CARMEN-S-C

~14° spot beam. Assembly with holder C compatible with LEDiL HEKLA.

TECHNICAL SPECIFICATIONS:

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

MATERIAL SPECIFICATIONS:

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

ORDERING INFORMATION:
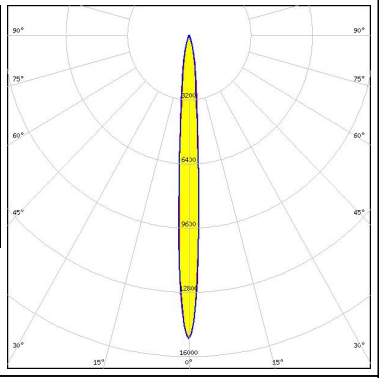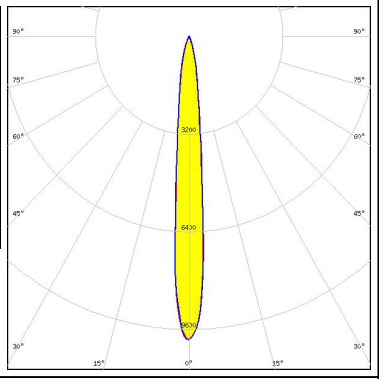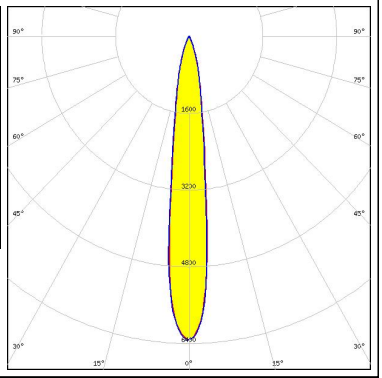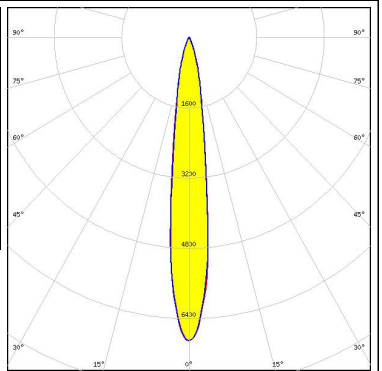
Component		Qty in box	MOQ	MPQ	Box weight (kg)
CP15774_CARMEN-S-C	Single lens	150	150	15	4.5

» Box size: 476 x 273 x 292 mm

Ø69.5

41.5

Side view
Scale: 1:1

Isometric view
Scale: 1:1

Top view
Scale: 1:1

INDEX	PART NO	MATERIAL	COLOUR
1	CARMEN-LENS	PMMA	Clear
2	HEKLA-Socket	PBT	White
3	CARMEN-HLD-C	PC	Black

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
up to 30mm class M, otherwise class C
According to DIN ISO 2768-2
Form and position: class L

Ledil Oy
Joensuunkatu 13
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

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agreement with LEDiL Oy.

DRAWING TITLE
CARMEN-C_Datasheet

SIZE: A3   PART NUMBER

SCALE 1:1 WEIGHT   SHEET 1/1

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

PHOTOMETRIC DATA (MEASURED):

bridgelux

LED	V4 HD
FWHM / FWTM	8.0° / 23.0°
Efficiency	78 %
Peak intensity	15 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F15253_HEKLA-SOCKET-A

bridgelux

LED	V6 HD
FWHM / FWTM	10.0° / 28.0°
Efficiency	75 %
Peak intensity	9.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F15255_HEKLA-SOCKET-C

bridgelux

LED	V9 HD
FWHM / FWTM	14.0° / 34.0°
Efficiency	72 %
Peak intensity	6.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F15859_HEKLA-SOCKET-I

bridgelux

LED	VERO10
FWHM / FWTM	14.0° / 34.0°
Efficiency	75 %
Peak intensity	6.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F15616_HEKLA-SOCKET-F

PHOTOMETRIC DATA (MEASURED):

bridgelux

LED	Vesta DTW 9mm (4W/6W/12W)
FWHM / FWTM	14.0° / 33.0°
Efficiency	71 %
Peak intensity	6.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C16142_HEKLA-SOCKET-K	
Bender Wirth: 490 Typ L8	

bridgelux
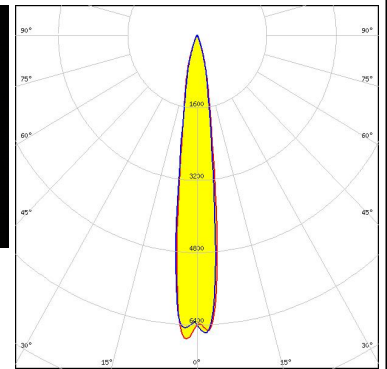
LED	Vesta TW 6mm DP
FWHM / FWTM	11.0° / 27.0°
Efficiency	75 %
Peak intensity	10.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C16142_HEKLA-SOCKET-K	
Bender Wirth: 504 Typ L8	

