

CARMEN-RS-C-WHT

~10° spot beam. Assembly with holder C compatible with HEKLA sockets and connectors. White version.

TECHNICAL SPECIFICATIONS:

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



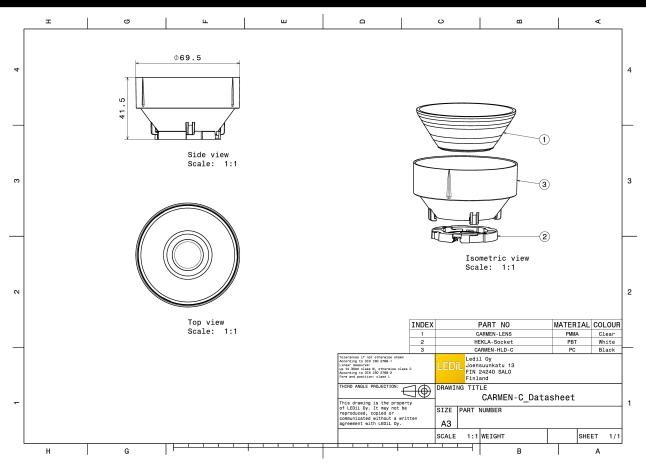
MATERIAL SPECIFICATIONS:

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>



r		
bridgelux.		
LED	Vesta TW 6mm DP	
FWHM / FWTM	9.0° / 17.0°	
Efficiency	82 %	
Peak intensity	15.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
C16142_HEKLA		
Bender Wirth: 5		
bridgelux.		84°
	Vesta TW 9mm (9W) DP	
FWHM / FWTM	12.0° / 23.0°	
Efficiency	83 % 7.9 cd/lm	60* · · · · · · · · · · · · · · · · · · ·
Peak intensity		
LEDs/each optic	1 White	
Light colour	White	
Required compone		
C16142_HEKLA		
Bender Wirth: 4	89 Typ L8	
		30° 30° 30°
CITIZE	'N	90 ⁴ 99 ⁴
		30°
LED	CLU700/701/702	75
FWHM / FWTM	8.0° / 15.0°	
Efficiency	86 %	61 ⁴ 600 60 ⁴
Peak intensity	20.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
F15255_HEKLA	-SOCKET-C	
		1 sec
		30° - 33°
CITIZE	'N	20° 20° 20° 20° 20° 20° 20° 20° 20° 20°
	CLU710/711	75
FWHM / FWTM	12.0° / 20.0° 83 %	
Efficiency		63 ⁴ 3333 64 ⁴
Peak intensity	10.3 cd/lm	
LEDs/each optic	1 White	
Light colour	White	2 (42)
Required compone		
F15859_HEKLA	-500KE1-1	
		Rep.
		30° 30° 15°



