak intensity	18.5 cd/lm	
LEDs/each optic	1	
Light colour	White	e, e,
Required compone		
F15255_HEKLA	-SOCKET-C	
		34" <u>35000</u> 33"
CITIZE	Ν	50 <sup>4</sup>
		90 <sup>*</sup>
LED	CLU7B2	90 <sup>4</sup> 90 <sup>4</sup>
LED FWHM / FWTM	CLU7B2 8.0° / 17.0°	25 26 26 26 26 26 26 26 26 26 26 26 26 26
LED FWHM / FWTM Efficiency	CLU7B2 8.0° / 17.0° 71 %	8.4. (100) 3.5. 2.5. 37. 35.
LED FWHM / FWTM Efficiency Peak intensity	CLU7B2 8.0° / 17.0° 71 % 20 cd/lm	804 (400 (400 (400 (400 (400 (400 (400 (
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLU7B2 8.0° / 17.0° 71 % 20 cd/lm 1	22. 22. 80. 60. 65. 32. 52. 85. 85.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLU7B2 8.0° / 17.0° 71 % 20 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLU7B2 8.0° / 17.0° 71 % 20 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLU7B2 8.0° / 17.0° 71 % 20 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLU7B2 8.0° / 17.0° 71 % 20 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU7B2 8.0° / 17.0° 71 % 20 cd/lm 1 White ents: -SOCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLU7B2 8.0° / 17.0° 71 % 20 cd/lm 1 White ents: -SOCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU7B2 8.0° / 17.0° 71 % 20 cd/lm 1 White ents: -SOCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU7B2 8.0° / 17.0° 71 % 20 cd/lm 1 White ents: -SOCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU7B2 8.0° / 17.0° 71 % 20 cd/lm 1 White ents: -SOCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU7B2 8.0° / 17.0° 71 % 20 cd/lm 1 White ents: -SOCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU7B2 8.0° / 17.0° 71 % 20 cd/lm 1 White ents: -SOCKET-C CMA1516 16.0° / 29.0° 65 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU7B2 8.0° / 17.0° 71 % 20 cd/lm 1 White onts: -SOCKET-C CMA1516 16.0° / 29.0° 65 % 5.9 cd/lm	25- 29- 29-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU7B2 8.0° / 17.0° 71 % 20 cd/lm 1 White ents: -SOCKET-C CMA1516 16.0° / 29.0° 65 % 5.9 cd/lm 1 White	25- 29- 29-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU7B2 8.0° / 17.0° 71 % 20 cd/lm 1 White ents: -SOCKET-C CMA1516 16.0° / 29.0° 65 % 5.9 cd/lm 1 White ents:	25- 29- 29-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLU7B2 8.0° / 17.0° 71 % 20 cd/lm 1 White ents: -SOCKET-C CMA1516 16.0° / 29.0° 65 % 5.9 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLU7B2 8.0° / 17.0° 71 % 20 cd/lm 1 White ents: -SOCKET-C CMA1516 16.0° / 29.0° 65 % 5.9 cd/lm 1 White ents:	



		90 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CMT14xx 16.0° / 30.0° 42 % 3.6 cd/lm 1 White ints:	
	D	20 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA	CXA/B 13xx 12.0° / 23.0° 68 % 10.6 cd/lm 1 White ints:	
	D	200 <sup>4</sup> 20 <sup>4</sup> 20 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15256_HEKLA		77
		90 <sup>4</sup> 25 <sup>3</sup> 0 <sup>1</sup> 25 <sup>3</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1202HD 12.0° / 23.0° 68 % 10.1 cd/lm 1 White	
Required compone F15848_HEKLA	ints:	30 <sup>4</sup> 25 <sup>4</sup> 0 <sup>4</sup> 25 <sup>4</sup>