bridgelux
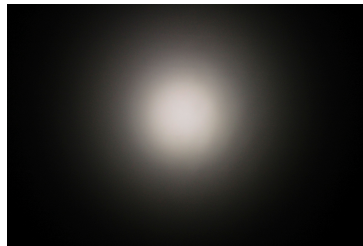
LED	Vesta TW 9mm (9W) DP
FWHM / FWTM	15.0° / 36.0°
Efficiency	71 %
Peak intensity	5.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C16142_HEKLA-SOCKET-K	
Bender Wirth: 489 Typ L8	
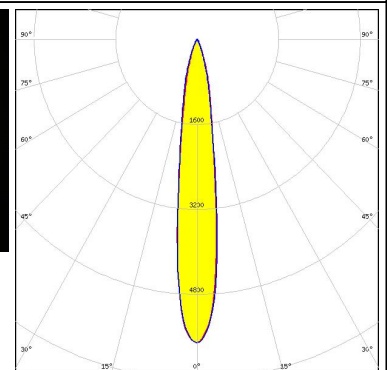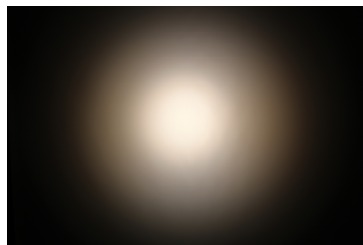
CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM / FWTM	15.0° / 36.0°
Efficiency	74 %
Peak intensity	6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15255_HEKLA-SOCKET-C	
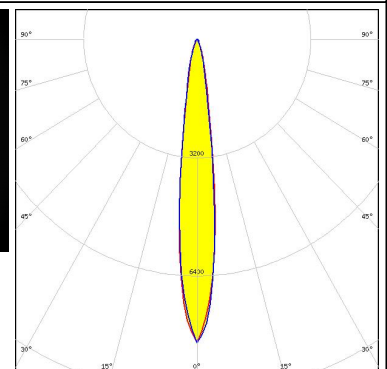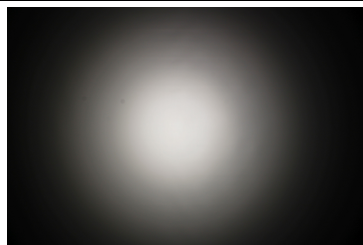
PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED	CLU700/701/702
FWHM / FWTM	10.0° / 25.0°
Efficiency	78 %
Peak intensity	12.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15255_HEKLA-SOCKET-C	
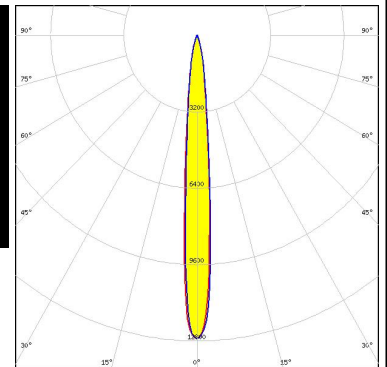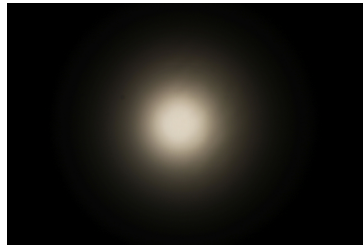
CITIZEN

LED	CLU710/711
FWHM / FWTM	13.0° / 33.0°
Efficiency	73 %
Peak intensity	7.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15859_HEKLA-SOCKET-I	
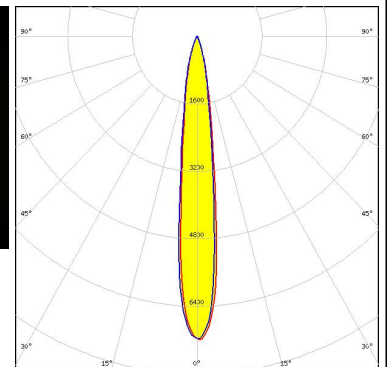
CITIZEN

LED	CLU7A2 (LES 4.2mm)
FWHM / FWTM	7.0° / 20.0°
Efficiency	80 %
Peak intensity	18.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15255_HEKLA-SOCKET-C	
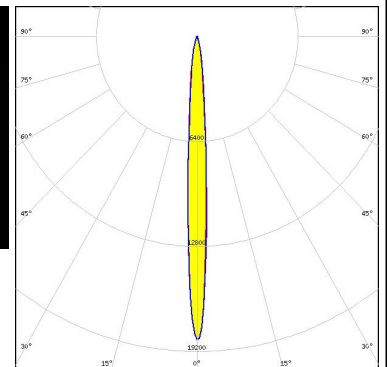
CITIZEN

LED	CLU7B2
FWHM / FWTM	6.0° / 19.0°
Efficiency	80 %
Peak intensity	21.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15255_HEKLA-SOCKET-C	
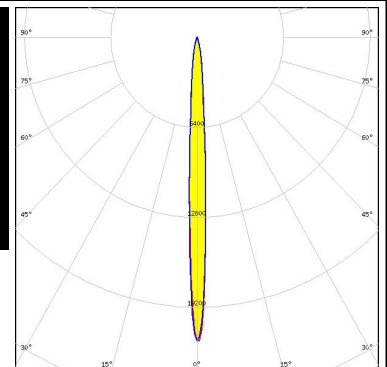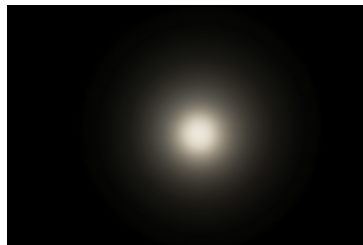
PHOTOMETRIC DATA (MEASURED):

