

PRODUCT DATASHEET CP16106_CARMEN-50-RS-C

CARMEN-50-RS-C

~12° 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:

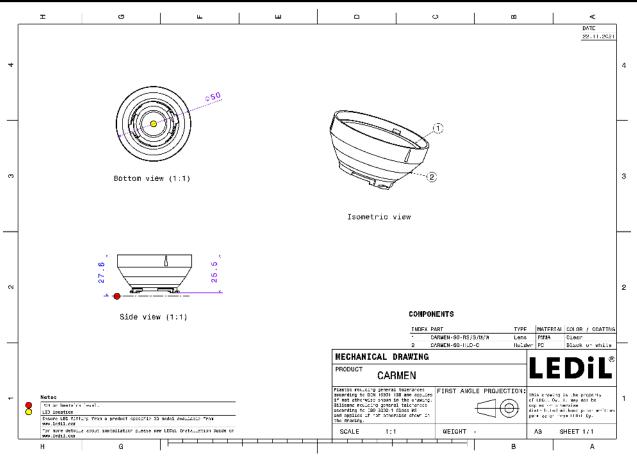
Component	Туре	Material	Colour	Finish
CARMEN-50-RS	Single lens	PMMA	clear	
CARMEN-50-HLD-C	Holder	PC	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CP16106_CARMEN-50-RS-C	Single lens	308	112	28	7.2
» Box size: 476 x 273 x 292 mm					



