

CARMEN-M-C

~35° medium 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 ⓘ

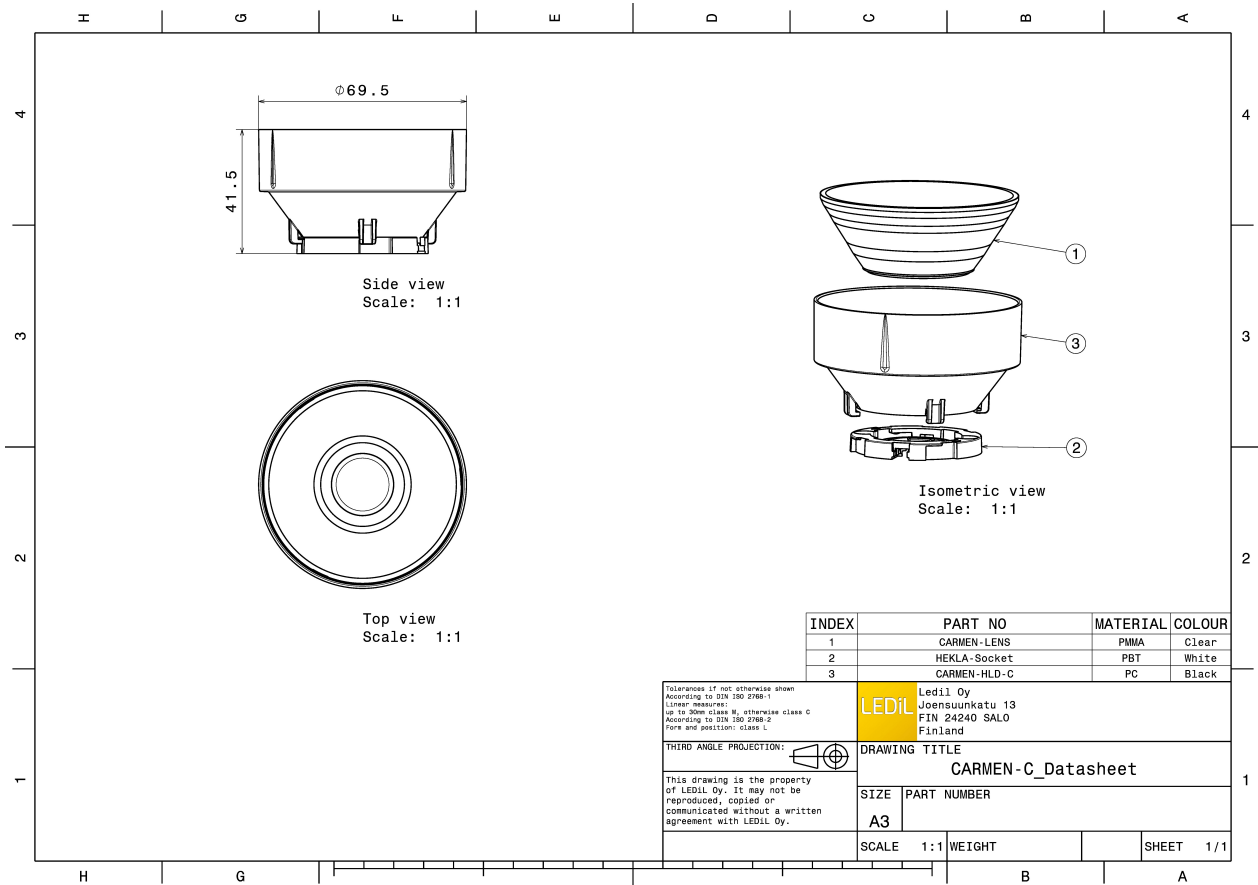
MATERIAL SPECIFICATIONS:

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

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CP15775_CARMEN-M-C	Single lens	150	150	15	4.6
» Box size: 476 x 273 x 292 mm					

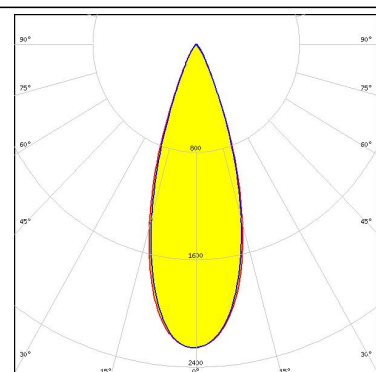
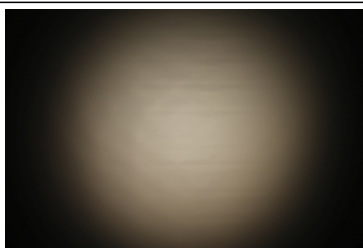




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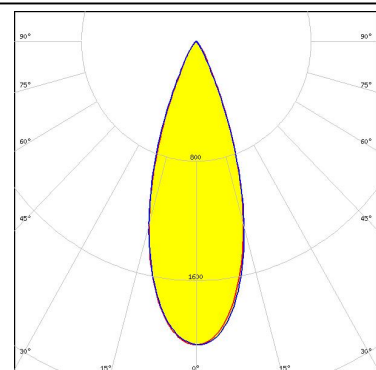
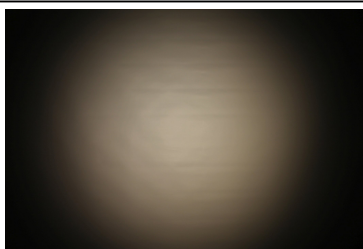
bridgelux.

