

# PRODUCT DATASHEET CP16107\_CARMEN-50-S-C

## CARMEN-50-S-C

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

#### **SPECIFICATION:**

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



#### **MATERIALS:**

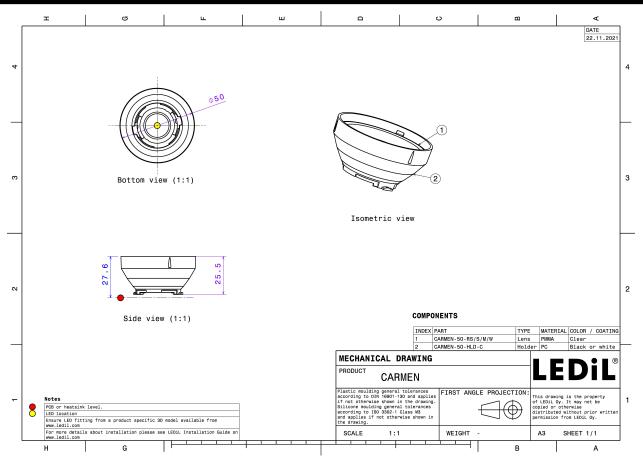
Component	Туре	Material	Colour	Finish
CARMEN-50-S	Single lens	PMMA	clear	
CARMEN-50-HLD-C	Holder	PC	black	

#### **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CP16107_CARMEN-50-S-C	Single lens	308	112	28	6.9
» Box size: 476 x 273 x 292 mm					



# PRODUCT DATASHEET CP16107\_CARMEN-50-S-C



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



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA		2000 200 2000 2
bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA		200 00 00 00 00 00 00 00 00 00 00 00 00
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15859_HEKLA		30. 32. 64. 32.   20.0 20.0 40.   20.0 20.0 40.   20.0 20.0 40.   20.0 20.0 40.
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA		20 20 20 20 20 20 20 20 20 20



bridgelux.		90° 90°
LED	Vesta TW 6mm DP	
FWHM / FWTM	15.0° / 31.0°	25'
Efficiency	63 %	
Peak intensity	5.7 cd/lm	
LEDs/each optic	1	
Light colour	White	45' 45'
Required compone	nts:	
C16142_HEKL		400
Bender Wirth: 5		
		30" 30" 31"
bridgelux.		50*
LED	Vesta TW 9mm (9W) DP	
FWHM / FWTM	22.0° / 37.0°	23.
Efficiency	55 %	
Peak intensity	3.2 cd/lm	
LEDs/each optic	1	1600
Light colour	White	45*
Required compone		
C16142_HEKL/		
Bender Wirth: 4		
Dender Wittil. 4	Se Typ Lo	
		36* 25° 0° 35°
CITIZE	Ν	90*
LED	CLL02x/CLU02x (LES10)	
FWHM / FWTM	24.0° / 42.0°	73.
Efficiency	66 %	800
Peak intensity	3.1 cd/lm	
LEDs/each optic	1	1630
Light colour	White	95°
Required compone	nts:	
F15255_HEKLA		200
		30° 30° 30°
		15° 0° 15°
CITIZE	N	90° 90°
LED	CLU700/701/702/703	
FWHM / FWTM	19.0° / 35.0°	$\uparrow \land \land$
Efficiency	73 %	60 <sup>5</sup>
Peak intensity		
1 oan monony	5.3 cd/lm	
LEDs/each optic	5.3 cd/lm 1	
		g <sup>r</sup> <u>200</u> e <sup>r</sup>
LEDs/each optic	1 White	gr
LEDs/each optic Light colour	1 White nts:	gr
LEDs/each optic Light colour Required compone	1 White nts:	q* <u>270</u> e*
LEDs/each optic Light colour Required compone	1 White nts:	



CITIZE	N	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	CLU710/711 22.0° / 39.0° 65 % 3.5 cd/lm 1 White tts:	
CREECS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15256_HEKLA		
CREE C LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA		
CREE Constructions LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA		