PRODUCT DATASHEET CP16106_CARMEN-50-RS-C



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



LED V4 HD Gen 7 PrivAhr /WTM 12:07/13.0* Elidiancy 71% Required components: F15253, HEXLA-SOCKET-A EDGEDA LED V6 HD Gen 7 PrivAhr /WTM 12:07/22.0* Elidiancy 68% Peak Intensity 10.6 cd/m LED V6 HD Gen 7 PrivAhr /WTM 12:07/22.0* Elidiancy 68% Peak Intensity 10.6 cd/m LED V6 HD Gen 7 PrivAhr /WTM 12:07/22.0* Elidiancy 68% Peak Intensity 10.6 cd/m LED V6 HD Gen 7 PrivAhr /WTM 15:07/28.0* Elidiancy 64% Peak Intensity 6.7 cd/m LED V6 HD Gen 7 PrivAhr /WTM 15:07/28.0* Elidiancy 64% Peak Intensity 6.7 cd/m LED V6 HD Gen 7 PrivAhr /WTM 15:07/28.0* Elidiancy 64% Peak Intensity 6.7 cd/m LED V6 HD Gen 7 PrivAhr /WTM 15:07/28.0* Elidiancy 64% Peak Intensity 6.7 cd/m LED V6 HD Gen 7 PrivAhr /WTM 12:07/28.0* Elidiancy 64% Peak Intensity 6.7 cd/m LED V6 HD Gen 7 PrivAhr /WTM 12:07/28.0* Elidiancy 64% Peak Intensity 6.7 cd/m LED V6 HD Gen 7 PrivAhr /WTM 12:07/28.0* Elidiancy 64% Peak Intensity 6.7 cd/m LED V6 HD Gen 7 PrivAhr /WTM 12:07/28.0* Elidiancy 61% Peak Intensity 3.4 cd/m LED V6 HD Gen 7 PrivAhr /WTM 12:07/38.0* Elidiancy 61% Peak Intensity 3.4 cd/m LED V6 HD Gen 7 PrivAhr /WTM 12:07/38.0* Elidiancy 61% Peak Intensity 3.4 cd/m LED V6 HD Gen 7 PrivAhr /WTM 12:07/38.0* Elidiancy 61% Peak Intensity 3.4 cd/m LED V6 HD Gen 7 PrivAhr /WTM 12:07/38.0* Elidiancy 61% Peak Intensity 3.4 cd/m LED V6 HD Gen 7 PrivAhr /WTM 12:07/38.0* Elidiancy 61% Peak Intensity 3.4 cd/m LED V6 HD Gen 7 PrivAhr /WTM 12:07/38.0* Elidiancy 61% Peak Intensity 3.4 cd/m LED V6 HD Gen 7 PrivAhr /WTM 12:07/38.0* Elidiancy 61% Peak Intensity 3.4 cd/m LED V6 HD Gen 7 PrivAhr /WTM 12:07/38.0* Elidiancy 61% Peak Intensity 3.4 cd/m LED V6 HD Gen 7 PrivAhr /WTM 12:07/38.0* Elidiancy 61% Peak Intensity 3.4 cd/m LED V6 HD Gen 7 PrivAhr /WTM 12:07/38.0* Elidiancy 61% Piak Intensity 3.4 cd/m LED V6 HD Gen 7 Pix HAR /WTM 12:07/38.0* Elidiancy 61% Pix HAR /WTM 12:07/38.0* Elidiancy 61% Pix HAR /WTM 12:07/38.0* Elidiancy 61% Pix HAR /WTM 12:07/38.0* Elidiancy 61% Pix HAR			
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LED Vesta TW 6mm DP FWHM / FWTM 11.0° / 21.0° Efficiency 59 % Peak intensity 9.9 cd/lm LEDs/each optic 1 Light colour White	
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Required components:	
C16142_HEKLA-SOCKET-K	
Bender Wirth: 504 Typ L8	
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bridgelux	
LED Vesta TW 9mm (9W) DP	1-2-1
FWHM / FWTM 15.0° / 28.0°	
Efficiency 54 %	
Peak intensity 5.1 cd/lm	
LEDs/each optic 1	$\wedge \times$
Light colour White	X
Required components:	40
C16142_HEKLA-SOCKET-K	
Bender Wirth: 489 Typ I 8	D
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Bender Wirth: 489 Typ L8	<u> </u>
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CITIZEN LED CLL02x/CLU02x (LES10)	K.
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CITIZEN LED CLL02x/CLU02x (LES10) FWHM / FWTM 16.0° / 29.0° Efficiency 63 % Peak intensity 5.6 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C CITIZEN	
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CITIZEN LED CLL02x/CLU02x (LES10) FWHM / FWTM 16.0° / 29.0° Efficiency 63 % Peak intensity 5.6 cd/m LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C CITIZEN ED LED CLU700/701/702/703 FWHM / FWTM 11.0° / 21.0°	
CUTUZEN LED CLL02x/CLU02x (LES10) FWHM / FWTM 16.0° / 29.0° Efficiency 63 % Peak intensity 5.6 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C F15255_HEKLA-SOCKET-C Image: CLU700/701/702/703 EVHM / FWTM 11.0° / 21.0° Efficiency 67 %	
CUTUZEN LED CLL02x/CLU02x (LES10) FWHM / FWTM 16.0° / 29.0° Efficiency 63 % Peak intensity 5.6 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C CUTUZEN LED CLU700/701/702/703 FWHM / FWTM 11.0° / 21.0° Efficiency 67 % Peak intensity 11.8 cd/lm LEDs/each optic 1	
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LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	CLU710/711 14.0° / 27.0° 62 % 6.4 cd/lm 1 White nts:	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLU7A2/7A3 9.0° / 18.0° 72 % 18.5 cd/lm 1 White	
F15255_HEKLA	-SOCKET-C	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU7B2 8.0° / 17.0° 71 % 20 cd/lm 1 White nts:	
CREECEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone E15256 HEKLA		
F15256_HEKLA		



LED	CMT14xx		
FWHM / FWTM	16.0° / 30.0°		
Efficiency	42 %		
Peak intensity	3.6 cd/lm		
LEDs/each optic	1		\times / 7^{μ} \times \times
Light colour	White		
Required compone	ents:		
F15255_HEKLA	A-SOCKET-C		X X
			s
LED	CXA/B 13xx		
FWHM / FWTM	12.0° / 23.0°		
Efficiency	68 %		en X / / / / / / / / / / ///// / ////////
Peak intensity	10.6 cd/lm		$ \times / / \wedge \times $
LEDs/each optic	1		
Light colour	White		6° /
Required compone			
F15956_HEKLA	A-SOCKET-J		
			1 The N
			/ / Y / *
			1.7
LED	CXA/B 15xx		
FWHM / FWTM	15.0° / 28.0°		
Efficiency	65 %		XINK
Peak intensity	6.5 cd/lm		
LEDs/each optic	1		
Light colour	White		pr / / /
Required compone			
F15256_HEKLA			
			× 7
	EDC		
			···
LED	LUXEON CoB 1202HD		
FWHM / FWTM	12.0° / 23.0°		
Efficiency	68 %		
Peak intensity	10.1 cd/lm		$ \times / / \times \times $
LEDs/each optic	1 W/bita		
Light colour	White		
Required compone			
F15848_HEKLA	A-SUUKET-G		
			V 7-V- V
L			



