

PRODUCT DATASHEET CP16601_CARMEN-SS-C

CARMEN-SS-C

~12° smooth spot beam. Assembly with holder C compatible with LEDiL HEKLA. Updated version with good colour mixing capability.

SPECIFICATION:

Dimensions	Ø 69.5 mm
Height	41.5 mm
Fastening	socket
ROHS compliant	yes 🛈



Colour

clear black Finish

MATERIALS:

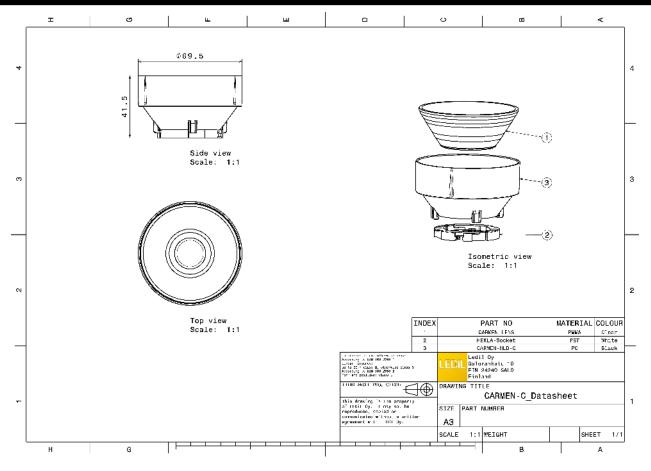
Component
CARMEN-SS
CARMEN-HLD-C

Туре	Material
Single lens	PMMA
Holder	PC

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CP16601_CARMEN-SS-C	Single lens	150	150	15	8.4
» Box size: 480 x 280 x 300 mm					

PRODUCT DATASHEET CP16601_CARMEN-SS-C



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



bridgelux.			1
LED	Vesta TW 6mm DP		
FWHM / FWTM	11.0° / 21.0°		
Efficiency	60 %		
Peak intensity	11 cd/lm		$\setminus \setminus $
LEDs/each optic	1		
Light colour	White	y: film	+-1 >
Required compone	ents:		
C16142_HEKLA			X
Bender Wirth: 5	04 Typ L8		-1 \
		\prec \downarrow \checkmark	
bridgelux.		8.7	
LED	Vesta TW 9mm (9W) DP		
FWHM / FWTM	13.0° / 25.0°	27 T A	AT.
Efficiency	58 %		
Peak intensity	7 cd/lm		$\langle \rangle \times \rangle$
LEDs/each optic	1		
Light colour	White		
Required compone			-1-1
C16142_HEKLA			
Bender Wirth: 4			
Dender Wittil. 4	09 TYP L0		
			10 ×
CITIZE	'N	1.7 () 1.7	1
LED	CLL02x/CLU02x (LES10)		1
FWHM / FWTM	13.0° / 25.0°	33	1
Efficiency	61 %		
		57	
Peak intensity	8 cd/lm		
Peak intensity LEDs/each optic	8 cd/lm 1		\Box
Peak intensity LEDs/each optic Light colour	8 cd/lm 1 White		\square
Peak intensity LEDs/each optic Light colour Required compone	8 cd/lm 1 White ents:		D>
Peak intensity LEDs/each optic Light colour	8 cd/lm 1 White ents:		P
Peak intensity LEDs/each optic Light colour Required compone	8 cd/lm 1 White ents:		R
Peak intensity LEDs/each optic Light colour Required compone	8 cd/lm 1 White ents:		
Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	8 cd/lm 1 White ents: A-SOCKET-C		
Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	8 cd/lm 1 White ents: A-SOCKET-C		
Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	8 cd/lm 1 White ents: A-SOCKET-C CLU700/701/702/703		
Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM	8 cd/lm 1 White ents: A-SOCKET-C CLU700/701/702/703 10.0° / 20.0°		
Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency	8 cd/lm 1 White ents: A-SOCKET-C CLU700/701/702/703 10.0° / 20.0° 64 %		
Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity	8 cd/lm 1 White ents: A-SOCKET-C CLU700/701/702/703 10.0° / 20.0° 64 % 13.9 cd/lm		
Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	8 cd/lm 1 White ents: A-SOCKET-C CLU700/701/702/703 10.0° / 20.0° 64 % 13.9 cd/lm 1		
Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	8 cd/lm 1 White ents: A-SOCKET-C CN CLU700/701/702/703 10.0° / 20.0° 64 % 13.9 cd/lm 1 White		
Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CCITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	8 cd/lm 1 White ents: A-SOCKET-C CLU700/701/702/703 10.0° / 20.0° 64 % 13.9 cd/lm 1 White ents:		
Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	8 cd/lm 1 White ents: A-SOCKET-C CLU700/701/702/703 10.0° / 20.0° 64 % 13.9 cd/lm 1 White ents:		
Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	8 cd/lm 1 White ents: A-SOCKET-C CLU700/701/702/703 10.0° / 20.0° 64 % 13.9 cd/lm 1 White ents:		
Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	8 cd/lm 1 White ents: A-SOCKET-C CLU700/701/702/703 10.0° / 20.0° 64 % 13.9 cd/lm 1 White ents:		



