

CARMEN-50-S-C

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

SPECIFICATION:

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

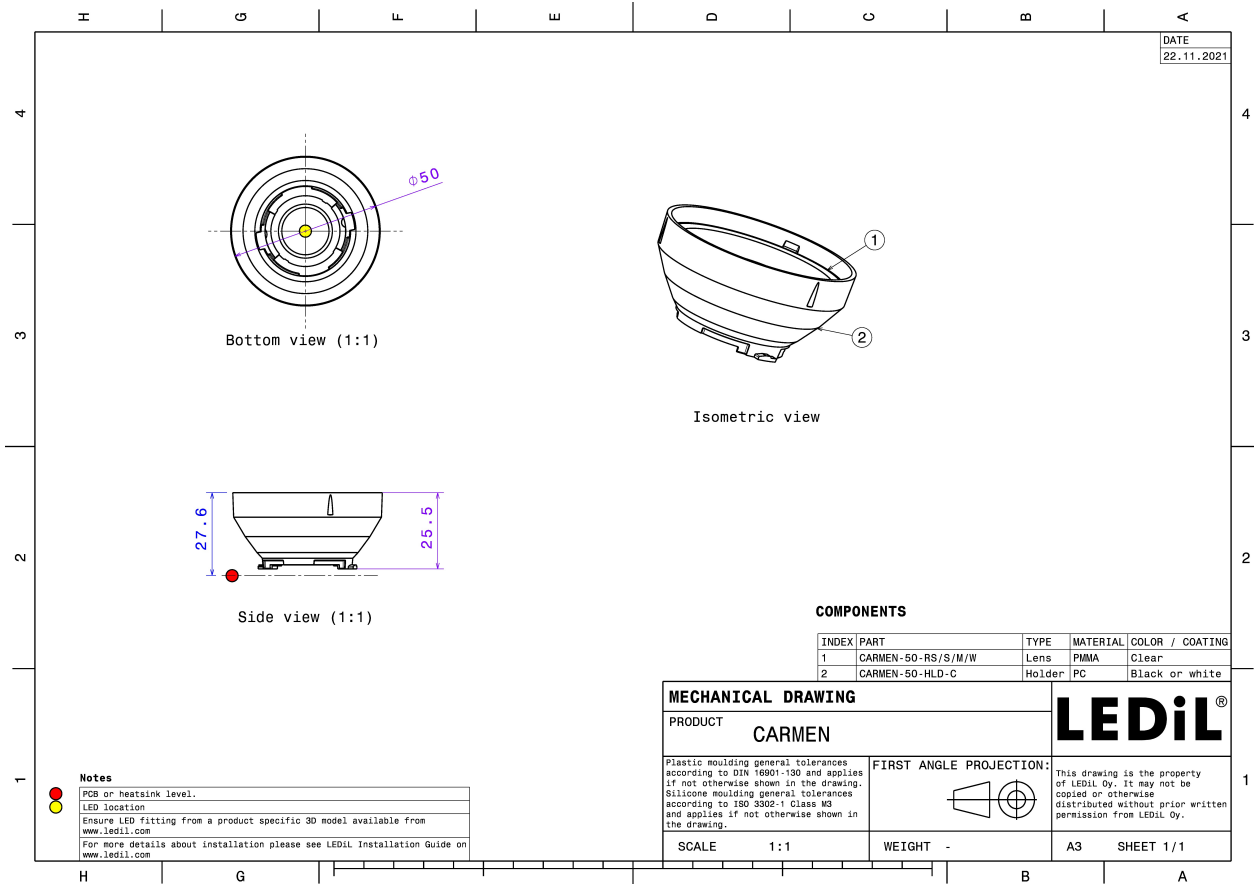


MATERIALS:

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

ORDERING INFORMATION:

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

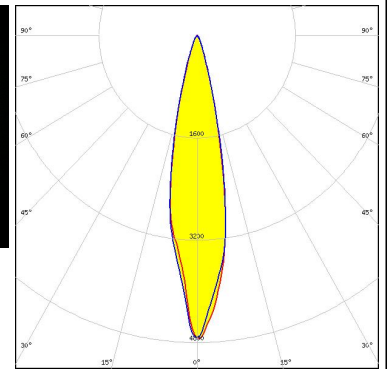
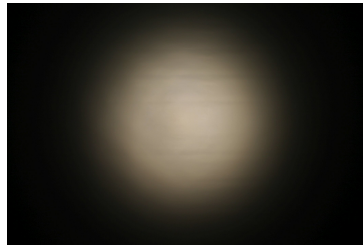


See also our general installation guide: www.ledil.com/installation_guide

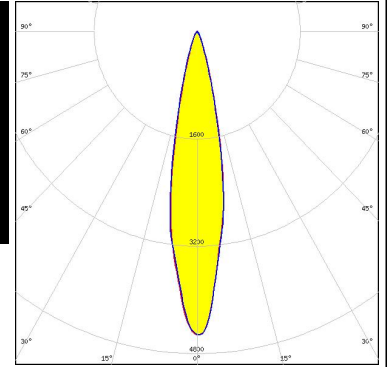
OPTICAL RESULTS (MEASURED):



