

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 🛈



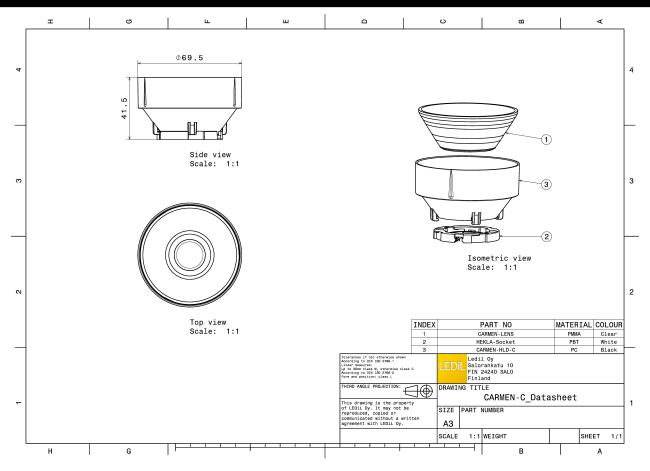
MATERIALS:

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

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					

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



FWHM/FVTM 11 0/710/° Efficiency 60 % Peak Intensity 60 % Required components: C16142_HEKLA-SOCKET-K Bender With: 504 Typ L8 bridgeLA Efficiency LED Vestal TW 9mm (9W) DP FWHM/FVTM 13 0° / 25.0° Efficiency 58 % Peak Intensity 7 cd/m LEDSeesh optic 1 Light colour White Required components: ************************************			
LED Vesta TW 6mn DP FYMH / FVTM 110 / 210° Efficiency 60 % Peak intensity 11 of dtm LEDseach optic 1 Light colour White Required components: C16142 HEKLASOCKET-K Bender With: 504 Typ L8	brídgelux.		94 ¹⁰
PWHA / FVITM 11.0 / 21.0° Efficiency 60 % Peak intensity EDB dead points: C16142_HEKLASOCKET-K Bender Wint: SO4 Typ L8 EDB Vesta TW Bmm (9W) DP EVMA / FVITM 13.0° / 25.0° Efficiency 58 % Peak intensity 7 cd/m LEDB dead point 1 Light colour White Required components: C16142_HEKLASOCKET-K Bender Wint: 489 Typ L8 Efficiency 61 % Peak intensity 8 cd/m LEDB dead point 1 Light colour White Required components: F15255_HEKLASOCKET-C Efficiency 64 % Peak intensity 8 cd/m LEDB cut200701/7027703 FVMA / FVITM 13.0° / 25.0° Efficiency 64 % Peak intensity 8 cd/m LEDB dead point 1 LEDB dead point 1 L	LED	Vesta TW 6mm DP	
Peak intensity 11 cd/im LED/each optic 1 LED/each optic 1 LED/each optic 1 LED/each optic 1 LED Vesta TV 9m (9V) DP FWH//FVTM 13.0*/25.0* Efficiency 58 % Peak intensity 7 cd/im LED/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender With: 489 Typ L8 CITIZEN LED CLL02vCLU02x (LES10) FWH//FVTM 13.0*/25.0* Efficiency 61 % Peak intensity 8 cd/im LED/each optic 1 LED/each optic 1 LED/e	FWHM / FWTM	11.0° / 21.0°	75
LEDPicach optic 1 Light colour White Required components: C15142_HEKLA-SOCKET-K Bender With: 504 Typ LB C15142_HEKLA-SOCKET-K Bender With: 430 Typ L3	Efficiency	60 %	
LEDPicach optic 1 Light colour White Required components: C15142_HEKLA-SOCKET-K Bender With: 504 Typ LB	Peak intensity	11 cd/lm	
Light colour White Required components: C16142_HEKLA-SOCKET-K Bender With: 504 Typ L8		1	
Required components: C 16142, HEKLA-SOCKET-K Bender Wirht: 504 Typ L3		White	er 600
CIGI42_HEKLA-SOCKET-K Bender Wirht: 504 Typ L3		ents:	
bridgetuX LED Vesta TW 9mm (9W) DP FWHM / FWTM 13.0 / 25.0° Efficiency 58 % Peak intensity 7 col/m LEDs/each optic 1 LUph colour White Required components: C16142_HEKLA-SOCKET+K Bender Wirth: 489 Typ L8 ED CLU02x/CLU02x (LES10) FWHM / FWTM 13.0 / 25.0° Efficiency 61 % Peak intensity 8 col/m LEDs/each optic 1 LUght colour White Required components: F15255_HEKLA-SOCKET-C ED CLU700/701/702/703 FWHM / FWTM 10.0 / 20.0° Efficiency 64 % Peak intensity 13.8 col/m LED CLU700/701/702/703 FWHM / FWTM 10.0 / 20.0° Efficiency 64 % Peak intensity 13.8 col/m LED CLU700/701/702/703 FWHM / FWTM 10.0 / 20.0° Efficiency 64 % Peak intensity 13.8 col/m LEDs/each optic 1 LUght colour White Required components: F15255_HEKLA-SOCKET-C			
LED Vesta TW 9mm (9W) DP FWHM /FWTM 13.0° /25.0° Efficiency 58 % Peak intensity 7 cd/lm LEDs/each optic 1 Light colour White Required components: CT6142_HEKLA-SOCKET-K Bender Wirth: 489 Typ L8 CCTTIZEN LED CLL02X/CLU02X (LES10) FWHM /FWTM 13.0° /25.0° Efficiency 61 % Peak intensity 8 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C CCTTIZEN LED CLU700/701/702/703 FWHM /FWTM 13.9 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C CCTTIZEN LED CLU700/701/702/703 FWHM /FWTM 13.9 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C	Bender Wirth: 5	04 Typ L8	
LED Vesta TW 9mm (9W) DP FWHM /FWTM 13.0° /25.0° Efficiency 58 % Peak intensity 7 cd/lm LEDs/each optic 1 Light colour White Required components: CT6142_HEKLA-SOCKET-K Bender Wirth: 489 Typ L8 CCTTIZEN LED CLL02X/CLU02X (LES10) FWHM /FWTM 13.0° /25.0° Efficiency 61 % Peak intensity 8 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C CCTTIZEN LED CLU700/701/702/703 FWHM /FWTM 13.9 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C CCTTIZEN LED CLU700/701/702/703 FWHM /FWTM 13.9 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C			30 ¹⁰ 12 ¹⁰ 0 ¹⁰ 12 ¹⁰