COMIL	.EDS	99 <sup>4</sup>
LED	LUXEON CoB 1202s	
FWHM / FWTM	12.0° / 22.0°	77
Efficiency	69 %	
Peak intensity	11.4 cd/lm	6 <sup>6</sup>
LEDs/each optic	1	
Light colour	White	er*
Required compone		
F15848_HEKLA		
		30'
		125° 0° 125
COMIL	.EDS	30° A
LED	LUXEON CX Plus CoB - HD S01H4	
FWHM / FWTM	10.0° / 19.0°	79
Efficiency	64 %	
Peak intensity	14 cd/lm	
LEDs/each optic	1	$ \times / \mathcal{T} ^{\bullet \bullet} \uparrow \setminus \times$
Light colour	White	57
Required compone	ents:	800
Bender Wirth: 63	34c Hekla	$\times$ / $\times$ / $\times$
		true -
		34
	EDC	
	EUS	90*
		99*
LED	LUXEON CX Plus CoB - HD S01H6 / HD S02H6	36. 26.
LED FWHM / FWTM	LUXEON CX Plus CoB - HD S01H6 / HD S02H6 10.0° / 19.0°	92 <sup>1</sup>
LED FWHM / FWTM Efficiency	LUXEON CX Plus CoB - HD S01H6 / HD S02H6 10.0° / 19.0° 64 %	994 72 101
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CX Plus CoB - HD S01H6 / HD S02H6 10.0° / 19.0° 64 % 12.7 cd/lm	94 77 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB - HD S01H6 / HD S02H6 10.0° / 19.0° 64 % 12.7 cd/lm 1	91 91 91 91 91 91 91 91 91 91 91 91 91 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB - HD S01H6 / HD S02H6 10.0° / 19.0° 64 % 12.7 cd/lm 1 White	91 72 92 92 93 93 94 94 94 95 95
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB - HD S01H6 / HD S02H6 10.0° / 19.0° 64 % 12.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB - HD S01H6 / HD S02H6 10.0° / 19.0° 64 % 12.7 cd/lm 1 White ents:	94 92 60 60 60 60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB - HD S01H6 / HD S02H6 10.0° / 19.0° 64 % 12.7 cd/lm 1 White ents:	94 95 97 97 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 Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H6 / HD S02H6 10.0° / 19.0° 64 % 12.7 cd/lm 1 White ents: 34c Hekla	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB - HD S01H6 / HD S02H6 10.0° / 19.0° 64 % 12.7 cd/lm 1 White ents: 34c Hekla	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H6 / HD S02H6 10.0° / 19.0° 64 % 12.7 cd/lm 1 White ents: 34c Hekla	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H6 / HD S02H6 10.0° / 19.0° 64 % 12.7 cd/lm 1 White white shts: 34c Hekla	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H6 / HD S02H6 10.0° / 19.0° 64 % 12.7 cd/lm 1 White ents: 34c Hekla LUXEON CX Plus CoB - HD S04H9 14.0° / 26.0° 60 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H6 / HD S02H6 10.0° / 19.0° 64 % 12.7 cd/lm 1 White ents: 34c Hekla LUXEON CX Plus CoB - HD S04H9 14.0° / 26.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 WITH: 63 Ender Wirth: 63 ENDER Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB - HD S01H6 / HD S02H6 10.0° / 19.0° 64 % 12.7 cd/lm 1 White ents: 34c Hekla LUXEON CX Plus CoB - HD S04H9 14.0° / 26.0° 60 % 6.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 <b>CONTINUATION</b> Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB - HD S01H6 / HD S02H6 10.0° / 19.0° 64 % 12.7 cd/lm 1 White ents: 34c Hekla EDS LUXEON CX Plus CoB - HD S04H9 14.0° / 26.0° 60 % 6.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 <b>COMPARENTION</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB - HD S01H6 / HD S02H6 10.0° / 19.0° 64 % 12.7 cd/lm 1 White ents: 34c Hekla LUXEON CX Plus CoB - HD S04H9 14.0° / 26.0° 60 % 6.2 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 <b>COMPLE</b> Emotion Component Bender Wirth: 63 <b>COMPLE</b> Emotion Component Bender Wirth: 63 <b>COMPLE</b> Emotion Component Emotion Component Bender Wirth: 63 <b>COMPLE</b> Emotion Component Emotion Compon	LUXEON CX Plus CoB - HD S01H6 / HD S02H6 10.0° / 19.0° 64 % 12.7 cd/lm 1 White ents: 34c Hekla LUXEON CX Plus CoB - HD S04H9 14.0° / 26.0° 60 % 6.2 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 <b>CONTINUATION</b> Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB - HD S01H6 / HD S02H6 10.0° / 19.0° 64 % 12.7 cd/lm 1 White ents: 34c Hekla LUXEON CX Plus CoB - HD S04H9 14.0° / 26.0° 60 % 6.2 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 <b>COMMIN</b> <b>ED</b> FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB - HD S01H6 / HD S02H6 10.0° / 19.0° 64 % 12.7 cd/lm 1 White ents: 34c Hekla LUXEON CX Plus CoB - HD S04H9 14.0° / 26.0° 60 % 6.2 cd/lm 1 White ents:	



	FDS	5° 3
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB M02 / M03 (Gen2) 13.0° / 25.0° 60 % 7.3 cd/lm 1 White ents:	
	EDS	90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB S01 (Gen2) 10.0° / 19.0° 65 % 14.3 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CXM-3 9.0° / 17.0° 72 % 19.8 cd/lm 1 White ents: -SOCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CXM-4 10.0° / 19.0° 68 % 14.8 cd/lm 1 White	99° 9 25° 200 20 60° 600 4 50° 7 800 4 800 4 8000 4 8000 4 800 4 800 4 800 4 800 4 800 4 800 4 800 4 8



	INUS	207
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CxM-9 (13.5x13.5) 15.0° / 29.0° 63 % 5.8 cd/lm 1 White ents:	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15848_HEKLA	COB S-Type (LES 7) 13.0° / 24.0° 67 % 9.3 cd/lm 1 White ents:	
PHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	Fortimo SLM L09 CoB 15.0° / 28.0° 64 % 6 cd/lm 1 White ents:	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15848_HEKLA	LC010C 11.0° / 22.0° 64 % 9.8 cd/lm 1 White ents:	