		90° 90°
LED	CXA/B 13xx	
FWHM / FWTM	21.0° / 39.0°	
Efficiency	76 %	60 <sup>4</sup> 60 <sup>4</sup>
Peak intensity	4.5 cd/lm	
LEDs/each optic	1	
Light colour	White	93. 63.
Required compone		220
F15956_HEKLA	-SOCKET-J	
		$\times$ / $\vee$ $\times$
		30°
CREE ÷		50 <sup>4</sup>
LED	CXA/B 15xx	
FWHM / FWTM	24.0° / 41.0°	25*
Efficiency	69 %	
Peak intensity	3.4 cd/lm	
LEDs/each optic	1	
Light colour	White	5- C
Required compone		2400
F15256_HEKLA		
		30° 220
	FDC	123 04 123
UMIL		90* 90*
LED	LUXEON CoB 1202HD	75*
FWHM / FWTM	21.0° / 38.0°	
Efficiency	73 %	50 <sup>1</sup> 50 <sup>0</sup>
Peak intensity	4.4 cd/lm	
LEDs/each optic Light colour	1 White	45°
Required compone		
F15848_HEKLA		320
		 30° 135' 4050 157'
	EDS	90°
LED	LUXEON CoB 1202s	157 4690 157
LED FWHM / FWTM	LUXEON CoB 1202s 21.0° / 38.0°	157 4690 157
LED FWHM / FWTM Efficiency	LUXEON CoB 1202s 21.0° / 38.0° 75 %	157 4690 157
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CoB 1202s 21.0° / 38.0° 75 % 4.7 cd/lm	25 <u>69</u> 57
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CoB 1202s 21.0° / 38.0° 75 % 4.7 cd/lm 1	25 <u>69</u> 57
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1202s 21.0° / 38.0° 75 % 4.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CoB 1202s 21.0° / 38.0° 75 % 4.7 cd/lm 1 White nts:	25 26 29 29 29 29 29 29 29 29 29 29 29 29 29
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1202s 21.0° / 38.0° 75 % 4.7 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CoB 1202s 21.0° / 38.0° 75 % 4.7 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON CoB 1202s 21.0° / 38.0° 75 % 4.7 cd/lm 1 White nts:	