CITIZE	'N	20 ⁴ 20 ⁴
	CLU7B2	
FWHM / FWTM	6.0° / 11.0°	72 73
Efficiency	87 %	
Peak intensity	38.6 cd/lm	60 ⁴ 2 ²⁰ 0
LEDs/each optic	1	
Light colour	White	gg ⁴ (g
Required compone		
F15255_HEKLA		
		34* 35 ⁰ 0* 15*
	D	»·
LED	CXA/B 15xx	
FWHM / FWTM	12.0° / 20.0°	
Efficiency	85 %	6,1 X X X X X X X X X X X X X X X X X X X
Peak intensity	10.8 cd/lm	
LEDs/each optic	1	
Light colour	White	e7 ⁴ 6430
Required compone	ents:	
F15256_HEKLA	A-SOCKET-D	
		(20)
		94- 195 70 195
🤭 LUMIL	.EDS	90° 90'
		90* 90'
	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0°	39*
LED FWHM / FWTM	LUXEON CX Plus CoB L08 (Gen2)	30 ⁺ 90
LED	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0°	90 ⁴ 90 75 ⁴ 75 60 ⁴ 500
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0° 84 %	90 ⁴ 90 70 60 ⁴ 1000 60
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	9 ¹ 97 97 97 97 90 90 90 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0° 84 % 4.5 cd/lm 1 White	9 ⁴ 99 70 60 70 70 70 70 70 70 70 70 70 70 70 70 70
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 ents:	
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 ents:	
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 ents:	
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 ents: 37a Hekla	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0° 84 % 4.5 cd/lm 1 White ents: 37a Hekla	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0° 84 % 4.5 cd/lm 1 White ents: 37a Hekla	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6: WIM / FWTM	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0° 84 % 4.5 cd/lm 1 White ents: 37a Hekla LUXEON CX Plus CoB - HD S01H4	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6: WIM / FWTM Efficiency	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0° 84 % 4.5 cd/lm 1 White ents: 37a Hekla LUXEON CX Plus CoB - HD S01H4 8.0° / 14.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6: WITH: 6: Efficiency Peak intensity	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0° 84 % 4.5 cd/lm 1 White ents: 37a Hekla LUXEON CX Plus CoB - HD S01H4 8.0° / 14.0° 87 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 WITH: 63 Ender Wirth: 63 UNIL ED 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 ents: 37a Hekla LUXEON CX Plus CoB - HD S01H4 8.0° / 14.0° 87 % 27.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0° 84 % 4.5 cd/lm 1 White ents: 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 compone Bender Wirth: 6: WIM / WITH 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 ents: 37a Hekla LUXEON CX Plus CoB - HD S01H4 8.0° / 14.0° 87 % 27.2 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6:	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0° 84 % 4.5 cd/lm 1 White ents: 37a Hekla LUXEON CX Plus CoB - HD S01H4 8.0° / 14.0° 87 % 27.2 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6:	LUXEON CX Plus CoB L08 (Gen2) 18.0° / 31.0° 84 % 4.5 cd/lm 1 White ents: 37a Hekla LUXEON CX Plus CoB - HD S01H4 8.0° / 14.0° 87 % 27.2 cd/lm 1 White ents:	



🖉 LUMIL	EDS	90* A
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63		
🖉 LUMIL	EDS	894
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB L04 / L05 (Gen2) 15.0° / 26.0° 85 % 6.7 cd/lm 1 White ints:	2, 12, 6, 12, 2 2, 12, 12, 12, 12, 12, 12, 12, 12, 12, 1
	EDS	99 ¹
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 64	LUXEON CX Plus CoB M02 / M03 (Gen2) 11.0° / 19.0° 86 % 13.1 cd/lm 1 White ints: 41a Hekla	
🥙 LUMIL	EDS	99 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63		37 67 67 60 700 700 700 700 700 700 700 7



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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:	
() LUM	INUS	50*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA		
ELUM	INUS	30*
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:	



XICATO		90* A
LED	XOB 6 mm	
FWHM / FWTM	9.0° / 15.0°	
Efficiency	83 %	er fun
Peak intensity	20.1 cd/lm	
LEDs/each optic	1	
Light colour	White	27 1200
Required compone	ents:	
F15255_HEKLA	-SOCKET-C	
		¥*
		10 ⁹ 0 ⁴ 10 ⁹
XICATO	0	50* A
LED	XOB 9.8 mm	
FWHM / FWTM	12.0° / 21.0°	
Efficiency	85 %	
	80 %	602 3000
Peak intensity	85 % 10.3 cd/lm	932
Peak intensity LEDs/each optic		
	10.3 cd/lm	97 (20) 97 (20)
LEDs/each optic	10.3 cd/lm 1 White	
LEDs/each optic Light colour	10.3 cd/lm 1 White ents:	
LEDs/each optic Light colour Required compone	10.3 cd/lm 1 White ents:	
LEDs/each optic Light colour Required compone	10.3 cd/lm 1 White ents:	



