

CARMEN-50-S-C-WHT

~25° 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 🛈



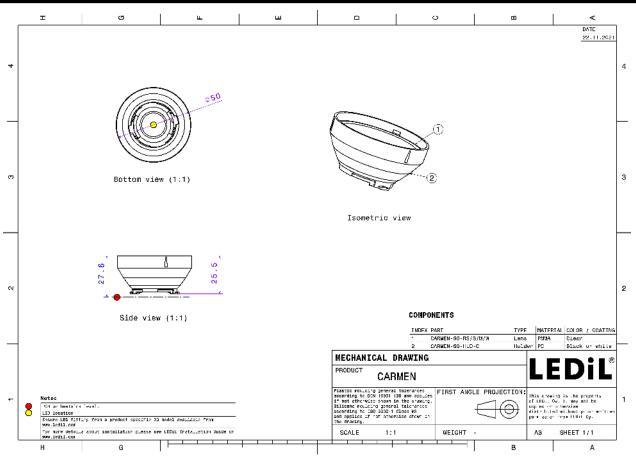
MATERIALS:

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

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CP16633_CARMEN-50-S-C-WHT	Single lens	308	112	28	6.9
» Box size: 476 x 273 x 292 mm					





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



bridgelux. LED	Vesta DTW 13mm (21W)	
FWHM / FWTM	31.0° / 65.0°	
Efficiency	79 %	
Peak intensity	1.7 cd/lm	$\mathbf{K} \propto \mathbf{M} \propto 2$
LEDs/each optic	1	
Light colour	Tunable White	
Required compone	nts:	
C16142_HEKLA	-SOCKET-K	
Bender Wirth: 49	91 Typ L8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
bridgelux.		
LED	Vesta TW 6mm DP	
FWHM / FWTM	18.0° / 35.0°	
Efficiency	83 %	y y y
Peak intensity	4.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
C16142_HEKLA		
Bender Wirth: 50	04 Typ L8	
bridgelux.		
LED	Vesta TW 9mm (9W) DP	
FWHM / FWTM	23.0° / 42.0°	
Efficiency	82 %	
Peak intensity	3.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
C16142_HEKLA		
Bender Wirth: 48	39 Тур L8	\times
CITIZE		E*
LED	CLU700/701/702/703	
FWHM / FWTM	22.0° / 39.0°	
Efficiency	90 %	5° (10)
Peak intensity	4.4 cd/lm	
LEDs/each optic	1	$ X \land A \rangle = X \land A \rangle X \rangle$
Light colour	White	
Required compone		
F15255_HEKLA	-SOCKET-C	\times / \vee \setminus \geq
		10°



CITIZE	N		
LED	CLU710/711		
FWHM / FWTM	25.0° / 44.0°		n A A A A
Efficiency	86 %		
Peak intensity	3.2 cd/lm		
LEDs/each optic	1		$N \rightarrow N \rightarrow N$
Light colour	White		
Required compone			
F15859_HEKLA			
			ar
LED	CXA/B 13xx		
FWHM / FWTM	26.0° / 43.0°		
Efficiency	90 %		
Peak intensity	3.5 cd/lm		$\Lambda / \lambda / \lambda \wedge \lambda$
LEDs/each optic	1		
Light colour	White		
Required compone	nts:		\wedge / 7 \rightarrow \wedge /
F15956_HEKLA	SOCKET-J		
	EDC .		1 - 32 - 4 - 32
LED	LUXEON CX Plus CoB - HD S01H4		
LED FWHM / FWTM	LUXEON CX Plus CoB - HD S01H4 15.0° / 32.0°		
LED FWHM / FWTM Efficiency	LUXEON CX Plus CoB - HD S01H4 15.0° / 32.0° 89 %		
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CX Plus CoB - HD S01H4 15.0° / 32.0° 89 % 6.5 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB - HD S01H4 15.0° / 32.0° 89 % 6.5 cd/lm 1	٠	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB - HD S01H4 15.0° / 32.0° 89 % 6.5 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB - HD S01H4 15.0° / 32.0° 89 % 6.5 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB - HD S01H4 15.0° / 32.0° 89 % 6.5 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB - HD S01H4 15.0° / 32.0° 89 % 6.5 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB - HD S01H4 15.0° / 32.0° 89 % 6.5 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H4 15.0° / 32.0° 89 % 6.5 cd/lm 1 White hts: 4c Hekla		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H4 15.0° / 32.0° 89 % 6.5 cd/lm 1 White hts: 4c Hekla		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H4 15.0° / 32.0° 89 % 6.5 cd/lm 1 White hts: 4c Hekla EDS LUXEON CX Plus CoB - HD S02H6		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H4 15.0° / 32.0° 89 % 6.5 cd/lm 1 White hts: 4c Hekla EDS LUXEON CX Plus CoB - HD S02H6 16.0° / 32.0°		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H4 15.0° / 32.0° 89 % 6.5 cd/lm 1 White hts: 4c Hekla EDS LUXEON CX Plus CoB - HD S02H6 16.0° / 32.0° 89 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 Model Definition Efficiency Peak intensity	LUXEON CX Plus CoB - HD S01H4 15.0° / 32.0° 89 % 6.5 cd/lm 1 White hts: 4c Hekla EDS LUXEON CX Plus CoB - HD S02H6 16.0° / 32.0°		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 Ender Wirth: 63 LUMIL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB - HD S01H4 15.0° / 32.0° 89 % 6.5 cd/lm 1 White hts: 4c Hekla EDS LUXEON CX Plus CoB - HD S02H6 16.0° / 32.0° 89 % 6.2 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 COMPLE Bender Wirth: 63 COMPLE EBENDER FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB - HD S01H4 15.0° / 32.0° 89 % 6.5 cd/lm 1 White hts: 4c Hekla EDS LUXEON CX Plus CoB - HD S02H6 16.0° / 32.0° 89 % 6.2 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 COMPARENTIAL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB - HD S01H4 15.0° / 32.0° 89 % 6.5 cd/lm 1 White hts: 4c Hekla EDS LUXEON CX Plus CoB - HD S02H6 16.0° / 32.0° 89 % 6.2 cd/lm 1 White hts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 COMPLE Bender Wirth: 63 COMPLE EBENDER FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB - HD S01H4 15.0° / 32.0° 89 % 6.5 cd/lm 1 White hts: 4c Hekla EDS LUXEON CX Plus CoB - HD S02H6 16.0° / 32.0° 89 % 6.2 cd/lm 1 White hts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 COMPARENTIAL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB - HD S01H4 15.0° / 32.0° 89 % 6.5 cd/lm 1 White hts: 4c Hekla EDS LUXEON CX Plus CoB - HD S02H6 16.0° / 32.0° 89 % 6.2 cd/lm 1 White hts:		