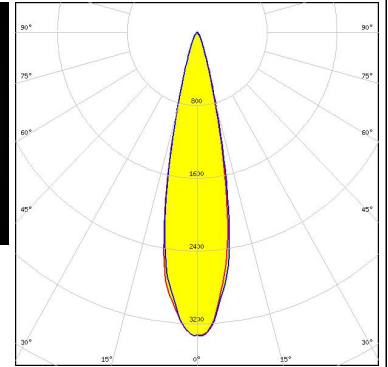
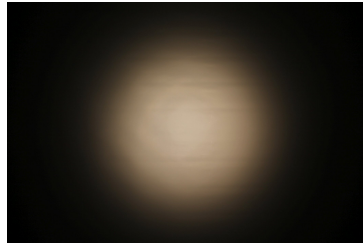
LED V4 HD Gen 7
FWHM / FWTM 21.0° / 38.0°
Efficiency 79 %
Peak intensity 4.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15253_HEKLA-SOCKET-A



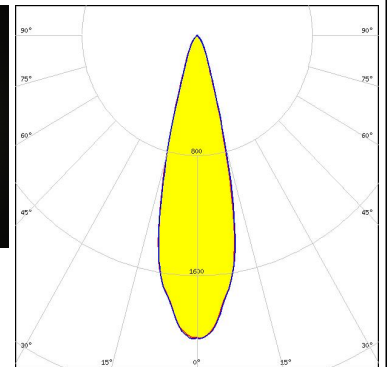
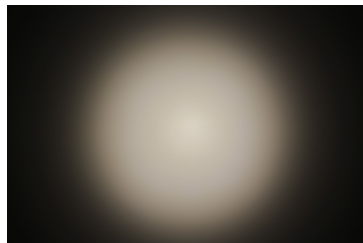
LED V6 HD Gen 7
FWHM / FWTM 20.0° / 38.0°
Efficiency 73 %
Peak intensity 4.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



LED V9 HD Gen7
FWHM / FWTM 23.0° / 40.0°
Efficiency 65 %
Peak intensity 3.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I



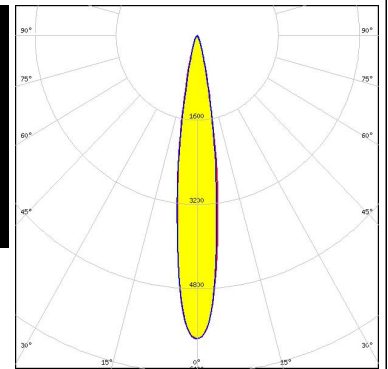
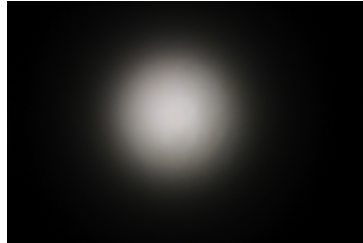
LED VERO13
FWHM / FWTM 27.0° / 46.0°
Efficiency 53 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16142_HEKLA-SOCKET-K



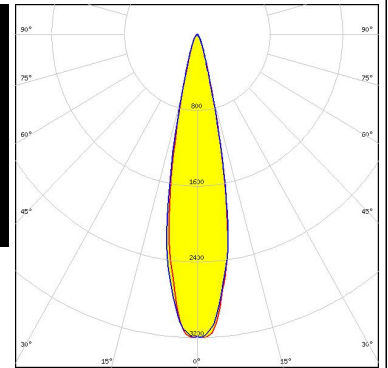
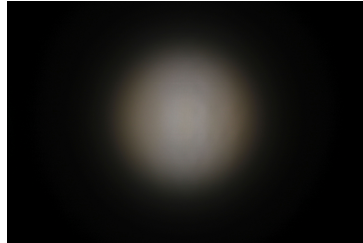
OPTICAL RESULTS (MEASURED):



LED Vesta TW 6mm DP
FWHM / FWTM 15.0° / 31.0°
Efficiency 63 %
Peak intensity 5.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16142_HEKLA-SOCKET-K
Bender Wirth: 504 Typ L8

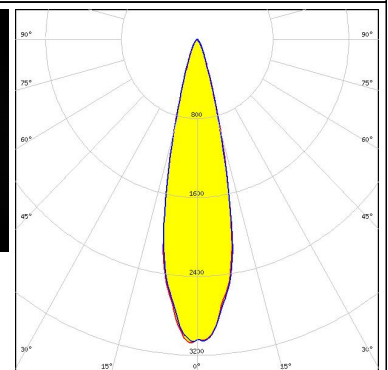
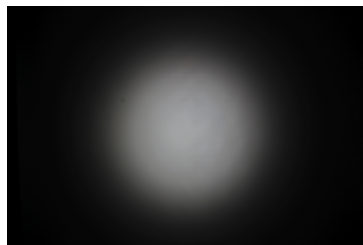


