

## CARMEN-50-S-C

~24° spot beam. Assembly with holder C compatible with LEDiL HEKLA.

#### **TECHNICAL SPECIFICATIONS:**

Dimensions	Ø 50.0 mm
Height	25.5 mm
Fastening	socket
Colour	black
Box size	476 x 273 x 292 mm
Box weight	6.9 kg
Quantity in Box	308 pcs
ROHS compliant	yes 🛈



#### MATERIAL SPECIFICATIONS:

Component CARMEN-50-S CARMEN-50-HLD-C **Type** Single lens Holder **Material** PMMA PC Colour clear



R



bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15253_HEKL	White ents:	34*   300   64     37*   300   64     300   64   300
bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	White ents:	34 35 60 10 10 10 10 10 10 10 10 10 10 10 10 10
bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15859_HEKL	White ents:	200 200 200 200 200 200 200 200
bridgelux, LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL	White entry white	34,   32,   6,   78,   94,     46,   900   66,   90,   96,     36,   900   66,   90,   96,     36,   900   96,   96,   96,     36,   90,   96,   96,   96,     36,   96,   96,   96,   96,

PRODUCT DATASHEET

CP16107\_CARMEN-50-S-C



### PHOTOMETRIC DATA (MEASURED):

CITIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	CLL02x/CLU02x (LES10) 24.0° 66 % 3.100 cd/lm 1 White eents:	20 20 20 20 20 20 20 20 20 20
CITIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	CLU700/701 19.0° 73 % 5.300 cd/lm 1 White tents:	34° 253
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15256_HEKL	CMA1516 25.0° 68 % 3.000 cd/lm 1 White tents:	200 - 200 -
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	CMT14xx 25.0° 44 % 1.900 cd/lm 1 White tents:	101   102   102     90*   90   90*     90*   90   90*     90*   90   90*     90*   90   90*     90*   90   90*     90*   90   90*     90*   90   90*     90*   90   90*     90*   90*   90*     90*   90*   90*     90*   90*   90*     90*   90*   90*     90*   90*   90*     90*   90*   90*     90*   90*   90*     90*   90*   90*     90*   90*   90*     90*   90*   90*     90*   90*   90*     90*   90*   90*     90*   90*   90*     90*   90*   90*     90*   90*   90*

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### PHOTOMETRIC DATA (MEASURED):

CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15956_HEKL	CXA/B 13xx 22.0° 77 % 4.500 cd/lm 1 White hents:	5° 5° 5° 5° 5° 5° 5° 5° 5° 5°
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15956_HEKL	CXA/B 13xx 21.0° 76 % 4.500 cd/lm 1 White tents:	
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15256_HEKL	CXA/B 15xx 24.0° 69 % 3.400 cd/lm 1 White hents:	20 20 20 20 20 20 20 20 20 20
EUMIL LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15848_HEKL	LUXEON CoB 1202HD 21.0° 73 % 4.400 cd/lm 1 White hents:	



### PHOTOMETRIC DATA (MEASURED):

CUMIL LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15848_HEKL	LUXEON CoB 1202s 21.0° 75 % 4.700 cd/lm 1 White ents:	200 200 200 200 200 200 200 200
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: 4	CDM-9 (Dim-To-Warm) 21.0° 57 % 3.700 cd/lm 1 White ents: A-SOCKET-K	30, 12, 665 12, 24 22, 90 23, 90 25, 90 25
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	CxM-9 (13.5x13.5) 24.0° 67 % 3.100 cd/lm 1 White ents:	20- 20- 20- 20- 20- 20- 20- 20-
ED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15848_HEKL	White ents:	30   32   0,   32     60   200   0,   32     33   25   0,   32

