

CARMEN-50-M-C

~35° medium beam. Assembly with holder C compatible with LEDiL HEKLA.

SPECIFICATION:

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

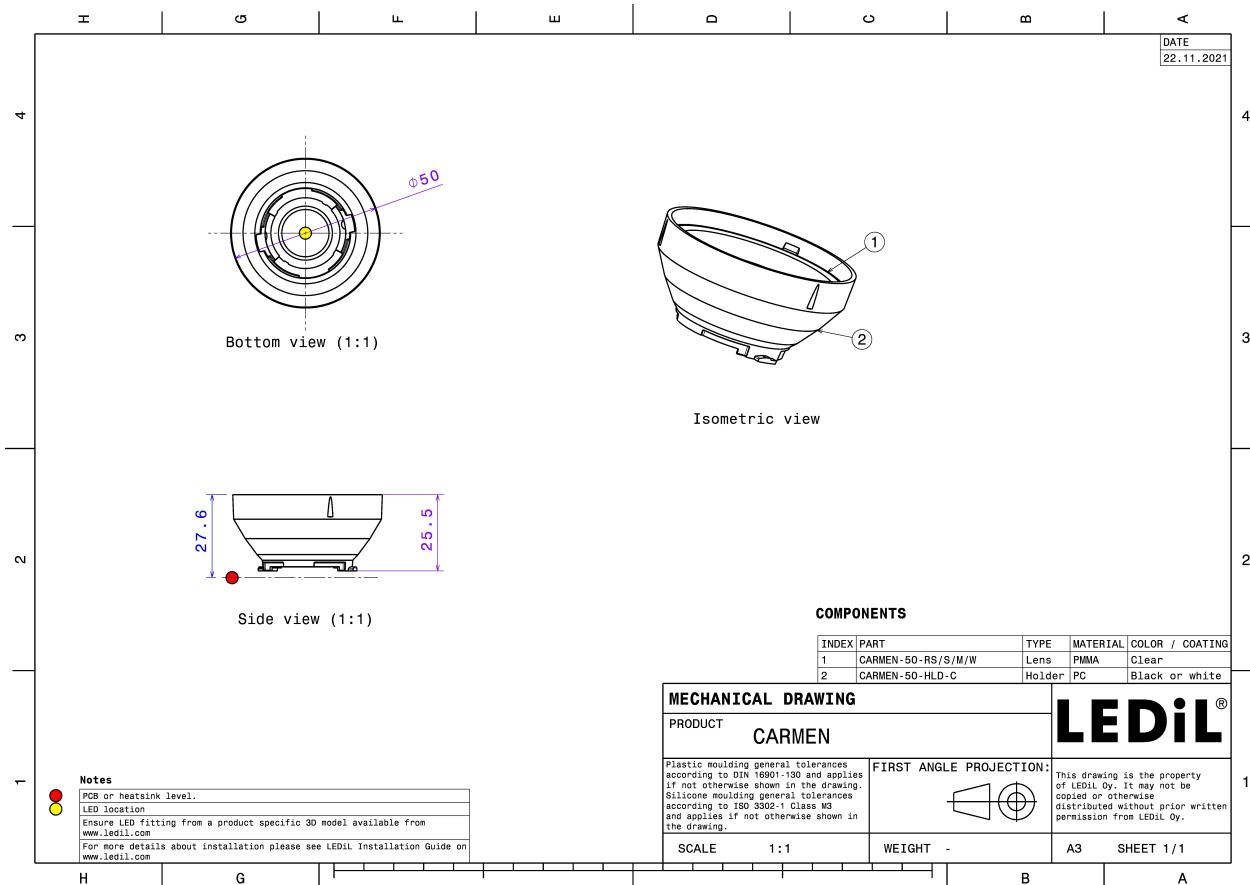


MATERIALS:

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

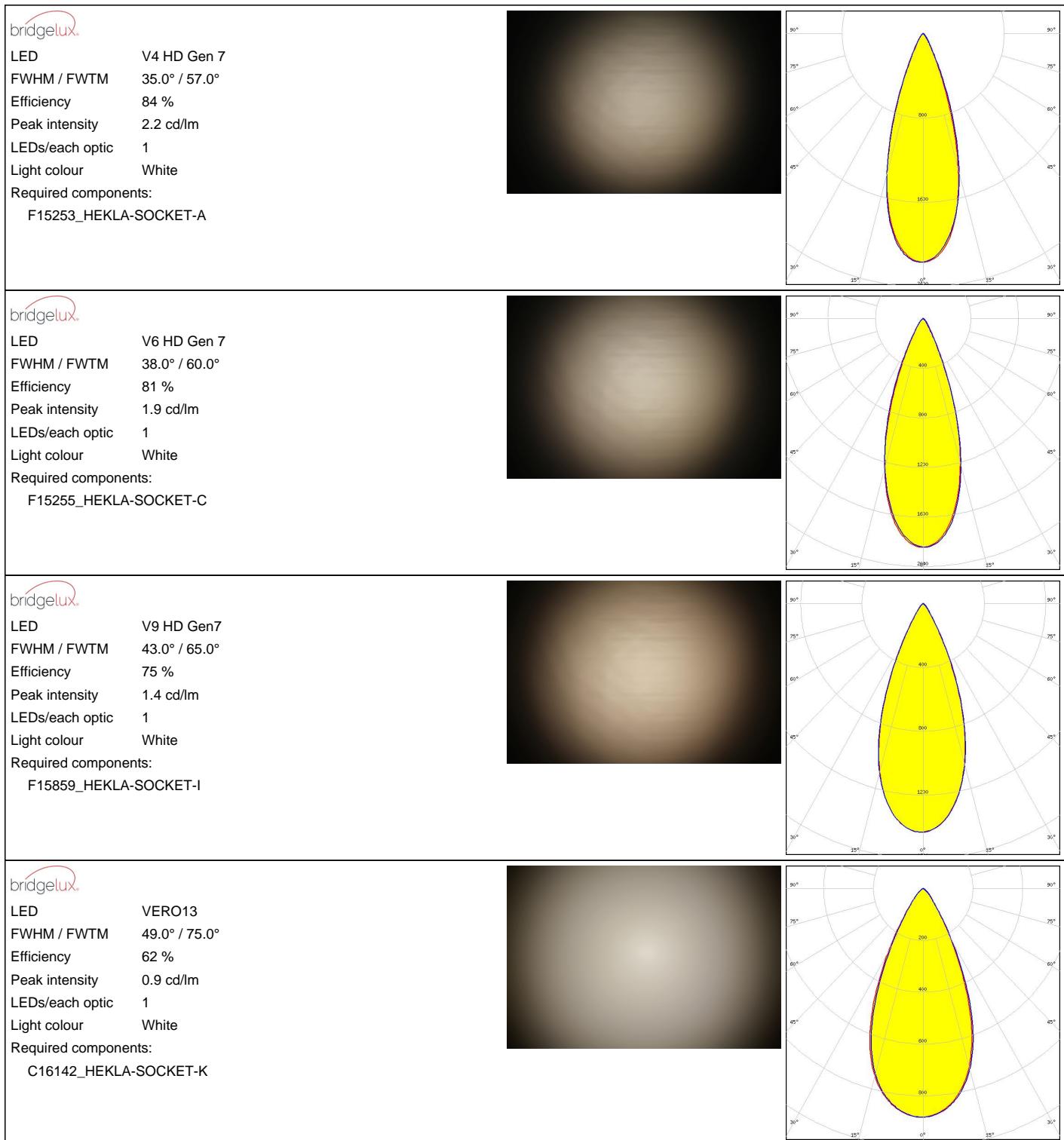
ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CP16108_CARMEN-50-M-C » Box size: 476 x 273 x 292 mm	Single lens	308	112	28