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LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	CLU710/711 12.0° / 24.0° 60 % 8.8 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU7B2 10.0° / 18.0° 66 % 15.6 cd/lm 1 White ents:	
CREE CLE	CXA/B 13xx 11.0° / 20.0° 66 % 13.8 cd/lm 1 White ents:	
Control Contro	LUXEON CX Plus CoB L08 (Gen2) 19.0° / 32.0° 57 % 4 cd/lm 1 White ents:	



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LED	LUXEON CX Plus CoB - HD S01H4		
FWHM / FWTM	11.0° / 19.0°		
Efficiency	65 %		
Peak intensity	14.6 cd/lm		$\Lambda / \mathcal{A} / \mathcal{A} / \mathcal{A}$
LEDs/each optic	1		X / T A X X
Light colour	White		
Required compone	nts:		
Bender Wirth: 63	34c Hekla		
			VTHAN
	EDS		
LED	LUXEON CX Plus CoB - HD S01H6 / HD S02H6		
FWHM / FWTM	11.0° / 19.0°		
Efficiency	64 %		
Peak intensity	14.2 cd/lm		
LEDs/each optic	1		
Light colour	White		6°
Required compone			
Bender Wirth: 63			
			\times / \vee \rightarrow
UMIL	EDS		s.~
	LUXEON CX Plus CoB - HD S04H9	_	······································
LED	LUXEON CX Plus CoB - HD S04H9		
LED FWHM / FWTM	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0°		
LED FWHM / FWTM Efficiency	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 %		
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 % 8.9 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 % 8.9 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 % 8.9 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 % 8.9 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 % 8.9 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 S04H9 13.0° / 24.0° 61 % 8.9 cd/lm 1 White nts: 84c Hekla		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 % 8.9 cd/lm 1 White nts: 84c Hekla		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 % 8.9 cd/lm 1 White nts: 84c Hekla EDS LUXEON CX Plus CoB L04 / L05 (Gen2)		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 % 8.9 cd/lm 1 White nts: 84c Hekla EDS LUXEON CX Plus CoB L04 / L05 (Gen2) 16.0° / 27.0°		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 % 8.9 cd/lm 1 White nts: 34c Hekla EDS LUXEON CX Plus CoB L04 / L05 (Gen2) 16.0° / 27.0° 60 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 Model Compone Bender Wirth: 63 Compone Bender Wirth: 63 Compone FWHM / FWTM	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 % 8.9 cd/lm 1 White nts: 34c Hekla EDS LUXEON CX Plus CoB L04 / L05 (Gen2) 16.0° / 27.0° 60 % 6.1 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 Ender Wirth: 63 UNIL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 % 8.9 cd/lm 1 White nts: 34c Hekla EDS LUXEON CX Plus CoB L04 / L05 (Gen2) 16.0° / 27.0° 60 % 6.1 cd/lm 1		
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 S04H9 13.0° / 24.0° 61 % 8.9 cd/lm 1 White nts: 34c Hekla EDS LUXEON CX Plus CoB L04 / L05 (Gen2) 16.0° / 27.0° 60 % 6.1 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 COMPARENTION LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 % 8.9 cd/lm 1 White nts: 34c Hekla EDS LUXEON CX Plus CoB L04 / L05 (Gen2) 16.0° / 27.0° 60 % 6.1 cd/lm 1 White nts:		
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 S04H9 13.0° / 24.0° 61 % 8.9 cd/lm 1 White nts: 34c Hekla EDS LUXEON CX Plus CoB L04 / L05 (Gen2) 16.0° / 27.0° 60 % 6.1 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 COMPARENTION LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 % 8.9 cd/lm 1 White nts: 34c Hekla EDS LUXEON CX Plus CoB L04 / L05 (Gen2) 16.0° / 27.0° 60 % 6.1 cd/lm 1 White nts:		