LED Vesta TW 9mm (9W) DP FWHM /FWTM 13.0° /25.0° Efficiency 58 % Peak intensity 7 cd/lm LEDs/each optic 1 Light colour White Required components: CT6142_HEKLA-SOCKET-K Bender With: 489 Typ L8 CCTTIZEN ELD CLL02x/CLL02x (LES10) FWHM /FWTM 13.0° /25.0° Efficiency 61 % Peak intensity 8 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C CCTTIZEN LED CLL02x/CLU02x (LES10) FWHM /FWTM 13.0° /25.0° Efficiency 61 % Peak intensity 3 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C	bridgelux		95*
FWHM / FWTM 13.0° / 25.0° Efficiency 88 % Peak intensity 7 cd/m LEDs/each optic 1 Light colour White Required components: CIG142_HEKLA-SOCKET-K Bender Wirth: 489 Typ L8 Efficiency 61 % Peak intensity 8 cd/m LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C Efficiency 61 % Peak intensity 8 cd/m LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C Efficiency 64 % Peak intensity 13.9 cd/m LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C		Vesta T/M/ 9mm (0/M/) DD	
Efficiency 58 % Peak intensity 7 cd/m LED Seach optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender With: 489 Typ L8 CTTTIZEN LED CLL02x/CLU02x (LES10) FWHM / FWTM 13.0° / 25.0° Efficiency 61 % Peak intensity 13.0 cd/m LED Seach optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C CTTIZEN LED CLU700/701/702/703 FWHM / FWTM 10.0° / 20.0° Efficiency 64 % Peak intensity 13.9 cd/m LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C			37
Peak intensity 7 cd/lm LEDs/ach optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 489 Typ L8 CCTTIZEEN LED CLL02x/CLU02x (LES10) FWHM / FWTM 13.0° / 25.0° Efficiency 61 % Peak intensity 8 cd/lm LEDs/ach optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C CCTTIZEEN LED CLU700/701/702/703 FWHM / FWTM 10.0° / 20.0° Efficiency 64 % Peak intensity 13.9 cd/lm LEDs/ach optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C			
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Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 489 Typ L8 CCITIZEN LED CLL02x/CLU02x (LES10) FWHM / FWTM 13.0° / 25.0° Efficiency 61 % Peak intensity 8 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C CCITIZEN LED CLU700/701/702/703 FWHM / FWTM 10.0° / 20.0° Efficiency 64 % Peak intensity 13.9 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C			
Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 489 Typ L8 CCITIZEN LED CLL02x/CLU02x (LES10) FWHM / FWTM 13.0° / 25.0° Efficiency 61% Peak intensity 8 cd/m LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C CCITIZEN LED CLU700/701/702/703 FWHM / FWTM 10.0° / 20.0° Efficiency 64 % Peak intensity 13.9 cd/m LEDs/each optic 1 Light colour White Required components:			
C16142_HEKLA-SOCKET-K Bender Wirth: 489 Typ L8			400
Bender Wirth: 489 Typ L8 CITTIZEN LED CLL02x/CLU02x (LES10) FWHM / FWTM 13.0° / 25.0° Efficiency 61 % Peak intensity 8 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C CITTIZEN LED CLU700/701/702/703 FWHM / FWTM 10.0° / 20.0° Efficiency 64 % Peak intensity 13.9 cd/lm LEDs/each optic 1 Light colour White Required components: Required components:			
CITIZEN LED CLL02x/CLU02x (LES10) FWHM / FWTM 13.0° / 25.0° Efficiency 61 % Peak intensity 8 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C CITIZEN LED CLU700/701/702/703 FWHM / FWTM 10.0° / 20.0° Efficiency 64 % Peak intensity 13.9 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C			
CLU2X/CLU02X (LES10) FWHM / FWTM 13.0° / 25.0° Efficiency 61 % Peak intensity 8 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C CUTIZEN LED CLU700/701/702/703 FWHM / FWTM 10.0° / 20.0° Efficiency 64 % Peak intensity 13.9 cd/lm LEDs/each optic 1 LEDs/each optic 1	Dender Wirth. 4	09 Typ L0	
LED CLL02x/CLU02x (LES10) FWHM / FWTM 13.0° / 25.0° Efficiency 61 % Peak intensity 8 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C ED CLU700/701/702/703 FWHM / FWTM 10.0° / 20.0° Efficiency 64 % Peak intensity 13.9 cd/lm LEDs/each optic 1 Light colour White Required components:			30 ⁵ 0 ⁴ 25 ⁷ 0 ⁴
LED CLL02x/CLU02x (LES10) FWHM / FWTM 13.0° / 25.0° Efficiency 61 % Peak intensity 8 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C CITIZEEN LED CLU700/701/702/703 FWHM / FWTM 10.0° / 20.0° Efficiency 64 % Peak intensity 13.9 cd/lm LEDs/each optic 1 Light colour White Required components:	CITIZE	^C N	30 [*]
FWHM / FWTM 13.0° / 25.0° Efficiency 61 % Peak intensity 8 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C CITIZEN LED CLU700/701/702/703 FWHM / FWTM 10.0° / 20.0° Efficiency 64 % Peak intensity 13.9 cd/lm LEDs/each optic 1 Light colour White Required components:			