LED Vesta TW 9mm (9W) DP
FWHM / FWTM 22.0° / 37.0°
Efficiency 55 %
Peak intensity 3.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16142_HEKLA-SOCKET-K
Bender Wirth: 489 Typ L8



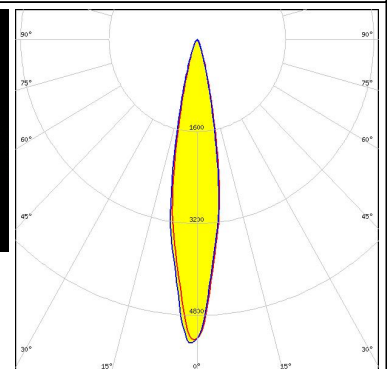
CITIZEN

LED CLL02x/CLU02x (LES10)
FWHM / FWTM 24.0° / 42.0°
Efficiency 66 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



CITIZEN

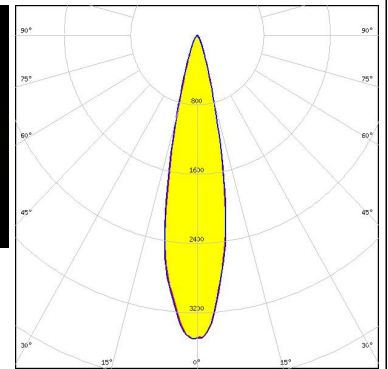
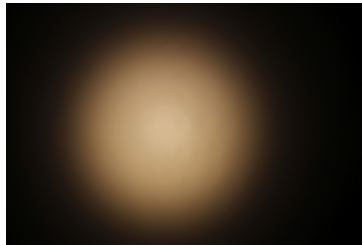
LED CLU700/701/702/703
FWHM / FWTM 19.0° / 35.0°
Efficiency 73 %
Peak intensity 5.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



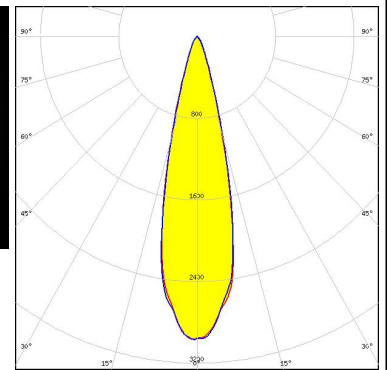
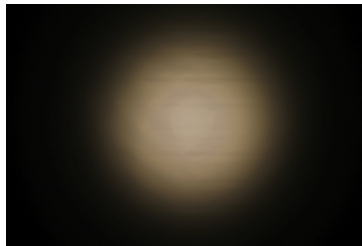
OPTICAL RESULTS (MEASURED):

CITIZEN

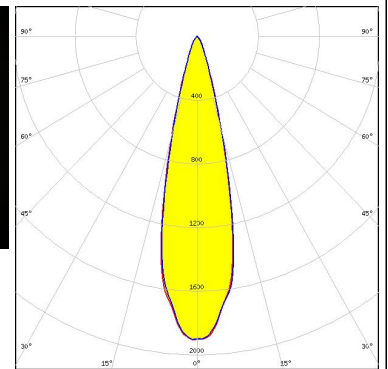
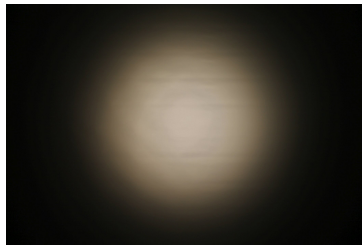
LED CLU710/711
FWHM / FWTM 22.0° / 39.0°
Efficiency 65 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I



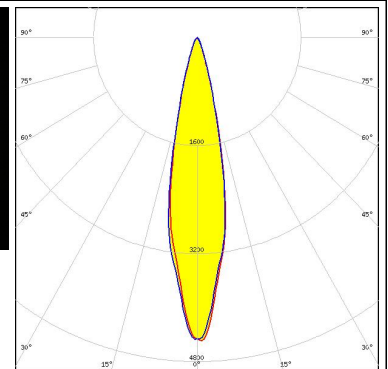
LED CMA1516
FWHM / FWTM 25.0° / 43.0°
Efficiency 68 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15256_HEKLA-SOCKET-D



LED CMT14xx
FWHM / FWTM 25.0° / 43.0°
Efficiency 44 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



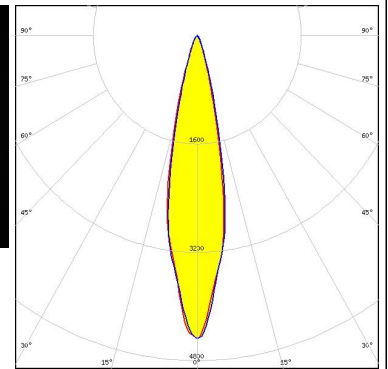
LED CXA/B 13xx
FWHM / FWTM 21.0° / 39.0°
Efficiency 76 %
Peak intensity 4.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15956_HEKLA-SOCKET-J