LUMILEDS ED LUXEON CoB 1202s EWHM / FWTM 12.0° / 22.0° Efficiency 69 % Peak intensity 11.4 cd/lm EDs/each optic 1 Light colour White Required components: ************************************
ED LUXEON CoB 1202s FWHM / FWTM 12.0° / 22.0° Efficiency 69 % Peak intensity 11.4 cd/lm LEDs/each optic 1 Light colour White Required components: F15848_HEKLA-SOCKET-G F15848_HEKLA-SOCKET-G Image: Colour of the colo
EWHM / FWTM 12.0° / 22.0° Efficiency 69 % Peak intensity 11.4 cd/lm LEDs/each optic 1 Light colour White Required components: F15848_HEKLA-SOCKET-G ED LUXEON CX Plus CoB - HD S01H4 FWHM / FWTM 10.0° / 19.0° Efficiency 64 % Peak intensity 14 cd/lm LEDs/each optic 1 Light colour White Required components:
Peak intensity 11.4 cd/lm EDs/each optic 1 Light colour White Required components: F15848_HEKLA-SOCKET-G CLUMILEDS ED LUXEON CX Plus CoB - HD S01H4 WHM / FWTM 10.0° / 19.0° Efficiency 64 % Peak intensity 14 cd/lm LEDs/each optic 1 Light colour White Required components:
LEDs/each optic 1 Light colour White Required components: F15848_HEKLA-SOCKET-G F15848_HEK
LEDs/each optic 1 Light colour White Required components: F15848_HEKLA-SOCKET-G
Light colour White Required components: F15848_HEKLA-SOCKET-G F15
Required components: F15848_HEKLA-SOCKET-G Image: Components:
F15848_HEKLA-SOCKET-G
LED LUXEON CX Plus CoB - HD S01H4 FWHM / FWTM 10.0° / 19.0° Efficiency 64 % Peak intensity 14 cd/lm LEDs/each optic 1 Light colour White Required components: ************************************
LED LUXEON CX Plus CoB - HD S01H4 FWHM / FWTM 10.0° / 19.0° Efficiency 64 % Peak intensity 14 cd/lm LEDs/each optic 1 Light colour White Required components: ************************************
LED LUXEON CX Plus CoB - HD S01H4 FWHM / FWTM 10.0° / 19.0° Efficiency 64 % Peak intensity 14 cd/lm LEDs/each optic 1 Light colour White Required components: ************************************
LED LUXEON CX Plus CoB - HD S01H4 FWHM / FWTM 10.0° / 19.0° Efficiency 64 % Peak intensity 14 cd/lm LEDs/each optic 1 Light colour White Required components: ************************************
FWHM / FWTM 10.0° / 19.0° Efficiency 64 % Peak intensity 14 cd/lm LEDs/each optic 1 Light colour White Required components: ***
Efficiency 64 % Peak intensity 14 cd/lm LEDs/each optic 1 Light colour White Required components:
Peak intensity 14 cd/lm LEDs/each optic 1 Light colour White Required components:
LEDs/each optic 1 Light colour White Required components:
Light colour White Required components:
Required components:
S LUMILEDS
LED LUXEON CX Plus CoB - HD S02H6
FWHM / FWTM 10.0° / 19.0°
Efficiency 64 %
Peak intensity 12.7 cd/lm
EDs/each optic 1
Light colour White
Required components:
Bender Wirth: 634c Hekla
\times \times \times
BLUMILEDS
S LUMILEDS
LUMILEDS LUXEON CX Plus CoB - HD S04H9
LUMILEDS LED LUXEON CX Plus CoB - HD S04H9 FWHM / FWTM 14.0° / 26.0°
LUMILEDS LED LUXEON CX Plus CoB - HD S04H9 EWHM / FWTM 14.0° / 26.0° Efficiency 60 %
LUMILEDS LED LUXEON CX Plus CoB - HD S04H9 EWHM / FWTM 14.0° / 26.0° Efficiency 60 % Peak intensity 6.2 cd/lm
LUMILEDS LED LUXEON CX Plus CoB - HD S04H9 EWHM / FWTM 14.0° / 26.0° Efficiency 60 % Peak intensity 6.2 cd/lm LEDs/each optic 1
LUMILEDS LED LUXEON CX Plus CoB - HD S04H9 FWHM / FWTM 14.0° / 26.0° Efficiency 60 % Peak intensity 6.2 cd/lm LEDs/each optic 1 Light colour White
LUMILEDS LED LUXEON CX Plus CoB - HD S04H9 FWHM / FWTM 14.0° / 26.0° Efficiency 60 % Peak intensity 6.2 cd/lm LEDs/each optic 1 Light colour White Required components: Image: Colour of the second
LUMILEDS LED LUXEON CX Plus CoB - HD S04H9 FWHM / FWTM 14.0° / 26.0° Efficiency 60 % Peak intensity 6.2 cd/lm LEDs/each optic 1 Light colour White
LUMILEDS LED LUXEON CX Plus CoB - HD S04H9 FWHM / FWTM 14.0° / 26.0° Efficiency 60 % Peak intensity 6.2 cd/lm LEDs/each optic 1 Light colour White Required components: Image: Colour of the second