SAMSU	ING	30* 30*
LED	LC010C G2	
FWHM / FWTM	11.0° / 21.0°	78.
Efficiency	67 %	
Peak intensity	12.6 cd/lm	60 <sup>4</sup>
LEDs/each optic	1	6430 A
Light colour	White	8°
Required compone	nts:	
F15255_HEKLA		8600
		30* 12800 30*
0.0.0.0		15% of 15%
SΛΜSι	JNG	90* 90*
LED	LC020C	75
FWHM / FWTM	13.0° / 26.0°	
Efficiency	64 %	
Peak intensity	7.1 cd/lm	
LEDs/each optic	1	
Light colour	White	43* 43*
Required compone	nts:	
F15848_HEKLA	-SOCKET-G	
		6430
		30.0 36.0
сллсі		132 <sup>1</sup> o <sup>b</sup> 132 <sup>2</sup>
слизи		94 <sup>4</sup> 35 <sup>4</sup> 35 <sup>4</sup>
LED	LC020C G2	91 <sup>°</sup> 4 <sup>°</sup> 32 <sup>°</sup> 9 <sup>°</sup>
LED FWHM / FWTM	LC020C G2 15.0° / 27.0°	
LED FWHM / FWTM Efficiency	LC020C G2 15.0° / 27.0° 63 %	
LED FWHM / FWTM Efficiency Peak intensity	LC020C G2 15.0° / 27.0° 63 % 6.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC020C G2 15.0° / 27.0° 63 % 6.3 cd/lm 1	64 64 700 700 700 700 700 700 700 700
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC020C G2 15.0° / 27.0° 63 % 6.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC020C G2 15.0° / 27.0° 63 % 6.3 cd/lm 1 White nts:	64 64 700 700 700 700 700 700 700 700
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC020C G2 15.0° / 27.0° 63 % 6.3 cd/lm 1 White nts:	64 64 700 700 700 700 700 700 700 700
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC020C G2 15.0° / 27.0° 63 % 6.3 cd/lm 1 White nts:	64 64 700 700 700 700 700 700 700 700
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC020C G2 15.0° / 27.0° 63 % 6.3 cd/lm 1 White nts:	64 60 <sup>4</sup> 720 727
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	LC020C G2 15.0° / 27.0° 63 % 6.3 cd/lm 1 White nts: -SOCKET-1	21- 21- 21- 22- 22- 22- 22- 22- 22- 22-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	LC020C G2 15.0° / 27.0° 63 % 6.3 cd/lm 1 White nts: -SOCKET-1	27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	LC020C G2 15.0° / 27.0° 63 % 6.3 cd/lm 1 White nts: -SOCKET-1 SLE G7 LES09	21- 21- 21- 22- 22- 22- 22- 22- 22- 22-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	LC020C G2 15.0° / 27.0° 63 % 6.3 cd/lm 1 White nts: -SOCKET-1 SLE G7 LES09 15.0° / 27.0°	21- 21- 21- 22- 22- 22- 22- 22- 22- 22-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA TRIDON LED FWHM / FWTM Efficiency	LC020C G2 15.0° / 27.0° 63 % 6.3 cd/lm 1 White nts: -SOCKET-J SLE G7 LES09 15.0° / 27.0° 66 %	21- 21- 21- 22- 22- 22- 22- 22- 22- 22-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity	LC020C G2 15.0° / 27.0° 63 % 6.3 cd/lm 1 White nts: -SOCKET-I SLE G7 LES09 15.0° / 27.0° 66 % 6.5 cd/lm	21- 21- 21- 22- 22- 22- 22- 22- 22- 22-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC020C G2 15.0° / 27.0° 63 % 6.3 cd/lm 1 White nts: -SOCKET-I SLE G7 LES09 15.0° / 27.0° 66 % 6.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC020C G2 15.0° / 27.0° 63 % 6.3 cd/lm 1 White nts: -SOCKET-I SLE G7 LES09 15.0° / 27.0° 66 % 6.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA <b>TRIDON</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC020C G2 15.0° / 27.0° 63 % 6.3 cd/lm 1 White nts: -SOCKET-I SLE G7 LES09 15.0° / 27.0° 66 % 6.5 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC020C G2 15.0° / 27.0° 63 % 6.3 cd/lm 1 White nts: -SOCKET-I SLE G7 LES09 15.0° / 27.0° 66 % 6.5 cd/lm 1 White nts:	350     350       36     900       36     900       36     900       36     900       36     900       36     900       37     900       36     900       37     900       90     900       90     900       90     900       90     900       90     900       90     900       90     900       90     900       90     900       90     900       90     900       90     900
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA <b>TRIDON</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC020C G2 15.0° / 27.0° 63 % 6.3 cd/lm 1 White nts: -SOCKET-I SLE G7 LES09 15.0° / 27.0° 66 % 6.5 cd/lm 1 White nts:	