LED V4 HD
FWHM 34.0°
Efficiency 82 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15253_HEKLA-SOCKET-A



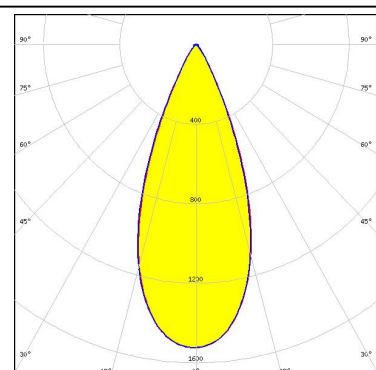
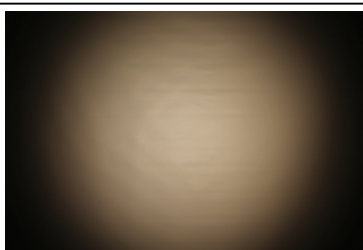
bridgelux.

LED V6 HD
FWHM 36.0°
Efficiency 79 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



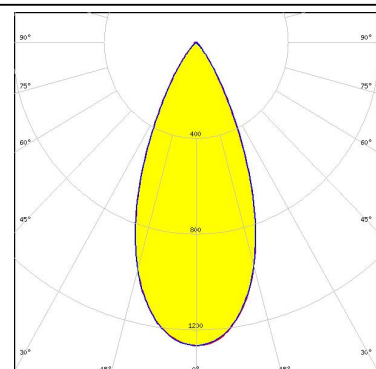
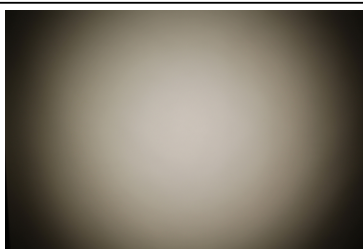
bridgelux.

LED V9 HD
FWHM 41.0°
Efficiency 74 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I



bridgelux.

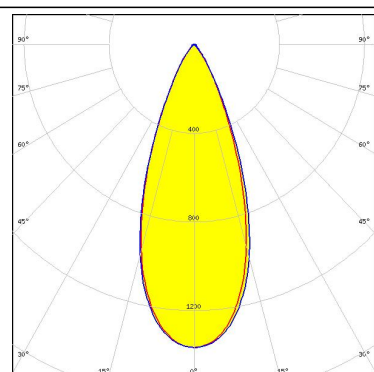
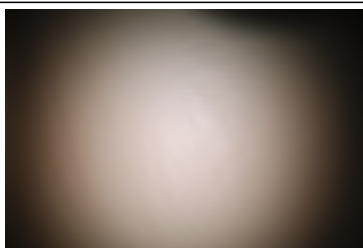
LED VERO10
FWHM 45.0°
Efficiency 74 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15616_HEKLA-SOCKET-F



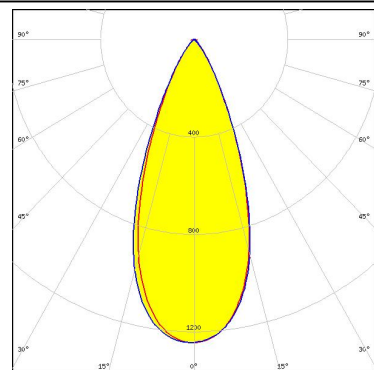
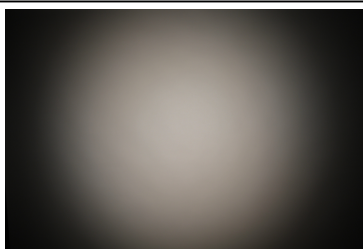
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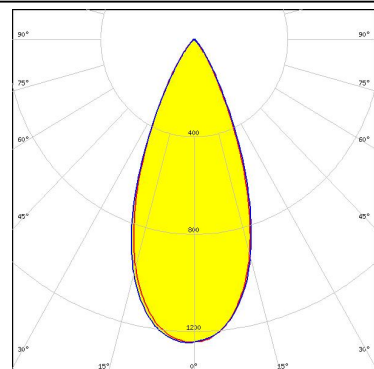
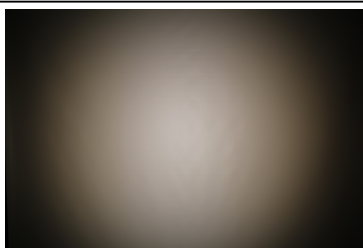
LED Vesta DTW 9mm (4W/6W/12W)
 FWHM 40.0°
 Efficiency 67 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 490 Typ L8



LED Vesta TW 9mm (12W) CSP
 FWHM 42.0°
 Efficiency 66 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K

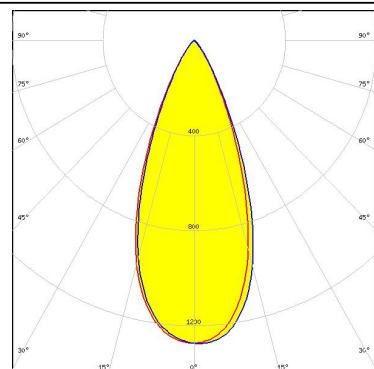
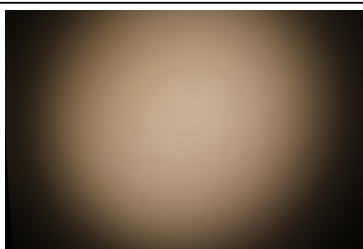


LED Vesta TW 9mm (9W) DP
 FWHM 43.0°
 Efficiency 69 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 489 Typ L8