Efficiency 61 % Peak intensity 8 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C	LED	CLL02x/CLU02x (LES10)	
Peak intensity 8 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C CITIZEN LED CLU700/701/702/703 FWHM / FWTM 10.0° / 20.0° Efficiency 64 % Peak intensity 13.9 cd/lm LEDs/each optic 1 Light colour White Required components:	LED FWHM / FWTM		75
LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C	FWHM / FWTM	13.0° / 25.0°	
Light colour White Required components: F15255_HEKLA-SOCKET-C CITIZEN LED CLU700/701/702/703 FWHM / FWTM 10.0° / 20.0° Efficiency 64 % Peak intensity 13.9 cd/lm LEDs/each optic 1 Light colour White Required components:	FWHM / FWTM Efficiency	13.0° / 25.0° 61 %	23°
Required components: F15255_HEKLA-SOCKET-C CITIZEN LED CLU700/701/702/703 FWHM / FWTM 10.0° / 20.0° Efficiency 64 % Peak intensity 13.9 cd/lm LEDs/each optic 1 Light colour White Required components:	FWHM / FWTM Efficiency Peak intensity	13.0° / 25.0° 61 % 8 cd/lm	23°
F15255_HEKLA-SOCKET-C	FWHM / FWTM Efficiency Peak intensity LEDs/each optic	13.0° / 25.0° 61 % 8 cd/lm 1	
LED CLU700/701/702/703 FWHM / FWTM 10.0° / 20.0° Efficiency 64 % Peak intensity 13.9 cd/lm LEDs/each optic 1 Light colour White Required components: ************************************	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	13.0° / 25.0° 61 % 8 cd/lm 1 White	23°
LED CLU700/701/702/703 FWHM / FWTM 10.0° / 20.0° Efficiency 64 % Peak intensity 13.9 cd/lm LEDs/each optic 1 Light colour White Required components: ************************************	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	13.0° / 25.0° 61 % 8 cd/lm 1 White ents:	
LED CLU700/701/702/703 FWHM / FWTM 10.0° / 20.0° Efficiency 64 % Peak intensity 13.9 cd/lm LEDs/each optic 1 Light colour White Required components: ************************************	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	13.0° / 25.0° 61 % 8 cd/lm 1 White ents:	
LED CLU700/701/702/703 FWHM / FWTM 10.0° / 20.0° Efficiency 64 % Peak intensity 13.9 cd/lm LEDs/each optic 1 Light colour White Required components: ************************************	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	13.0° / 25.0° 61 % 8 cd/lm 1 White ents:	
FWHM / FWTM 10.0° / 20.0° Efficiency 64 % Peak intensity 13.9 cd/lm LEDs/each optic 1 Light colour White Required components: 20	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	13.0° / 25.0° 61 % 8 cd/lm 1 White ents: A-SOCKET-C	
Efficiency 64 % Peak intensity 13.9 cd/lm LEDs/each optic 1 Light colour White Required components:	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compose F15255_HEKLA	13.0° / 25.0° 61 % 8 cd/lm 1 White ents: A-SOCKET-C	
Peak intensity 13.9 cd/lm LEDs/each optic 1 Light colour White Required components:	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	13.0° / 25.0° 61 % 8 cd/lm 1 White ents: A-SOCKET-C	
LEDs/each optic 1 Light colour White Required components:	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM	13.0° / 25.0° 61 % 8 cd/lm 1 White ents: A-SOCKET-C	
Light colour White Required components:	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency	13.0° / 25.0° 61 % 8 cd/lm 1 White ents: A-SOCKET-C CLU700/701/702/703 10.0° / 20.0° 64 %	
Required components:	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA Efficiency Peak intensity	13.0° / 25.0° 61 % 8 cd/lm 1 White ents: A-SOCKET-C CLU700/701/702/703 10.0° / 20.0° 64 % 13.9 cd/lm	
	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	13.0° / 25.0° 61 % 8 cd/lm 1 White ents: A-SOCKET-C CLU700/701/702/703 10.0° / 20.0° 64 % 13.9 cd/lm 1	23°
	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	13.0° / 25.0° 61 % 8 cd/lm 1 White ents: A-SOCKET-C CLU700/701/702/703 10.0° / 20.0° 64 % 13.9 cd/lm 1 White	23°
30 ³ 22 ⁷ 0 ⁴ 22 ⁷ 30	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKL4 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	13.0° / 25.0° 61 % 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:	23°
30 ⁵ 0 ³ 12 ⁵ 0 ³	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKL4 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	13.0° / 25.0° 61 % 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:	23°
	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKL4 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	13.0° / 25.0° 61 % 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:	23°