	EDS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB M02 / M03 (Gen2) 12.0° / 23.0° 62 % 9.8 cd/lm 1	
Light colour Required compone Bender Wirth: 6		
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB S01 (Gen2) 10.0° / 19.0° 65 % 14.8 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) 13.0° / 23.0° 60 % 8.9 cd/lm 1 White ents: A-SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	CxM-11 (19x19) 16.0° / 29.0° 58 % 5.3 cd/lm 1 White ents:	



LED	CXM-3		
FWHM / FWTM	10.0° / 18.0°		
Efficiency	66 % 15.2 cd/lm		
Peak intensity			X/T = T X
LEDs/each optic	1		$Z \times I \cup X \times \Sigma$
Light colour	White		N/ / ~ - t \
Required compone F15255_HEKLA			
			VTHTV
			10 10 10 10 10 10 10 10 10 10 10 10 10 1
CLUM	INUS		
LED	CXM-4		-talate
FWHM / FWTM	10.0° / 19.0°		
Efficiency	63 %		
Peak intensity	13.4 cd/lm		
LEDs/each optic	1		$X / T^{\bullet} X X$
Light colour	White		* X X *
Required compone			
F15255_HEKLA	-SOCKET-C		\times 1 \times \times
ØNICHI			a
	NJCWL024Z-V1MT: COB L-Type Tunable White	_	
LED	NJCWL024Z-V1MT: COB L-Type Tunable White		
LED FWHM / FWTM	NJCWL024Z-V1MT: COB L-Type Tunable White 11.0° / 21.0°		
LED FWHM / FWTM Efficiency	NJCWL024Z-V1MT: COB L-Type Tunable White 11.0° / 21.0° 58 %		
LED FWHM / FWTM Efficiency Peak intensity	NJCWL024Z-V1MT: COB L-Type Tunable White 11.0° / 21.0° 58 % 11 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NJCWL024Z-V1MT: COB L-Type Tunable White 11.0° / 21.0° 58 % 11 cd/lm 1 White ints:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	NJCWL024Z-V1MT: COB L-Type Tunable White 11.0° / 21.0° 58 % 11 cd/lm 1 White white -SOCKET-K		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NJCWL024Z-V1MT: COB L-Type Tunable White 11.0° / 21.0° 58 % 11 cd/lm 1 White white -SOCKET-K		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	NJCWL024Z-V1MT: COB L-Type Tunable White 11.0° / 21.0° 58 % 11 cd/lm 1 White white -SOCKET-K		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45	NJCWL024Z-V1MT: COB L-Type Tunable White 11.0° / 21.0° 58 % 11 cd/lm 1 White white white SOCKET-K 97 Typ L8		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45	NJCWL024Z-V1MT: COB L-Type Tunable White 11.0° / 21.0° 58 % 11 cd/lm 1 White white white NJCWL024Z-V1MT: COB L-Type Tunable White 1 Comparison Comparis		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45	NJCWL024Z-V1MT: COB L-Type Tunable White 11.0° / 21.0° 58 % 11 cd/lm 1 White Ints: INSOCKET-K 97 Typ L8 XOB 6 mm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45 XICATC LED FWHM / FWTM	NJCWL024Z-V1MT: COB L-Type Tunable White 11.0° / 21.0° 58 % 11 cd/lm 1 White white white NJCWL024Z-V1MT: COB L-Type Tunable White 1 Comparison Comparis		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 49 XICATC LED FWHM / FWTM Efficiency	NJCWL024Z-V1MT: COB L-Type Tunable White 11.0° / 21.0° 58 % 11 cd/lm 1 White Ints: SOCKET-K 97 Typ L8 XOB 6 mm 10.0° / 20.0° 62 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 43 XICATC LED FWHM / FWTM Efficiency Peak intensity	NJCWL024Z-V1MT: COB L-Type Tunable White 11.0° / 21.0° 58 % 11 cd/lm 1 White Ints: -SOCKET-K 97 Typ L8 XOB 6 mm 10.0° / 20.0°		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 49 XICATC LED FWHM / FWTM Efficiency	NJCWL024Z-V1MT: COB L-Type Tunable White 11.0° / 21.0° 58 % 11 cd/lm 1 White Ints: -SOCKET-K 97 Typ L8 XOB 6 mm 10.0° / 20.0° 62 % 12.5 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 49 XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NJCWL024Z-V1MT: COB L-Type Tunable White 11.0° / 21.0° 58 % 11 cd/lm 1 White white NSOCKET-K 97 Typ L8 XOB 6 mm 10.0° / 20.0° 62 % 12.5 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4S XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NJCWL024Z-V1MT: COB L-Type Tunable White 11.0° / 21.0° 58 % 11 cd/lm 1 White white SOCKET-K 97 Typ L8 XOB 6 mm 10.0° / 20.0° 62 % 12.5 cd/lm 1 White ints:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4S XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NJCWL024Z-V1MT: COB L-Type Tunable White 11.0° / 21.0° 58 % 11 cd/lm 1 White white SOCKET-K 97 Typ L8 XOB 6 mm 10.0° / 20.0° 62 % 12.5 cd/lm 1 White ints:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4S XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NJCWL024Z-V1MT: COB L-Type Tunable White 11.0° / 21.0° 58 % 11 cd/lm 1 White white SOCKET-K 97 Typ L8 XOB 6 mm 10.0° / 20.0° 62 % 12.5 cd/lm 1 White ints:		



XICATO)		101	A **
LED	XOB 9.8 mm		25	1 /
FWHM / FWTM	13.0° / 24.0°			1 A
Efficiency	60 %			
Peak intensity	8.2 cd/lm			•h~\ \ ``
LEDs/each optic	1			
Light colour	White		× / / /	
Required compone	ents:			1 X
F15255_HEKLA	A-SOCKET-C		The second se	
			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	e 'w



