

## CARMEN-50-M-C-WHT

~35° spot beam. Assembly with holder C compatible with LEDiL HEKLA. White version.

### **SPECIFICATION:**

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



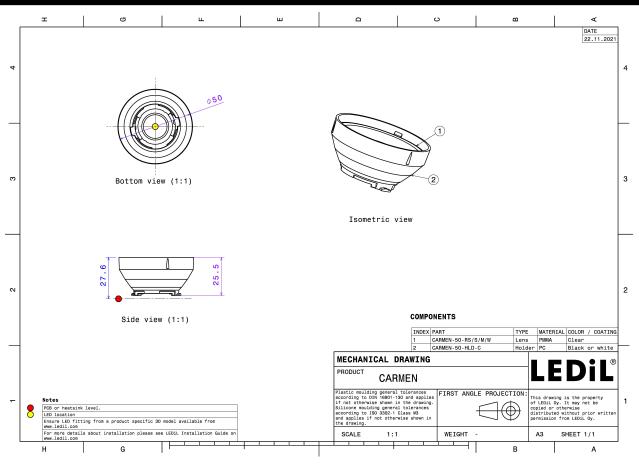
### **MATERIALS:**

Component	Туре	Material	Colour	Finish
CARMEN-50-M	Single lens	PMMA	clear	
CARMEN-50-HLD-C-WHT	Holder	PC	white	

### **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CP16634_CARMEN-50-M-C-WHT	Single lens	308	112	28	5.9
» Box size: 476 x 273 x 292 mm					





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



bridgelux.		90* 90*
LED	Vesta DTW 13mm (21W)	75'
FWHM / FWTM	57.0° / 92.0°	200
Efficiency	79 %	60° 60°
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	Tunable White	63., 62.,
Required compone		and the second sec
C16142_HEKLA		
Bender Wirth: 49	11 Typ L8	
		30° 30° 30°
bridgelux.		90*
LED	Vesta TW 6mm DP	
FWHM / FWTM	33.0° / 57.0°	$  \lambda   $
Efficiency	82 %	60°
Peak intensity	2 cd/lm	
LEDs/each optic	1	
Light colour	White	42+ 43+
Required compone	nts:	
C16142_HEKLA	-SOCKET-K	1600
Bender Wirth: 50	14 Typ L8	
		300
bridgelux.		90* 90
LED	Vesta TW 9mm (9W) DP	
FWHM / FWTM	42.0° / 70.0°	75 75
Efficiency	82 %	
Peak intensity	1.3 cd/lm	60°
LEDs/each optic	1	
Light colour	White	63° 65°
Required compone	nts:	
C16142_HEKLA		
Bender Wirth: 48	9 Typ L8	1200
		30° 15° 0° 15° 30'
CITIZE	N	90° 90°
LED	CLU700/701/702/703	
FWHM / FWTM	36.0° / 60.0°	73*
Efficiency	91 %	
Peak intensity	2.1 cd/lm	60° - 60°
LEDs/each optic	1	
Light colour	' White	gr / / / / / / / / / / / / / / / / / / /
Required compone		
F15255_HEKLA		1890
		30° 30° 30°



CITIZE	N.	30*
LED	CLU710/711	
FWHM / FWTM	42.0° / 69.0°	
Efficiency	87 %	
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
F15859_HEKLA		1200
		20
017177		207 1500 20°
CITIZE	.N	20*
LED	CLU7B2	
FWHM / FWTM	34.0° / 56.0°	
Efficiency	92 %	
Peak intensity	2.4 cd/lm	
LEDs/each optic	1	
Light colour	White	9°
Required compone	ents:	
F15255_HEKLA	A-SOCKET-C	
		34*
		100 V V 100
CREE ≑		20,4
LEDS		
LED	CXA/B 13xx	90 <sup>4</sup>
LED FWHM / FWTM	37.0° / 61.0°	25
LED FWHM / FWTM Efficiency	37.0° / 61.0° 90 %	80°
LED LED FWHM / FWTM Efficiency Peak intensity	37.0° / 61.0° 90 % 2 cd/lm	93 93 94 90
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	37.0° / 61.0° 90 % 2 cd/lm 1	9°
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	37.0° / 61.0° 90 % 2 cd/lm 1 White	
LEDs FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	37.0° / 61.0° 90 % 2 cd/lm 1 White ents:	9 <sup>+</sup> 9 <sup>+</sup> 9 <sup>+</sup> 9 <sup>+</sup>
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	37.0° / 61.0° 90 % 2 cd/lm 1 White ents:	93 <sup>3</sup> 95 <sup>4</sup> 97 97
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	37.0° / 61.0° 90 % 2 cd/lm 1 White ents:	
LEDs FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	37.0° / 61.0° 90 % 2 cd/lm 1 White ents:	
LEDs FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	37.0° / 61.0° 90 % 2 cd/lm 1 White ents: -SOCKET-J	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA	37.0° / 61.0° 90 % 2 cd/lm 1 White ents: -SOCKET-J	
LEDs FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA	37.0° / 61.0° 90 % 2 cd/lm 1 White ents: A-SOCKET-J	
LEDs FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA	37.0° / 61.0° 90 % 2 cd/lm 1 White ents: 	
LEDS FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA	37.0° / 61.0° 90 % 2 cd/lm 1 White ents: SOCKET-J .EDS LUXEON CX Plus CoB - HD S01H4 31.0° / 53.0°	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA WIM / FWTM Efficiency	37.0° / 61.0° 90 % 2 cd/lm 1 White ents: A-SOCKET-J LUXEON CX Plus CoB - HD S01H4 31.0° / 53.0° 88 %	
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA	37.0° / 61.0° 90 % 2 cd/lm 1 White ents: A-SOCKET-J LUXEON CX Plus CoB - HD S01H4 31.0° / 53.0° 88 % 2.5 cd/lm	
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA COMPARED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	37.0° / 61.0° 90 % 2 cd/lm 1 White ents: A-SOCKET-J LUXEON CX Plus CoB - HD S01H4 31.0° / 53.0° 88 % 2.5 cd/lm 1 White	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA WMM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	37.0° / 61.0° 90 % 2 cd/lm 1 White ents: A-SOCKET-J LUXEON CX Plus CoB - HD S01H4 31.0° / 53.0° 88 % 2.5 cd/lm 1 White ents:	
LEDS FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA	37.0° / 61.0° 90 % 2 cd/lm 1 White ents: A-SOCKET-J LUXEON CX Plus CoB - HD S01H4 31.0° / 53.0° 88 % 2.5 cd/lm 1 White ents:	
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA WMM / FWTM Efficiency Peak intensity LEDS/each optic Light colour Required compone	37.0° / 61.0° 90 % 2 cd/lm 1 White ents: A-SOCKET-J LUXEON CX Plus CoB - HD S01H4 31.0° / 53.0° 88 % 2.5 cd/lm 1 White ents:	