CITIZE	Ν	90' A 90'
LED	CLU710/711	
FWHM / FWTM	12.0° / 24.0°	
Efficiency	60 %	
Peak intensity	8.8 cd/lm	
LEDs/each optic	1	
Light colour	White	<i>a</i> . a
Required compone	nts:	600
F15859_HEKLA	-SOCKET-I	
		30.
	NT	107 dbs 107
CITIZE		<u>30'</u> 30
LED	CLU7B2	8
FWHM / FWTM	10.0° / 18.0°	
Efficiency	66 %	6,1 601
Peak intensity	15.6 cd/lm	
LEDs/each optic	1	
Light colour	White	9 ⁶⁷ 900 93
Required compone		
F15255_HEKLA	-SOCKET-C	
		30- 3000 31
CREE ≑		
LEDS		90° 90°
LED	CXA/B 13xx	20
FWHM / FWTM	11.0° / 20.0°	
Efficiency	66 %	en en
Peak intensity	13.8 cd/lm	
Peak intensity LEDs/each optic	13.8 cd/lm 1	
Peak intensity LEDs/each optic Light colour	13.8 cd/lm 1 White	a. a.
Peak intensity LEDs/each optic Light colour Required compone	13.8 cd/lm 1 White nts:	er er er
Peak intensity LEDs/each optic Light colour	13.8 cd/lm 1 White nts:	
Peak intensity LEDs/each optic Light colour Required compone	13.8 cd/lm 1 White nts:	
Peak intensity LEDs/each optic Light colour Required compone	13.8 cd/lm 1 White nts:	
Peak intensity LEDs/each optic Light colour Required compone	13.8 cd/lm 1 White nts: -SOCKET-J	
Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA	13.8 cd/lm 1 White nts: -SOCKET-J	
Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA	13.8 cd/lm 1 White nts: -SOCKET-J EDS LUXEON CX Plus CoB L08 (Gen2)	
Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA	13.8 cd/lm 1 White nts: -SOCKET-J	
Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA	13.8 cd/lm 1 White nts: -SOCKET-J EDS LUXEON CX Plus CoB L08 (Gen2) 19.0° / 32.0° 57 %	
Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA	13.8 cd/lm 1 White nts: -SOCKET-J EDS LUXEON CX Plus CoB L08 (Gen2) 19.0° / 32.0°	
Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA	13.8 cd/lm 1 White nts: -SOCKET-J EDS LUXEON CX Plus CoB L08 (Gen2) 19.0° / 32.0° 57 % 4 cd/lm	
Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA	13.8 cd/lm 1 White nts: -SOCKET-J EDS LUXEON CX Plus CoB L08 (Gen2) 19.0° / 32.0° 57 % 4 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA	13.8 cd/lm 1 White nts: -SOCKET-J EDS LUXEON CX Plus CoB L08 (Gen2) 19.0° / 32.0° 57 % 4 cd/lm 1 White nts:	
Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA	13.8 cd/lm 1 White nts: -SOCKET-J EDS LUXEON CX Plus CoB L08 (Gen2) 19.0° / 32.0° 57 % 4 cd/lm 1 White nts:	
Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA	13.8 cd/lm 1 White nts: -SOCKET-J EDS LUXEON CX Plus CoB L08 (Gen2) 19.0° / 32.0° 57 % 4 cd/lm 1 White nts:	