CITIZEN

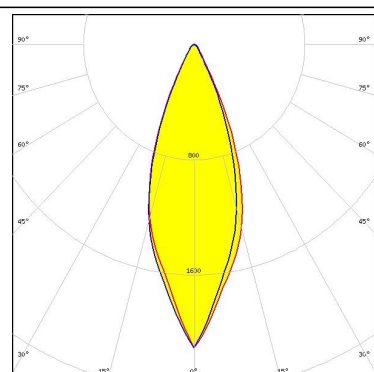
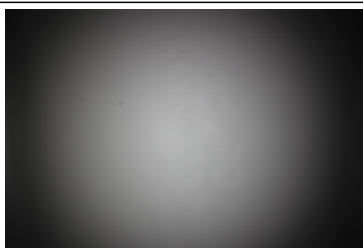
LED CLC020 Series (Dim-To-Warm)
 FWHM 42.0°
 Efficiency 66 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K



PHOTOMETRIC DATA (MEASURED):

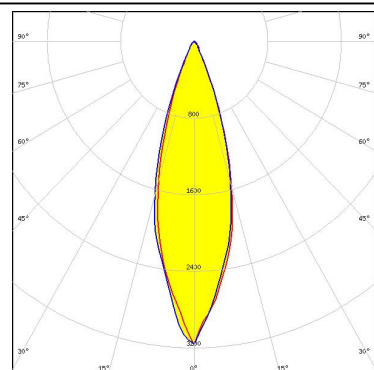
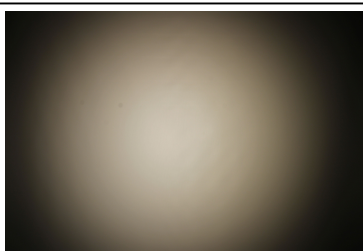
CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM 45.0°
 Efficiency 73 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



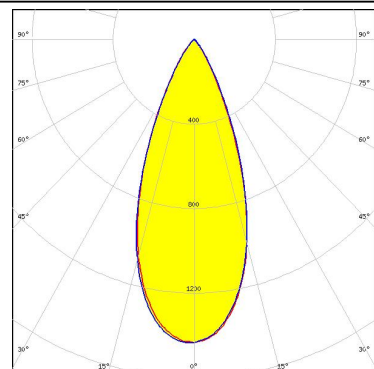
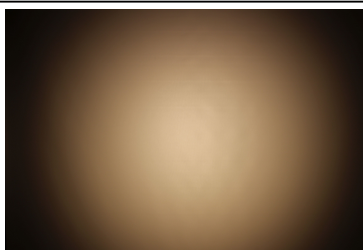
CITIZEN

LED CLU700/701/702
 FWHM 37.0°
 Efficiency 76 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



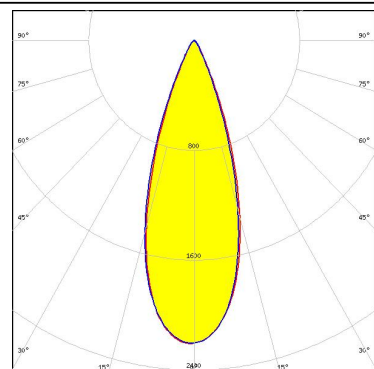
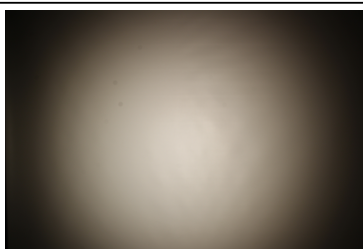
CITIZEN

LED CLU710/711
 FWHM 41.0°
 Efficiency 73 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15859_HEKLA-SOCKET-I



CITIZEN

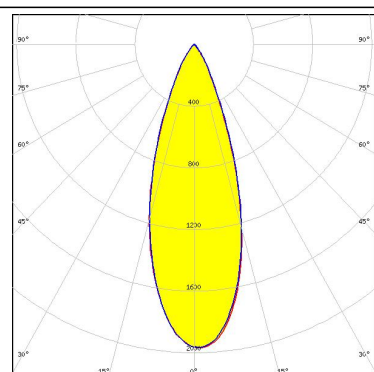
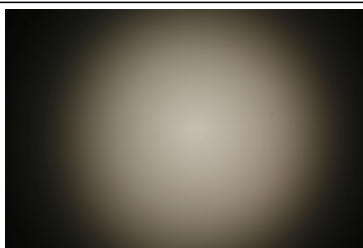
LED CLU7A2 (LES 4.2mm)
 FWHM 37.0°
 Efficiency 78 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



PHOTOMETRIC DATA (MEASURED):

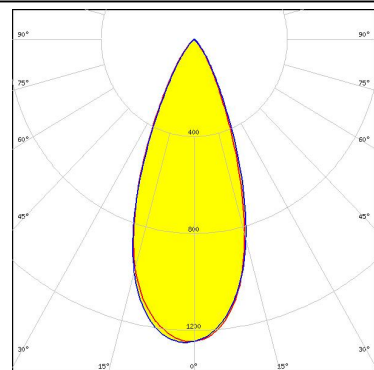
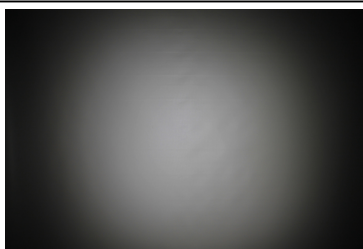
CITIZEN

LED CLU7B2
FWHM 35.0°
Efficiency 80 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



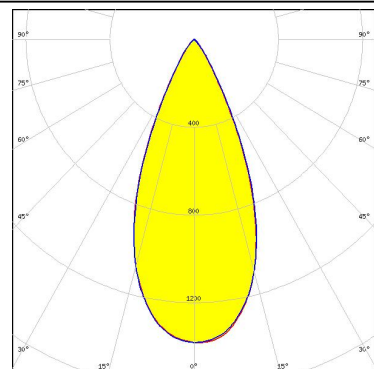
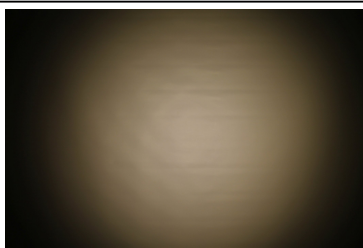
CITIZEN