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

OPTICAL RESULTS (MEASURED):



OPTICAL RESULTS (MEASURED):



LED Vesta DTW 13mm (21W)

FWHM / FWTM 55.0° / 79.0°

Efficiency 59 %

Peak intensity 0.7 cd/lm

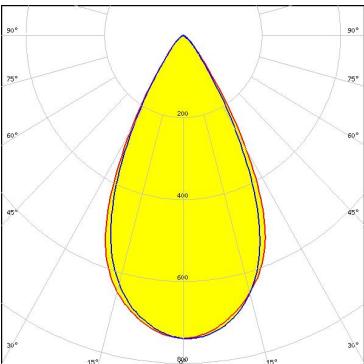
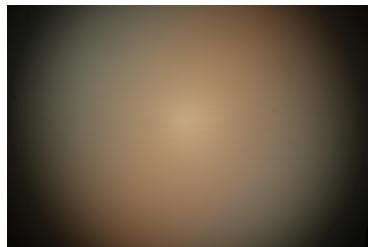
LEDs/each optic 1

Light colour Tunable White

Required components:

C16142_HEKLA-SOCKET-K

Bender Wirth: 491 Typ L8



LED Vesta TW 6mm DP

FWHM / FWTM 32.0° / 55.0°

Efficiency 67 %

Peak intensity 2 cd/lm

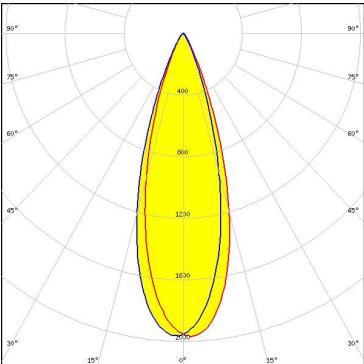
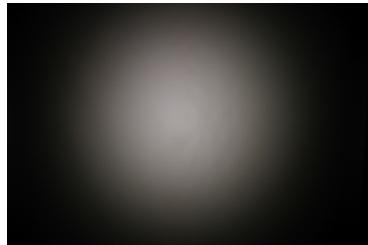
LEDs/each optic 1

Light colour White

Required components:

C16142_HEKLA-SOCKET-K

Bender Wirth: 504 Typ L8



LED Vesta TW 9mm (9W) DP

FWHM / FWTM 41.0° / 65.0°

Efficiency 62 %

Peak intensity 1.2 cd/lm

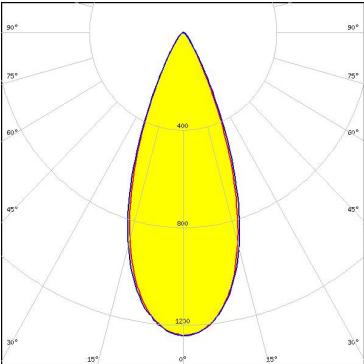
LEDs/each optic 1

Light colour White

Required components:

C16142_HEKLA-SOCKET-K

Bender Wirth: 489 Typ L8



CITIZEN

LED CLL02x/CLU02x (LES10)

FWHM / FWTM 46.0° / 72.0°

Efficiency 76 %

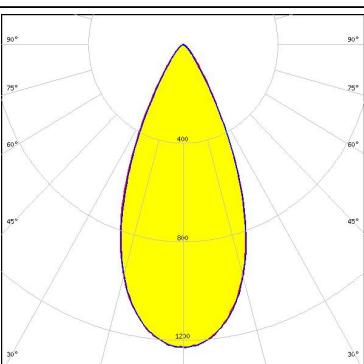
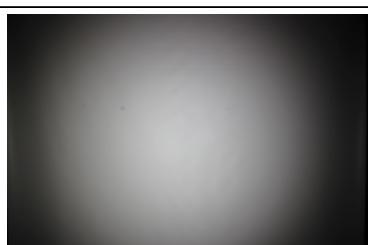
Peak intensity 1.2 cd/lm

LEDs/each optic 1

Light colour White

Required components:

F15255_HEKLA-SOCKET-C



OPTICAL RESULTS (MEASURED):