ED SLEGTLESI3 FWHM/FWTM 20.0°/37.0° FWHM/FWTM 20.0°/37.0° FWHM/FWTM 20.0°/37.0° FWHM/FWTM 20.0°/37.0° FWHM/FWTM 20.0°/37.0° FLOSWARD QUI 1 Light colour White Required components: F1585_HEKLA-SOCKET-H F1585_HEKLA-SOCKET-C F15255_HEKLA-SOCKET-C F15255_HEKLA-SOCKET-C F15255_HEKLA-SOCKET-C F15255_HEKLA-SOCKET-C F15255_HEKLA-SOCKET-C F15255_HEKLA-SOCKET-C F15255_HEKLA-SOCKET-C F15255_HEKLA-SOCKET-C F15255_HEKLA-SOCKET-C F15255_HEKLA-SOCKET-C F15255_HEKLA-SOCKET-C	TRIDO			50*
Efficiency 56 % Peak itensity 3 od/im Light colour White Required components: F15558_HEKLA-SOCKET-H XICATO LED XOB 6 mn WHM /FVTM 110 / 210° Efficiency 66 % Peak itensity 11.1 od/in LEDwach pdite 1 LEDwach pdite 1 L	LED			
Peak intensity 3 od/m ED9/astroptic 1 Strictato While Regulard components: F15858_HEKLA-SOCKET-H XICATO LED XOB 9 mm WMM /FVTM ED9/astroptic 1 LED XOB 9.8 mm WMM /FVTM ED9/astroptic 1 LED XOB 9.8 mm WMM /FVTM 15.07 /23.0° Elficiency 63 % Peak intensity 6.1 od/m ED9/astroptic 1 LED/astroptic	FWHM / FWTM	20.0° / 37.0°		
EDeleach optic 1 Jght colour White Required components: F15858_HERLA-SOCKET-H XICATO LED XOB 6 mm WHA /FVTM 11.0° / 21.0° Sendency 66 % Peak intensity 11.1 cd/m EDeleach optic 1 Jght colour White Required components: F15255_HERLA-SOCKET-C XICATO ED XOB 9.8 mm Peak intensity 6.1 cd/m LeDeleach optic 1 Jght colour White Required components: F15256_HERLA-SOCKET-C XICATO ED XTM - 9mm LES WHM / FVTM 15.0° / 28.0° Seak intensity 6.1 cd/m LeDeleach optic 1 Jght colour White Required components: F15256_HERLA-SOCKET-C	Efficiency	56 %		605 000 000 000 000 000 000 000 000 000
Jight colour White Required components: F15858_HERLA-SOCKET-H XICATO LED XOB 6 mm WMM /FWTM 11.0°/21.0° Efficiency 66 % Peak intensity 11.1 cd/lm Edb/acdh optic 1 Jight colour White Required components: F15255_HERLA-SOCKET-C XICATO LED XOB 9.8 mm WMM /FWTM 15.0°/28.0° Efficiency 63 % Pask intensity 11 cd/lm LEDs/seach optic 1 Jight colour White Required components: F15255_HERLA-SOCKET-C XICATO LED XOB 9.8 mm WMM /FWTM 15.0°/28.0° Efficiency 63 % Pask intensity 11 cd/lm LEDs/seach optic 1 Jight colour White Required components: F15255_HERLA-SOCKET-C	Peak intensity	3 cd/lm		$f \times / / $
Required components: F19598_HEKLA-SOCKET-H XICATO ED XOB 6 mm EWHM /FVTM 11.0*/21.0* Efficiency 66 % Pack Intensity 11.1 od/m EDWiach optic 1 .ight colour White Required components: F15255_HEKLA-SOCKET-C XICATO EDVecach optic 1 .ight colour White Required components: F15255_HEKLA-SOCKET-C XICATO EDVecach optic 1 .ight colour White Required components: F15255_HEKLA-SOCKET-C XICATO EDVecach optic 1 .ight colour White Required components: F15255_HEKLA-SOCKET-C	LEDs/each optic	1		
F15858_HEKLA-SOCKET-H	Light colour	White		9° (
XICATO     ED   X08 6 mm     WHM / FWTM   1.0° / 21.0°     Fildiancy   66 %     Pack Intensity   11.0° / 21.0°     Fight color   White     Regulard components:   F     F15255_HEKLA-SOCKET-C   Image: Components:     F15255_HEKLA-SOCKET-C   Image: Components:     F1525_HEKLA-SOCKET-C   Image: C	Required compone	ents:		
ED X08 6 mm EWHM / FVTM 11.0° / 21.0° Hickiancy 66 % Peak intensity 11.1 cd/m EDSteach optic 1 Jiph colour White Required components: F15255_HEKLA-SOCKET-C ED X08 9.8 mm WHM / FVTM 15.0° / 28.0° Hickinony 63 % Peak intensity 6.1 cd/m Lgb colour White Required components: F15255_HEKLA-SOCKET-C ED XTM - 9mm LES WHM / FVTM 15.0° / 28.0° Hickinony 63 % Peak intensity 6.1 cd/m Lgb colour White Required components: F15255_HEKLA-SOCKET-C	F15858_HEKLA	A-SOCKET-H		200
ED X08 6 mm EWHM / FVTM 11.0° / 21.0° Hickiancy 66 % Peak intensity 11.1 cd/lm EDS/each optic 1 _jcht colour White Required components: F15255_HEKLA-SOCKET-C ED X08 9.8 mm WHM / FVTM 15.0° / 28.0° Hickinony 63 % Peak intensity 6.1 cd/lm EDS/each optic 1 _jcht colour White Required components: F15255_HEKLA-SOCKET-C ED XTM - 9mm LES WHM / FVTM 15.0° / 28.0° Hickinony 6.1 cd/lm EDS/each optic 1 _jcht colour White Required components: F15255_HEKLA-SOCKET-C				
ED X08 6 mm EWHM / FVTM 11.0° / 21.0° Hickiancy 66 % Peak intensity 11.1 cd/lm EDS/each optic 1 _jcht colour White Required components: F15255_HEKLA-SOCKET-C ED X08 9.8 mm WHM / FVTM 15.0° / 28.0° Hickinony 63 % Peak intensity 6.1 cd/lm EDS/each optic 1 _jcht colour White Required components: F15255_HEKLA-SOCKET-C ED XTM - 9mm LES WHM / FVTM 15.0° / 28.0° Hickinony 6.1 cd/lm EDS/each optic 1 _jcht colour White Required components: F15255_HEKLA-SOCKET-C				30° <u>3200</u> 15°