C LUMIL	EDS	
LED	LUXEON CX Plus CoB M02 / M03 (Gen2)	
FWHM / FWTM	13.0° / 25.0°	
Efficiency	60 %	
Peak intensity	7.3 cd/lm	
LEDs/each optic	1	$X / T \land X$
Light colour	White	
Required componer	nts:	$\nabla / T + T \nabla /$
Bender Wirth: 64	1a Hekla	X/VX
	EDS	
LED	LUXEON CX Plus CoB S01 (Gen2)	
FWHM / FWTM	10.0° / 19.0°	
Efficiency	65 %	
Peak intensity	14.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required componer Bender Wirth: 63		
Dender Wirth. 03		
		25 P 12
	NUS	
LED	CXM-3	
LED FWHM / FWTM		
LED	CXM-3 9.0° / 17.0°	
LED FWHM / FWTM Efficiency	CXM-3 9.0° / 17.0° 72 %	
LED FWHM / FWTM Efficiency Peak intensity	CXM-3 9.0° / 17.0° 72 % 19.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CXM-3 9.0° / 17.0° 72 % 19.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CXM-3 9.0° / 17.0° 72 % 19.8 cd/lm 1 White tts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CXM-3 9.0° / 17.0° 72 % 19.8 cd/lm 1 White tts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CXM-3 9.0° / 17.0° 72 % 19.8 cd/lm 1 White tts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15255_HEKLA-	CXM-3 9.0° / 17.0° 72 % 19.8 cd/lm 1 White hts: SOCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15255_HEKLA-	CXM-3 9.0° / 17.0° 72 % 19.8 cd/lm 1 White tts: SOCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15255_HEKLA-	CXM-3 9.0° / 17.0° 72 % 19.8 cd/lm 1 White tts: SOCKET-C NUS CXM-4	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15255_HEKLA-	CXM-3 9.0° / 17.0° 72 % 19.8 cd/lm 1 White hts: SOCKET-C NUS CXM-4 10.0° / 19.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15255_HEKLA-	CXM-3 9.0° / 17.0° 72 % 19.8 cd/lm 1 White hts: SOCKET-C NUS CXM-4 10.0° / 19.0° 68 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15255_HEKLA-	CXM-3 9.0° / 17.0° 72 % 19.8 cd/lm 1 White hts: SOCKET-C NUS CXM-4 10.0° / 19.0° 68 % 14.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15255_HEKLA-	CXM-3 9.0° / 17.0° 72 % 19.8 cd/lm 1 White hts: SOCKET-C NUS CXM-4 10.0° / 19.0° 68 % 14.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15255_HEKLA-	CXM-3 9.0° / 17.0° 72 % 19.8 cd/lm 1 White hts: SOCKET-C NUS CXM-4 10.0° / 19.0° 68 % 14.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15255_HEKLA-	CXM-3 9.0° / 17.0° 72 % 19.8 cd/lm 1 White tts: SOCKET-C NUS CXM-4 10.0° / 19.0° 68 % 14.8 cd/lm 1 White tts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15255_HEKLA-	CXM-3 9.0° / 17.0° 72 % 19.8 cd/lm 1 White tts: SOCKET-C NUS CXM-4 10.0° / 19.0° 68 % 14.8 cd/lm 1 White tts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15255_HEKLA-	CXM-3 9.0° / 17.0° 72 % 19.8 cd/lm 1 White tts: SOCKET-C NUS CXM-4 10.0° / 19.0° 68 % 14.8 cd/lm 1 White tts:	