CITIZEN

LED CLU700/701/702/703

FWHM / FWTM 36.0° / 59.0°

Efficiency 80 %

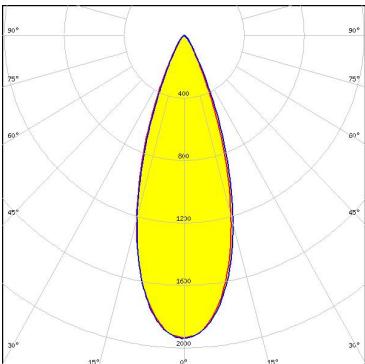
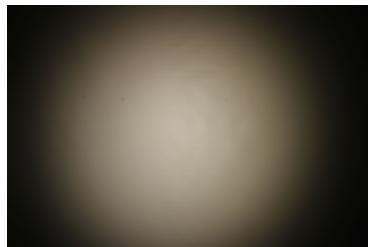
Peak intensity 1.9 cd/lm

LEDs/each optic 1

Light colour White

Required components:

F15255_HEKLA-SOCKET-C



CITIZEN

LED CLU710/711

FWHM / FWTM 41.0° / 65.0°

Efficiency 73 %

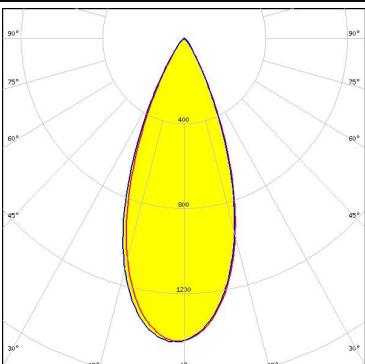
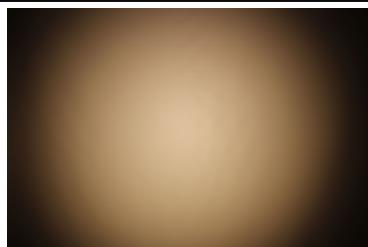
Peak intensity 1.4 cd/lm

LEDs/each optic 1

Light colour White

Required components:

F15859_HEKLA-SOCKET-I



CITIZEN

LED CLU7A2/7A3

FWHM / FWTM 35.0° / 56.0°

Efficiency 84 %

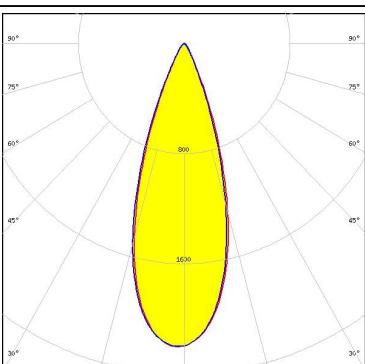
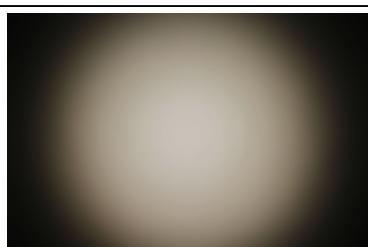
Peak intensity 2.2 cd/lm

LEDs/each optic 1

Light colour White

Required components:

F15255_HEKLA-SOCKET-C



CITIZEN

LED CLU7B2

FWHM / FWTM 32.0° / 53.0°

Efficiency 82 %

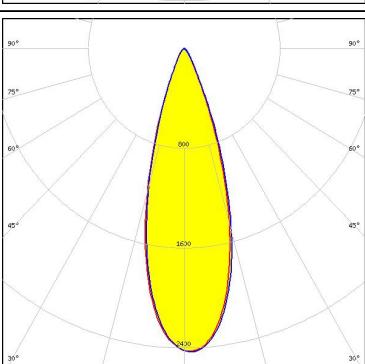
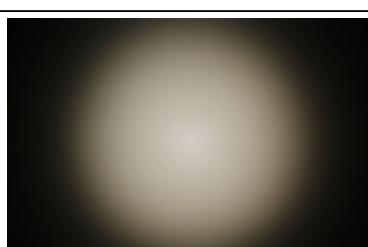
Peak intensity 2.4 cd/lm