CREE⇌LED

LED	CMA1516
FWHM / FWTM	14.0° / 36.0°
Efficiency	72 %
Peak intensity	5.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15256_HEKLA-SOCKET-D	
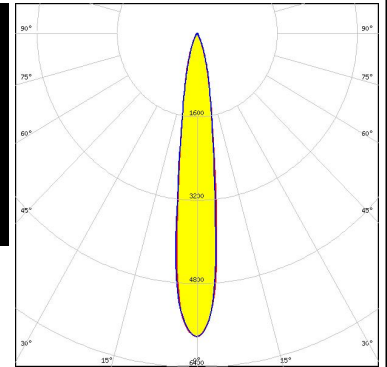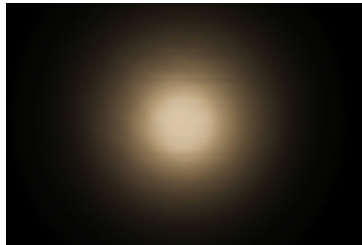
CREE⇌LED

LED	CMT14xx
FWHM / FWTM	15.0° / 37.0°
Efficiency	48 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15255_HEKLA-SOCKET-C	
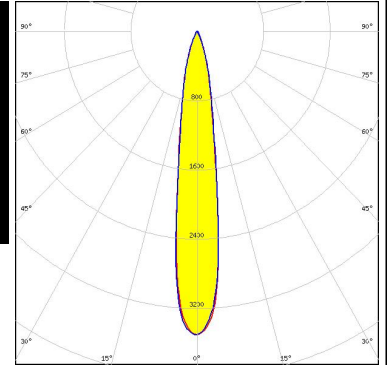
LUMILEDS

LED	LUXEON CX Plus CoB L08 (Gen2)
FWHM / FWTM	21.0° / 50.0°
Efficiency	67 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Bender Wirth: 637a Hekla	
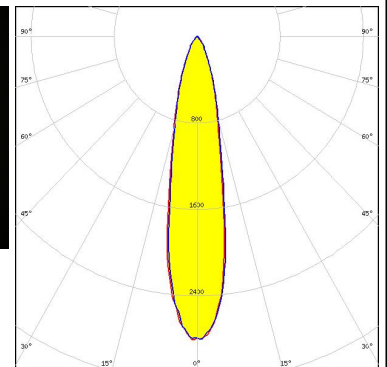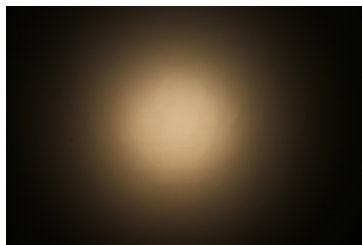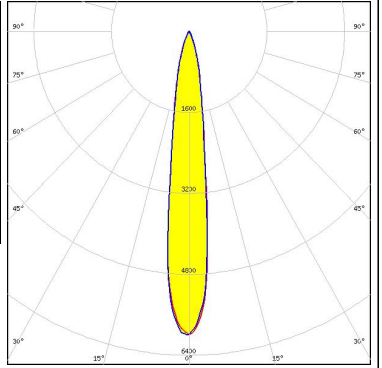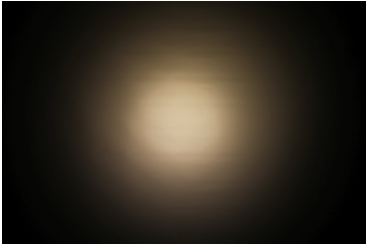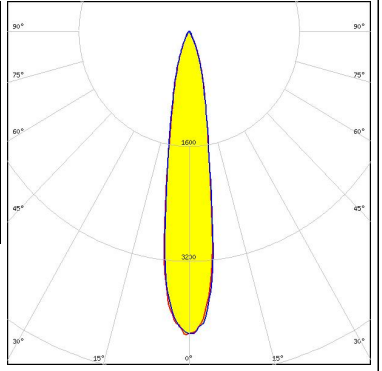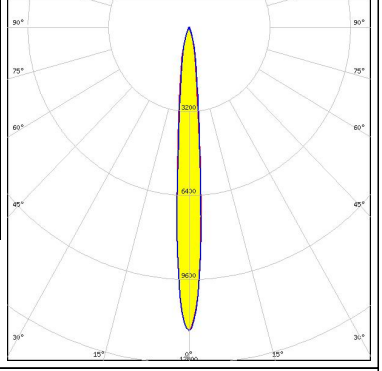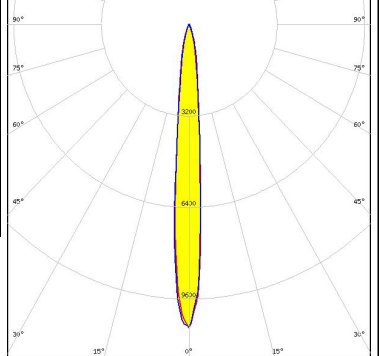
LUMILEDS

