

CARMEN-RS-C-WHT

~10° spot beam. Assembly with holder C compatible with LEDiL HEKLA. White version.

SPECIFICATION:

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



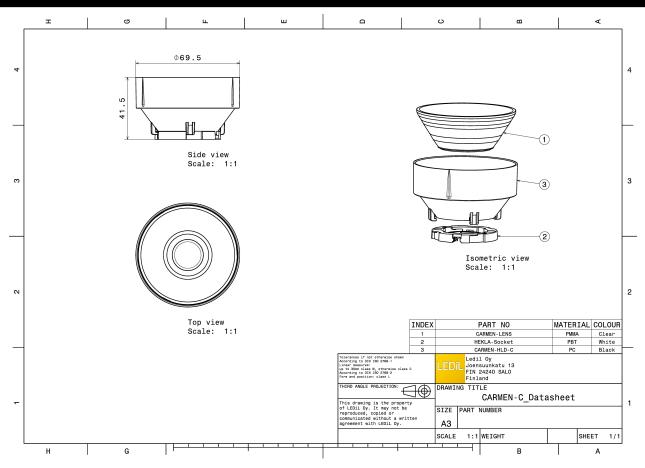
MATERIALS:

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

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CP16940_CARMEN-RS-C-WHT	Single lens	150	150	15	8.8
» Box size: 480 x 280 x 300 mm					

PRODUCT DATASHEET CP16940_CARMEN-RS-C-WHT



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 C16142_HEKLA Bender Wirth: 50	A-SOCKET-K	
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL4 Bender Wirth: 4	A-SOCKET-K	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU700/701/702/703 8.0° / 15.0° 86 % 20.4 cd/lm 1 White ents:	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	CLU710/711 12.0° / 20.0° 83 % 10.3 cd/lm 1 White ents:	



_		
CITIZE	Ν	90°
LED	CLU7B2	
FWHM / FWTM	6.0° / 11.0°	73
Efficiency	87 %	
Peak intensity	38.6 cd/lm	
LEDs/each optic	1	
Light colour	White	er es
Required componer	nts:	
F15255_HEKLA-		
		304 30
		90 ⁴
LED	CXA/B 15xx	2
FWHM / FWTM	12.0° / 20.0°	
Efficiency	85 %	er (200)
Peak intensity	10.8 cd/lm	
LEDs/each optic	1	
Light colour	White	er 600 æ
Required componen		
F15256_HEKLA-	-SOCKET-D	
		30° (* 15° (* 15°
UMIL	EDS	90° 90'
		90 ⁻¹ 90
	EDS LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0°	90 ⁴ 90 71 ¹ 72
LED	LUXEON CX Plus CoB L08 (Gen2)	
LED FWHM / FWTM	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0°	
LED FWHM / FWTM Efficiency	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0° 84 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0° 84 % 4.5 cd/lm	54° 55 73° 75 64° 1000 68 94° 68
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0° 84 % 4.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0° 84 % 4.5 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0° 84 % 4.5 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0° 84 % 4.5 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Bender Wirth: 63	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0° 84 % 4.5 cd/lm 1 White nts: 17a Hekla	\prec / \lor \land \land
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Bender Wirth: 63	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0° 84 % 4.5 cd/lm 1 White nts: 37a Hekla	30 ¹ 20 ¹ 20 ¹ X
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Bender Wirth: 63	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0° 84 % 4.5 cd/lm 1 White nts: 157a Hekla EDS LUXEON CX Plus CoB - HD S01H4	30 ¹ 20 ¹ 20 ¹ X
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Bender Wirth: 63	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0° 84 % 4.5 cd/lm 1 White nts: 17a Hekla EDS LUXEON CX Plus CoB - HD S01H4 8.0° / 14.0°	30 ¹ 20 ¹ 20 ¹ X
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Bender Wirth: 63	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0° 84 % 4.5 cd/lm 1 White nts: 17a Hekla EDS LUXEON CX Plus CoB - HD S01H4 8.0° / 14.0° 87 %	34 20 20 3
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Bender Wirth: 63	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0° 84 % 4.5 cd/lm 1 White nts: 37a Hekla EDS LUXEON CX Plus CoB - HD S01H4 8.0° / 14.0° 87 % 27.2 cd/lm	30 ¹ 20 ¹ 20 ¹ X
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Bender Wirth: 63	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0° 84 % 4.5 cd/lm 1 White nts: 37a Hekla EDS LUXEON CX Plus CoB - HD S01H4 8.0° / 14.0° 87 % 27.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Bender Wirth: 63	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0° 84 % 4.5 cd/lm 1 White nts: 37a Hekla EDS LUXEON CX Plus CoB - HD S01H4 8.0° / 14.0° 87 % 27.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Bender Wirth: 63 Ender Wirth: 63 CUMIL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0° 84 % 4.5 cd/lm 1 White nts: 37a Hekla EDS LUXEON CX Plus CoB - HD S01H4 8.0° / 14.0° 87 % 27.2 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Bender Wirth: 63	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0° 84 % 4.5 cd/lm 1 White nts: 37a Hekla EDS LUXEON CX Plus CoB - HD S01H4 8.0° / 14.0° 87 % 27.2 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Bender Wirth: 63	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0° 84 % 4.5 cd/lm 1 White nts: 37a Hekla EDS LUXEON CX Plus CoB - HD S01H4 8.0° / 14.0° 87 % 27.2 cd/lm 1 White nts:	