LEDs/each optic 1

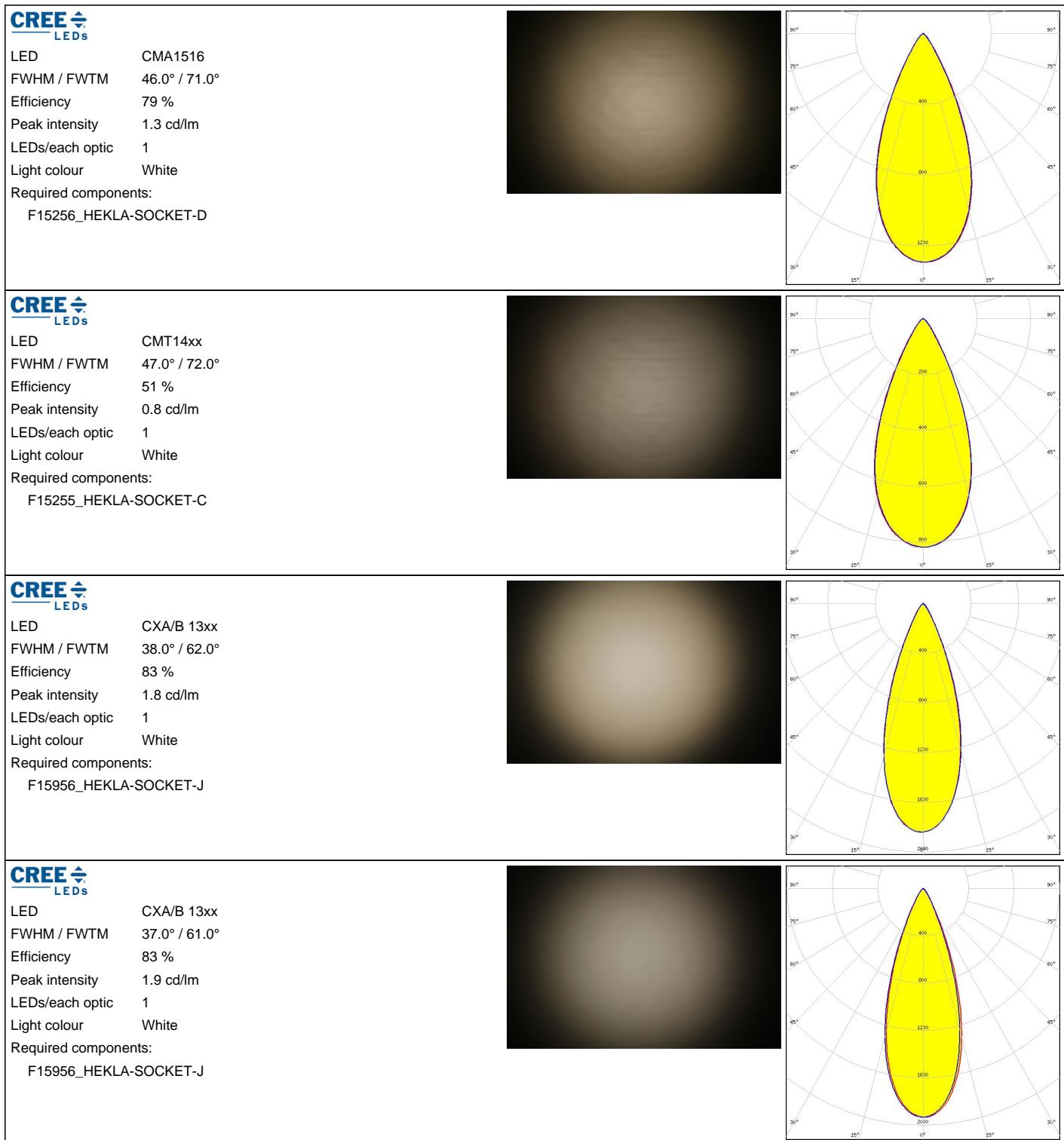
Light colour White

Required components:

F15255_HEKLA-SOCKET-C



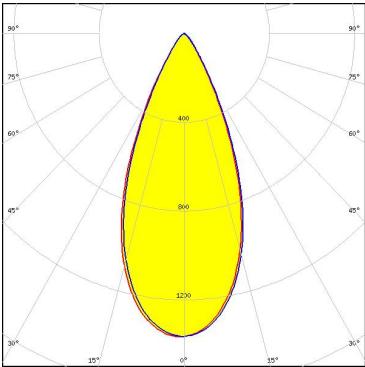
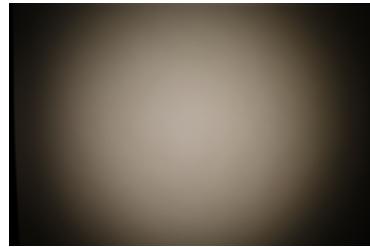
OPTICAL RESULTS (MEASURED):



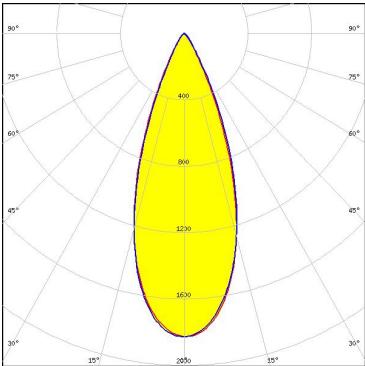
OPTICAL RESULTS (MEASURED):



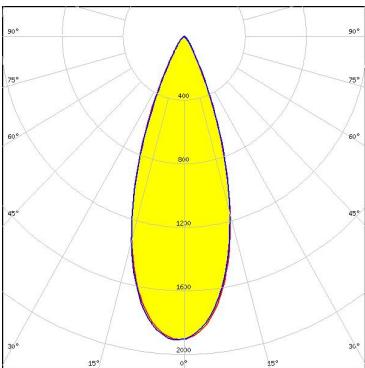
LED CXA/B 15xx
FWHM / FWTM 45.0° / 69.0°
Efficiency 79 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15256_HEKLA-SOCKET-D



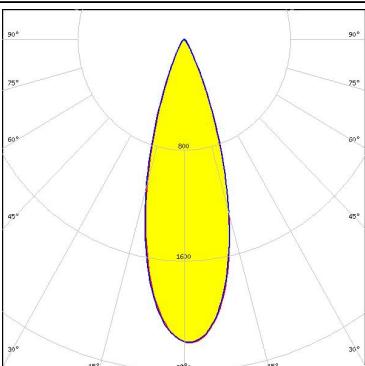
LED LUXEON CoB 1202HD
FWHM / FWTM 38.0° / 61.0°
Efficiency 82 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15848_HEKLA-SOCKET-G