LED	LUXEON CoB 1202HD
FWHM / FWTM	10.0° / 28.0°
Efficiency	75 %
Peak intensity	9.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15848_HEKLA-SOCKET-G	
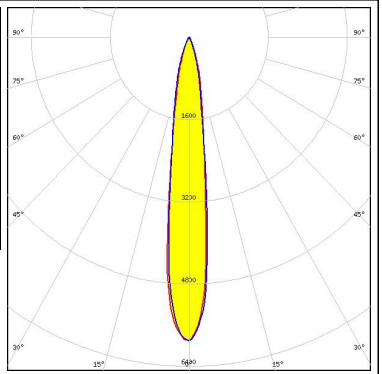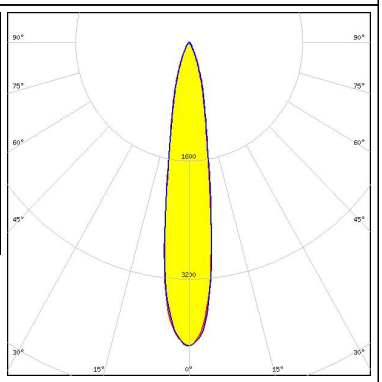
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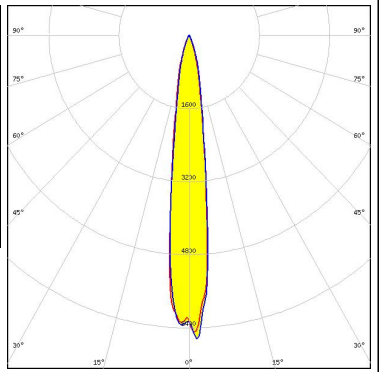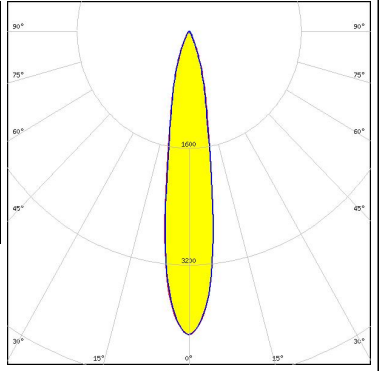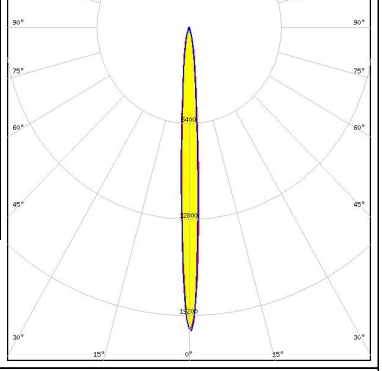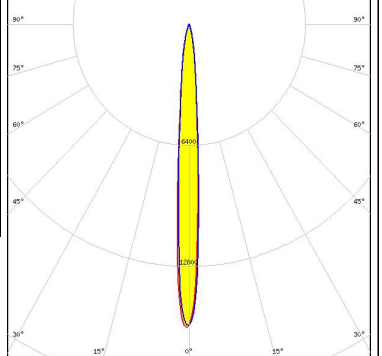
LUMILEDS

LED	LUXEON CoB 1204HD
FWHM / FWTM	14.0° / 35.0°
Efficiency	73 %
Peak intensity	6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15858_HEKLA-SOCKET-H	

LUMILEDS

LED	LUXEON CoB 1205HD
FWHM / FWTM	17.0° / 41.0°
Efficiency	69 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15858_HEKLA-SOCKET-H	

LUMILEDS

LED	LUXEON CX Plus CoB - HD S01H4
FWHM / FWTM	9.0° / 26.0°
Efficiency	75 %
Peak intensity	11.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Bender Wirth: 634c Hekla	

LUMILEDS

LED	LUXEON CX Plus CoB - HD S01H6 / HD S02H6
FWHM / FWTM	10.0° / 26.0°
Efficiency	75 %
Peak intensity	10.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Bender Wirth: 634c Hekla	
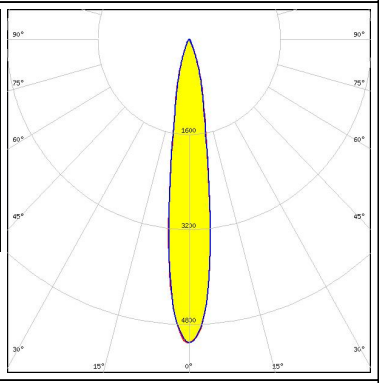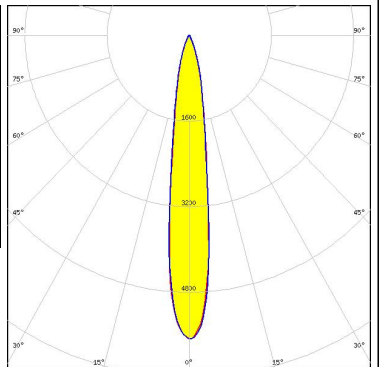
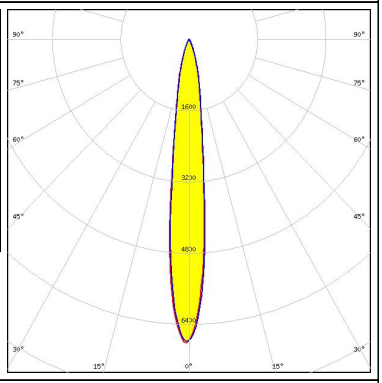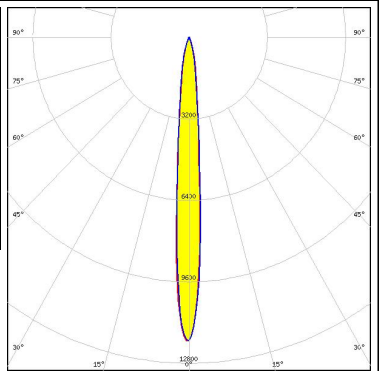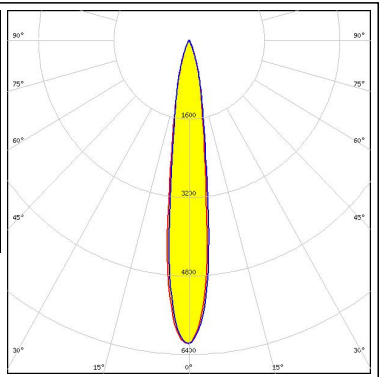## PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON CX Plus CoB - HD S04H9
FWHM / FWTM	14.0° / 36.0°
Efficiency	72 %
Peak intensity	5.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Bender Wirth: 634c Hekla	