	EDS	90° A 90
	LUXEON CX Plus CoB - HD S01H4	
	11.0° / 19.0°	75* 23
	65 %	
	14.6 cd/lm	60 ⁵
	1	$X / T^{\bullet \bullet} \land X$
	White	97 A
Required component		
Bender Wirth: 634		
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		305 30
	EDS	13% 1000 15%
	LUXEON CX Plus CoB - HD S02H6	75
	11.0° / 19.0°	
	64 %	
,	14.2 cd/lm	410
	1	
0	White	e57 e639
Required component		
Bender Wirth: 634	lc Hekla	
		30° 15° 0° 15° 30
	EDS	90° A
	EDS LUXEON CX Plus CoB - HD S04H9	94 ³
LED		3°
LED FWHM / FWTM	LUXEON CX Plus CoB - HD S04H9	30 ⁴
LED FWHM / FWTM Efficiency	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0°	99 ⁴ 75 99 ⁴ 90 ⁴ 200
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 %	9 ³⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 % 8.9 cd/lm	9 ³⁴ 900 8
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	9 ³ 9 ³ 9 ⁴ 9 ⁴ 200 6 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9
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 ts:	95 ⁴ 95 95 95 960 960 960
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 % 8.9 cd/lm 1 White ts:	9 ⁵ 9 ⁵ 9 ⁷ 9 ⁷ 60 ⁶ 60 ⁷ 60 ⁷
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 % 8.9 cd/lm 1 White ts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Bender Wirth: 634	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 % 8.9 cd/lm 1 White ts: Ic Hekla	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Bender Wirth: 634	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 % 8.9 cd/lm 1 White ts: Ic Hekla	13° 9680 13°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Bender Wirth: 634	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 % 8.9 cd/lm 1 White ts: Ic Hekla EDS LUXEON CX Plus CoB L04 / L05 (Gen2)	94 ² 94 ⁶ 12 ³
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Bender Wirth: 634	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 % 8.9 cd/lm 1 White ts: Ic Hekla EDS LUXEON CX Plus CoB L04 / L05 (Gen2) 16.0° / 27.0°	94 ² 94 ⁶ 12 ³
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Bender Wirth: 634	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 % 8.9 cd/lm 1 White ts: Ic Hekla EDS LUXEON CX Plus CoB L04 / L05 (Gen2) 16.0° / 27.0° 60 %	94 ² 96 ² 32 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Bender Wirth: 634	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 % 8.9 cd/lm 1 White ts: tc Hekla EDS LUXEON CX Plus CoB L04 / L05 (Gen2) 16.0° / 27.0° 60 % 6.1 cd/lm	60 ² 96 ³ 22 ³
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Bender Wirth: 634	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 % 8.9 cd/lm 1 White ts: Ac Hekla EDS LUXEON CX Plus CoB L04 / L05 (Gen2) 16.0° / 27.0° 60 % 6.1 cd/lm 1	94 ² 94 ⁶ 12 ³
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Bender Wirth: 634 Model Wirth: 634 Ender Wirth: 634 Component Bender Wirth: 634	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 % 8.9 cd/lm 1 White ts: tc Hekla EDS LUXEON CX Plus CoB L04 / L05 (Gen2) 16.0° / 27.0° 60 % 6.1 cd/lm 1 White	93 ⁴ 95 ⁴ 95 95 97 97 97 97 97 97 97 97 97 97 97 97 97
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Bender Wirth: 634 COMPARTMENT LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 % 8.9 cd/lm 1 White ts: tc Hekla EDS LUXEON CX Plus CoB L04 / L05 (Gen2) 16.0° / 27.0° 60 % 6.1 cd/lm 1 White ts: :	93 ⁴ 95 ⁴ 95 95 97 97 97 97 97 97 97 97 97 97 97 97 97
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Bender Wirth: 634 Model Wirth: 634 Ender Wirth: 634 Component Bender Wirth: 634	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 % 8.9 cd/lm 1 White ts: tc Hekla EDS LUXEON CX Plus CoB L04 / L05 (Gen2) 16.0° / 27.0° 60 % 6.1 cd/lm 1 White ts: :	60 ² 96 ³ 22 ³
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Bender Wirth: 634	LUXEON CX Plus CoB - HD S04H9 13.0° / 24.0° 61 % 8.9 cd/lm 1 White ts: tc Hekla EDS LUXEON CX Plus CoB L04 / L05 (Gen2) 16.0° / 27.0° 60 % 6.1 cd/lm 1 White ts: :	60 ² 22 ² 22 ² 200 20 22 ² 22 ²