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LED	VERO13			have a
FWHM / FWTM	16.0° / 34.0°		21	1 1
Efficiency	65 %			
Peak intensity	4.6 cd/lm		K / / 7	
LEDs/each optic	1		~ 1.1	
Light colour	White			
Required components				
C16142_HEKLA-S				
			1°	
CITIZEN	J		£7	*
			1	
	CLL02x/CLU02x (LES10)		25-1-1	Ate
FWHM / FWTM	14.0° / 26.0°		XON	MXX/
Efficiency	45 %		$< \times / /$	XX
Peak intensity	6.8 cd/lm		N 7-4.	
LEDs/each optic	1		$\Delta / /$	
Light colour	White			
Required components			N/ M	
F15859_HEKLA-S			1 1 1	$ \rangle \times$
C16752_CARMEN	-70-SHD		1	F-T-V
				w w
OTTATA	T			
ICITIZEN			a.v. 170	
LED	CLU700/701/702/703			
LED FWHM / FWTM	CLU700/701/702/703 10.0° / 19.0°			H.
LED FWHM / FWTM Efficiency	CLU700/701/702/703 10.0° / 19.0° 51 %			at the second se
LED FWHM / FWTM Efficiency Peak intensity	CLU700/701/702/703 10.0° / 19.0° 51 % 14.2 cd/lm			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLU700/701/702/703 10.0° / 19.0° 51 % 14.2 cd/lm 1			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLU700/701/702/703 10.0° / 19.0° 51 % 14.2 cd/lm 1 White			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	CLU700/701/702/703 10.0° / 19.0° 51 % 14.2 cd/lm 1 White			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15255_HEKLA-St	CLU700/701/702/703 10.0° / 19.0° 51 % 14.2 cd/lm 1 White SCKET-C			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	CLU700/701/702/703 10.0° / 19.0° 51 % 14.2 cd/lm 1 White SCKET-C			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15255_HEKLA-St	CLU700/701/702/703 10.0° / 19.0° 51 % 14.2 cd/lm 1 White SCKET-C			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15255_HEKLA-St C16752_CARMEN	CLU700/701/702/703 10.0° / 19.0° 51 % 14.2 cd/lm 1 White SCKET-C -70-SHD			2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15255_HEKLA-St C16752_CARMEN	CLU700/701/702/703 10.0° / 19.0° 51 % 14.2 cd/lm 1 White SCKET-C -70-SHD			2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15255_HEKLA-St C16752_CARMEN CITTIZEN LED	CLU700/701/702/703 10.0° / 19.0° 51 % 14.2 cd/lm 1 White S: DCKET-C -70-SHD CLU712/713			2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15255_HEKLA-St C16752_CARMEN CITTIZEN LED FWHM / FWTM	CLU700/701/702/703 10.0° / 19.0° 51 % 14.2 cd/lm 1 White S: DCKET-C -70-SHD			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15255_HEKLA-St C16752_CARMEN CITTIZEN LED FWHM / FWTM Efficiency	CLU700/701/702/703 10.0° / 19.0° 51 % 14.2 cd/lm 1 White SCOCKET-C -70-SHD CLU712/713 12.0° / 24.0° 65 %			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15255_HEKLA-St C16752_CARMEN CI6752_CARMEN EFUTIZED FWHM / FWTM Efficiency Peak intensity	CLU700/701/702/703 10.0° / 19.0° 51 % 14.2 cd/lm 1 White SCOCKET-C -70-SHD CLU712/713 12.0° / 24.0° 65 % 9.8 cd/lm			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15255_HEKLA-SI C16752_CARMEN C16752_CARMEN EFICIENCY FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLU700/701/702/703 10.0° / 19.0° 51 % 14.2 cd/lm 1 White SCOCKET-C -70-SHD CLU712/713 12.0° / 24.0° 65 % 9.8 cd/lm 1			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15255_HEKLA-SI C16752_CARMEN C16752_CARMEN Efficiency Peak intensity LEDs/each optic Light colour	CLU700/701/702/703 10.0° / 19.0° 51 % 14.2 cd/lm 1 White SCOCKET-C -70-SHD CLU712/713 12.0° / 24.0° 65 % 9.8 cd/lm 1 White			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15255_HEKLA-St C16752_CARMEN C16752_CARMEN Efficiency Peak intensity LEDs/each optic Light colour Required components	CLU700/701/702/703 10.0° / 19.0° 51 % 14.2 cd/lm 1 White CCKET-C -70-SHD CLU712/713 12.0° / 24.0° 65 % 9.8 cd/lm 1 White ::			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15255_HEKLA-SI C16752_CARMEN C16752_CARMEN Efficiency Peak intensity LEDs/each optic Light colour	CLU700/701/702/703 10.0° / 19.0° 51 % 14.2 cd/lm 1 White CCKET-C -70-SHD CLU712/713 12.0° / 24.0° 65 % 9.8 cd/lm 1 White ::			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15255_HEKLA-St C16752_CARMEN C16752_CARMEN Efficiency Peak intensity LEDs/each optic Light colour Required components	CLU700/701/702/703 10.0° / 19.0° 51 % 14.2 cd/lm 1 White CCKET-C -70-SHD CLU712/713 12.0° / 24.0° 65 % 9.8 cd/lm 1 White ::			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15255_HEKLA-St C16752_CARMEN C16752_CARMEN Efficiency Peak intensity LEDs/each optic Light colour Required components	CLU700/701/702/703 10.0° / 19.0° 51 % 14.2 cd/lm 1 White CCKET-C -70-SHD CLU712/713 12.0° / 24.0° 65 % 9.8 cd/lm 1 White ::			