CLUM	NUS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CxM-9 (13.5x13.5) 15.0° / 29.0° 63 % 5.8 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15848_HEKLA	COB S-Type (LES 7) 13.0° / 24.0° 67 % 9.3 cd/lm 1 White nts:	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	Fortimo SLM L09 CoB 15.0° / 28.0° 64 % 6 cd/lm 1 White nts:	
SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15848_HEKLA	LC010C 11.0° / 22.0° 64 % 9.8 cd/lm 1 White nts:	



SAMS			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	LC010C G2 11.0° / 21.0° 67 % 12.6 cd/lm 1 White ents:		
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15848_HEKLA	LC020C 13.0° / 26.0° 64 % 7.1 cd/lm 1 White ents:		
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	LC020C G2 15.0° / 27.0° 63 % 6.3 cd/lm 1 White ents:		
TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	SLE G7 LES09 15.0° / 27.0° 66 % 6.5 cd/lm 1 White ents:		



TRIDON			×
LED	SLE G7 LES13		
FWHM / FWTM	20.0° / 37.0°		
Efficiency	56 %		
Peak intensity	3 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required componer			
F15858_HEKLA-	-SOCKET-H		
			No the second se
XICATC			•
LED	XOB 6 mm		
FWHM / FWTM	11.0° / 21.0°		
Efficiency	66 %		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Peak intensity	11.1 cd/lm		$\mathbf{X} \neq \mathbf{A} = \mathbf{X} \neq \mathbf{A}$
LEDs/each optic	1		$X \times X \times X$
Light colour	White		8 / 7 MT \ 30
Required componer	nts:		
F15255_HEKLA-	-SOCKET-C		
XICATO)		
LED	XOB 9.8 mm		
FWHM / FWTM	15.0° / 28.0°		
Efficiency	63 %		XIN
Peak intensity	6.1 cd/lm		X / / X
LEDs/each optic	1		V X VX N
Light colour	White		se / / / / / / / / / / / / / / / / / / /
Required componer	nts:		\times
I IJZJJ_HEKLA	-SOCKET-C		1 - And - CA
1 13233_HERLA	-SOCKET-C		K THTY
1 13233_HERLA	-SOCKET-C		XIV
XICATO)		
	XTM - 9mm LES		
XICATC LED FWHM / FWTM	XTM - 9mm LES 15.0° / 28.0°		
XICATC LED FWHM / FWTM Efficiency	XTM - 9mm LES 15.0° / 28.0° 60 %		
XICATC LED FWHM / FWTM Efficiency Peak intensity	XTM - 9mm LES 15.0° / 28.0° 60 % 5.8 cd/lm		
XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XTM - 9mm LES 15.0° / 28.0° 60 % 5.8 cd/lm 1		
XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XTM - 9mm LES 15.0° / 28.0° 60 % 5.8 cd/lm 1 White		
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XTM - 9mm LES 15.0° / 28.0° 60 % 5.8 cd/lm 1 White nts:		
XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XTM - 9mm LES 15.0° / 28.0° 60 % 5.8 cd/lm 1 White nts:		
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XTM - 9mm LES 15.0° / 28.0° 60 % 5.8 cd/lm 1 White nts:		