ED X08 6 mm EWHM / FVTM 11.0° / 21.0° Hickiancy 66 % Peak intensity 11.1 cd/m EDSteach optic 1 Jiph colour White Required components: F15255_HEKLA-SOCKET-C ED X08 9.8 mm WHM / FVTM 15.0° / 28.0° Hickinony 63 % Peak intensity 6.1 cd/m Lgb colour White Required components: F15255_HEKLA-SOCKET-C ED XTM - 9mm LES WHM / FVTM 15.0° / 28.0° Hickinony 63 % Peak intensity 6.1 cd/m Lgb colour White Required components: F15255_HEKLA-SOCKET-C	XICATO	)		90 <sup>+</sup> A
Efficiency 66 % Peak intensity 11.1 cd/m LEDs/each optic 1 Liph colour White Required components: F15255_HEKLA-SOCKET-C XICATO LED XOB 9.8 mm WHM / FVTM 15.0° / 28.0° Efficiency 63 % Peak intensity 6.1 cd/m LEDs/each optic 1 LEDs/each optic 1 LEDs	LED			
Peak intensity 11.1 cd/lm EDS/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C ED XOB 9.8 mm EWHM / FVTTM 15.0° / 28.0° Efficiency 63 % Peak intensity 6.1 cd/lm EDS/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C ED XTM - 9mm LES EVHM / FVTTM 15.0° / 28.0° Efficiency 60 % Peak intensity 5.8 cd/lm EDS/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C	FWHM / FWTM	11.0° / 21.0°		
LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C TOTAL SOCKET-C TOTAL SOCKET-C	Efficiency	66 %		605
LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C TOTAL SOCKET-C TOTAL SOCKET-C	Peak intensity	11.1 cd/lm		
ight colour White Required components: F15255_HEKLA-SOCKET-C <b>ED</b> XOB 9.8 mm WHM / FWTM 15.0° / 28.0° Efficiency 63 % Peak intensity 6.1 col/m .EDs/each optic 1 .ight colour White Required components: F15255_HEKLA-SOCKET-C <b>ED</b> XTM - 9mm LES WHM / FWTM 15.0° / 28.0° Efficiency 60 % Peak intensity 5.8 col/m .EDs/each optic 1 	LEDs/each optic	1		
Required components: F15255_HEKLA-SOCKET-C ACCATO LED XOB 9.8 mm WHM / FWTM 15.0° / 28.0° Efficiency 63% Paek intensity 6.1 cd/m LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C Required components: F15255_HEKLA-SOCKET-C	Light colour	White		43 <sup>1</sup>
F15255_HEKLA-SOCKET-C		ents:		
XICATO     LED   XOB 9.8 mm     WHM / FWTM   15.0° / 28.0°     Efficiency   63 %     Peak intensity   6.1 cd/m     LEDs/each optic   1     Light colour   White     Required components:   F15255_HEKLA-SOCKET-C     FD   XTM - 9mm LES     WHM / FWTM   15.0° / 28.0°     Efficiency   60 %     Peak intensity   5.8 cd/m     LEDs/each optic   1     Light colour   White     Required components:   ED     ED   XTM - 9mm LES     WHM / FWTM   15.0° / 28.0°     Efficiency   60 %     Peak intensity   5.8 cd/m     LEDs/each optic   1     Light colour   White     Required components:   ED				
LED XOB 9.8 mm TWHM / FWTM 15.0° / 28.0° Efficiency 63 % Peak intensity 6.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C ED XTM - 9mm LES TWHM / FWTM 15.0° / 28.0° Efficiency 60 % Peak intensity 5.8 cd/lm LEDs/each optic 1 Light colour White Required components:				
LED XOB 9.8 mm TWHM / FWTM 15.0° / 28.0° Efficiency 63 % Peak intensity 6.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C ED XTM - 9mm LES TWHM / FWTM 15.0° / 28.0° Efficiency 60 % Peak intensity 5.8 cd/lm LEDs/each optic 1 Light colour White Required components:				30-
LED XOB 9.8 mm TWHM / FWTM 15.0° / 28.0° Efficiency 63 % Peak intensity 6.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C ED XTM - 9mm LES TWHM / FWTM 15.0° / 28.0° Efficiency 60 % Peak intensity 5.8 cd/lm LEDs/each optic 1 Light colour White Required components:	XICATO	<u>ר</u>		
EWHM / FWTM 15.0° / 28.0° Efficiency 63 % Peak intensity 6.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C ED XTM - 9mm LES FWHM / FWTM 15.0° / 28.0° Efficiency 60 % Peak intensity 5.8 cd/lm LEDs/each optic 1 Light colour White Required components:				
Efficiency 63 % Peak intensity 6.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C		VODAA		
Peak intensity 6.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C				77
LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C	LED FWHM / FWTM	15.0° / 28.0°		77
Light colour White Required components: F15255_HEKLA-SOCKET-C	FWHM / FWTM Efficiency	15.0° / 28.0° 63 %		775