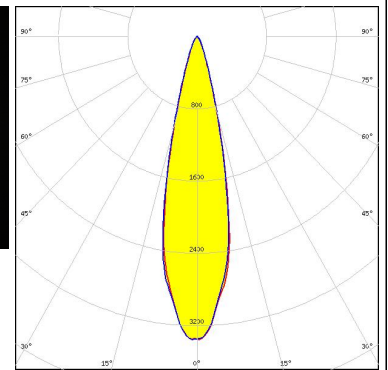
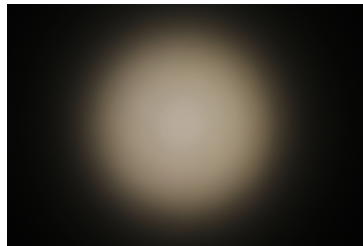
OPTICAL RESULTS (MEASURED):



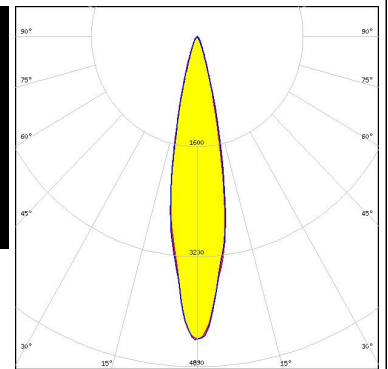
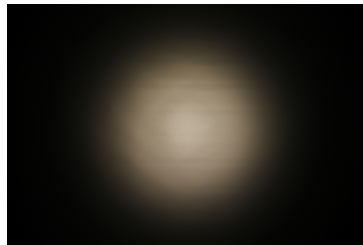
LED CXA/B 13xx
FWHM / FWTM 22.0° / 39.0°
Efficiency 77 %
Peak intensity 4.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15956_HEKLA-SOCKET-J



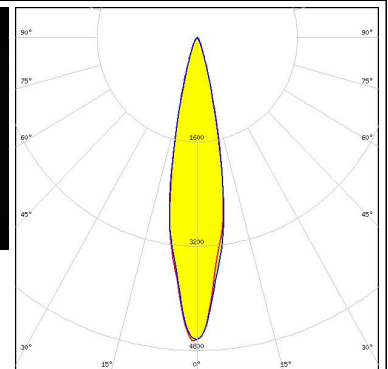
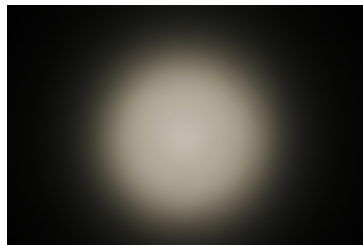
LED CXA/B 15xx
FWHM / FWTM 24.0° / 41.0°
Efficiency 69 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15256_HEKLA-SOCKET-D



LED LUXEON CoB 1202HD
FWHM / FWTM 21.0° / 38.0°
Efficiency 73 %
Peak intensity 4.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15848_HEKLA-SOCKET-G



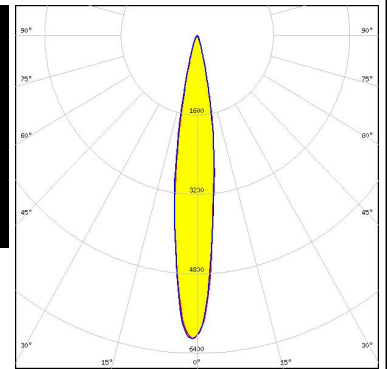
LED LUXEON CoB 1202s
FWHM / FWTM 21.0° / 38.0°
Efficiency 75 %
Peak intensity 4.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15848_HEKLA-SOCKET-G



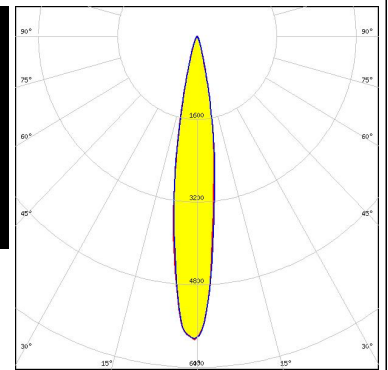
OPTICAL RESULTS (MEASURED):



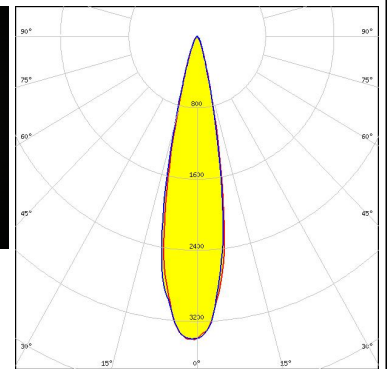
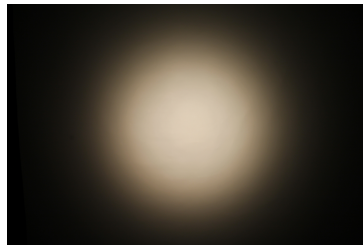
LED LUXEON CX Plus CoB - HD S01H4
 FWHM / FWTM 16.0° / 32.0°
 Efficiency 68 %
 Peak intensity 6.1 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 634c Hekla