bridgelux.		1.71 A
LED	V10 Gen7	$A \rightarrow A$
FWHM / FWTM	16.0° / 30.0°	
Efficiency	60 %	X/MMKNX
Peak intensity	5.7 cd/lm	
LEDs/each optic	1	
Light colour	White	12 / /
Required components:		
F15255_HEKLA-SOC	CKET-C	
		\times / \vee \times
bridgelux.		*
LED	V6 Gen6	
FWHM / FWTM	10.0° / 21.0°	
Efficiency	66 %	
Peak intensity	13 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
F15253_HEKLA-SOC	CKET-A	
		1 7-4-T V
bridgelux.		
bridgelux. LED	V8 Gen7	
	V8 Gen7 14.0° / 26.0°	
LED FWHM / FWTM		
LED FWHM / FWTM Efficiency	14.0° / 26.0°	
LED FWHM / FWTM Efficiency Peak intensity	14.0° / 26.0° 63 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	14.0° / 26.0° 63 % 7.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity	14.0° / 26.0° 63 % 7.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 26.0° 63 % 7.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	14.0° / 26.0° 63 % 7.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	14.0° / 26.0° 63 % 7.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	14.0° / 26.0° 63 % 7.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC	14.0° / 26.0° 63 % 7.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	14.0° / 26.0° 63 % 7.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC	14.0° / 26.0° 63 % 7.8 cd/lm 1 White CKET-A	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC	14.0° / 26.0° 63 % 7.8 cd/lm 1 White CKET-A VERO10 15.0° / 27.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC	14.0° / 26.0° 63 % 7.8 cd/lm 1 White CKET-A VERO10 15.0° / 27.0° 61 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC	14.0° / 26.0° 63 % 7.8 cd/lm 1 White CKET-A VERO10 15.0° / 27.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC	14.0° / 26.0° 63 % 7.8 cd/lm 1 White CKET-A VERO10 15.0° / 27.0° 61 % 6.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC Dridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 26.0° 63 % 7.8 cd/lm 1 White CKET-A VERO10 15.0° / 27.0° 61 % 6.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC Dridgeux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	14.0° / 26.0° 63 % 7.8 cd/lm 1 White CKET-A VERO10 15.0° / 27.0° 61 % 6.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC Dridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 26.0° 63 % 7.8 cd/lm 1 White CKET-A VERO10 15.0° / 27.0° 61 % 6.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC Dridgeux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	14.0° / 26.0° 63 % 7.8 cd/lm 1 White CKET-A VERO10 15.0° / 27.0° 61 % 6.7 cd/lm 1 White	



		6.7 Jan
LED	CHA0304	
FWHM / FWTM	8.0° / 15.0°	11 A A A A
Efficiency	65 %	XINAX
Peak intensity	24.3 cd/lm	
LEDs/each optic	1	
Light colour	White	X / T
Required components:	white	
F17435_HEKLA-G2-		
	-	
		2" <u>an</u> <u>a</u> <u>a</u>
		w
LED	CHA0612	
FWHM / FWTM	10.0° / 20.0°	
Efficiency	61 %	XIN
Peak intensity	12.1 cd/lm	$\sum X / A \setminus X $
LEDs/each optic	1	
Light colour	White	\times / / \wedge \times
Required components:		$\times \times $
F17435_HEKLA-G2-0	2	
	CHA0825	
	CHA0825 14.0° / 26.0°	
LED		
LED FWHM / FWTM	14.0° / 26.0°	
LED FWHM / FWTM Efficiency	14.0° / 26.0° 57 %	
LED FWHM / FWTM Efficiency Peak intensity	14.0° / 26.0° 57 % 6.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	14.0° / 26.0° 57 % 6.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 26.0° 57 % 6.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	14.0° / 26.0° 57 % 6.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	14.0° / 26.0° 57 % 6.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-I	14.0° / 26.0° 57 % 6.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-I	14.0° / 26.0° 57 % 6.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-I	14.0° / 26.0° 57 % 6.8 cd/lm 1 White S LUXEON CoB 1202/1203	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-I	14.0° / 26.0° 57 % 6.8 cd/lm 1 White LUXEON CoB 1202/1203 14.0° / 28.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-I	14.0° / 26.0° 57 % 6.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-I	14.0° / 26.0° 57 % 6.8 cd/lm 1 White LUXEON CoB 1202/1203 14.0° / 28.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-I	14.0° / 26.0° 57 % 6.8 cd/lm 1 White VS LUXEON CoB 1202/1203 14.0° / 28.0° 61 % 6.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-I CONTINUE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 26.0° 57 % 6.8 cd/lm 1 White VS LUXEON CoB 1202/1203 14.0° / 28.0° 61 % 6.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-I CONTINUE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	14.0° / 26.0° 57 % 6.8 cd/lm 1 White VS LUXEON CoB 1202/1203 14.0° / 28.0° 61 % 6.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-I CONTINUE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 26.0° 57 % 6.8 cd/lm 1 White VS LUXEON CoB 1202/1203 14.0° / 28.0° 61 % 6.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-I CONTINUE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	14.0° / 26.0° 57 % 6.8 cd/lm 1 White VS LUXEON CoB 1202/1203 14.0° / 28.0° 61 % 6.4 cd/lm 1 White	