LED LCN-C01B (Tunable White)
FWHM 41.0°
Efficiency 66 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16142_HEKLA-SOCKET-K



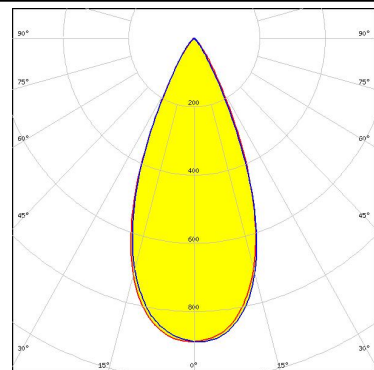
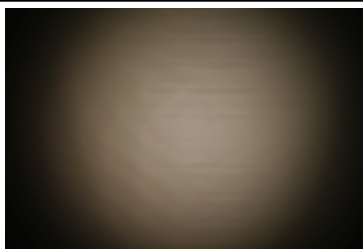
CREE

LED CMA1516
FWHM 45.0°
Efficiency 77 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15256_HEKLA-SOCKET-D



CREE

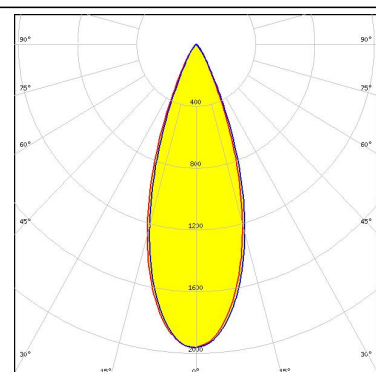
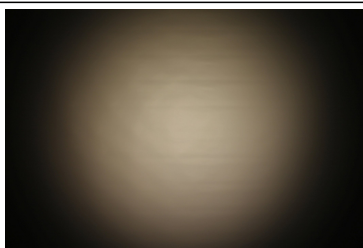
LED CMT14xx
FWHM 45.0°
Efficiency 50 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



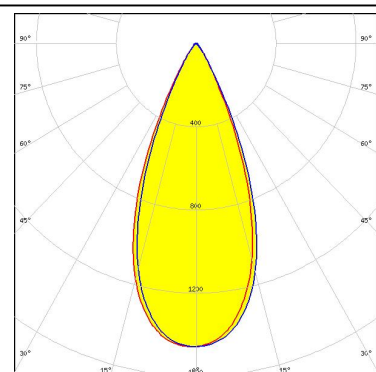
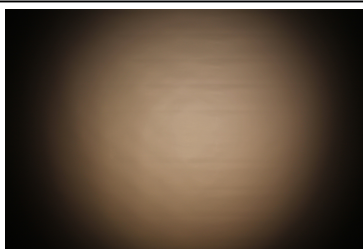
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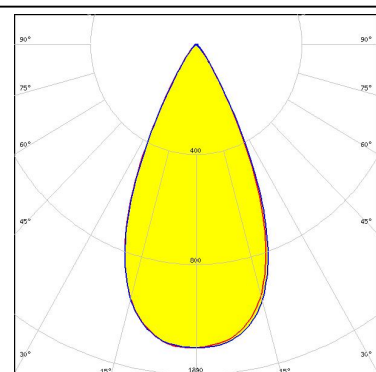
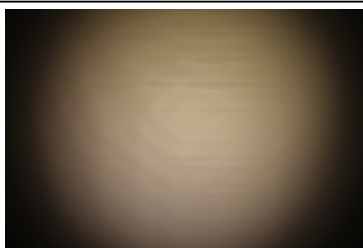
LED LUXEON CoB 1202HD
 FWHM 36.0°
 Efficiency 78 %
 Peak intensity 2 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 F15848_HEKLA-SOCKET-G



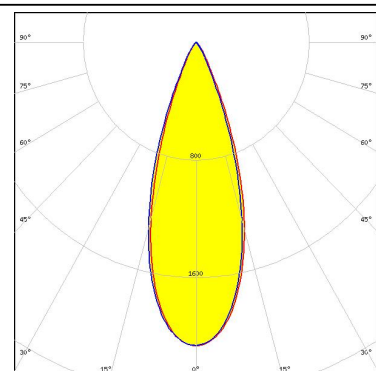
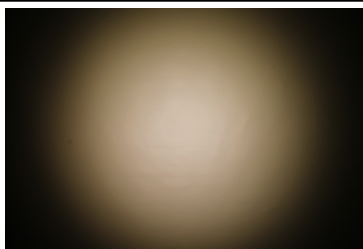
LED LUXEON CoB 1204HD
 FWHM 43.0°
 Efficiency 76 %
 Peak intensity 1.5 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 F15858_HEKLA-SOCKET-H



LED LUXEON CoB 1205HD
 FWHM 49.0°
 Efficiency 71 %
 Peak intensity 1.1 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 F15858_HEKLA-SOCKET-H



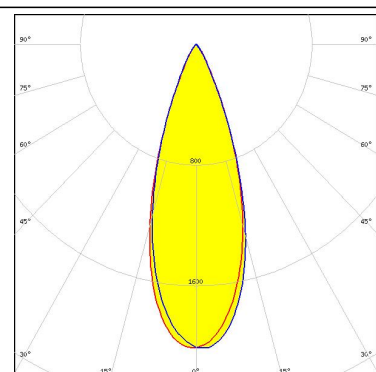
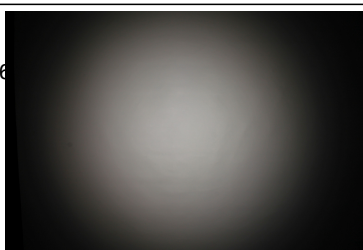
LED LUXEON CX Plus CoB - HD S01H4
 FWHM 36.0°
 Efficiency 78 %
 Peak intensity 2.1 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 634c Hekla