COMIL	EDS	50° A 50°
LED	LUXEON CX Plus CoB - HD S01H4	
FWHM / FWTM	16.0° / 32.0°	
Efficiency	68 %	
Peak intensity	6.1 cd/lm	
LEDs/each optic	1	
Light colour	White	gr de la companya de
Required compone	nts:	
Bender Wirth: 63		400
		$\times$ / $\vee$ $\times$
		3/4 66/00 30
	FDS	20 <sup>2</sup> 0 <sup>4</sup> 22 <sup>2</sup>
		90°
LED	LUXEON CX Plus CoB - HD S02H6	75'
FWHM / FWTM	16.0° / 32.0°	
Efficiency	67 %	
Peak intensity	5.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone Bender Wirth: 63		
Dender Witth. 0.		
		30" 30
	EDS	99 <sup>*</sup> 90
	EDS LUXEON CX Plus CoB - HD S04H9	
		90 <sup>+</sup> 9
LED	LUXEON CX Plus CoB - HD S04H9	
LED FWHM / FWTM	LUXEON CX Plus CoB - HD S04H9 22.0° / 38.0°	61
LED FWHM / FWTM Efficiency	LUXEON CX Plus CoB - HD S04H9 22.0° / 38.0° 61 %	90 <sup>4</sup> 95 60 80 80 80 80 80 80 80 80 80 80 80 80 80
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CX Plus CoB - HD S04H9 22.0° / 38.0° 61 % 3.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB - HD S04H9 22.0° / 38.0° 61 % 3.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB - HD S04H9 22.0° / 38.0° 61 % 3.4 cd/lm 1 White ints:	et e
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB - HD S04H9 22.0° / 38.0° 61 % 3.4 cd/lm 1 White ints:	e <sup>7</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB - HD S04H9 22.0° / 38.0° 61 % 3.4 cd/lm 1 White ints:	e <sup>7</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB - HD S04H9 22.0° / 38.0° 61 % 3.4 cd/lm 1 White Ints: 34c Hekla	et e
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB - HD S04H9 22.0° / 38.0° 61 % 3.4 cd/lm 1 White Ints: 34c Hekla	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB - HD S04H9 22.0° / 38.0° 61 % 3.4 cd/lm 1 White Ints: 34c Hekla	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB - HD S04H9 22.0° / 38.0° 61 % 3.4 cd/lm 1 White Ints: 34c Hekla LUXEON CX Plus CoB M02 / M03 (Gen2) 20.0° / 36.0°	95 95 95 95 95 95 95 95 95 95 95 95 95 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB - HD S04H9 22.0° / 38.0° 61 % 3.4 cd/lm 1 White Ints: 34c Hekla EDS LUXEON CX Plus CoB M02 / M03 (Gen2) 20.0° / 36.0° 61 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB - HD S04H9 22.0° / 38.0° 61 % 3.4 cd/lm 1 White Ints: 34c Hekla LUXEON CX Plus CoB M02 / M03 (Gen2) 20.0° / 36.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 WITH: 63 Ender Wirth: 63 UUMIL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB - HD S04H9 22.0° / 38.0° 61 % 3.4 cd/lm 1 White I White M	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 <b>CUMIL</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB - HD S04H9 22.0° / 38.0° 61 % 3.4 cd/lm 1 White mts: 34c Hekla EDS LUXEON CX Plus CoB M02 / M03 (Gen2) 20.0° / 36.0° 61 % 3.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 <b>COMPARENTION</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB - HD S04H9 22.0° / 38.0° 61 % 3.4 cd/lm 1 White I White White LUXEON CX Plus CoB M02 / M03 (Gen2) 20.0° / 36.0° 61 % 3.8 cd/lm 1 White I I White I I I I I I I I I I I I I	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPLE</b> <b>COMPL</b>	LUXEON CX Plus CoB - HD S04H9 22.0° / 38.0° 61 % 3.4 cd/lm 1 White I White White LUXEON CX Plus CoB M02 / M03 (Gen2) 20.0° / 36.0° 61 % 3.8 cd/lm 1 White I I White I I I I I I I I I I I I I	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 <b>CONTINUATION</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB - HD S04H9 22.0° / 38.0° 61 % 3.4 cd/lm 1 White I White White LUXEON CX Plus CoB M02 / M03 (Gen2) 20.0° / 36.0° 61 % 3.8 cd/lm 1 White I I White I I I I I I I I I I I I I	



	EDS	30*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB S01 (Gen2) 15.0° / 31.0° 68 % 6.2 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4	CDM-9 (Dim-To-Warm) 21.0° / 35.0° 57 % 3.7 cd/lm 1 White ents: A-SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CXM-4 18.0° / 35.0° 76 % 5.5 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CxM-9 (13.5x13.5) 24.0° / 42.0° 67 % 3.1 cd/lm 1 White ents:	



<b>∕∕</b> NICHI∕	<b>k</b>	90 <sup>4</sup>
LED	COB S-Type (LES 7)	
FWHM / FWTM	22.0° / 39.0°	
Efficiency	73 %	
Peak intensity	4.1 cd/lm	60*
LEDs/each optic	1	
Light colour	White	g. / / / / /
Required compone	nts:	
F15848_HEKLA		220
		12 <sup>5</sup> 0 <sup>4</sup> 12 <sup>5</sup>
ØNICHI∕		90 <sup>+</sup>
LED	NJCWL024Z-V1MT: COB L-Type Tunable White	
FWHM / FWTM	17.0° / 31.0°	
Efficiency	56 %	67* 1000
Peak intensity	4.7 cd/lm	
LEDs/each optic	1	
Light colour	White	<b>9</b>
Required compone	nts:	
C16142_HEKLA	-SOCKET-K	
Bender Wirth: 49	97 Typ L8	
		30%
PHILIF	S	
	Fortimo SLM L09 CoB	77
FWHM / FWTM	24.0° / 41.0°	
Efficiency	65 %	
Peak intensity	3.1 cd/lm 1	
LEDs/each optic Light colour	White	e <sup>1</sup>
Required compone		
F15858_HEKLA		200
		30 <sup>4</sup> 3200 55 <sup>5</sup> 0 <sup>4</sup> 35 <sup>4</sup>
SAMSU	JNG	90 <sup>4</sup>
LED	LC003D / LC006D / LC009D / LC013D	
FWHM / FWTM	25.0° / 43.0°	
Efficiency	67 %	
Peak intensity	3 cd/lm	
LEDs/each optic	1	
Light colour	White	gr / //
Required compone	nts:	
F15255_HEKLA		2000
_		
		34
		2250