	EDS	E.Y.	
LED	LUXEON CX Plus CoB - HD S04H9		
FWHM / FWTM	22.0° / 40.0°	.257	
Efficiency	87 %		
Peak intensity	3.5 cd/lm	100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100	
LEDs/each optic	1		\times / \neg \neg \vee \times
Light colour	White	45*	
Required compone			
Bender Wirth: 6			$\times / / / / \times$
		×.	
	EDS		
LED	LUXEON CX Plus CoB M02 / M03 (Gen2)		A A
FWHM / FWTM	20.0° / 38.0°	.11	VA-KNY
Efficiency	87 %		$\sim \times / / / \times \sim$
Peak intensity	4 cd/lm	e7.*	VH-KV"
LEDs/each optic	1		
Light colour	White	40	
Required compone	nts:		$\times 1 \times$
Bender Wirth: 6			
			$<$ \land \land \land $×$
		4	
	FDS		14 4 14 1
		1 M 2	
LED FWHM / FWTM	LUXEON CX Plus CoB S01 (Gen2) 15.0° / 32.0°	725	
Efficiency	89 %		XIN
Peak intensity	6.6 cd/lm	5	X// XX
LEDs/each optic			
LLD3/each optic	1		1 1 to a second to a second se
Light colour	1 White	40	
Light colour	White	95 - S	A A A A A A A A A A A A A A A A A A A
Required compone	White nts:		
	White nts:	er e	
Required compone	White nts:		
Required compone	White nts:		
Required compone	White nts: 34c Hekla	95 	
Required compone Bender Wirth: 6	White nts: 34c Hekla		
Required compone Bender Wirth: 6	White nts: 34c Hekla		
Required compone Bender Wirth: 6	White nts: 34c Hekla		
Required compone Bender Wirth: 6	White nts: 34c Hekla INUS CXM-4 23.0° / 41.0°		
Required compone Bender Wirth: 6 ED FWHM / FWTM Efficiency	White nts: 34c Hekla INUS CXM-4 23.0° / 41.0° 89 %		
Required compone Bender Wirth: 6 ED FWHM / FWTM Efficiency Peak intensity	White nts: 34c Hekla INUS CXM-4 23.0° / 41.0° 89 % 4.1 cd/lm		
Required compone Bender Wirth: 6 ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	White nts: 34c Hekla INUS CXM-4 23.0° / 41.0° 89 % 4.1 cd/lm 1 White		
Required compone Bender Wirth: 6 ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White nts: 34c Hekla INUS CXM-4 23.0° / 41.0° 89 % 4.1 cd/lm 1 White nts:		
Required compone Bender Wirth: 6 ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	White nts: 34c Hekla INUS CXM-4 23.0° / 41.0° 89 % 4.1 cd/lm 1 White nts:		
Required compone Bender Wirth: 6 ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	White nts: 34c Hekla INUS CXM-4 23.0° / 41.0° 89 % 4.1 cd/lm 1 White nts:		



XICATO)			
LED	XOB 6 mm			Land I
FWHM / FWTM	23.0° / 42.0°		" _ "	KN 7
Efficiency	88 %		X X / [AXX NI
Peak intensity	3.9 cd/lm			KV1
LEDs/each optic	1			
Light colour	White		× / / *	
Required compone	ents:			IN X
F15255_HEKLA	A-SOCKET-C		$ / \rightarrow - $	L+V.
			XII	
	_		1.45° 4	<i>W</i>
XICATO)			
LED	XOB 9.8 mm		1	1 mail
FWHM / FWTM	26.0° / 46.0°			1 And
Efficiency	87 %		XIN	M V X
Peak intensity	3 cd/lm			$\Lambda X X 1$
LEDs/each optic	1			
Light colour	White		× / /	
Required compone	ents:		\times /	
F15255_HEKLA	A-SOCKET-C		- /	$A \sim 1$
				PNV
			33 ¹	Ψ



OPTICAL RESULTS (SIMULATED):

		e
LED	CMU15xx	
FWHM / FWTM	36.0° / 58.0°	
Efficiency	91 %	
Peak intensity	2.1 cd/lm	$1 / \sqrt{-\pi} / \sqrt{-\pi}$
LEDs/each optic	1	
Light colour	White	
Required components:		
F17438_HEKLA-G2-	1	
		5.7
LED	CMU15xx	
FWHM / FWTM	35.0° / 58.0°	
Efficiency	91 %	
Peak intensity	2.1 cd/lm	1 / 1 - 1
LEDs/each optic	1	
Light colour	White	
Required components:		
F17438_HEKLA-G2-	4	/ / / / / / / / / / / / / / / / / / /
-		
_		
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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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