PHOTOMETRIC DATA (SIMULATED):

bridgelux.		90* 0 90*
LED	V10 Gen7	
FWHM / FWTM	14.0° / 24.0°	75°
Efficiency	86 %	
Peak intensity	9 cd/lm	60 ⁵ 3200 60°
LEDs/each optic	1	
Light colour	White	gr*
Required components:		0000
F15255_HEKLA-SO	CKET-C	
		15° 0° 15°
bridgelux.		90* 90*
LED	V4 HD	
FWHM / FWTM	8.0° / 14.0°	23.
Efficiency	88 %	
Peak intensity	33.5 cd/lm	
LEDs/each optic	1	
Light colour	White	φ ² φ
Required components:		
F15253_HEKLA-SO	CKET-A	
		30* 30*
		15° 0° 15°
bridgelux.		90° A
bridgelux. LED	V6 HD	90*
	V6 HD 10.0° / 18.0°	25. 26. 26.
LED		90°
LED FWHM / FWTM	10.0° / 18.0°	50° 50°
LED FWHM / FWTM Efficiency	10.0° / 18.0° 87 %	614 60% 255 50%
LED FWHM / FWTM Efficiency Peak intensity	10.0° / 18.0° 87 % 20.6 cd/lm	22. 23. 26. 26. 26. 26. 26. 26. 26. 26.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	10.0° / 18.0° 87 % 20.6 cd/lm 1	99° 90° 75° 80° 66° 60° 75° 1500 65°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 18.0° 87 % 20.6 cd/lm 1 White	99° 90° 73 72 99° 60° 99° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	10.0° / 18.0° 87 % 20.6 cd/lm 1 White	95° 95° 95° 1000 95° 95° 85°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	10.0° / 18.0° 87 % 20.6 cd/lm 1 White	34° 37°
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	94° 90° 94° 90° 95° 15° 0° 12° 95° 95° 95° 95° 95° 95° 95° 95
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	10.0° / 18.0° 87 % 20.6 cd/lm 1 White	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-SOG	10.0° / 18.0° 87 % 20.6 cd/lm 1 White CKET-C	25 25 26 26 26 26 26 26 26 26 26 26 26 26 26
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOU	10.0° / 18.0° 87 % 20.6 cd/lm 1 White CKET-C	000 000 000 232 25 25 236 120 00 25 00 00 26 00 00 26 00 00 26 00 00 26 00 00 26 00 00 26 00 00 26 00 00 26 00 00 26 00 00 26 00 00 26 00 00 26 00 00 26 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOO CITTIZEN LED FWHM / FWTM	10.0° / 18.0° 87 % 20.6 cd/lm 1 White CKET-C CLL02x/CLU02x (LES10) 14.0° / 25.0°	60°
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° 90 %	8% 200 6% 32 32 32 3% 12 5% 72 6% 12% 6% 6% 6% 12% 6% 6% 6% 12% 6% 6% 8% 30% 6% 5%
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOU 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 % 10.4 cd/lm	dz. 072 02 bit 200 05 dz. 120 05
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOU CITTIZEN LED 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 1	5°. 6°. 6°. 6°. 6°. 6°. 1000 6°. 1000 6°. 1000 6°. 1000 6°. 1000 6°. 1000 1000 10°.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOU CITTIZEN LED 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	20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOU CITTIZEN LED 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 CITTIZEN LED 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	30 50 50 50 50 50 50 50 50 50 5



PHOTOMETRIC DATA (SIMULATED):

SEOUL		
SEOUL SEMICONDUCTOR	MJT COB LES 6	
FWHM / FWTM	9.0° / 17.0°	
Efficiency	87 %	
Peak intensity	22.4 cd/lm	
LEDs/each optic	1	
	White	
Light colour Required component		
F15255_HEKLA-S		
F 15255_HEKLA-3	OURET-U	
SEOUL		
SEOUL SEMICONDUCTOR		90* 90*
LED	MJT COB LES 9.8	74
FWHM / FWTM	15.0° / 24.0°	
Efficiency	85 %	60 ²
Peak intensity	8.5 cd/lm	
LEDs/each optic	1	
Light colour	White	g.,
Required component	is:	
F15255_HEKLA-S	SOCKET-C	
		200 200
		229 00 229
TRIDON	IC	50 ⁴ 50 ⁴
LED	SLE G7 LES09	
FWHM / FWTM	14.0° / 24.0°	75
Efficiency	87 %	
Peak intensity	9.8 cd/lm	
LEDs/each optic	1	
Light colour	White	gr at
Required component		802
F15255_HEKLA-S		
		\times / \vee \times
		30° 30° 30° 30°



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.

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