SAMSU	JNG	93 <sup>3</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	LC010C G2 19.0° / 35.0° 74 % 5.3 cd/lm 1 White nts:	
SVWSI		
	LC020C G2	77
FWHM / FWTM Efficiency	23.0° / 40.0° 65 %	
Peak intensity	3.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
F15859_HEKLA		
TRIDON		30 <sup>6</sup> 25 <sup>7</sup> 0 25 <sup>7</sup> 3
		9 <sup>4</sup> *
	SLE G7 LES09	77
FWHM / FWTM Efficiency	23.0° / 41.0° 69 %	
Peak intensity	3.5 cd/lm	
LEDs/each optic	1	
Light colour	White	gy a
Required compone F15255_HEKLA		250
		20 <sup>4</sup> 12 <sup>4</sup> 0 <sup>2</sup> 12 <sup>3</sup>
TRIDON	lic	20 <sup>4</sup> 23 <sup>5</sup> 0 <sup>4</sup> 23 <sup>5</sup> 0
LED	SLE G7 LES13	
LED FWHM / FWTM	SLE G7 LES13 31.0° / 51.0°	20 00 00 00 00 00 00 00 00 00 00 00 00 0
LED FWHM / FWTM Efficiency	SLE G7 LES13 31.0° / 51.0° 58 %	
LED FWHM / FWTM Efficiency Peak intensity	SLE G7 LES13 31.0° / 51.0° 58 % 1.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	SLE G7 LES13 31.0° / 51.0° 58 % 1.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SLE G7 LES13 31.0° / 51.0° 58 % 1.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	SLE G7 LES13 31.0° / 51.0° 58 % 1.8 cd/lm 1 White nts:	



XICATO			90* 90
LED	XOB 6 mm		
FWHM / FWTM	19.0° / 36.0°	and the second se	75
Efficiency	73 %		500 500 po
Peak intensity	4.9 cd/lm		
LEDs/each optic	1		
Light colour	White		95 <sup>4</sup> 63
Required compone	ents:		
F15255_HEKLA	A-SOCKET-C		
			36° 653 36
			13 <sup>5</sup> 0 <sup>5</sup> 35 <sup>5</sup>
XICATO	)		90° 90°
LED	XOB 9.8 mm		75
FWHM / FWTM	24.0° / 42.0°		
Efficiency	67 %		60° 60°
Peak intensity	3.2 cd/lm		
LEDs/each optic	1		1600
Light colour	White		47 <sup>2</sup>
Required compone	ents:		2430
F15255_HEKLA	A-SOCKET-C		
			34