🥙 LUMIL	.EDS	90* 90
LED	LUXEON CX Plus CoB - HD S04H9	
FWHM / FWTM	13.0° / 20.0°	70
Efficiency	86 %	300
Peak intensity	10.5 cd/lm	
LEDs/each optic	1	
Light colour	White	6130
Required compone	ents:	
Bender Wirth: 6	34c Hekla	
		000
		30° 30
	EDC	15° 0° 15°
		90* 9c
LED	LUXEON CX Plus CoB L04 / L05 (Gen2)	75
FWHM / FWTM	15.0° / 26.0°	1500
Efficiency	85 %	
Peak intensity	6.7 cd/lm	
LEDs/each optic	1	
Light colour	White	da, da
Required compone		
Bender Wirth: 6	37a Hekla	X / X
		6530
		30° 315° 0° 15° 30
	.EDS	80*
LED	LUXEON CX Plus CoB M02 / M03 (Gen2)	
FWHM / FWTM	11.0° / 19.0°	75
Efficiency	86 %	
Peak intensity	13.1 cd/lm	
LEDs/each optic	1	630
Light colour	White	
Required compone	ents:	900
Bender Wirth: 6	41a Hekla	
		30* 32
	EDS	13° 0° 13°
		90*
LED	LUXEON CX Plus CoB S01 (Gen2)	75
FWHM / FWTM	8.0° / 13.0°	
Efficiency	87 %	
Peak intensity	27.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
Bender Wirth: 6	34C HEKIA	
		the the the test the test the test test
		30 ⁶ 15 ⁹ 0 ⁶ 15 ⁹ 3



Constant and the second		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	CxM-11 (19x19) 16.0° / 27.0° 84 % 5.5 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CXM-3 6.0° / 11.0° 88 % 36.9 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CXM-4 7.0° / 13.0° 86 % 27.1 cd/lm 1 White ents:	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15848_HEKLA	LC020C 11.0° / 19.0° 84 % 13 cd/lm 1 White ents:	



LED FWHM / FWTM	XOB 6 mm	
	0.00 / 45.00	
	9.0° / 15.0°	
Efficiency	83 %	605 605
Peak intensity	20.1 cd/lm	
LEDs/each optic	1	
Light colour	White	a5* 12800 a3*
Required componer	nts:	
F15255_HEKLA-	SOCKET-C	
		30° 30° 30°
XICATC		90°
LED	XOB 9.8 mm	
FWHM / FWTM	12.0° / 21.0°	
Efficiency	85 %	50° 50° 60°
Peak intensity	10.3 cd/lm	
LEDs/each optic	1	
Light colour	White	az* 6430 az*
Required componer	its:	
F15255_HEKLA-	SOCKET-C	
		30° 30° 30°