Required components: F15255_HEKLA-SOCKET-C SICCATO LED XTM - 9mm LES FWHM / FWTM 15.0° / 28.0° Efficiency 60 % Peak intensity 5.8 cd/lm LEDs/each optic 1 Light colour White Required components:	FWHM / FWTM Efficiency Peak intensity	15.0° / 28.0° 63 % 6.1 cd/lm		75
F15255_HEKLA-SOCKET-C	FWHM / FWTM Efficiency Peak intensity LEDs/each optic	15.0° / 28.0° 63 % 6.1 cd/lm 1		
ED   XTM - 9mm LES     FWHM / FWTM   15.0° / 28.0°     Efficiency   60 %     Peak intensity   5.8 cd/m     LEDs/each optic   1     Light colour   White     Required components:   Image: Component State	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	15.0° / 28.0° 63 % 6.1 cd/lm 1 White		73 1300 93* 93* 93* 93* 93* 93* 93* 93* 94* 94* 94* 94* 94* 94* 94* 94* 94* 94
LED XTM - 9mm LES   FWHM / FWTM 15.0° / 28.0°   Efficiency 60 %   Peak intensity 5.8 cd/lm   LEDs/each optic 1   Light colour White   Required components: ************************************	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	15.0° / 28.0° 63 % 6.1 cd/lm 1 White ents:		77 61 61 62 62 62 62 62 62 62 62 62 62 62 62 62
LED XTM - 9mm LES   FWHM / FWTM 15.0° / 28.0°   Efficiency 60 %   Peak intensity 5.8 cd/lm   LEDs/each optic 1   Light colour White   Required components: ************************************	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	15.0° / 28.0° 63 % 6.1 cd/lm 1 White ents:		77 - 70 94 - 200 97 - 200 95 - 4 95 - 4
LED XTM - 9mm LES   FWHM / FWTM 15.0° / 28.0°   Efficiency 60 %   Peak intensity 5.8 cd/lm   LEDs/each optic 1   Light colour White   Required components: ************************************	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compose	15.0° / 28.0° 63 % 6.1 cd/lm 1 White ents:		77
FWHM / FWTM   15.0° / 28.0°     Efficiency   60 %     Peak intensity   5.8 cd/lm     LEDs/each optic   1     Light colour   White     Required components:   ************************************	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	15.0° / 28.0° 63 % 6.1 cd/lm 1 White ents: -SOCKET-C		75' 60' 75' 700 700 700 700 700 700 700 70
FWHM / FWTM   15.0° / 28.0°     Efficiency   60 %     Peak intensity   5.8 cd/lm     LEDs/each optic   1     Light colour   White     Required components:   ************************************	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	15.0° / 28.0° 63 % 6.1 cd/lm 1 White ents: -SOCKET-C		
Peak intensity 5.8 cd/lm LEDs/each optic 1 Light colour White Required components:	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	15.0° / 28.0° 63 % 6.1 cd/lm 1 White ents: SOCKET-C		
LEDs/each optic 1 Light colour White Required components:	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	15.0° / 28.0° 63 % 6.1 cd/lm 1 White ents: SOCKET-C XTM - 9mm LES 15.0° / 28.0°		
Light colour White Required components:	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA <b>XICATC</b> LED FWHM / FWTM Efficiency	15.0° / 28.0° 63 % 6.1 cd/lm 1 White ents: X-SOCKET-C XTM - 9mm LES 15.0° / 28.0° 60 %		
Required components:	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA STREATC LED FWHM / FWTM Efficiency Peak intensity	15.0° / 28.0° 63 % 6.1 cd/lm 1 White ents: X-SOCKET-C XTM - 9mm LES 15.0° / 28.0° 60 %		
	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA <b>XICATC</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	15.0° / 28.0° 63 % 6.1 cd/lm 1 White ents: X-SOCKET-C XTM - 9mm LES 15.0° / 28.0° 60 % 5.8 cd/lm 1		
C15743_XTM-ADAPTER-50-B	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA <b>XICATC</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	15.0° / 28.0° 63 % 6.1 cd/lm 1 White ents: X-SOCKET-C XTM - 9mm LES 15.0° / 28.0° 60 % 5.8 cd/lm 1 White		
34	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA <b>XICATC</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	15.0° / 28.0° 63 % 6.1 cd/lm 1 White ents: A-SOCKET-C XTM - 9mm LES 15.0° / 28.0° 60 % 5.8 cd/lm 1 White ents:		
34	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA <b>XICATC</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	15.0° / 28.0° 63 % 6.1 cd/lm 1 White ents: A-SOCKET-C XTM - 9mm LES 15.0° / 28.0° 60 % 5.8 cd/lm 1 White ents:		
	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA <b>XICATC</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	15.0° / 28.0° 63 % 6.1 cd/lm 1 White ents: A-SOCKET-C XTM - 9mm LES 15.0° / 28.0° 60 % 5.8 cd/lm 1 White ents:		