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

$\sim$		
bridgelux.		50° 50°
LED	V10 Gen7	
FWHM / FWTM	24.0° / 42.0°	73°
Efficiency	65 %	$\times$
Peak intensity	3.1 cd/lm	60* e0*
LEDs/each optic	1	
Light colour	White	45° 1000
Required components:	WIIIG	
F15255_HEKLA-SO		200
1 10200_HEREA-000		
		30° 300 30° 15° 0° 15°
bridgelux.		90° 90°
LED	V6 Gen6	
FWHM / FWTM	21.0° / 37.0°	25*
Efficiency	71 %	
Peak intensity	4.4 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	5° (5°
Required components:		3300
F15253_HEKLA-SO	CKET-A	
		30'* 30'*
		30° 30° 30° 30°
$\frown$		
bridgelux.		90* 90*
bridgelux. LED	V8 Gen7	50'
	V8 Gen7 24.0° / 40.0°	27 20 27 29 29
LED FWHM / FWTM		27 26 26 26 26 26 26 26 26 26 26 26 26 26
LED FWHM / FWTM Efficiency	24.0° / 40.0°	64 505 50 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity	24.0° / 40.0° 71 %	60° 55° 55° 55° 55° 55° 55° 55° 55° 55° 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	24.0° / 40.0° 71 % 3.7 cd/lm	g
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	24.0° / 40.0° 71 % 3.7 cd/lm 1	51 <sup>4</sup> 517 51 51 51 51 51 51 51 51 51 51 51 51 51
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	24.0° / 40.0° 71 % 3.7 cd/lm 1 White	er. 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	24.0° / 40.0° 71 % 3.7 cd/lm 1 White	g
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	24.0° / 40.0° 71 % 3.7 cd/lm 1 White	a. 200 a.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	24.0° / 40.0° 71 % 3.7 cd/lm 1 White	er. 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOG	24.0° / 40.0° 71 % 3.7 cd/lm 1 White	309 209 209
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOG	24.0° / 40.0° 71 % 3.7 cd/lm 1 White CKET-A	500 500 500 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOG	24.0° / 40.0° 71 % 3.7 cd/lm 1 White CKET-A	30 30 30 30 30 30 30 30 30 30
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOO	24.0° / 40.0° 71 % 3.7 cd/lm 1 White CKET-A VERO10 24.0° / 41.0°	500 500 500 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOO bridgelux. LED FWHM / FWTM Efficiency	24.0° / 40.0° 71 % 3.7 cd/lm 1 White CKET-A VERO10 24.0° / 41.0° 64 %	30 30 30 30 30 30 30 30 30 30
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOO bridgetux. LED FWHM / FWTM Efficiency Peak intensity	24.0° / 40.0° 71 % 3.7 cd/lm 1 White CKET-A VERO10 24.0° / 41.0°	30 30 30 30 30 30 30 30 30 30
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOO bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	24.0° / 40.0° 71 % 3.7 cd/lm 1 White CKET-A VERO10 24.0° / 41.0° 64 % 3.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOO bridgeLUX LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	24.0° / 40.0° 71 % 3.7 cd/lm 1 White CKET-A VERO10 24.0° / 41.0° 64 % 3.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	24.0° / 40.0° 71 % 3.7 cd/lm 1 White CKET-A VERO10 24.0° / 41.0° 64 % 3.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOO bridgeLUX LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	24.0° / 40.0° 71 % 3.7 cd/lm 1 White CKET-A VERO10 24.0° / 41.0° 64 % 3.2 cd/lm 1 White	d. 100 04   bit 100 10   bit 10 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	24.0° / 40.0° 71 % 3.7 cd/lm 1 White CKET-A VERO10 24.0° / 41.0° 64 % 3.2 cd/lm 1 White	d. 7(2) dia   dia 102 dia