LUMILEDS

LED	LUXEON CX Plus CoB L04 / L05 (Gen2)
FWHM / FWTM	18.0° / 42.0°
Efficiency	69 %
Peak intensity	4.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Bender Wirth: 637a Hekla	

LUMILEDS

LED	LUXEON CX Plus CoB M02 / M03 (Gen2)
FWHM / FWTM	13.0° / 33.0°
Efficiency	72 %
Peak intensity	6.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Bender Wirth: 641a Hekla	

LUMILEDS

LED	LUXEON CX Plus CoB S01 (Gen2)
FWHM / FWTM	9.0° / 25.0°
Efficiency	76 %
Peak intensity	11.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Bender Wirth: 634c Hekla	

PHOTOMETRIC DATA (MEASURED):

LUMINUS

LED	CDM-9 (Dim-To-Warm)
FWHM / FWTM	14.0° / 33.0°
Efficiency	71 %
Peak intensity	6.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C16142_HEKLA-SOCKET-K	
Bender Wirth: 490 Typ L8	

LUMINUS

LED	CxM-11 (19x19)
FWHM / FWTM	18.0° / 42.0°
Efficiency	70 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15859_HEKLA-SOCKET-I	

LUMINUS

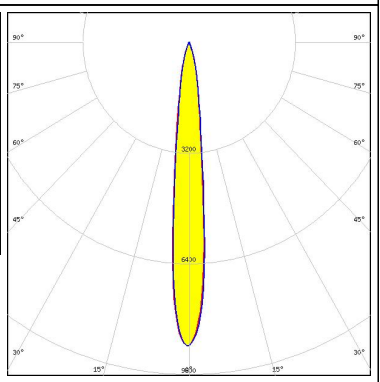|	
LED	CXM-3
FWHM / FWTM	7.0° / 19.0°
Efficiency	80 %
Peak intensity	20.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15255_HEKLA-SOCKET-C	

LUMINUS

LED	CXM-4
FWHM / FWTM	8.0° / 22.0°
Efficiency	78 %
Peak intensity	16 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15255_HEKLA-SOCKET-C	

PHOTOMETRIC DATA (MEASURED):

LUMINUS

LED	CxM-9 (13.5x13.5)
FWHM / FWTM	15.0° / 35.0°
Efficiency	74 %
Peak intensity	6.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15255_HEKLA-SOCKET-C	

NICHIA

LED	NJCWL024Z-V1MT: COB L-Type Tunable White
FWHM / FWTM	12.0° / 29.0°
Efficiency	71 %
Peak intensity	8.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C16142_HEKLA-SOCKET-K	
Bender Wirth: 497 Typ L8	

NICHIA

LED	NVCWJ024Z-V1MT: COB J-Type Tunable White
FWHM / FWTM	16.0° / 37.0°
Efficiency	69 %
Peak intensity	5.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C16142_HEKLA-SOCKET-K	
Bender Wirth: 498 Typ L8	

PHILIPS

LED	Fortimo SLM L09 CoB
FWHM / FWTM	15.0° / 36.0°
Efficiency	72 %
Peak intensity	5.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15858_HEKLA-SOCKET-H	

PHOTOMETRIC DATA (MEASURED):

SAMSUNG

LED	LC003D / LC006D / LC009D / LC013D
FWHM / FWTM	15.0° / 36.0°
Efficiency	74 %
Peak intensity	6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

F15255_HEKLA-SOCKET-C
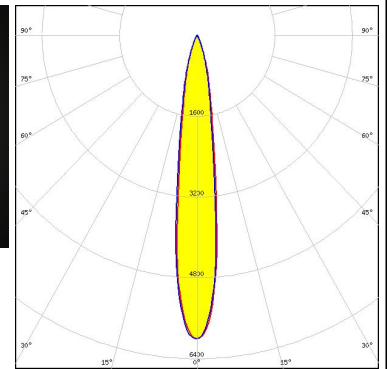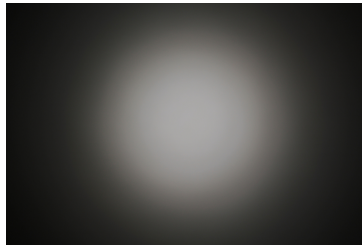
SAMSUNG

LED	LC010C G2
FWHM / FWTM	9.0° / 24.0°
Efficiency	77 %
Peak intensity	13.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

F15255_HEKLA-SOCKET-C

SAMSUNG

LED	LC010T (Tunable White)
FWHM / FWTM	15.0° / 35.0°
Efficiency	71 %
Peak intensity	5.8 cd/lm
LEDs/each optic	1
Light colour	Tunable White

Required components:

C16142_HEKLA-SOCKET-K

Bender Wirth: 501 Typ L8
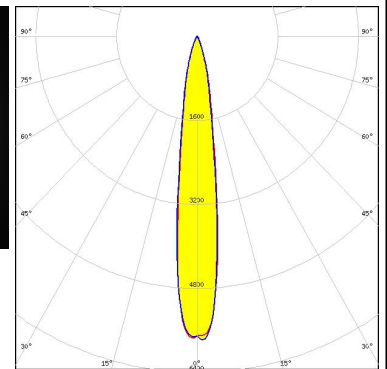
SAMSUNG

LED	LC020C
FWHM / FWTM	12.0° / 31.0°
Efficiency	76 %
Peak intensity	8.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

F15848_HEKLA-SOCKET-G
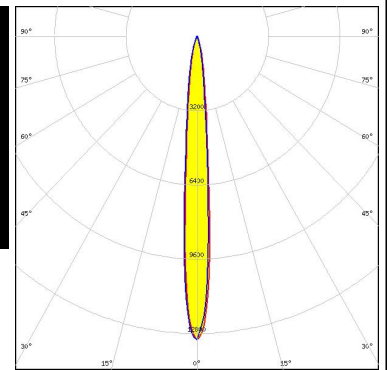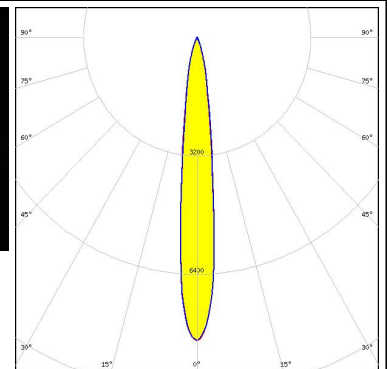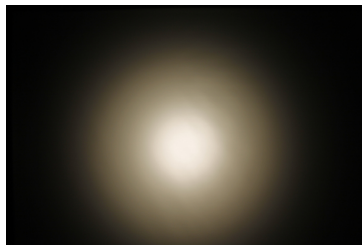
PHOTOMETRIC DATA (MEASURED):

SAMSUNG

LED	LC020C G2
FWHM / FWTM	14.0° / 33.0°
Efficiency	74 %
Peak intensity	6.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15859_HEKLA-SOCKET-I	

SEOUL SEMICONDUCTOR

LED	MJT COB LES 6
FWHM / FWTM	9.0° / 23.0°
Efficiency	76 %
Peak intensity	13.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15255_HEKLA-SOCKET-C	
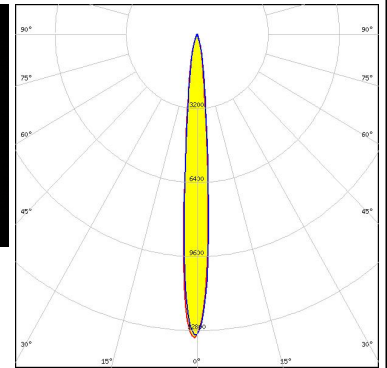
SEOUL SEMICONDUCTOR

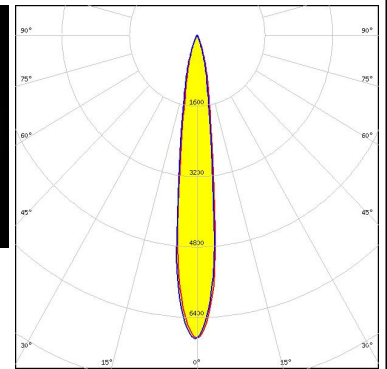|	
LED	MJT COB LES 9.8
FWHM / FWTM	15.0° / 35.0°
Efficiency	72 %
Peak intensity	5.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15255_HEKLA-SOCKET-C	
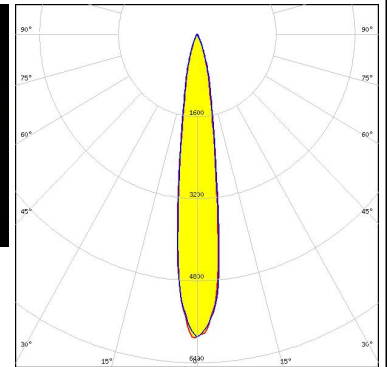
TRIDONIC

LED	SLE G7 LES09
FWHM / FWTM	14.0° / 34.0°
Efficiency	74 %
Peak intensity	6.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15255_HEKLA-SOCKET-C	
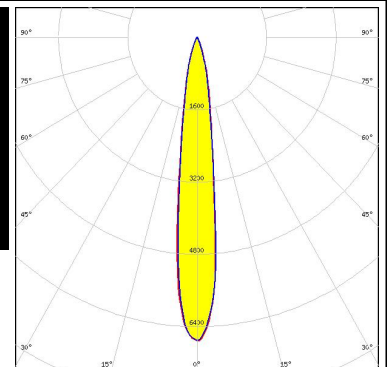
PHOTOMETRIC DATA (MEASURED):

TRIDONIC

LED	SLE G7 LES13
FWHM / FWTM	20.0° / 45.0°
Efficiency	69 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15859_HEKLA-SOCKET-I	
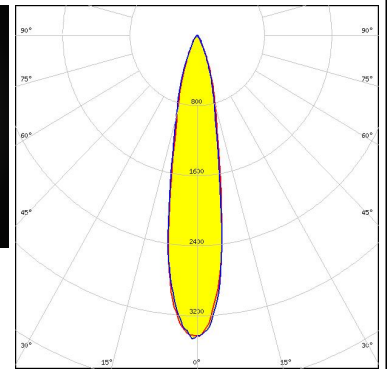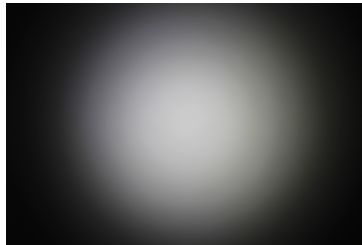
XICATO