OPTICAL RESULTS (SIMULATED):

bridgelux		90*
LED	V10 Gen7	
FWHM / FWTM	14.0° / 24.0°	75°
Efficiency	86 %	
Peak intensity	9 cd/lm	60°
LEDs/each optic	1	
Light colour	White	47*
Required components:		600
F15255_HEKLA-SO	CKET-C	
		30°
		9600 15° 0° 15°
bridgelux.		90°
LED	V4 HD Gen 7	
FWHM / FWTM	8.0° / 14.0°	75*
Efficiency	88 %	
Peak intensity	33.5 cd/lm	
LEDs/each optic	1	
Light colour	White	45* est
Required components:		
F15253_HEKLA-SO	CKET-A	
		30* 30*
		123 04 125
bridgelux.		90°
bridgelux. LED	V6 HD Gen 7	90°
	V6 HD Gen 7 10.0° / 18.0°	39° 99° 99° 90° 90° 90° 90° 90° 9
LED		80°
LED FWHM / FWTM	10.0° / 18.0°	
LED FWHM / FWTM Efficiency	10.0° / 18.0° 87 %	
LED FWHM / FWTM Efficiency Peak intensity	10.0° / 18.0° 87 % 20.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	10.0° / 18.0° 87 % 20.6 cd/lm 1	0. 1000 6. 30. 900 90, 20. 20, 20, 30. 30, 30,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 18.0° 87 % 20.6 cd/lm 1 White	01 1000 01 03 1000 02 30 1000 02
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	10.0° / 18.0° 87 % 20.6 cd/lm 1 White	27. 24. 26. 26. 26. 26. 26. 26. 26. 26. 26. 26. 26. 26. 27. 26. 28. 27. 29. 26. 29. 27. 29.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	10.0° / 18.0° 87 % 20.6 cd/lm 1 White	27 C C C C C C C C C C C C C
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SO	10.0° / 18.0° 87 % 20.6 cd/lm 1 White	20- 20- 20- 20- 20- 20- 20- 20-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SO	10.0° / 18.0° 87 % 20.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SO	10.0° / 18.0° 87 % 20.6 cd/lm 1 White CKET-C	30* 30* 30* 30* 30* 30* 30* 30* 30* 30* 30* 30*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOT	10.0° / 18.0° 87 % 20.6 cd/lm 1 White CKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOF CITTIZEN LED FWHM / FWTM	10.0° / 18.0° 87 % 20.6 cd/lm 1 White CKET-C	32 32 34 32 35 32 60 60 60 60 60 60 60 60 1300 60 90 32
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOU CITTIZEN LED FWHM / FWTM Efficiency	10.0° / 18.0° 87 % 20.6 cd/lm 1 White CKET-C CLL02x/CLU02x (LES10) 14.0° / 25.0°	00+ 200 0+ 32+ 32+ 32+ <
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SO CITTIZEN LED FWHM / FWTM Efficiency Peak intensity	10.0° / 18.0° 87 % 20.6 cd/lm 1 White CKET-C CLL02x/CLU02x (LES10) 14.0° / 25.0° 90 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOU ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	10.0° / 18.0° 87 % 20.6 cd/lm 1 White CKET-C CLL02x/CLU02x (LES10) 14.0° / 25.0° 90 % 10.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOU ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 18.0° 87 % 20.6 cd/lm 1 White CKET-C CLL02x/CLU02x (LES10) 14.0° / 25.0° 90 % 10.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SO ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	10.0° / 18.0° 87 % 20.6 cd/lm 1 White CKET-C CLL02x/CLU02x (LES10) 14.0° / 25.0° 90 % 10.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOU ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 18.0° 87 % 20.6 cd/lm 1 White CKET-C CLL02x/CLU02x (LES10) 14.0° / 25.0° 90 % 10.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOU ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	10.0° / 18.0° 87 % 20.6 cd/lm 1 White CKET-C CLL02x/CLU02x (LES10) 14.0° / 25.0° 90 % 10.4 cd/lm 1 White	



OPTICAL RESULTS (SIMULATED):