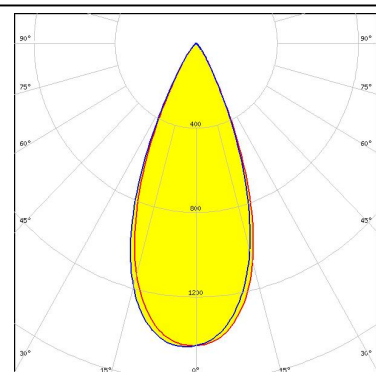
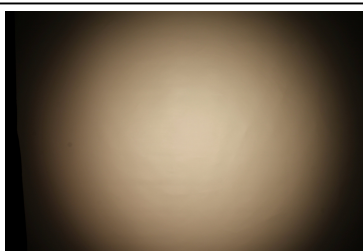
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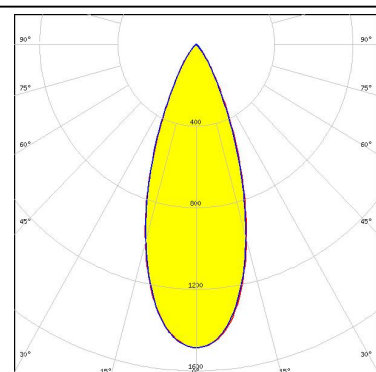
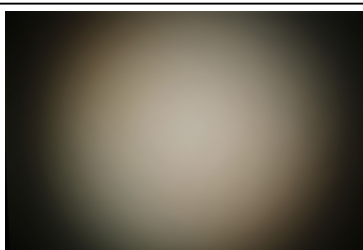
LED LUXEON CX Plus CoB - HD S01H6 / HD S02H6
 FWHM 35.0°
 Efficiency 77 %
 Peak intensity 2 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 634c Hekla



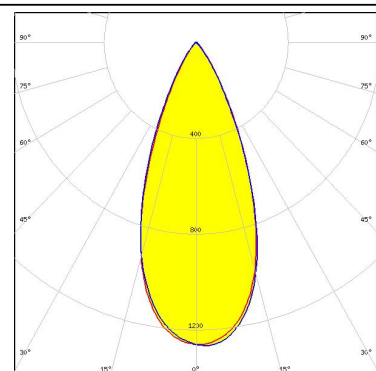
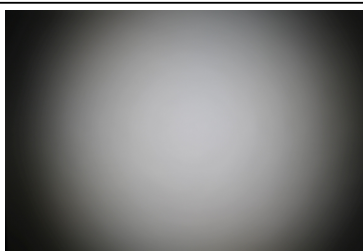
LED LUXEON CX Plus CoB - HD S04H9
 FWHM 43.0°
 Efficiency 75 %
 Peak intensity 1.4 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 634c Hekla



LED CDM-6 (Dim-To-Warm)
 FWHM 38.0°
 Efficiency 70 %
 Peak intensity 1.5 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 490 Typ L8



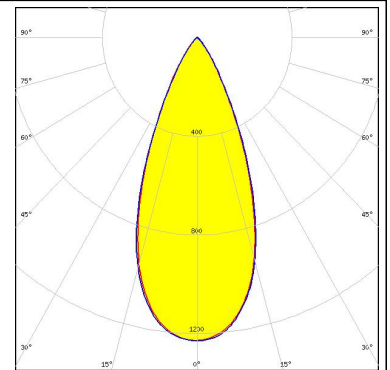
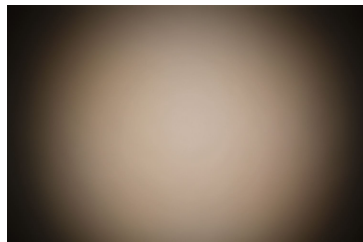
LED CDM-9 (Dim-To-Warm)
 FWHM 43.0°
 Efficiency 68 %
 Peak intensity 1.3 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 490 Typ L8



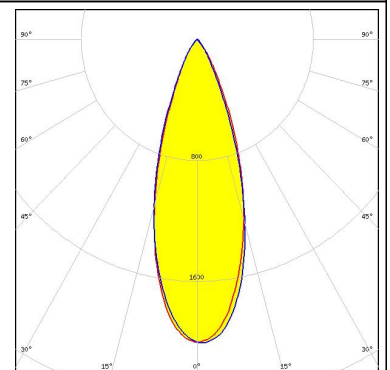
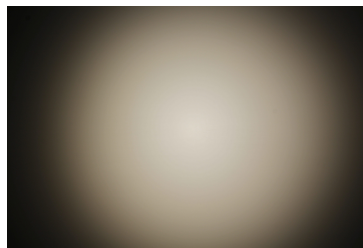
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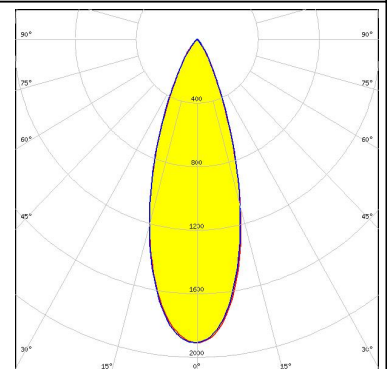
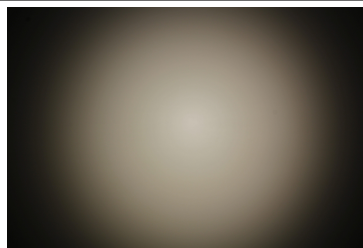
LED CTM-9 (Tunable White)
 FWHM 43.0°
 Efficiency 67 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 495 Typ L8