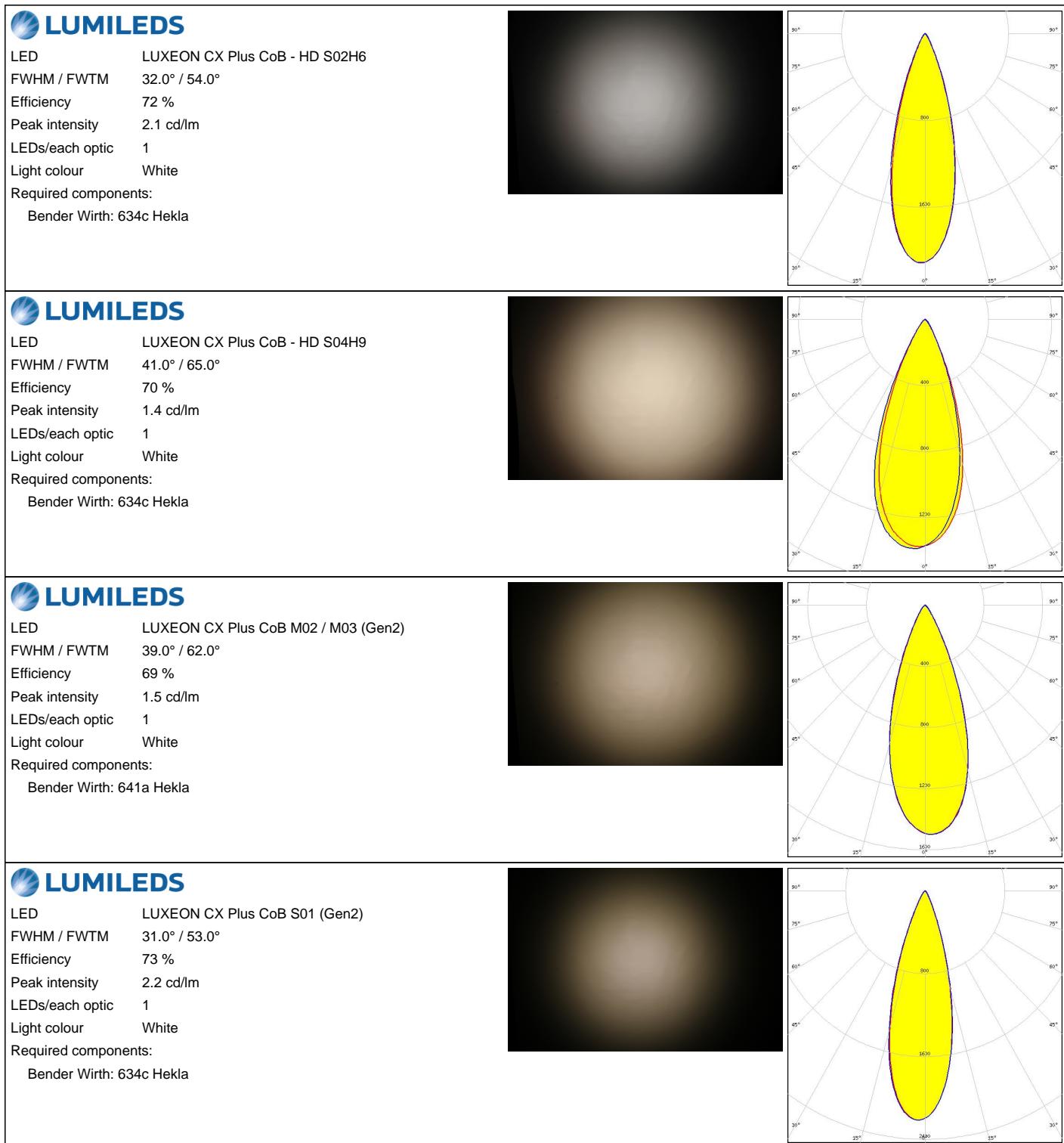
LED LUXEON CoB 1202s
FWHM / FWTM 37.0° / 60.0°
Efficiency 81 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15848_HEKLA-SOCKET-G



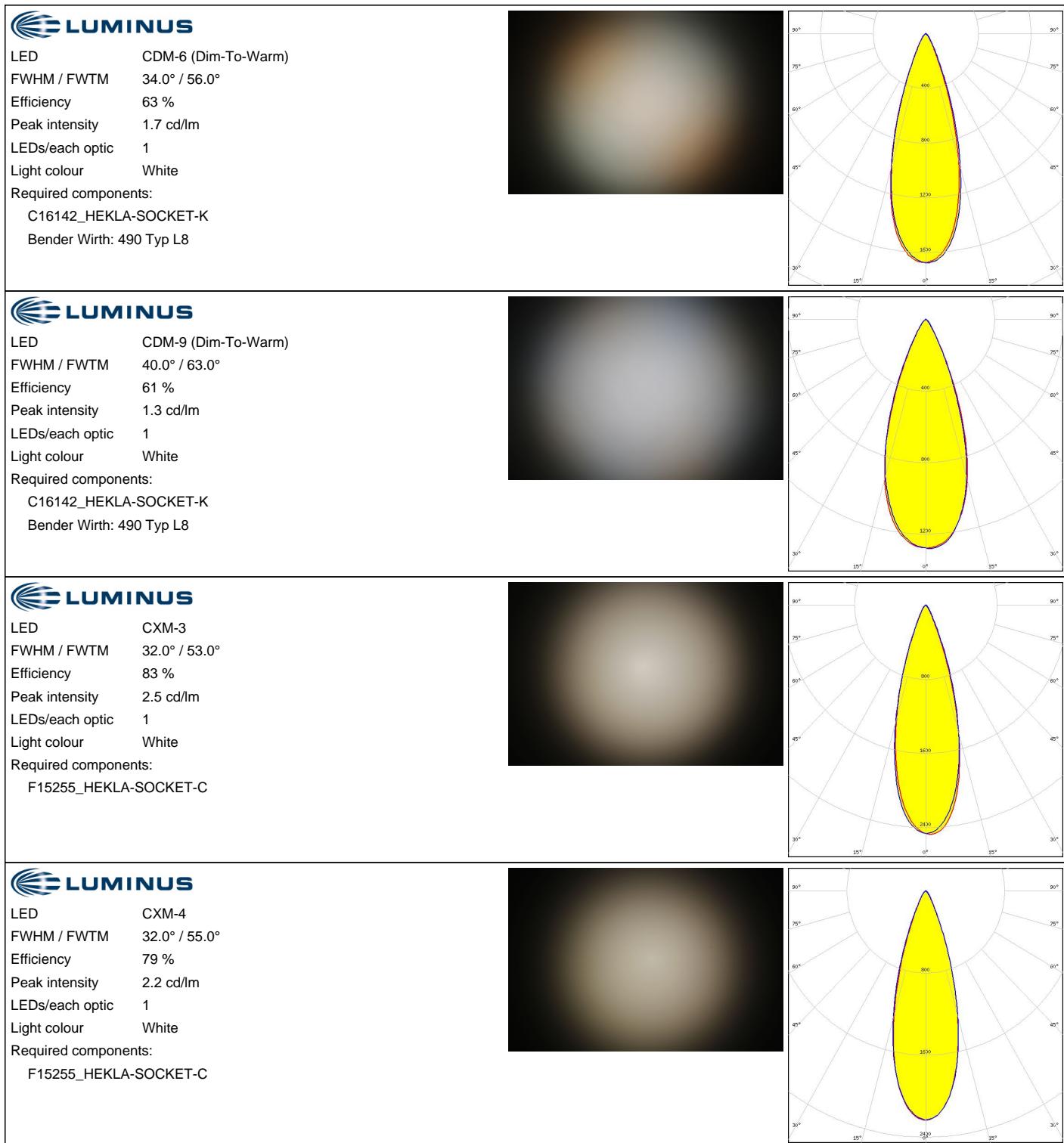
LED LUXEON CX Plus CoB - HD S01H4
FWHM / FWTM 32.0° / 54.0°
Efficiency 73 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
Bender Wirth: 634c Hekla