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LED	LUXEON CoB 1204HD	A LA
FWHM / FWTM	16.0° / 28.0°	
Efficiency	61 %	
Peak intensity	6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		\times
F15858_HEKLA-SO	CKET-H	
	us	6.7 M
LED	CxM-6 (13.5x13.5)	A A
FWHM / FWTM	12.0° / 23.0°	
Efficiency	65 %	
Peak intensity	10.6 cd/lm	$\sim 1/1000$
LEDs/each optic	1	
Light colour	White	9° /
Required components:		
F15255_HEKLA-SO	CKET-C	X X
		1 tot 1
ØNICHIA		1. IT
LED		
	COB S-Type (LES 6)	
EED FWHM / FWTM	COB S-Type (LES 6) 13.0° / 25.0°	
FWHM / FWTM Efficiency	13.0° / 25.0°	
FWHM / FWTM Efficiency Peak intensity	13.0° / 25.0° 63 %	
FWHM / FWTM Efficiency	13.0° / 25.0° 63 % 8.7 cd/lm	21 22 22 22 22 22 22 22 22 22 22 22 22 2
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	13.0° / 25.0° 63 % 8.7 cd/lm 1	25
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	13.0° / 25.0° 63 % 8.7 cd/lm 1 White	22
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	13.0° / 25.0° 63 % 8.7 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	13.0° / 25.0° 63 % 8.7 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SO	13.0° / 25.0° 63 % 8.7 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SO	13.0° / 25.0° 63 % 8.7 cd/lm 1 White CKET-G	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SO	13.0° / 25.0° 63 % 8.7 cd/lm 1 White CKET-G	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SO	13.0° / 25.0° 63 % 8.7 cd/lm 1 White CKET-G Soleriq S9 15.0° / 28.0°	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SO	13.0° / 25.0° 63 % 8.7 cd/lm 1 White CKET-G Soleriq S9 15.0° / 28.0° 59 %	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SO	13.0° / 25.0° 63 % 8.7 cd/lm 1 White CKET-G Soleriq S9 15.0° / 28.0°	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SO OSERAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	13.0° / 25.0° 63 % 8.7 cd/lm 1 White CKET-G Soleriq S9 15.0° / 28.0° 59 % 5.8 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SO Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	13.0° / 25.0° 63 % 8.7 cd/lm 1 White CKET-G Soleriq S9 15.0° / 28.0° 59 % 5.8 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SO Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	13.0° / 25.0° 63 % 8.7 cd/lm 1 White CKET-G Soleriq S9 15.0° / 28.0° 59 % 5.8 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SO Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	13.0° / 25.0° 63 % 8.7 cd/lm 1 White CKET-G Soleriq S9 15.0° / 28.0° 59 % 5.8 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SO OBSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	13.0° / 25.0° 63 % 8.7 cd/lm 1 White CKET-G Soleriq S9 15.0° / 28.0° 59 % 5.8 cd/lm 1 White	