M LUMIL	EDS	90* 0 90*
LED	LUXEON CX Plus CoB M02 / M03 (Gen2)	
FWHM / FWTM	12.0° / 23.0°	75*
Efficiency	62 %	2000
Peak intensity	9.8 cd/lm	
LEDs/each optic	1	
Light colour	White	a, a.
Required compone	ents:	6430
Bender Wirth: 64	41a Hekla	
		36° 36°
	EDE	155 ³ 0 ⁶ 15 ³
		90*
LED	LUXEON CX Plus CoB S01 (Gen2)	75
FWHM / FWTM	10.0° / 19.0°	
Efficiency	65 %	604 60.
Peak intensity	14.8 cd/lm	6400
LEDs/each optic	1	
Light colour	White	ere
Required compone		
Bender Wirth: 63	34c Hekla	1200
		\times / \vee \times
		30° 35° 35°
(Calum)	INUS	90° A
	CDM-9 (Dim-To-Warm)	94° 99°
		94°
LED	CDM-9 (Dim-To-Warm)	94 ⁵ 75 80 ⁶ 80
LED FWHM / FWTM	CDM-9 (Dim-To-Warm) 13.0° / 23.0°	64 3300 24 25 26 25
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CDM-9 (Dim-To-Warm) 13.0° / 23.0° 60 %	54 520 64 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CDM-9 (Dim-To-Warm) 13.0° / 23.0° 60 % 8.9 cd/lm 1 White	a [*] 300 60 [*]
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CDM-9 (Dim-To-Warm) 13.0° / 23.0° 60 % 8.9 cd/lm 1 White ents:	94 [*] 99 [*] 75 [*] 72 [*] 61 [*] 72 [*] 61 [*] 72 [*] 61 [*] 72 [*] 61 [*]
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	CDM-9 (Dim-To-Warm) 13.0° / 23.0° 60 % 8.9 cd/lm 1 White white N-SOCKET-K	94 99 72 99 94 99 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	CDM-9 (Dim-To-Warm) 13.0° / 23.0° 60 % 8.9 cd/lm 1 White white N-SOCKET-K	94 94 72 72 64 730 64 62 60 62
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	CDM-9 (Dim-To-Warm) 13.0° / 23.0° 60 % 8.9 cd/lm 1 White white N-SOCKET-K	2 ¹ 2 ¹
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	CDM-9 (Dim-To-Warm) 13.0° / 23.0° 60 % 8.9 cd/lm 1 White ents: A-SOCKET-K 90 Typ L8	600
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 49	CDM-9 (Dim-To-Warm) 13.0° / 23.0° 60 % 8.9 cd/lm 1 White white white M-SOCKET-K 90 Typ L8	600
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 49	CDM-9 (Dim-To-Warm) 13.0° / 23.0° 60 % 8.9 cd/lm 1 White ents: A-SOCKET-K 90 Typ L8	21 24 24 25 25 25 25 25 25 25 25 25 25
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 49	CDM-9 (Dim-To-Warm) 13.0° / 23.0° 60 % 8.9 cd/lm 1 White ents: A-SOCKET-K 90 Typ L8 INUS CxM-11 (19x19)	600
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 43	CDM-9 (Dim-To-Warm) 13.0° / 23.0° 60 % 8.9 cd/lm 1 White ents: -SOCKET-K 90 Typ L8 INUS CxM-11 (19x19) 16.0° / 29.0°	600
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 43 WITH: 43 LED FWHM / FWTM Efficiency	CDM-9 (Dim-To-Warm) 13.0° / 23.0° 60 % 8.9 cd/lm 1 White ents: K-SOCKET-K 90 Typ L8 INUS CxM-11 (19x19) 16.0° / 29.0° 58 %	600
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 43 WIM / FWTM Efficiency Peak intensity	CDM-9 (Dim-To-Warm) 13.0° / 23.0° 60 % 8.9 cd/lm 1 White ents: X-SOCKET-K 90 Typ L8 INUS CxM-11 (19x19) 16.0° / 29.0° 58 % 5.3 cd/lm	600
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 49 WHM / FWTM Efficiency Peak intensity LEDs/each optic	CDM-9 (Dim-To-Warm) 13.0° / 23.0° 60 % 8.9 cd/lm 1 White ents: -SOCKET-K 90 Typ L8 INUS CxM-11 (19x19) 16.0° / 29.0° 58 % 5.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4: Mender Wirth: 4: Ender W	CDM-9 (Dim-To-Warm) 13.0° / 23.0° 60 % 8.9 cd/lm 1 White Ports: A-SOCKET-K 90 Typ L8 INUS CxM-11 (19x19) 16.0° / 29.0° 58 % 5.3 cd/lm 1 White Ports: Socket and the second s	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4: Ender Wirth: 4: EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CDM-9 (Dim-To-Warm) 13.0° / 23.0° 60 % 8.9 cd/lm 1 White Ports: A-SOCKET-K 90 Typ L8 INUS CxM-11 (19x19) 16.0° / 29.0° 58 % 5.3 cd/lm 1 White Ports: Socket and the second s	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4: Ender Wirth: 4: EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CDM-9 (Dim-To-Warm) 13.0° / 23.0° 60 % 8.9 cd/lm 1 White Ports: A-SOCKET-K 90 Typ L8 INUS CxM-11 (19x19) 16.0° / 29.0° 58 % 5.3 cd/lm 1 White Ports: Socket and the second s	