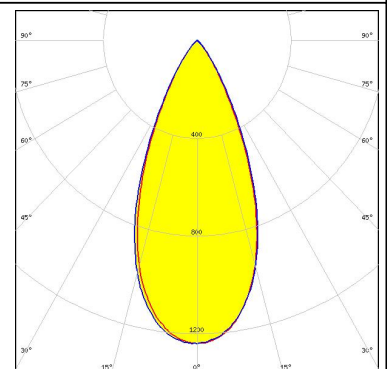
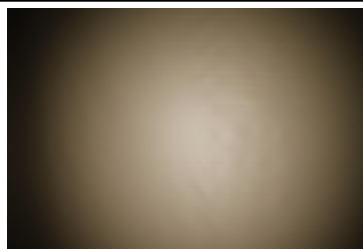
LED CXM-3
 FWHM 35.0°
 Efficiency 80 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



LED CXM-4
 FWHM 35.0°
 Efficiency 78 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



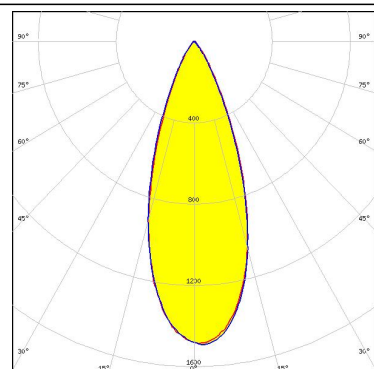
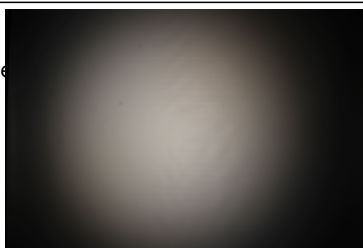
LED CxM-9 (13.5x13.5)
 FWHM 44.0°
 Efficiency 73 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



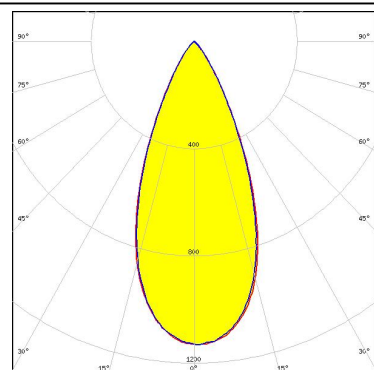
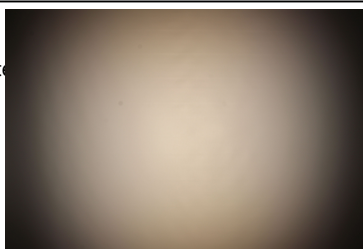
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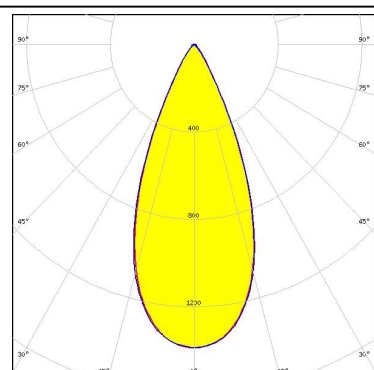
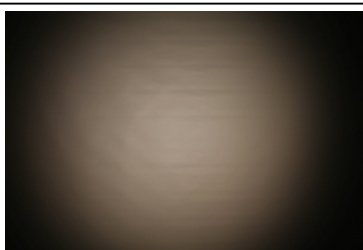
LED NJCWL024Z-V1MT: COB L-Type Tunable White
 FWHM 37.0°
 Efficiency 67 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 497 Typ L8



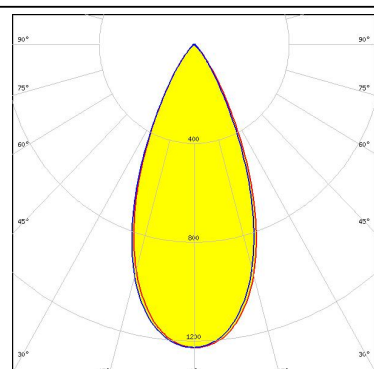
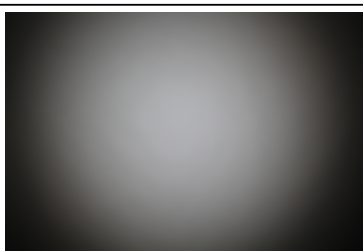
LED NVCWJ024Z-V1MT: COB J-Type Tunable White
 FWHM 44.0°
 Efficiency 66 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 498 Typ L8



LED Fortimo SLM L09 CoB
 FWHM 44.0°
 Efficiency 75 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15858_HEKLA-SOCKET-H



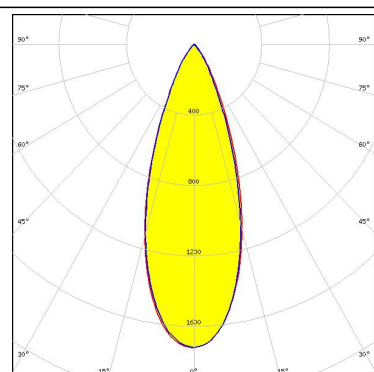
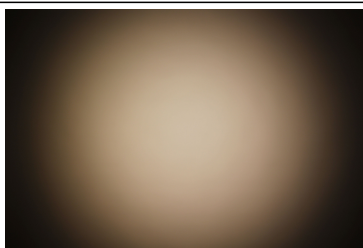
LED LC003D / LC006D / LC009D / LC013D
 FWHM 45.0°
 Efficiency 74 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