UMIL	.EDS	50° 50°
LED	LUXEON CX Plus CoB - HD S02H6	
FWHM / FWTM	31.0° / 54.0°	75'
Efficiency	88 %	
Peak intensity	2.4 cd/lm	60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	43° 43°
Required compone		1630
Bender Wirth: 6		
		30°
	EDS	90° 90°
LED	LUXEON CX Plus CoB - HD S04H9	
FWHM / FWTM	41.0° / 67.0°	75'
Efficiency	87 %	400
Peak intensity	1.5 cd/lm	60°-
LEDs/each optic	1	
Light colour	White	43° 43°
Required compone	ents:	
Bender Wirth: 6		1230
		30° 1000 30° 30°
	EDS	90* 90*
LED	LUXEON CX Plus CoB M02 / M03 (Gen2)	
FWHM / FWTM	39.0° / 64.0°	23.
Efficiency	87 %	50°
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	×
Light colour	White	57°
Required compone	ents:	1200
Bender Wirth: 6	41a Hekla	
		30° 2007 36° 36°
	EDS	50° 50°
LED	LUXEON CX Plus CoB S01 (Gen2)	
FWHM / FWTM	31.0° / 52.0°	3. 21.
Efficiency	88 %	
Peak intensity	2.5 cd/lm	
LEDs/each optic	1	
Light colour	White	gy* 62*
Required compone	ents:	
Bender Wirth: 6	34c Hekla	
		30%
1		15° 0° 15°