ELUM	INUS	90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA		227 247 257 260 260 260 260 260 260 27 27 27 27 27 27 27 27 27 27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CXM-4 10.0° / 19.0° 63 % 13.4 cd/lm 1 White ints:	20 20 20 20 20 20 20 20 20 20
ED 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 -SOCKET-K	34
XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	XOB 6 mm 10.0° / 20.0° 62 % 12.5 cd/lm 1 White ints:	20° 12° 0° 12° 20° 12° 0° 12° 20° 12° 0° 12°



XICATO)		50°	90°
LED	XOB 9.8 mm		75*	
FWHM / FWTM	13.0° / 24.0°			A
Efficiency	60 %		501	e.
Peak intensity	8.2 cd/lm		3200	
LEDs/each optic	1			
Light colour	White		95*	45*
Required compone	ents:			
F15255_HEKLA	A-SOCKET-C		000	
			364	30'
			15% 0%	15*



bridgelux.		90* 90*
LED	VERO13	
FWHM / FWTM	16.0° / 34.0°	73*
Efficiency	65 %	
Peak intensity	4.6 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	42*
Required components:	White	3230
C16142_HEKLA-SOC	NET K	
C10142_11EREA-300		
		30° 4800 30° 30°
CITIZEN		
		90* 90*
LED	CLL02x/CLU02x (LES10)	75'
FWHM / FWTM	14.0° / 26.0°	1500
Efficiency	45 %	60°
Peak intensity	6.8 cd/lm	
LEDs/each optic	1	
Light colour	White	43°
Required components:		430
F15859_HEKLA-SOC	CKET-I	\times / \wedge \times
C16752_CARMEN-70	D-SHD	
		300 300
		80° 15° 0° 25° 80°
CITIZEN		30 ⁴ 15 ⁴ 0 ⁴ 15 ⁴ 20 ⁴
CITIZEN	CLU700/701/702/703	30 ⁴ 30 ⁴ 30 ⁴ 90 ⁴ 90 ⁴ 90 ⁴
	CLU700/701/702/703 10.0° / 19.0°	22 24 25 25 25 26 25 26 25 26 26 26 26 26 26 26 26 26 26
LED FWHM / FWTM		25 25 25 25 25 25 25 25 25 25
LED FWHM / FWTM Efficiency	10.0° / 19.0°	00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity	10.0° / 19.0° 51 %	600 004 004 004 004 004 004 004
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	10.0° / 19.0° 51 % 14.2 cd/lm	22. 000 000 000 000 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 19.0° 51 % 14.2 cd/lm 1	600 600 600 600 600 600 600 600
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	10.0° / 19.0° 51 % 14.2 cd/lm 1 White	600 600 600 900 900 900 900 900
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOC	10.0° / 19.0° 51 % 14.2 cd/lm 1 White CKET-C	60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	10.0° / 19.0° 51 % 14.2 cd/lm 1 White CKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOC C16752_CARMEN-70	10.0° / 19.0° 51 % 14.2 cd/lm 1 White CKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOC	10.0° / 19.0° 51 % 14.2 cd/lm 1 White CKET-C	Bit Dist Bit Sin Sin Sin
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOC C16752_CARMEN-70	10.0° / 19.0° 51 % 14.2 cd/lm 1 White CKET-C	30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOC C16752_CARMEN-70	10.0° / 19.0° 51 % 14.2 cd/lm 1 White CKET-C D-SHD	32 0, 22 0, 0, 0, 0, 0,0 0, 0, 0,0 0, 0, 0,0 0, 0, 0,0 0, 0, 0,0 0, 0, 0,0 0, 0, 0,0 0, 0, 0,0 0, 0, 0,0 0, 0, 0,0 0, 0, 0,0 0, 0, 0,0 0, 0, 0,0 0, 0, 0,0 0, 0,0 0,0 0, 0,0 0,0 0, 0,0 0,0 0, 0,0 0,0 0, 0,0 0,0 0, 0,0 0,0 0, 0,0 0,0 0, 0,0 0,0 0, 0,0 0,0 0, 0,0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOC C16752_CARMEN-70 CITTIZEN LED	10.0° / 19.0° 51 % 14.2 cd/lm 1 White CKET-C D-SHD CLU712/713	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOC C16752_CARMEN-70 CITTIZEN LED FWHM / FWTM	10.0° / 19.0° 51 % 14.2 cd/lm 1 White CKET-C D-SHD CLU712/713 12.0° / 24.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOC C16752_CARMEN-70 CITTIZEN LED FWHM / FWTM Efficiency Peak intensity	10.0° / 19.0° 51 % 14.2 cd/lm 1 White CKET-C D-SHD CLU712/713 12.0° / 24.0° 65 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOC C16752_CARMEN-70 CITTIZEN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	10.0° / 19.0° 51 % 14.2 cd/lm 1 White CKET-C D-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-SOC C16752_CARMEN-70 CITTIZEN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 19.0° 51 % 14.2 cd/lm 1 White CKET-C D-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-SOC C16752_CARMEN-70 C16752_CARMEN-70 Efficiency Peak intensity LEDs/each optic Light colour Required components:	10.0° / 19.0° 51 % 14.2 cd/lm 1 White XKET-C D-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-SOC C16752_CARMEN-70 C16752_CARMEN-70 ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 19.0° 51 % 14.2 cd/lm 1 White XKET-C D-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-SOC C16752_CARMEN-70 C16752_CARMEN-70 Efficiency Peak intensity LEDs/each optic Light colour Required components:	10.0° / 19.0° 51 % 14.2 cd/lm 1 White XKET-C D-SHD CLU712/713 12.0° / 24.0° 65 % 9.8 cd/lm 1 White	



CITIZEN		90*
LED	CLU712/713	
FWHM / FWTM	12.0° / 24.0°	73.
Efficiency	47 %	
Peak intensity	8.1 cd/lm	801 ² 60 ²
LEDs/each optic	1	
Light colour	White	932 634
Required components:		
F15859_HEKLA-SO	CKET-I	6430
C16752_CARMEN-7		
		15% 0% 15%
		90°
LED	CMA1825	
FWHM / FWTM	17.0° / 32.0°	
Efficiency	69 %	60° (60°
Peak intensity	5.4 cd/lm	
LEDs/each optic	1	
Light colour	White	gy 3200 61°
Required components:		
		4330
		30°
		15° 0° 15°
CREE		90* 90*
	CMA1840	50° 507
LED	CMA1840 19.0° / 37.0°	25. 26.
LED FWHM / FWTM	19.0° / 37.0°	
LED FWHM / FWTM Efficiency	19.0° / 37.0° 66 %	
LED FWHM / FWTM Efficiency Peak intensity	19.0° / 37.0° 66 % 4 cd/lm	64
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	19.0° / 37.0° 66 % 4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	19.0° / 37.0° 66 % 4 cd/lm	64
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	19.0° / 37.0° 66 % 4 cd/lm 1	64
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	19.0° / 37.0° 66 % 4 cd/lm 1	g. 91 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	19.0° / 37.0° 66 % 4 cd/lm 1	g. 61. 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	19.0° / 37.0° 66 % 4 cd/lm 1	g. 91 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	19.0° / 37.0° 66 % 4 cd/lm 1	g. 91 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	19.0° / 37.0° 66 % 4 cd/lm 1 White	30. 30. 30. 30. 30. 30. 30. 30. 60. 500 60. 60. 30. 500 60. 60.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	19.0° / 37.0° 66 % 4 cd/lm 1 White CXA/B 15xx	g. 91 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	19.0° / 37.0° 66 % 4 cd/lm 1 White	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency	19.0° / 37.0° 66 % 4 cd/lm 1 White CXA/B 15xx 12.0° / 23.0° 68 %	30. 30. 30. 30. 30. 30. 30. 30. 60. 500 60. 60. 30. 500 60. 60.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity	19.0° / 37.0° 66 % 4 cd/lm 1 White CXA/B 15xx 12.0° / 23.0°	200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	19.0° / 37.0° 66 % 4 cd/lm 1 White CXA/B 15xx 12.0° / 23.0° 68 % 11.1 cd/lm 1	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	19.0° / 37.0° 66 % 4 cd/lm 1 White CXA/B 15xx 12.0° / 23.0° 68 % 11.1 cd/lm	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	19.0° / 37.0° 66 % 4 cd/lm 1 White CXA/B 15xx 12.0° / 23.0° 68 % 11.1 cd/lm 1 White	200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	19.0° / 37.0° 66 % 4 cd/lm 1 White CXA/B 15xx 12.0° / 23.0° 68 % 11.1 cd/lm 1 White	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	19.0° / 37.0° 66 % 4 cd/lm 1 White CXA/B 15xx 12.0° / 23.0° 68 % 11.1 cd/lm 1 White	200 200 200 200 200 200 200 200 200 200