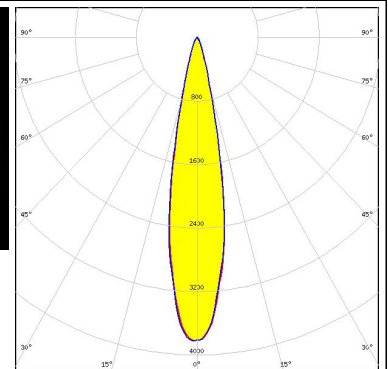
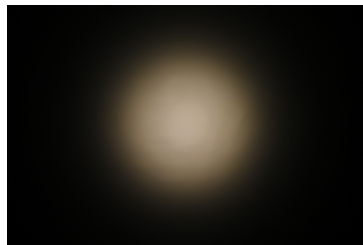
LED LUXEON CX Plus CoB - HD S02H6
 FWHM / FWTM 16.0° / 32.0°
 Efficiency 67 %
 Peak intensity 5.9 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 634c Hekla



LED LUXEON CX Plus CoB - HD S04H9
 FWHM / FWTM 22.0° / 38.0°
 Efficiency 61 %
 Peak intensity 3.4 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 634c Hekla



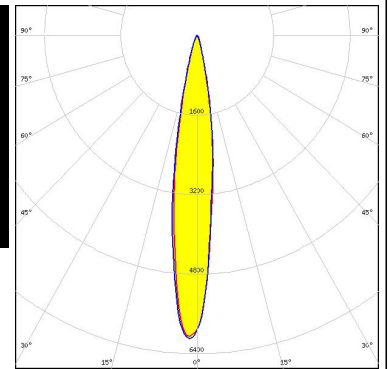
LED LUXEON CX Plus CoB M02 / M03 (Gen2)
 FWHM / FWTM 20.0° / 36.0°
 Efficiency 61 %
 Peak intensity 3.8 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 641a Hekla



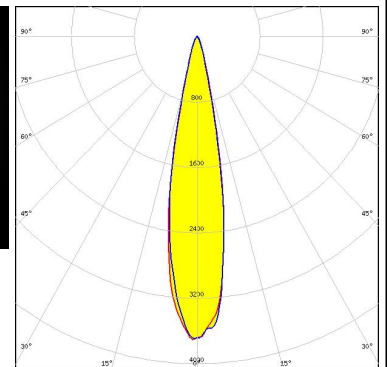
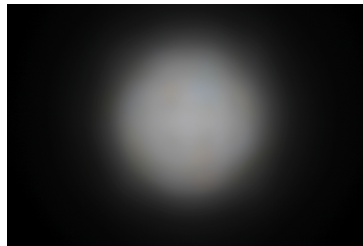
OPTICAL RESULTS (MEASURED):



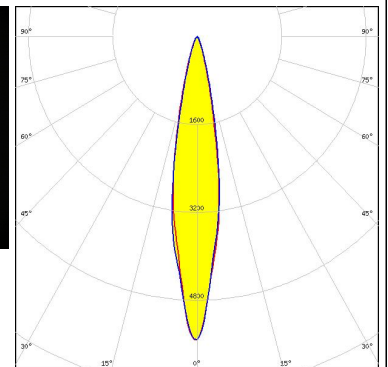
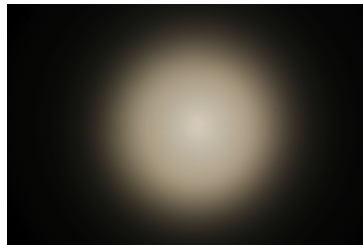
LED LUXEON CX Plus CoB S01 (Gen2)
 FWHM / FWTM 15.0° / 31.0°
 Efficiency 68 %
 Peak intensity 6.2 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 634c Hekla



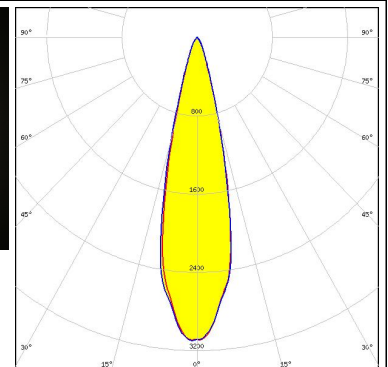
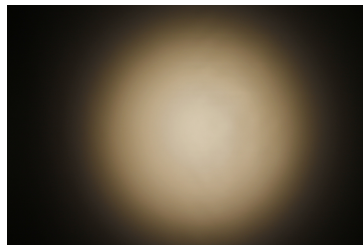
LED CDM-9 (Dim-To-Warm)
 FWHM / FWTM 21.0° / 35.0°
 Efficiency 57 %
 Peak intensity 3.7 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 490 Typ L8