CITIZEN		e
LED FWHM / FWTM	CLU712/713 12.0° / 24.0°	and have
Efficiency	47 %	
Peak intensity	8.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
F15859_HEKLA-SO	CKET-I	1 /
C16752_CARMEN-7		
		K / Y > Y
		μ., Δ. 39
LED	CMA1825	
FWHM / FWTM	17.0° / 32.0°	
Efficiency	69 %	
Peak intensity	5.4 cd/lm	$\Gamma \sim / / \Lambda \setminus \sim$
LEDs/each optic	1	
Light colour	White	9° /
Required components:		
	0144040	Λ · · · ·
LED FWHM / FWTM	CMA1840 19.0° / 37.0°	15 A A
	66 %	$ \land \land $
Efficiency Peak intensity	4 cd/lm	1 ²⁷ 40.
LEDs/each optic	1	
Light colour	u White	
Required components:	White	
rtequired components.		
		A
LED	CXA/B 15xx	
FWHM / FWTM	12.0° / 23.0°	
Efficiency	68 %	
Efficiency Peak intensity	68 % 11.1 cd/lm	
Efficiency Peak intensity LEDs/each optic	68 % 11.1 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	68 % 11.1 cd/lm	12
Efficiency Peak intensity LEDs/each optic Light colour Required components:	68 % 11.1 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour	68 % 11.1 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	68 % 11.1 cd/lm 1 White	



ELUMIN	JS	······································
LED	CXM-4	
FWHM / FWTM	8.0° / 18.0°	
Efficiency	52 %	
Peak intensity	16.8 cd/lm	
LEDs/each optic	1	\times $/$ $/$ \times \times
Light colour	White	
Required components:		
F17435_HEKLA-G2-(
C16752_CARMEN-70)-SHD	
	PL	· · · · · · · · · · · · · · · · · · ·
LED	CxM-6 (13.5x13.5)	LAA A AL
FWHM / FWTM	10.0° / 20.0°	
Efficiency	68 %	
Peak intensity	14.7 cd/lm	\sim \sim \sim
LEDs/each optic	1	$\Delta / / \Delta $
Light colour	White	
Required components:		
F17435_HEKLA-G2-0		
		1 11 11 11 11 11 11 11 11 11 11 11 11 1
SAMSUN	0	× • • • •
LED	LC003D / LC006D / LC009D / LC013D	A A A
FWHM / FWTM	14.0° / 26.0°	XAM
Efficiency	62 %	
Peak intensity	7.5 cd/lm	
LEDs/each optic		
Light colour	White	
Required components:		\times
F17435_HEKLA-G2-0		/
		$> / \vee \vee \times$
SAMSUN	G	ы. А.
LED	LC003D / LC006D / LC009D / LC013D	
FWHM / FWTM	14.0° / 26.0°	
FWHM / FWTM	14.0° / 26.0° 63 %	
FWHM / FWTM Efficiency	63 %	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	63 % 8 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	63 % 8 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	63 % 8 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	63 % 8 cd/lm 1 White	

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SAMSU	NG	
LED	LC010C	
FWHM / FWTM	10.0° / 20.0°	
Efficiency	68 %	
Peak intensity	15 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required component	ts:	
F17435_HEKLA-0	32-C	



PRODUCT DATASHEET CP16601_CARMEN-SS-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.

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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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