LED CXM-4 FWHM / FWTM 8.0° / 18.0° Efficiency 52 % Peak intensity 16.8 cd/m Required components: F17435_HEKLA-G2-C C16752_CARMEN-70-SHD	
Efficiency 52 % Peak intensity 16.8 cd/lm LEDb/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C C16752_CARMEN-70-SHD	
Peak intensity 16.8 cd/lm LED2/each optic 1 LED2/each optic 1 LED2/each optic 1 C16752_CARMEN-70-SHD	
LEDs/each optic 1 Light colour Required components: PT7435_HEKLA-G2.C C16752_CARMEN-70-SHD	
Light colour White Required components: F17435_HEKLA-G2-C C16752_CARMEN-70-SHD	
Required components: F17435_HERLA-G2-C C16752_CARMEN-70-SHD	
F17435_HEKLA-G2-C C16752_CARMEN-70-SHD Image: Comparison of the state of the	
C16752_CARMEN-70-SHD	
Image: Control of the second secon	
LED CxM-6 (13.5x13.5) FWHM / FWTM 10.0° / 20.0° Efficiency 68% Peak intensity 14.7 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C Efficiency 62% Peak intensity 7.5 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C Efficiency 62% Peak intensity 7.5 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C Efficiency 63% Peak intensity 8 cd/lm	
LED CxM-6 (13.5x13.5) FWHM / FWTM 10.0° / 20.0° Efficiency 68% Peak intensity 14.7 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C Efficiency 62% Peak intensity 7.5 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C Efficiency 62% Peak intensity 7.5 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C Efficiency 63% Peak intensity 8 cd/lm	15*
FWHM / FWTM 10.0° / 20.0° Efficiency 68 % Peak intensity 14.7 cd/m LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C	
FWHM / FWTM 10.0° / 20.0° Efficiency 68 % Peak intensity 14.7 cd/lm LEDS/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C SAMSUNG LED LC003D / LC006D / LC003D FWHM / FWTM 14.0° / 26.0° Efficiency 62 % Peak intensity 7.5 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C SAMSUNG LED LC003D / LC006D / LC003D FWHM / FWTM 14.0° / 26.0° Efficiency 62 % Peak intensity 7.5 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C SAMSUNG LED LC003D / LC006D / LC009D / LC013D FWHM / FWTM 14.0° / 26.0° Efficiency 63 % Peak intensity 8 cd/lm	
Peak intensity 14.7 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C	
LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C SAMSSUNG LED LC003D / LC006D / LC009D / LC013D FWHM / FWTM 14.0° / 26.0° Efficiency 62 % Peak intensity 7.5 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C SAMSSUNG LED LC003D / LC006D / LC009D / LC013D FWHM / FWTM 14.0° / 26.0° Efficiency 63 % Peak intensity 8 cd/lm	
Light colour White Required components: F17435_HEKLA-G2-C	
Required components: F17435_HEKLA-G2-C SAMSUNG LED LC003D / LC006D / LC009D / LC013D FWHM / FWTM 14.0° / 26.0° Efficiency 62 % Peak intensity 7.5 cd/m LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C SAMSUNG LED LC003D / LC006D / LC009D / LC013D FWHM / FWTM 14.0° / 26.0° Efficiency 63 % Peak intensity 8 cd/m	
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FWHM / FWTM 14.0° / 26.0° Efficiency 63 % Peak intensity 8 cd/lm	
Efficiency 63 % Peak intensity 8 cd/lm	
Peak intensity 8 cd/lm	
LEDs/each optic 1	
Light colour White	
Required components:	
F17435_HEKLA-G2-C	



SAMSU	NG	50° A 50°
LED	LC010C	
FWHM / FWTM	10.0° / 20.0°	
Efficiency	68 %	60*
Peak intensity	15 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required component	ts:	
F17435_HEKLA-G2-C		
		15° 10000 15°



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.

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

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