OPTICAL RESULTS (MEASURED):



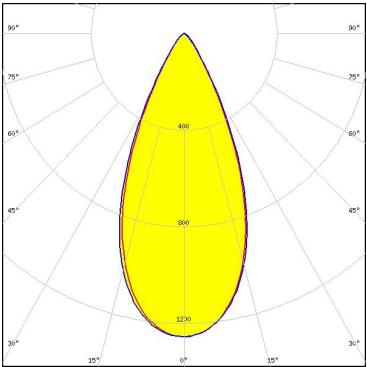
OPTICAL RESULTS (MEASURED):



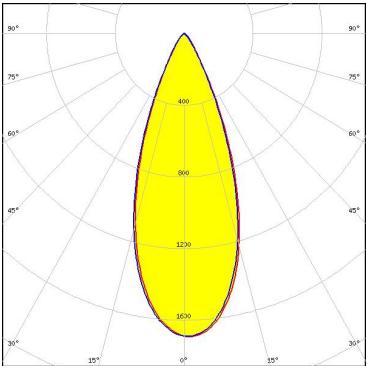
OPTICAL RESULTS (MEASURED):



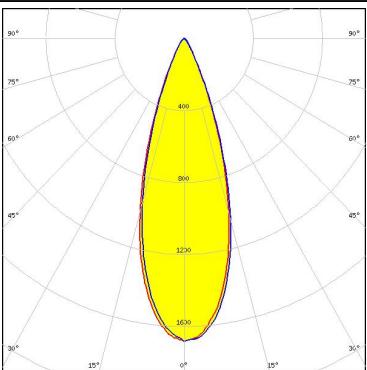
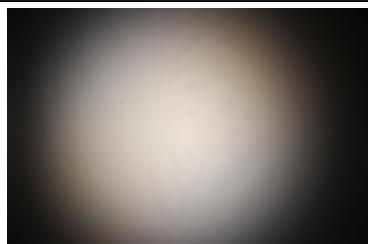
LED CxM-9 (13.5x13.5)
 FWHM / FWTM 46.0° / 71.0°
 Efficiency 77 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



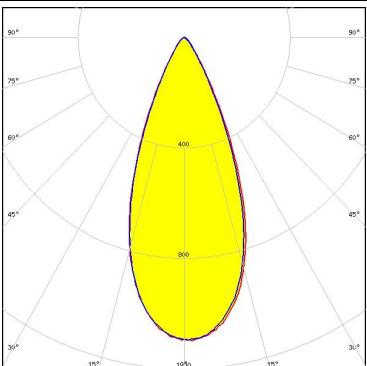
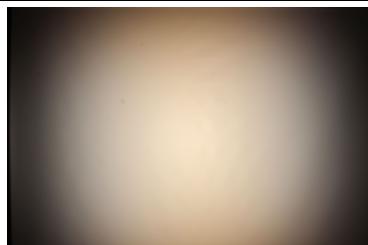
LED COB S-Type (LES 7)
 FWHM / FWTM 39.0° / 64.0°
 Efficiency 80 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15848_HEKLA-SOCKET-G



LED NJCWL024Z-V1MT: COB L-Type Tunable White
 FWHM / FWTM 34.0° / 56.0°
 Efficiency 62 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 497 Typ L8



LED NVCWJ024Z-V1MT: COB J-Type Tunable White
 FWHM / FWTM 42.0° / 67.0°
 Efficiency 61 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 498 Typ L8



OPTICAL RESULTS (MEASURED):

PHILIPS

LED Fortimo SLM L09 CoB

FWHM / FWTM 45.0° / 68.0°

Efficiency 76 %

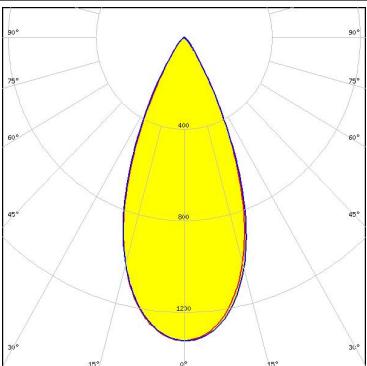
Peak intensity 1.3 cd/lm

LEDs/each optic 1

Light colour White

Required components:

F15858_HEKLA-SOCKET-H



SAMSUNG

LED LC003D / LC006D / LC009D / LC013D

FWHM / FWTM 47.0° / 73.0°

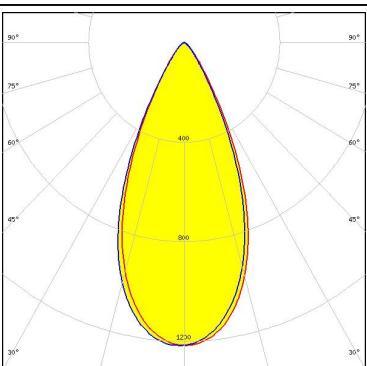
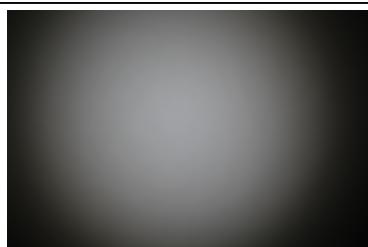
Efficiency 77 %

Peak intensity 1.2 cd/lm

LEDs/each optic 1

Light colour White

Required components:



SAMSUNG

LED LC010C G2

FWHM / FWTM 36.0° / 58.0°

Efficiency 80 %

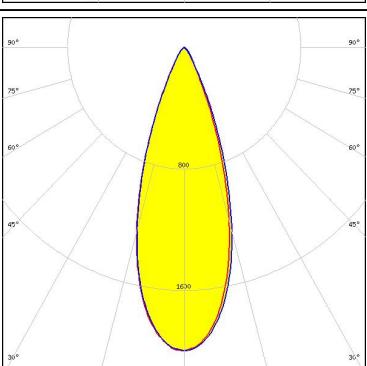
Peak intensity 2 cd/lm

LEDs/each optic 1

Light colour White

Required components:

F15255_HEKLA-SOCKET-C



SAMSUNG

LED LC010T (Tunable White)