LED CXM-4
 FWHM / FWTM 18.0° / 35.0°
 Efficiency 76 %
 Peak intensity 5.5 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



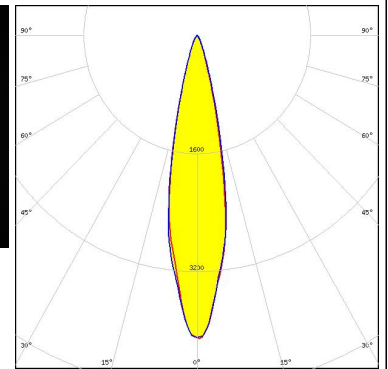
LED CxM-9 (13.5x13.5)
 FWHM / FWTM 24.0° / 42.0°
 Efficiency 67 %
 Peak intensity 3.1 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



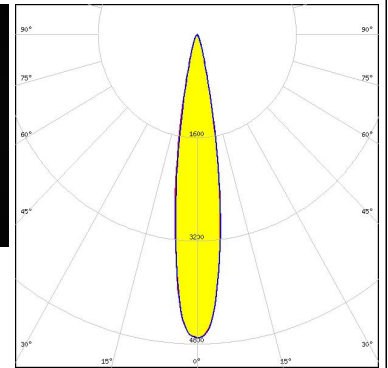
OPTICAL RESULTS (MEASURED):



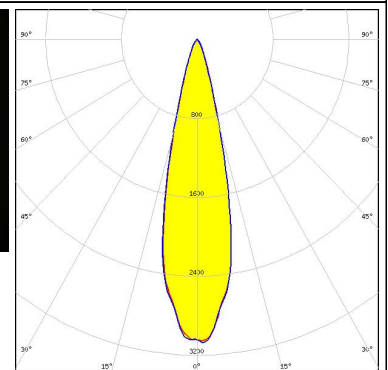
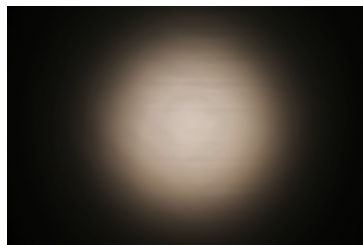
LED COB S-Type (LES 7)
 FWHM / FWTM 22.0° / 39.0°
 Efficiency 73 %
 Peak intensity 4.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15848_HEKLA-SOCKET-G



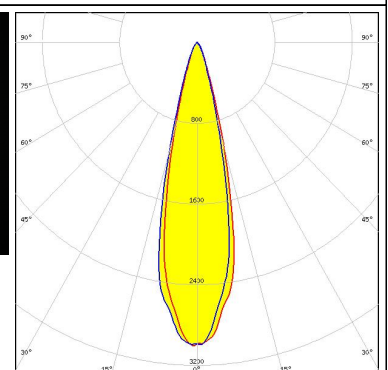
LED NJCWL024Z-V1MT: COB L-Type Tunable White
 FWHM / FWTM 17.0° / 31.0°
 Efficiency 56 %
 Peak intensity 4.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 497 Typ L8



LED Fortimo SLM L09 CoB
 FWHM / FWTM 24.0° / 41.0°
 Efficiency 65 %
 Peak intensity 3.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15858_HEKLA-SOCKET-H



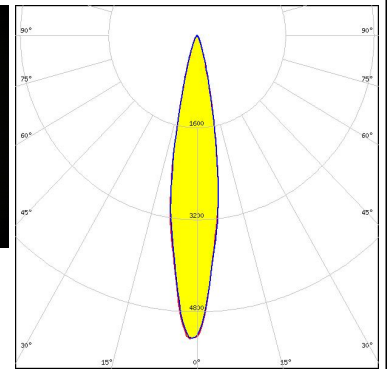
LED LC003D / LC006D / LC009D / LC013D
 FWHM / FWTM 25.0° / 43.0°
 Efficiency 67 %
 Peak intensity 3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



OPTICAL RESULTS (MEASURED):

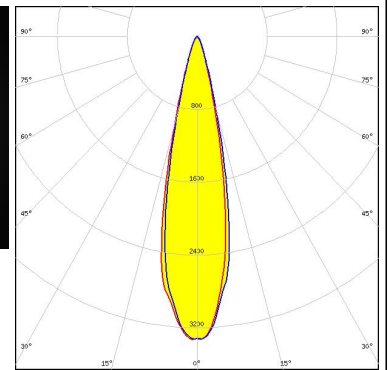
SAMSUNG

LED LC010C G2
FWHM / FWTM 19.0° / 35.0°
Efficiency 74 %
Peak intensity 5.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



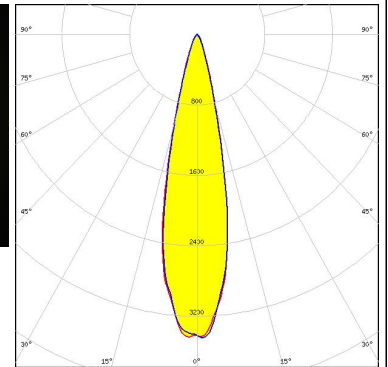
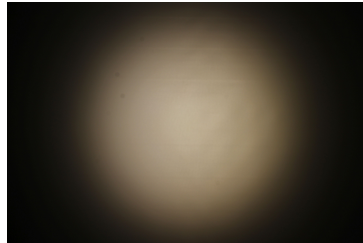
SAMSUNG