		50° 50°
LED	CMU15xx	
FWHM / FWTM	19.0° / 36.0°	73. 000 72
Efficiency	82 %	
Peak intensity	4.1 cd/lm	60 × 60
LEDs/each optic	1	
Light colour	White	45* 433
Required components:		
F17438_HEKLA-G2-	1	200
		X / X
		304
		15° 0° 15°
SEOUL		906
SEOUL SEMICONDUCTOR	MJT COB LES 6	
FWHM / FWTM	9.0° / 17.0°	75
Efficiency	87 %	
Peak intensity	22.4 cd/lm	60×
LEDs/each optic	1	
Light colour	White	93 ⁴ 1200 43
Required components:		
F15255_HEKLA-SO	CKET-C	
		30
		15) 0° 15'
		90* 90* 90*
SEOUL SEMICONDUCTOR	MJT COB LES 9.8	99° 99'
seoul semiconductor	MJT COB LES 9.8 15.0° / 24.0°	39* 39* 39* 39*
seoul semiconductor LED FWHM / FWTM	15.0° / 24.0°	32. 35. 0. 12. 0. 12. 0. 12.
seoul semiconductor LED FWHM / FWTM Efficiency	15.0° / 24.0° 85 %	99 ⁴ 73 ⁴ 99 ⁴ 73 ⁶ 73 ⁶ 73 ⁶ 73 ⁶ 73 ⁶ 73 ⁶ 73 ⁶
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	15.0° / 24.0°	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	15.0° / 24.0° 85 % 8.5 cd/lm	50 50 60 50 50 60 60
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	15.0° / 24.0° 85 % 8.5 cd/lm 1	50 50 60 50 50 60 60
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	15.0° / 24.0° 85 % 8.5 cd/lm 1 White	50 50 60 50 50 60 60
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	15.0° / 24.0° 85 % 8.5 cd/lm 1 White	50 50 60 50 50 60 60
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	15.0° / 24.0° 85 % 8.5 cd/lm 1 White	50 50 60 50 70 70 70 70 70
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SO	15.0° / 24.0° 85 % 8.5 cd/lm 1 White CKET-C	50 50 60 50 50 60 60
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SO	15.0° / 24.0° 85 % 8.5 cd/lm 1 White CKET-C	50 50 60 50 50 60 60
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOU	15.0° / 24.0° 85 % 8.5 cd/lm 1 White CKET-C	50 50 60 50 50 60 60
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOU	15.0° / 24.0° 85 % 8.5 cd/lm 1 White CKET-C	50 50 60 50 70 70 70 70 70
seoul seniconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOU TRIDONIC LED FWHM / FWTM	15.0° / 24.0° 85 % 8.5 cd/lm 1 White CKET-C	50 50 60 50 50 60 60
seoul seniconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOU TRIDONIC LED FWHM / FWTM Efficiency	15.0° / 24.0° 85 % 8.5 cd/lm 1 White CKET-C SLE G7 LES09 14.0° / 24.0° 87 %	50 50 60 50 50 60 60
seoul seniconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOU TREDONIC LED FWHM / FWTM Efficiency Peak intensity	15.0° / 24.0° 85 % 8.5 cd/lm 1 White CKET-C SLE G7 LES09 14.0° / 24.0°	50 50 60 50 50 60 60
seoul seniconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOU TREDONIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	15.0° / 24.0° 85 % 8.5 cd/lm 1 White CKET-C SLE G7 LES09 14.0° / 24.0° 87 % 9.8 cd/lm	50 50 60 50 50 60 60
seoul seniconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOU TRIDONIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	15.0° / 24.0° 85 % 8.5 cd/lm 1 White CKET-C SLE G7 LES09 14.0° / 24.0° 87 % 9.8 cd/lm 1	50 50 60 50 70 70 70 70 70
seoul seniconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SO TRIDONIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	15.0° / 24.0° 85 % 8.5 cd/lm 1 White CKET-C SLE G7 LES09 14.0° / 24.0° 87 % 9.8 cd/lm 1 White	
seoul seniconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOU TRIDONIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	15.0° / 24.0° 85 % 8.5 cd/lm 1 White CKET-C SLE G7 LES09 14.0° / 24.0° 87 % 9.8 cd/lm 1 White	50° 50°
seoul seniconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SO TRIDONIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	15.0° / 24.0° 85 % 8.5 cd/lm 1 White CKET-C SLE G7 LES09 14.0° / 24.0° 87 % 9.8 cd/lm 1 White	57. 69. 500



GENERAL INFORMATION:

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

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

MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

LEDiL Oy

Joensuunkatu 13 FI-24240 SALO Finland

LEDiL Inc.

228 West Page Street Suite D Sycamore IL 60178 USA

Ledil Optics Technology (Shenzhen) Co., Ltd. # 405 , Block B Casic Motor Building Shenzhen 518057 P.R.CHINA

Local sales and technical support www.ledil.com/ where_to_buy

Shipping locations

Salo, Finland Hong Kong, China

Distribution Partners www.ledil.com/

where_to_buy