FWHM / FWTM 39.0° / 64.0°

Efficiency 61 %

Peak intensity 1.3 cd/lm

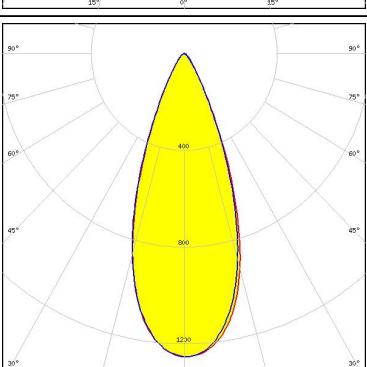
LEDs/each optic 1

Light colour Tunable White

Required components:

C16142_HEKLA-SOCKET-K

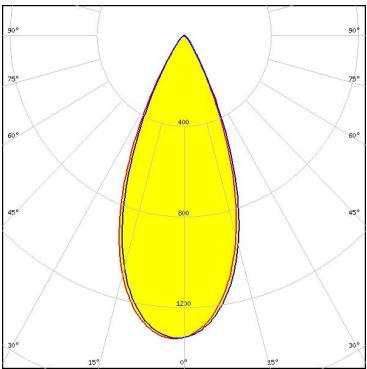
Bender Wirth: 501 Typ L8



OPTICAL RESULTS (MEASURED):

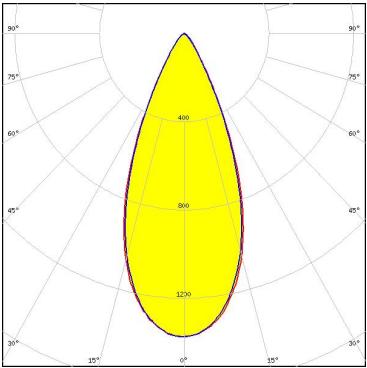
SAMSUNG

LED LC020C G2
FWHM / FWTM 43.0° / 67.0°
Efficiency 73 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I



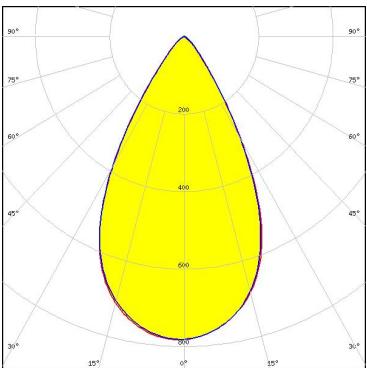
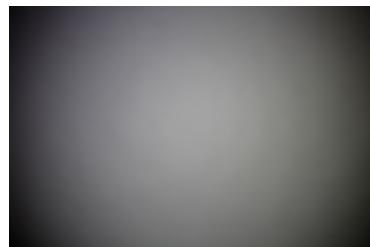
TRIDONIC

LED SLE G7 LES09
FWHM / FWTM 44.0° / 69.0°
Efficiency 77 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



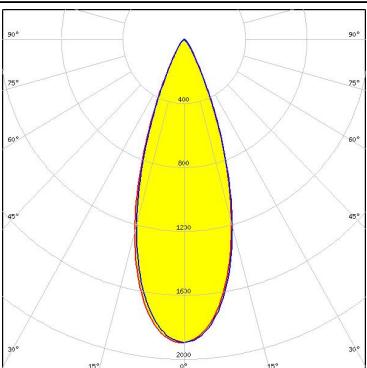
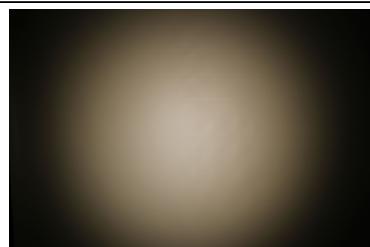
TRIDONIC

LED SLE G7 LES13
FWHM / FWTM 57.0° / 82.0°
Efficiency 67 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I



XICATO

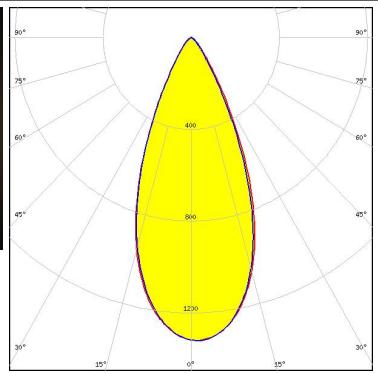
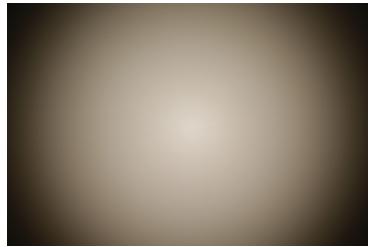
LED XOB 6 mm
FWHM / FWTM 36.0° / 59.0°
Efficiency 78 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



OPTICAL RESULTS (MEASURED):

XICATO

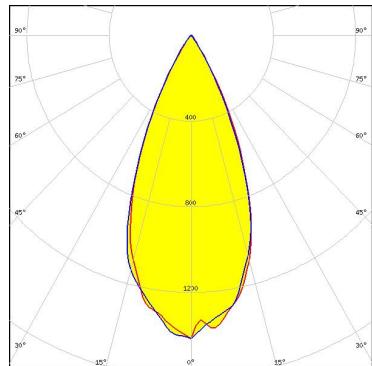
LED XOB 9.8 mm
FWHM / FWTM 44.0° / 70.0°
Efficiency 76 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



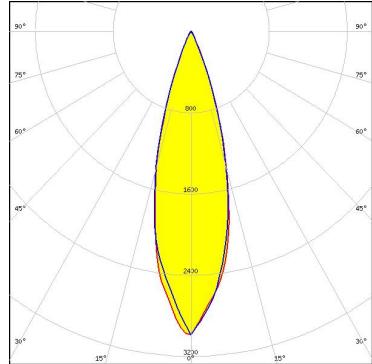
OPTICAL RESULTS (SIMULATED):