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PHILIPS		E.*
LED	Fortimo SLM L06 CoB	
FWHM / FWTM	10.0° / 22.0°	
Efficiency	53 %	
Peak intensity	9.6 cd/lm	$\sum / / \sum $
LEDs/each optic	1	
Light colour	White	* A
Required components:		
F15858_HEKLA-SO	KET-H	
SAMSUN	IG	
LED	LC003D / LC006D / LC009D / LC013D	
FWHM / FWTM	16.0° / 30.0°	
Efficiency	58 %	
Peak intensity	5.3 cd/lm	
LEDs/each optic	1	
Light colour	White	14" / - Min
Required components:		$K \neq (1 \land X)$
F17435_HEKLA-G2-	2	X X
		1 And A
0.0.0.0.0.0.0		1 25 e W
SAMSUN	16	1.7
		Δ
LED	LC003D / LC006D / LC009D / LC013D	
FWHM / FWTM	LC003D / LC006D / LC009D / LC013D	
FWHM / FWTM Efficiency Peak intensity	LC003D / LC006D / LC009D / LC013D 16.0° / 30.0°	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC003D / LC006D / LC009D / LC013D 16.0° / 30.0° 58 % 5.2 cd/lm 1	21 A A A A A A A A A A A A A A A A A A A
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC003D / LC006D / LC009D / LC013D 16.0° / 30.0° 58 % 5.2 cd/lm	2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LC003D / LC006D / LC009D / LC013D 16.0° / 30.0° 58 % 5.2 cd/lm 1 White	22 23 24 25 26 20 20 20 20 20 20 20 20 20 20 20 20 20
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC003D / LC006D / LC009D / LC013D 16.0° / 30.0° 58 % 5.2 cd/lm 1 White	77 17 17 17 17 17 17 17 17 17 17 17 17 1
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LC003D / LC006D / LC009D / LC013D 16.0° / 30.0° 58 % 5.2 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LC003D / LC006D / LC009D / LC013D 16.0° / 30.0° 58 % 5.2 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17435_HEKLA-G2-	LC003D / LC006D / LC009D / LC013D 16.0° / 30.0° 58 % 5.2 cd/lm 1 White	X
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17435_HEKLA-G2-	LC003D / LC006D / LC009D / LC013D 16.0° / 30.0° 58 % 5.2 cd/lm 1 White	X
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17435_HEKLA-G2-	LC003D / LC006D / LC009D / LC013D 16.0° / 30.0° 58 % 5.2 cd/lm 1 White C C C C C C C C C C C C C	X
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17435_HEKLA-G2-	LC003D / LC006D / LC009D / LC013D 16.0° / 30.0° 58 % 5.2 cd/lm 1 White C C LC010C 12.0° / 22.0°	X
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17435_HEKLA-G2- SAMSUN LED FWHM / FWTM Efficiency	LC003D / LC006D / LC009D / LC013D 16.0° / 30.0° 58 % 5.2 cd/lm 1 White C C LC010C 12.0° / 22.0° 64 %	X
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17435_HEKLA-G2- SAMSUN LED FWHM / FWTM Efficiency Peak intensity	LC003D / LC006D / LC009D / LC013D 16.0° / 30.0° 58 % 5.2 cd/lm 1 White C C C C C C C C C C C C C	XXX
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17435_HEKLA-G2- SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC003D / LC006D / LC009D / LC013D 16.0° / 30.0° 58 % 5.2 cd/lm 1 White C C LC010C 12.0° / 22.0° 64 % 11.2 cd/lm 1	XXX
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17435_HEKLA-G2- SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC003D / LC006D / LC009D / LC013D 16.0° / 30.0° 58 % 5.2 cd/lm 1 White C C C C C C C C C C C C C	XXX
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17435_HEKLA-G2- SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LC003D / LC006D / LC013D 16.0° / 30.0° 58 % 5.2 cd/lm 1 White C C C C C C C C C C C C C	XXX
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17435_HEKLA-G2- SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC003D / LC006D / LC013D 16.0° / 30.0° 58 % 5.2 cd/lm 1 White C C C C C C C C C C C C C	X
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17435_HEKLA-G2- SAMSSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LC003D / LC006D / LC013D 16.0° / 30.0° 58 % 5.2 cd/lm 1 White C C C C C C C C C C C C C	X

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SAMSU	NG	5.X
LED	LH231B	
FWHM / FWTM	15.0° / 28.0°	
Efficiency	58 %	
Peak intensity	6 cd/lm	
LEDs/each optic	7	
Light colour	White	u de la companya
Required components	S:	\times
F15255_HEKLA-S		
SEQUE SEMICONDUCTOR		6.5 A
LED	MJT COB LES 6	
FWHM / FWTM	11.0° / 21.0°	
Efficiency	65 %	
Peak intensity	12.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components	s:	
F17435_HEKLA-G	62-C	
		1 Touton a
SEGUE		
SEOUL SEMICONDUCTOR		L.Y
LED	MJT COB LES 9.8	
FWHM / FWTM	16.0° / 30.0°	
Efficiency	60 %	17 Mar
Peak intensity	5.3 cd/lm	
LEDs/each optic	1	
Light colour	White	9 / <u>20</u> / 31
Required components		
F17435_HEKLA-G	2-C	\times $(\land $



PRODUCT DATASHEET CP16106_CARMEN-50-RS-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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