### PHOTOMETRIC DATA (SIMULATED):

bridgelux.		50* 50*
LED	V10 Gen7	
FWHM / FWTM	16.0° / 30.0°	75
Efficiency	60 %	1000
Peak intensity	5.7 cd/lm	60°
LEDs/each optic	1	3230
Light colour	White	$\wedge$ / / $\wedge$ $\wedge$ /
Required components:		
F15255_HEKLA-SO		4000
		30° 35° 36°
bridgelux.		90* A 90*
LED	V6 Gen6	
FWHM / FWTM	10.0° / 21.0°	23.
Efficiency	66 %	
Peak intensity	13 cd/lm	
LEDs/each optic	1	6530
Light colour	White	45*
Required components:		
F15253_HEKLA-SO		
		15° 0° 15°
bridgelux.		90* A 90*
bridgelux. LED	V8 Gen7	99°
LED	V8 Gen7 14.0° / 26.0°	97
LED FWHM / FWTM	14.0° / 26.0°	31 32 30 30 30 30 30 30 30
LED FWHM / FWTM Efficiency	14.0° / 26.0° 63 %	81
LED FWHM / FWTM Efficiency Peak intensity	14.0° / 26.0° 63 % 7.8 cd/lm	60° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	14.0° / 26.0° 63 % 7.8 cd/lm 1	a     600     600     600       300     300     300     300       300     300     300     300
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 26.0° 63 % 7.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	14.0° / 26.0° 63 % 7.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 26.0° 63 % 7.8 cd/lm 1 White	an an an
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	14.0° / 26.0° 63 % 7.8 cd/lm 1 White	an an an
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	14.0° / 26.0° 63 % 7.8 cd/lm 1 White	an an an
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SO	14.0° / 26.0° 63 % 7.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SO	14.0° / 26.0° 63 % 7.8 cd/lm 1 White CKET-A	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SO	14.0° / 26.0° 63 % 7.8 cd/lm 1 White CKET-A	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SO bridgeluk LED FWHM / FWTM	14.0° / 26.0° 63 % 7.8 cd/lm 1 White CKET-A	54. 55. 56. 57. 57. 57. 57. 57. 57. 57. 57. 57. 57
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SO bridgeLUX. LED FWHM / FWTM Efficiency	14.0° / 26.0° 63 % 7.8 cd/lm 1 White CKET-A VERO10 15.0° / 27.0° 61 %	54. 55. 56. 57. 57. 57. 57. 57. 57. 57. 57. 57. 57
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SO bridgetux. LED FWHM / FWTM Efficiency Peak intensity	14.0° / 26.0° 63 % 7.8 cd/lm 1 White CKET-A VERO10 15.0° / 27.0° 61 % 6.7 cd/lm	54. 55. 56. 57. 57. 57. 57. 57. 57. 57. 57. 57. 57
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SO bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	14.0° / 26.0° 63 % 7.8 cd/lm 1 White CKET-A VERO10 15.0° / 27.0° 61 % 6.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SO bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 26.0° 63 % 7.8 cd/lm 1 White CKET-A VERO10 15.0° / 27.0° 61 % 6.7 cd/lm 1 White	220 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SO bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	14.0° / 26.0° 63 % 7.8 cd/lm 1 White CKET-A VERO10 15.0° / 27.0° 61 % 6.7 cd/lm 1 White	51 51 51 51 51 51 51 51 51 51
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SO bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 26.0° 63 % 7.8 cd/lm 1 White CKET-A VERO10 15.0° / 27.0° 61 % 6.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SO bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	14.0° / 26.0° 63 % 7.8 cd/lm 1 White CKET-A VERO10 15.0° / 27.0° 61 % 6.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SO bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	14.0° / 26.0° 63 % 7.8 cd/lm 1 White CKET-A VERO10 15.0° / 27.0° 61 % 6.7 cd/lm 1 White	