LED	XOB 6 mm
FWHM / FWTM	10.0° / 26.0°
Efficiency	76 %
Peak intensity	11.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15255_HEKLA-SOCKET-C	
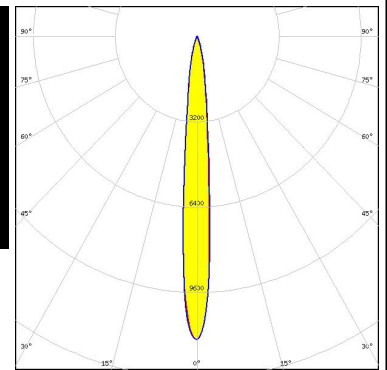
XICATO

LED	XOB 9.8 mm
FWHM / FWTM	14.0° / 34.5 + 34.0°
Efficiency	74 %
Peak intensity	6.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15255_HEKLA-SOCKET-C	
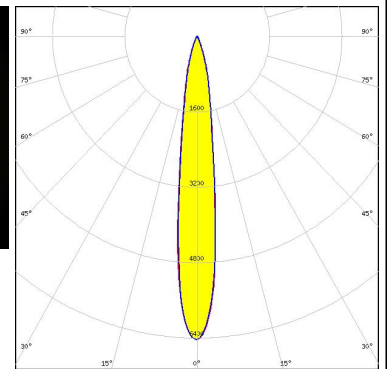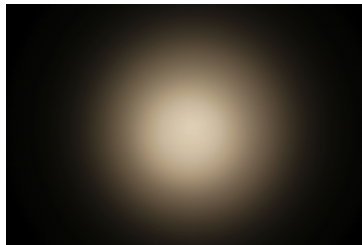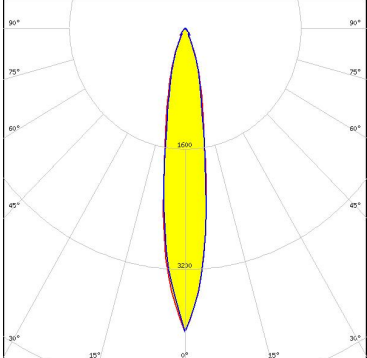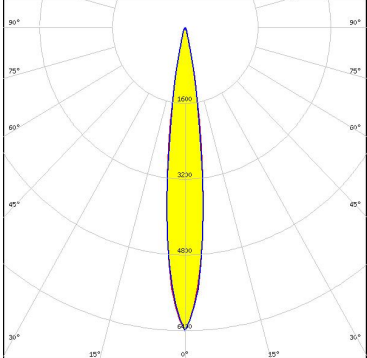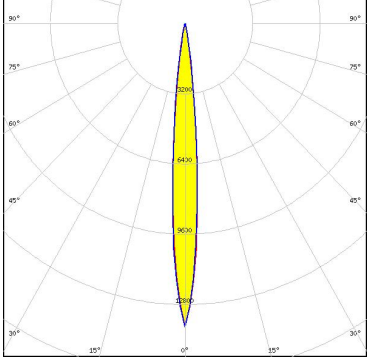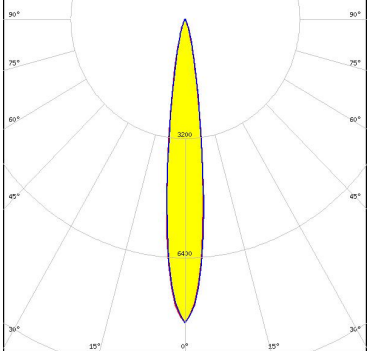
XICATO

LED	XTM - 19mm LES
FWHM / FWTM	23.0° / 60.0°
Efficiency	66 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C16058_XTM-ADAPTER-50-C	

PHOTOMETRIC DATA (SIMULATED):

bridgelux

LED	VERO13
FWHM / FWTM	16.0° / 42.0°
Efficiency	70 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C16142_HEKLA-SOCKET-K	

CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM / FWTM	14.0° / 26.0°
Efficiency	50 %
Peak intensity	6.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15859_HEKLA-SOCKET-I	
C16752_CARMEN-70-SHD	

CITIZEN

LED	CLU700/701/702
FWHM / FWTM	10.0° / 19.0°
Efficiency	54 %
Peak intensity	13.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15255_HEKLA-SOCKET-C	
C16752_CARMEN-70-SHD	

CITIZEN

LED	CLU712
FWHM / FWTM	14.0° / 30.0°
Efficiency	75 %
Peak intensity	8.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15859_HEKLA-SOCKET-I	

PHOTOMETRIC DATA (SIMULATED):

CITIZEN

LED	CLU712
FWHM / FWTM	12.0° / 24.0°
Efficiency	51 %
Peak intensity	7.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15859_HEKLA-SOCKET-I	
C16752_CARMEN-70-SHD	
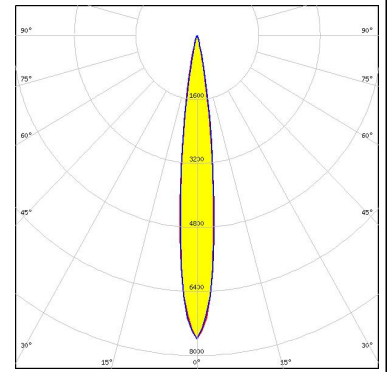
CITIZEN