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

		90° 90°
LED	CHA0304	
FWHM / FWTM	20.0° / 33.0°	
Efficiency	72 %	
Peak intensity	5.4 cd/lm	60°
LEDs/each optic	1	
Light colour	White	51 3200
Required components:	Wille	
F17435_HEKLA-G2-	C	
	0	
		30° 35° 35°
		90° 90°
LED	CHA0612	
FWHM / FWTM	16.0° / 31.0°	25*
Efficiency	66 %	100
Peak intensity	5.9 cd/lm	60*
LEDs/each optic	1	
Light colour	White	454
Required components:		
F17435_HEKLA-G2-	с	400
		X / V / X
		30°
		90° 90°
	CH40825	90°
LED	CHA0825 20.0° / 36.0°	22. 22
LED FWHM / FWTM	20.0° / 36.0°	27 28 29 29 29 29 29 29 29 29
LED FWHM / FWTM Efficiency	20.0° / 36.0° 60 %	64 120 100 25 100 26 100 26 100 27 100 20 100 20 20 100 20 100 20 100 20 100 20 100 20 100 20
LED FWHM / FWTM Efficiency Peak intensity	20.0° / 36.0°	64. 25. 26. 26. 26. 26. 26. 26. 26. 26. 26. 26
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	20.0° / 36.0° 60 % 3.9 cd/lm	5 - 90 5 - 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	20.0° / 36.0° 60 % 3.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	20.0° / 36.0° 60 % 3.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	20.0° / 36.0° 60 % 3.9 cd/lm 1 White	9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	20.0° / 36.0° 60 % 3.9 cd/lm 1 White	50 200 50 30 50 30 50 30 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-	20.0° / 36.0° 60 % 3.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-	20.0° / 36.0° 60 % 3.9 cd/lm 1 White	50 200 50 30 50 30 50 30 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-	20.0° / 36.0° 60 % 3.9 cd/lm 1 White COB S-Type (LES 6)	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-	20.0° / 36.0° 60 % 3.9 cd/lm 1 White COB S-Type (LES 6) 30.0° / 50.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-	20.0° / 36.0° 60 % 3.9 cd/lm 1 White COB S-Type (LES 6) 30.0° / 50.0° 62 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-	20.0° / 36.0° 60 % 3.9 cd/lm 1 White I COB S-Type (LES 6) 30.0° / 50.0° 62 % 2.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2- IED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	20.0° / 36.0° 60 % 3.9 cd/lm 1 White I COB S-Type (LES 6) 30.0° / 50.0° 62 % 2.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2- IED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	20.0° / 36.0° 60 % 3.9 cd/lm 1 White I COB S-Type (LES 6) 30.0° / 50.0° 62 % 2.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-	20.0° / 36.0° 60 % 3.9 cd/lm 1 White COB S-Type (LES 6) 30.0° / 50.0° 62 % 2.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2- IED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	20.0° / 36.0° 60 % 3.9 cd/lm 1 White COB S-Type (LES 6) 30.0° / 50.0° 62 % 2.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-	20.0° / 36.0° 60 % 3.9 cd/lm 1 White COB S-Type (LES 6) 30.0° / 50.0° 62 % 2.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-	20.0° / 36.0° 60 % 3.9 cd/lm 1 White COB S-Type (LES 6) 30.0° / 50.0° 62 % 2.1 cd/lm 1 White	



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

SAMSU	NG	50°
LED	LH231B	
FWHM / FWTM	23.0° / 42.0°	33
Efficiency	63 %	60 <sup>-</sup>
Peak intensity	3 cd/lm	$r \times / / \wedge \times \gamma$
LEDs/each optic	7	100
Light colour	White	gr
Required component	s:	$\times$ $\wedge$ $\times$
F15255_HEKLA-SOCKET-C		200
		a).
		2200 215° 0° 155°
<b>XICATO</b>		90 <sup>4</sup> 90 <sup>4</sup>
LED	XTM - 9mm LES	
FWHM / FWTM	25.0° / 43.0°	77
	20.0 / 40.0	
Efficiency	67 %	
Efficiency Peak intensity		
Peak intensity	67 %	
-	67 % 3 cd/lm	63* 60*
Peak intensity LEDs/each optic	67 % 3 cd/lm 1 White	63* 60*
Peak intensity LEDs/each optic Light colour	67 % 3 cd/lm 1 White s:	60°
Peak intensity LEDs/each optic Light colour Required component	67 % 3 cd/lm 1 White s:	6)* () () () () () () () () () ()
Peak intensity LEDs/each optic Light colour Required component	67 % 3 cd/lm 1 White s:	60 <sup>1</sup>



## PRODUCT DATASHEET CP16107\_CARMEN-50-S-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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#### 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

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