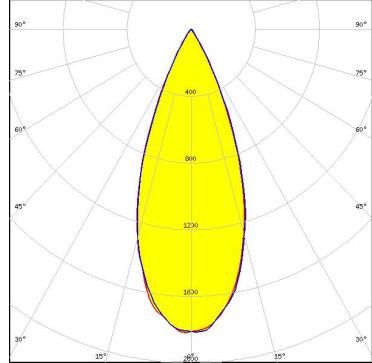
LED	V10 Gen7
FWHM / FWTM	44.0° / 66.0°
Efficiency	75 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F15255_HEKLA-SOCKET-C



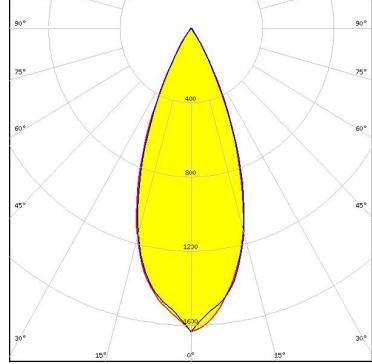
LED	V6 Gen6
FWHM / FWTM	29.0° / 48.0°
Efficiency	77 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F15253_HEKLA-SOCKET-A



LED	V8 Gen7
FWHM / FWTM	40.0° / 62.0°
Efficiency	83 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F15253_HEKLA-SOCKET-A



LED	VERO10
FWHM / FWTM	40.0° / 63.0°
Efficiency	74 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F15616_HEKLA-SOCKET-F



OPTICAL RESULTS (SIMULATED):



LED COB S-Type (LES 6)

FWHM / FWTM 32.0° / 52.0°

Efficiency 69 %

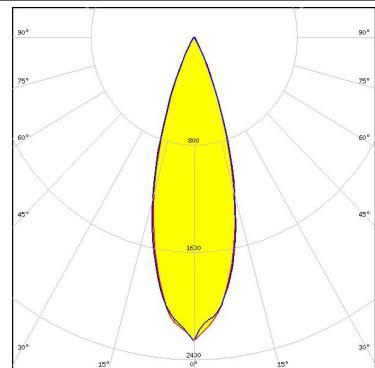
Peak intensity 2.3 cd/lm

LEDs/each optic 1

Light colour White

Required components:

F15848_HEKLA-SOCKET-G



LED LC003D / LC006D / LC009D / LC013D

FWHM / FWTM 46.0° / 67.0°

Efficiency 71 %

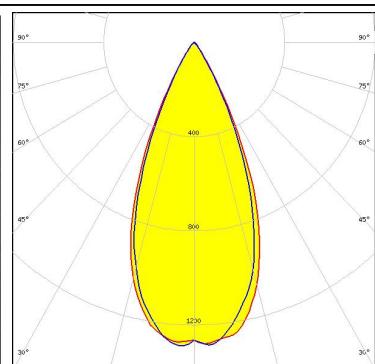
Peak intensity 1.3 cd/lm

LEDs/each optic 1

Light colour White

Required components:

F17435_HEKLA-G2-C



LED LC003D / LC006D / LC009D / LC013D

FWHM / FWTM 44.0° / 66.0°

Efficiency 71 %

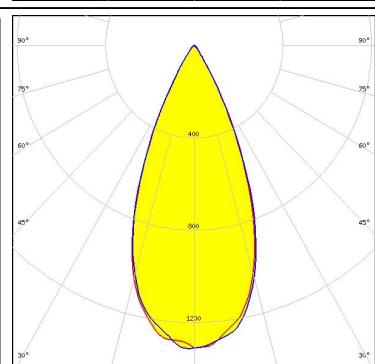
Peak intensity 1.3 cd/lm

LEDs/each optic 1

Light colour White

Required components:

F17435_HEKLA-G2-C



LED LC010C

FWHM / FWTM 34.0° / 54.0°

Efficiency 77 %

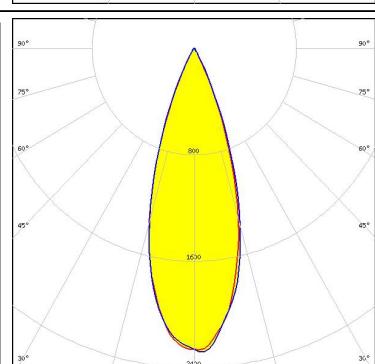
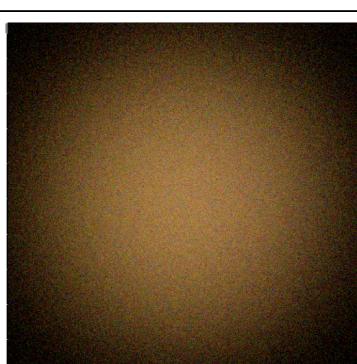
Peak intensity 2.3 cd/lm

LEDs/each optic 1

Light colour White

Required components:

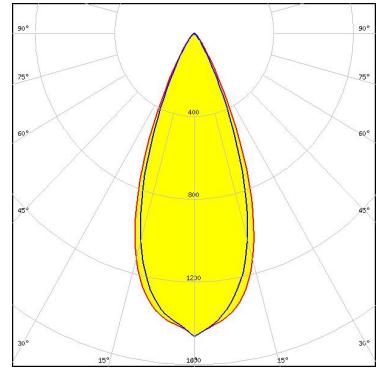
F17435_HEKLA-G2-C



OPTICAL RESULTS (SIMULATED):

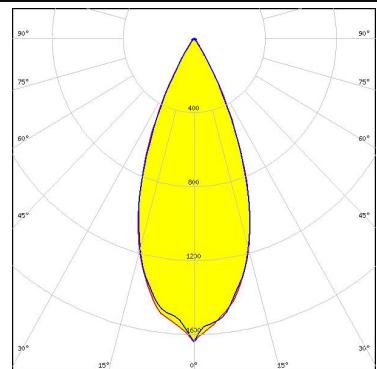
SAMSUNG

LED LH231B
FWHM / FWTM 41.0° / 65.0°
Efficiency 73 %
Peak intensity 1.5 cd/lm
LEDs/each optic 7
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



XICATO

LED XTM - 9mm LES
FWHM / FWTM 42.0° / 63.0°
Efficiency 79 %
Peak intensity 1.6 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.

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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