### PHOTOMETRIC DATA (SIMULATED):

	DS	90° A 90°
LED FWHM / FWTM	LUXEON CoB 1202/1203 14.0° / 28.0°	75
Efficiency	61 %	50° 50°
Peak intensity	6.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components: F15858_HEKLA-SC		400
	DS	20 0 10 90° 0 000
LED	LUXEON CoB 1204HD	
FWHM / FWTM	16.0° / 28.0°	75
Efficiency	61 %	
Peak intensity	6 cd/lm	
LEDs/each optic	1	220
Light colour	White	45*
Required components:		
F15858_HEKLA-SC		4500
		30°
		15° 6400 15° 0° 15°
	US	125 <sup>9</sup> 660 135 <sup>4</sup>
	US CxM-6 (13.5x13.5)	90"
		20 <sup>1</sup> 20 <sup>1</sup> 20 <sup>2</sup> 30 <sup>2</sup> 30 <sup>2</sup>
LED	CxM-6 (13.5x13.5)	230 <sup>1</sup> 23 <sup>1</sup> 33 <sup>1</sup> 9 <sup>1</sup> 7 <sup>1</sup> 0 <sup>1</sup> 0 <sup>1</sup> 0 <sup>1</sup> 0 <sup>1</sup> 0 <sup>1</sup> 0 <sup>1</sup> 0 <sup>1</sup> 0
LED FWHM / FWTM	CxM-6 (13.5x13.5) 12.0° / 23.0°	20 <sup>4</sup>
LED FWHM / FWTM Efficiency	CxM-6 (13.5x13.5) 12.0° / 23.0° 65 %	25 <sup>0</sup> 25 <sup>0</sup> 55 <sup>0</sup> 55 <sup>0</sup>
LED FWHM / FWTM Efficiency Peak intensity	CxM-6 (13.5x13.5) 12.0° / 23.0° 65 % 10.6 cd/lm	200 <sup>1</sup> 201 201 201 201 201 201 201 201
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CxM-6 (13.5x13.5) 12.0° / 23.0° 65 % 10.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SC	CxM-6 (13.5x13.5) 12.0° / 23.0° 65 % 10.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SC	CxM-6 (13.5x13.5) 12.0° / 23.0° 65 % 10.6 cd/lm 1 White PCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SC	CxM-6 (13.5x13.5) 12.0° / 23.0° 65 % 10.6 cd/lm 1 White VCKET-C COB S-Type (LES 6)	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SC	CxM-6 (13.5x13.5) 12.0° / 23.0° 65 % 10.6 cd/lm 1 White CCKET-C COB S-Type (LES 6) 13.0° / 25.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SC	CxM-6 (13.5x13.5) 12.0° / 23.0° 65 % 10.6 cd/lm 1 White CCKET-C COB S-Type (LES 6) 13.0° / 25.0° 63 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SC	CxM-6 (13.5x13.5) 12.0° / 23.0° 65 % 10.6 cd/lm 1 White CCKET-C COB S-Type (LES 6) 13.0° / 25.0° 63 % 8.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SC	CxM-6 (13.5x13.5) 12.0° / 23.0° 65 % 10.6 cd/lm 1 White CCKET-C COB S-Type (LES 6) 13.0° / 25.0° 63 % 8.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SC	CxM-6 (13.5x13.5) 12.0° / 23.0° 65 % 10.6 cd/lm 1 White CCKET-C COB S-Type (LES 6) 13.0° / 25.0° 63 % 8.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SC	CxM-6 (13.5x13.5) 12.0° / 23.0° 65 % 10.6 cd/lm 1 White CCKET-C COB S-Type (LES 6) 13.0° / 25.0° 63 % 8.7 cd/lm 1 White	

Last update: 22/11/2021Subject to change without prior noticePublished: 02/01/2019LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.13/16



### PHOTOMETRIC DATA (SIMULATED):

OSRAM Opto Semiconductors		90* 90*
LED	Soleriq S9	
FWHM / FWTM	15.0° / 28.0°	75
Efficiency	59 %	1000
Peak intensity	5.8 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	' White	97
Required components:	White	
F15255_HEKLA-SC	CKFT-C	
		30* 30*
		30° 15° e880 25°
PHILIPS		90*
LED	Fortimo SLM L06 CoB	75*
FWHM / FWTM	10.0° / 22.0°	
Efficiency	53 %	est 2000 est
Peak intensity	9.6 cd/lm	$\left  \left  \left$
LEDs/each optic	1	
Light colour	White	95° 43°
Required components:		
F15858_HEKLA-SC	CKET-H	
		30° - 30°
CARCIII		15° 0° 15°
SVWSA		90*
LED	LC003D / LC006D / LC009D / LC013D	75
FWHM / FWTM	16.0° / 30.0°	
Efficiency	58 %	50° 50°
Peak intensity	5.2 cd/lm	
LEDs/each optic	1	$  / \times /   \times \times$
Light colour	White	95°
Required components:		
F17435_HEKLA-G2	·C	
		4830
		30° 30° 30°
SAMSU		90° 90°
	LC003D / LC006D / LC009D / LC013D	73.
FWHM / FWTM	16.0° / 30.0°	
Efficiency	58 %	50° / / 50°
Peak intensity	5.3 cd/lm	$\perp \times / / \mid \wedge \times$
LEDs/each optic	1 White	67° 65°
Light colour	White	
Required components:	_	
F17435_HEKLA-G2	·C C	
_		
		30- 10- 10- 10- 10-

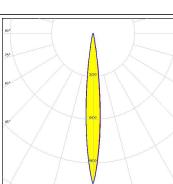


### **PHOTOMETRIC DATA (SIMULATED):**

# **SAMSUNG**

LED	LC010C
FWHM / FWTM	12.0° / 22.0°
Efficiency	64 %
Peak intensity	11.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F17435 HEKLA-G2-0	C





### SAMSUNG

LED	LH231B	
FWHM / FWTM	15.0° / 28.0°	
Efficiency	58 %	
Peak intensity	6 cd/lm	
LEDs/each optic	7	
Light colour	White	
Required components:		
F15255_HEKLA-SOCKET-C		



#### **GENERAL INFORMATION:**

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

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

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