<b>ELUM</b>	INUS		90		90*
LED	CXM-3				
FWHM / FWTM	33.0° / 55.0°		75		No. 1
Efficiency	94 %				
Peak intensity	2.5 cd/lm		59		
LEDs/each optic	1			$\times$	
Light colour	White		45		
Required compone	ents:				
F15255_HEKLA	A-SOCKET-C				
			36	e 15° 0°	15°
() LUM	INUS		90	·	90°
LED	CXM-4				
FWHM / FWTM	34.0° / 57.0°		25	$\sim$ $\rightarrow$ $\rightarrow$	1
Efficiency	90 %		50		
Peak intensity	2.3 cd/lm				
LEDs/each optic	1			$\times$ /	
Light colour	White		5		45'
Required compone	ents:			100 - 100 - A	
F15255_HEKLA	A-SOCKET-C				
			30	e	30.
SAMS					15.
LED	LC010T (Tunable White)		75		
LED FWHM / FWTM	LC010T (Tunable White) 41.0° / 70.0°		78		
LED FWHM / FWTM Efficiency	LC010T (Tunable White) 41.0° / 70.0° 81 %			60	15
LED FWHM / FWTM Efficiency Peak intensity	LC010T (Tunable White) 41.0° / 70.0° 81 % 1.3 cd/lm		73		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC010T (Tunable White) 41.0° / 70.0° 81 % 1.3 cd/lm 1		7	40	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC010T (Tunable White) 41.0° / 70.0° 81 % 1.3 cd/lm 1 Tunable White			40	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LC010T (Tunable White) 41.0° / 70.0° 81 % 1.3 cd/lm 1 Tunable White ents:				e e
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/	LC010T (Tunable White) 41.0° / 70.0° 81 % 1.3 cd/lm 1 Tunable White ents: A-SOCKET-K			- 60 - 00 - 120	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LC010T (Tunable White) 41.0° / 70.0° 81 % 1.3 cd/lm 1 Tunable White ents: A-SOCKET-K			. 40	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 5	LC010T (Tunable White) 41.0° / 70.0° 81 % 1.3 cd/lm 1 Tunable White ents: A-SOCKET-K i01 Typ L8				25 64 65 85 85
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/	LC010T (Tunable White) 41.0° / 70.0° 81 % 1.3 cd/lm 1 Tunable White ents: A-SOCKET-K i01 Typ L8		2		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 5	LC010T (Tunable White) 41.0° / 70.0° 81 % 1.3 cd/lm 1 Tunable White ents: A-SOCKET-K i01 Typ L8		2		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 5	LC010T (Tunable White) 41.0° / 70.0° 81 % 1.3 cd/lm 1 Tunable White ents: A-SOCKET-K 601 Typ L8		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		57 57 57 57 57
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 5 <b>XICATC</b> LED FWHM / FWTM Efficiency	LC010T (Tunable White) 41.0° / 70.0° 81 % 1.3 cd/lm 1 Tunable White ents: A-SOCKET-K 601 Typ L8		9		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 5	LC010T (Tunable White) 41.0° / 70.0° 81 % 1.3 cd/lm 1 Tunable White ents: A-SOCKET-K 601 Typ L8 XOB 6 mm 37.0° / 61.0°		2		27 28 29 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 compone C16142_HEKL/ Bender Wirth: 5 <b>XICATC</b> LED FWHM / FWTM Efficiency	LC010T (Tunable White) 41.0° / 70.0° 81 % 1.3 cd/lm 1 Tunable White ents: A-SOCKET-K 501 Typ L8 XOB 6 mm 37.0° / 61.0° 89 %		2		10 10 10 10 10 10 10 10 10 10 10 10 10 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 5 <b>XICATC</b> LED FWHM / FWTM Efficiency Peak intensity	LC010T (Tunable White) 41.0° / 70.0° 81 % 1.3 cd/lm 1 Tunable White ents: A-SOCKET-K 101 Typ L8 XOB 6 mm 37.0° / 61.0° 89 % 1.9 cd/lm				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 5 <b>XICATC</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC010T (Tunable White) 41.0° / 70.0° 81 % 1.3 cd/lm 1 Tunable White ents: A-SOCKET-K 301 Typ L8 XOB 6 mm 37.0° / 61.0° 89 % 1.9 cd/lm 1 White		9		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 5 <b>XICATC</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC010T (Tunable White) 41.0° / 70.0° 81 % 1.3 cd/lm 1 Tunable White ents: A-SOCKET-K 501 Typ L8 XOB 6 mm 37.0° / 61.0° 89 % 1.9 cd/lm 1 White ents:		9		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 5 <b>XICATC</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC010T (Tunable White) 41.0° / 70.0° 81 % 1.3 cd/lm 1 Tunable White ents: A-SOCKET-K 501 Typ L8 XOB 6 mm 37.0° / 61.0° 89 % 1.9 cd/lm 1 White ents:		9	- 400 - 900	57 57 57 57 57 57 57 57 57 57 57 57 57 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 5 <b>XICATC</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC010T (Tunable White) 41.0° / 70.0° 81 % 1.3 cd/lm 1 Tunable White ents: A-SOCKET-K 501 Typ L8 XOB 6 mm 37.0° / 61.0° 89 % 1.9 cd/lm 1 White ents:		9	- 400 - 900	50 60 60 60 60 60 60 60 60 60 60 60 60 60



XICATO	0		900	90°
LED	XOB 9.8 mm		78*	
FWHM / FWTM	45.0° / 73.0°			A T
Efficiency	88 %		60.9	60*
Peak intensity	1.4 cd/lm		$f \propto /// $	$\mathbb{N} \times \mathbb{Z}$
LEDs/each optic	1			X
Light colour	White		47°	45*
Required compone	ents:			
F15255_HEKLA	A-SOCKET-C			1 A
			1220	$\mathcal{A}$
			36*	36.*
			15° 0°	15*



## **OPTICAL RESULTS (SIMULATED):**

CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F17438_HEKLA-G2		
SEOUL		80* 80
SEOUL SEMICONDUCTOR	MJT COB LES 6	
EED FWHM / FWTM	36.0° / 57.0°	75
Efficiency	91 %	
Peak intensity	2.4 cd/lm	60 <sup>-</sup>
LEDs/each optic	1	
Light colour	White	er a
Required components		
F15255_HEKLA-S0	DCKET-C	26 <sup>4</sup> 20 <sup>10</sup> 20 <sup>10</sup> 20 <sup>10</sup>
SEOUL SEOUL SEMICONDUCTOR		30°
SECUL SEMICONDUCTOR	MJT COB LES 9.8	
FWHM / FWTM	45.0° / 69.0°	
Efficiency	88 %	
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	
Light colour	White	9
Required components	:	
F15255_HEKLA-SC	DCKET-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.

### **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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Shipping locations

Salo, Finland Hong Kong, China

#### Distribution Partners www.ledil.com/

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