PHOTOMETRIC DATA (MEASURED):

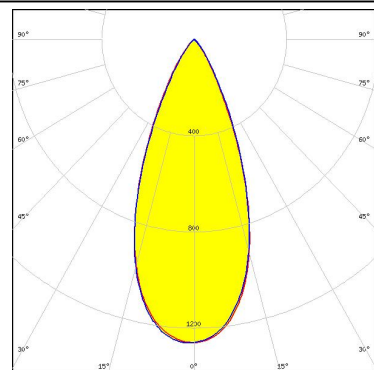
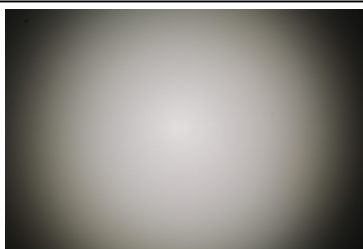
SAMSUNG

LED LC010C G2
FWHM 37.0°
Efficiency 76 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



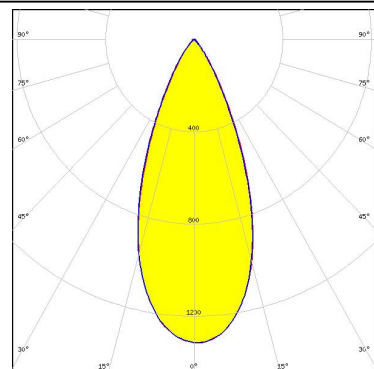
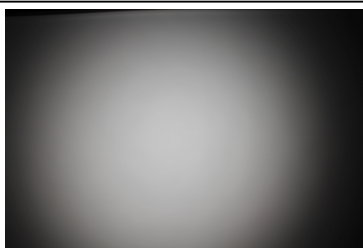
SAMSUNG

LED LC010T (Tunable White)
FWHM 42.0°
Efficiency 68 %
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



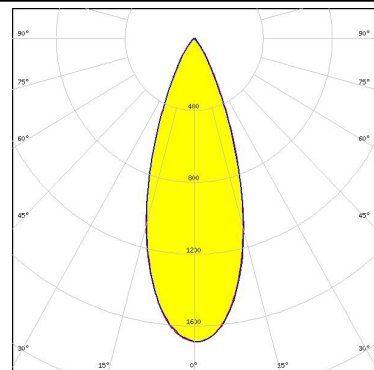
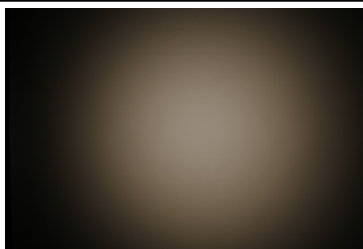
SAMSUNG

LED LC020C G2
FWHM 43.0°
Efficiency 72 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I



SEOL SEMICONDUCTOR

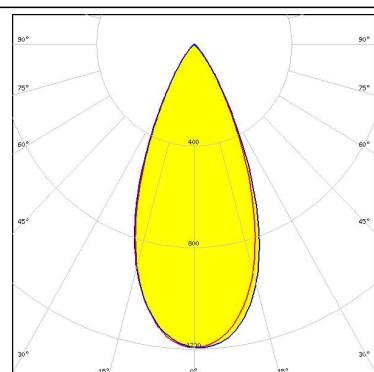
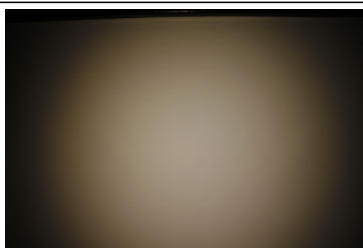
LED MJT COB LES 6
FWHM 37.0°
Efficiency 74 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



PHOTOMETRIC DATA (MEASURED):

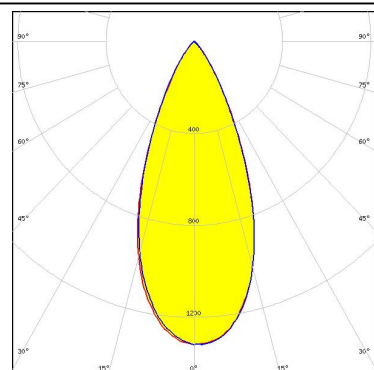
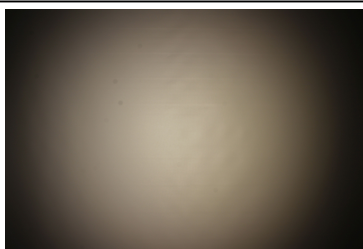


LED MJT COB LES 9.8
FWHM 45.0°
Efficiency 71 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



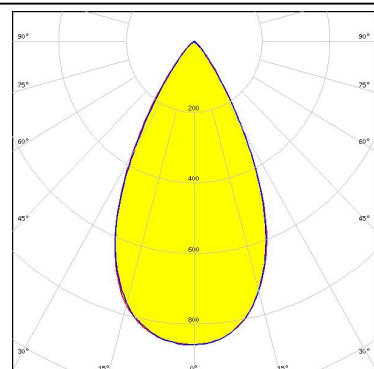
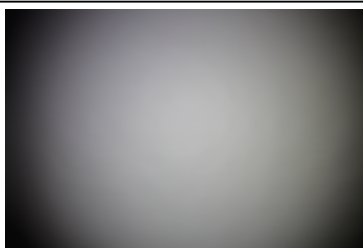
TRIDONIC