LED LC020C G2
FWHM / FWTM 23.0° / 40.0°
Efficiency 65 %
Peak intensity 3.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I



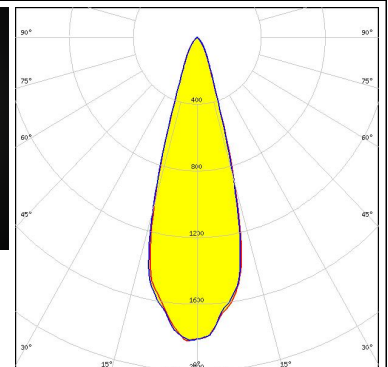
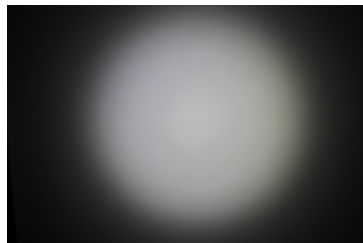
TRIDONIC

LED SLE G7 LES09
FWHM / FWTM 23.0° / 41.0°
Efficiency 69 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



TRIDONIC

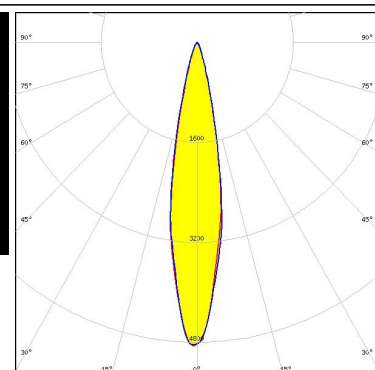
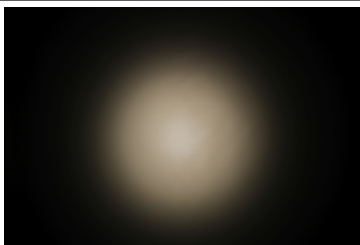
LED SLE G7 LES13
FWHM / FWTM 31.0° / 51.0°
Efficiency 58 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I



OPTICAL RESULTS (MEASURED):

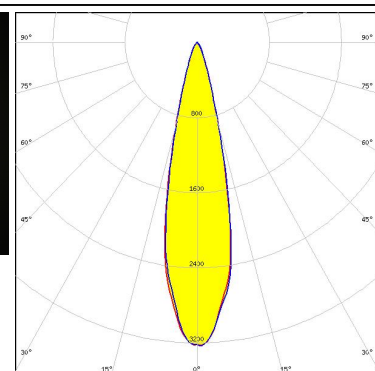
XICATO

LED XOB 6 mm
FWHM / FWTM 19.0° / 36.0°
Efficiency 73 %
Peak intensity 4.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



XICATO

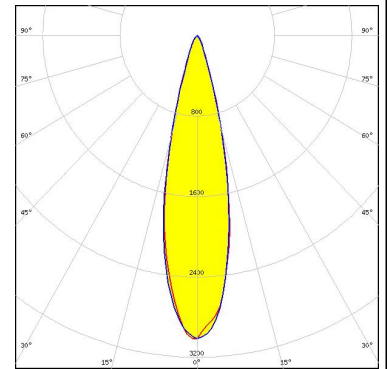
LED XOB 9.8 mm
FWHM / FWTM 24.0° / 42.0°
Efficiency 67 %
Peak intensity 3.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



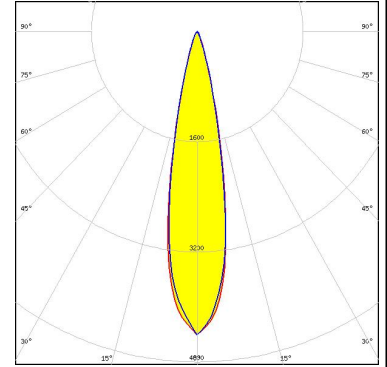
OPTICAL RESULTS (SIMULATED):



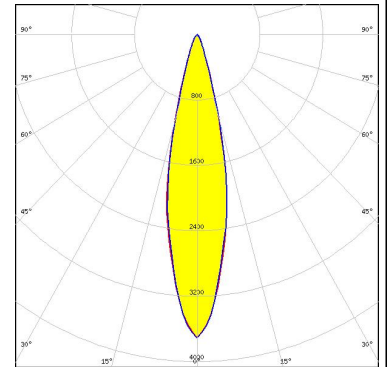
LED V10 Gen7
FWHM / FWTM 24.0° / 42.0°
Efficiency 65 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