LED	CLU7A2 (LES 4.2mm)
FWHM / FWTM	8.0° / 16.0°
Efficiency	55 %
Peak intensity	18.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15255_HEKLA-SOCKET-C	
C16752_CARMEN-70-SHD	

CREE⇕LED
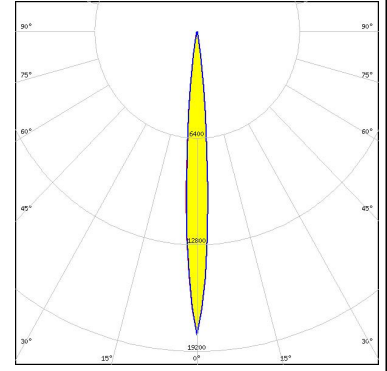
LED	CXA/B 15xx
FWHM / FWTM	12.9° / 28.4°
Efficiency	0 %
Peak intensity	9.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15256_HEKLA-SOCKET-D	

NICHIA
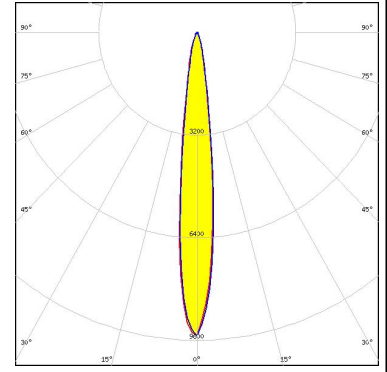
LED	COB T-Type
FWHM / FWTM	11.0° / 24.0°
Efficiency	78 %
Peak intensity	12.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15848_HEKLA-SOCKET-G	
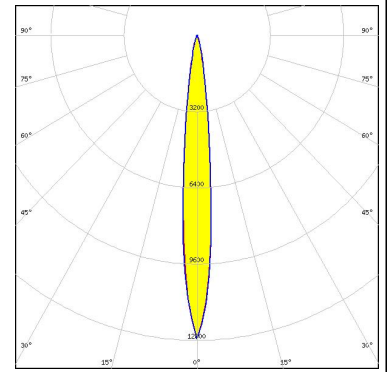
PHOTOMETRIC DATA (SIMULATED):

SAMSUNG

LED	LC003D / LC006D / LC009D / LC013D
FWHM / FWTM	16.0° / 34.0°
Efficiency	73 %
Peak intensity	6.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F17435_HEKLA-G2-C	
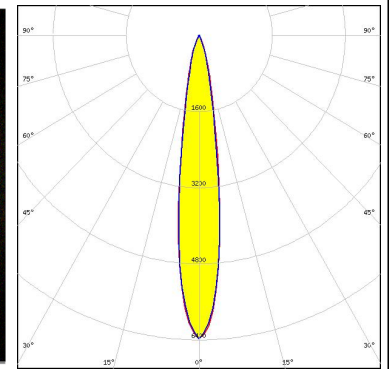
SAMSUNG

LED	LC003D / LC006D / LC009D / LC013D
FWHM / FWTM	16.0° / 34.0°
Efficiency	73 %
Peak intensity	6.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F17435_HEKLA-G2-C	
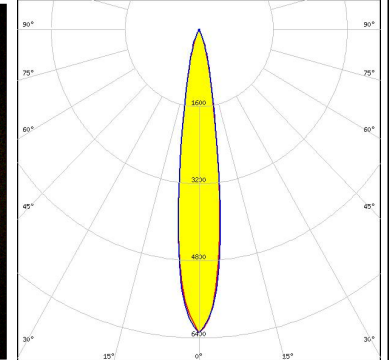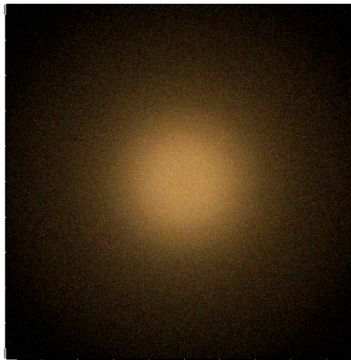
SAMSUNG

LED	LC010C
FWHM / FWTM	11.0° / 24.0°
Efficiency	78 %
Peak intensity	13 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F17435_HEKLA-G2-C	
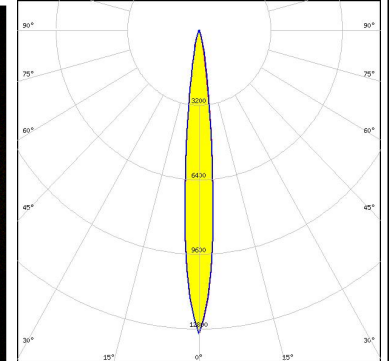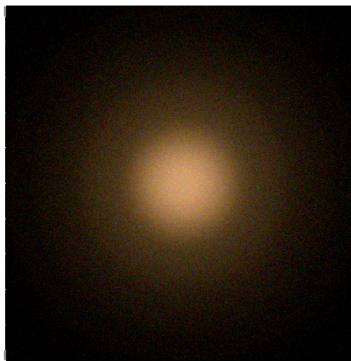
GENERAL INFORMATION:

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:

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