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<b>Ø</b> NICHIA		90° A 90°
LED	NJCWL024Z-V1MT: COB L-Type Tunable White	35
FWHM	17.0°	
Efficiency	56 %	8g* 1600 8g*
Peak intensity	4.700 cd/lm	
LEDs/each optic		
Light colour	White	5 1 3200
Required compor C16142_HEKL		
Bender Wirth: 4		
		30. 200
PHILIP		90° 90° 90°
LED	Fortimo SLM L09 CoB	
FWHM	24.0°	787
Efficiency	65 %	$\times$
Peak intensity	3.100 cd/lm	
LEDs/each optic		1000
Light colour	White	g <sup>*</sup>
Required compor	ents:	$\times$
F15858_HEKL	A-SOCKET-H	200
		30° 300 30° 30°
SAMSU		50°
LED	COB D Series LES 9.8 mm	
FWHM	25.0°	75
Efficiency	67 %	800 X X X X X X X X X X X X X X X X X X
Peak intensity	3.000 cd/lm	
LEDs/each optic	1	1600
Light colour	White	gr
Required compor		
F15255_HEKL	A-SOCKET-C	2430
		30* <u>3250</u> 30* 30*
SAMSU		90° A 90°
LED	LC010C G2	
FWHM	19.0°	
Efficiency	74 %	50°
Peak intensity	5.300 cd/lm	
LEDs/each optic		
Light colour	White	a. 200
Required compor		
F15255_HEKL	A-SOCKET-C	
		30° 30° 30°

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SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15859_HEKL	LC020C G2 23.0° 65 % 3.300 cd/lm 1 White ents:	200 200 200 200 200 200 200 200
TRIDON LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	SLE G7 LES09   23.0°   69 %   3.500 cd/lm   1   White   ents:	200 200 200 200 200 200 200 200
TRIDON LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15859_HEKL	SLE G7 LES13 31.0° 58 % 1.800 cd/lm 1 White ents:	20 20 20 20 20 20 20 20 20 20
XICATC LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	XOB 6 mm   19.0°   73 %   4.870 cd/lm   1   White   ents:	200 200 200

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LED XOB 9.8 mm FWHM 24.0° Efficiency 67 % Peak intensity 3.232 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C	XICATC	)		90°	90
FWHM 24.0°   Efficiency 67 %   Peak intensity 3.232 cd/lm   LEDs/each optic 1   Light colour White   Required components: 500	LED	XOB 9.8 mm			I bol.
Efficiency 67 % Peak intensity 3.232 cd/lm LEDs/each optic 1 Light colour White Required components:	FWHM	24.0°			
LEDs/each optic 1 Light colour White Required components:	Efficiency	67 %		500	
Light colour White Required components:	Peak intensity	3.232 cd/lm			
Required components:	LEDs/each optic	1			
	Light colour	White		95*	
F15255_HEKLA-SOCKET-C	Required compo	ients:			
	F15255_HEKL	A-SOCKET-C			
30				30*	

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### PHOTOMETRIC DATA (SIMULATED):

bridgetux.   LED V6 Gen6   FWHM 21.0°   Efficiency 71 %   Peak intensity 4.400 cd/lm   LEDs/each optic 1   Light colour White   Required components: F15253_HEKLA-SOCKET-A	95°
	3 <sup>6</sup> 25 <sup>7</sup> 400 25 <sup>7</sup> 30.
bridgetuk   LED VERO10   FWHM 24.0°   Efficiency 64 %   Peak intensity 3.180 cd/lm   LEDs/each optic 1   Light colour White   Required components: F15616_HEKLA-SOCKET-F	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED VERO13 FWHM 27.0° Efficiency 66 % Peak intensity 2.500 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K	22, 6, 12, 9, 20, 00, 00, 00, 24, 000, 00, 25, 00, 00, 26, 00, 00, 26, 00, 00, 26, 00, 00, 26, 00, 00, 00, 26, 00, 00, 00, 00, 26, 00, 00, 00, 00, 00, 00, 00, 00, 00, 0
LED SLE G5 LES11   FWHM 24.0°   Efficiency 63 %   Peak intensity 3.000 cd/lm   LEDs/each optic 1   Light colour White	99° 90° 79° 00° 90° 99° 00° 00°

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### PHOTOMETRIC DATA (SIMULATED):

# XICATO

LED XTM - 9mm LES FWHM 25.0° Efficiency 67 % Peak intensity 3.000 cd/lm LEDs/each optic 1 Light colour White Required components: C15743\_XTM-ADAPTER-50-B



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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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#### LEDiL Oy

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