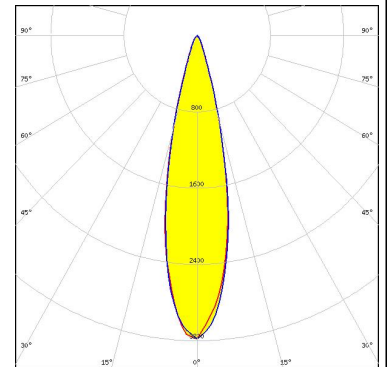
LED V6 Gen6
FWHM / FWTM 21.0° / 37.0°
Efficiency 71 %
Peak intensity 4.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15253_HEKLA-SOCKET-A



LED V8 Gen7
FWHM / FWTM 24.0° / 40.0°
Efficiency 71 %
Peak intensity 3.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15253_HEKLA-SOCKET-A



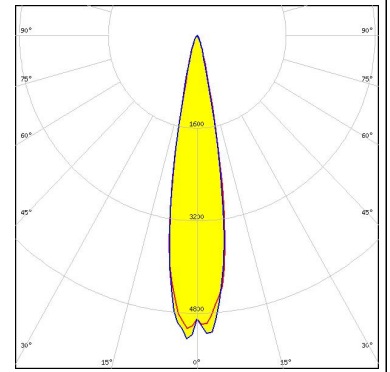
LED VERO10
FWHM / FWTM 24.0° / 41.0°
Efficiency 64 %
Peak intensity 3.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15616_HEKLA-SOCKET-F



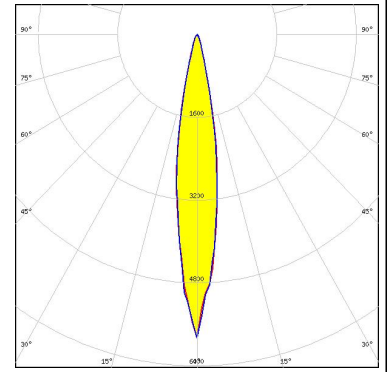
OPTICAL RESULTS (SIMULATED):



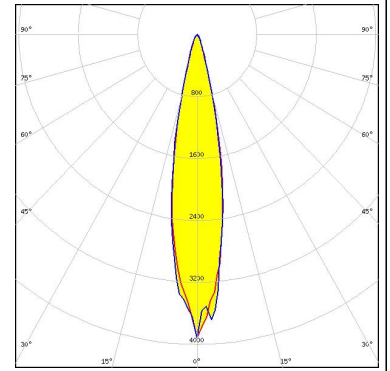
LED CHA0304
FWHM / FWTM 20.0° / 33.0°
Efficiency 72 %
Peak intensity 5.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F17435_HEKLA-G2-C



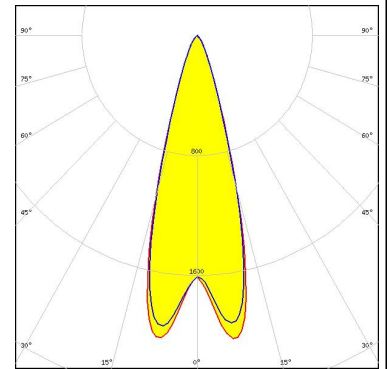
LED CHA0612
FWHM / FWTM 16.0° / 31.0°
Efficiency 66 %
Peak intensity 5.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F17435_HEKLA-G2-C



LED CHA0825
FWHM / FWTM 20.0° / 36.0°
Efficiency 60 %
Peak intensity 3.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F17438_HEKLA-G2-I



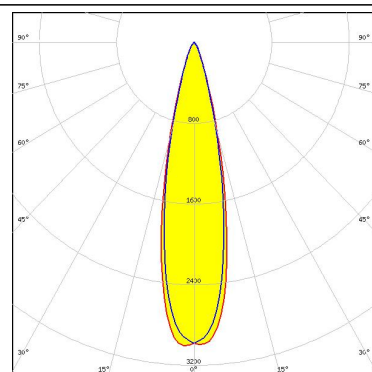
LED COB S-Type (LES 6)
FWHM / FWTM 30.0° / 50.0°
Efficiency 62 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15848_HEKLA-SOCKET-G



OPTICAL RESULTS (SIMULATED):

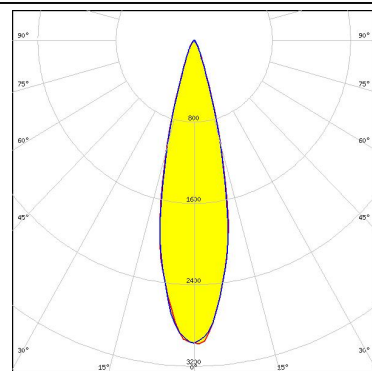
SAMSUNG

LED LH231B
FWHM / FWTM 23.0° / 42.0°
Efficiency 63 %
Peak intensity 3 cd/lm
LEDs/each optic 7
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



XICATO

LED XTM - 9mm LES
FWHM / FWTM 25.0° / 43.0°
Efficiency 67 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C15743_XTM-ADAPTER-50-B



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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