LED SLE G7 LES09
FWHM 43.0°
Efficiency 74 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



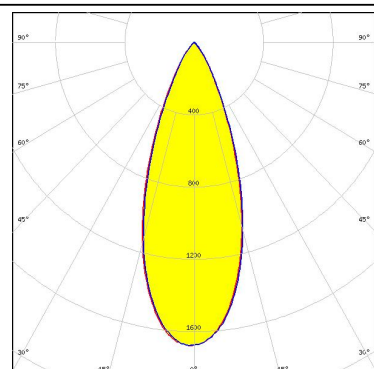
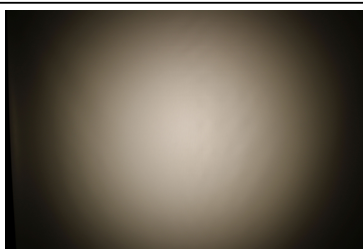
TRIDONIC

LED SLE G7 LES13
FWHM 54.0°
Efficiency 66 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I



XICATO

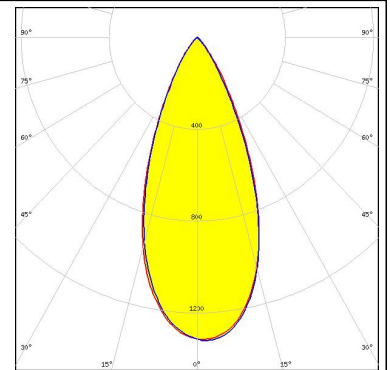
LED XOB 6 mm
FWHM 38.0°
Efficiency 76 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



PHOTOMETRIC DATA (MEASURED):

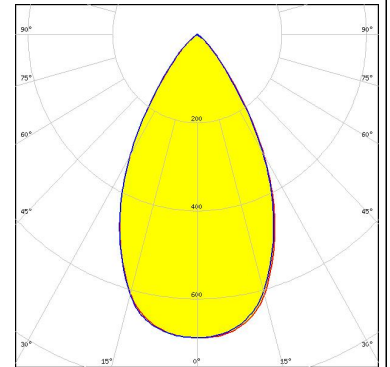
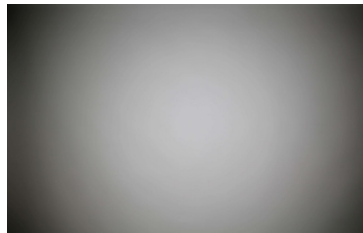
XICATO

LED XOB 9.8 mm
FWHM 43.0°
Efficiency 74 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



XICATO

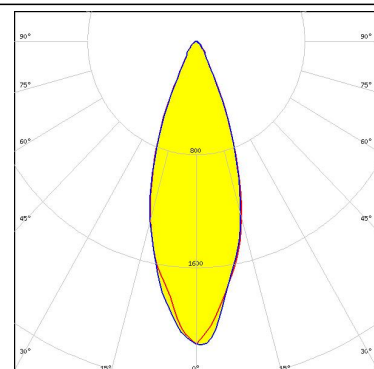
LED XTM - 19mm LES
FWHM 58.0°
Efficiency 61 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16058_XTM-ADAPTER-50-C



PHOTOMETRIC DATA (SIMULATED):



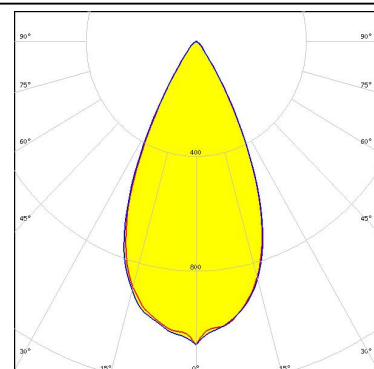
LED VERO10
FWHM 36.6°
Efficiency 0 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15616_HEKLA-SOCKET-F



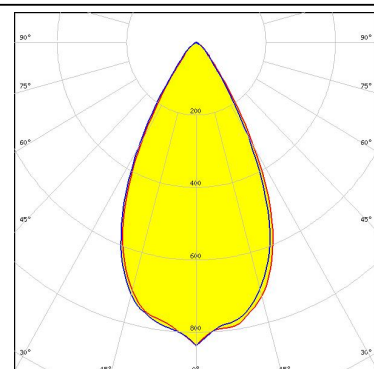
LED VERO13
FWHM 45.0°
Efficiency 63 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16142_HEKLA-SOCKET-K



LED CMA1825
FWHM 49.0°
Efficiency 70 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



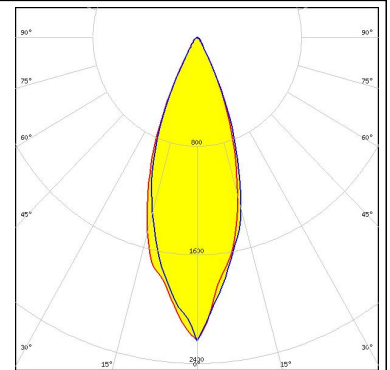
LED CMA1840
FWHM 55.0°
Efficiency 66 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



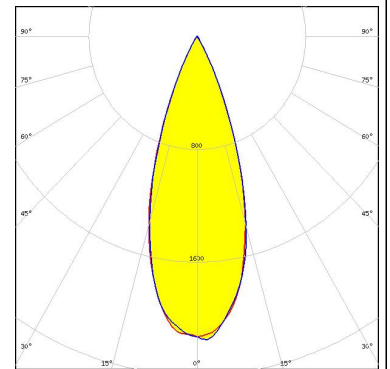
PHOTOMETRIC DATA (SIMULATED):



LED CXA/B 15xx
FWHM 35.8°
Efficiency %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15256_HEKLA-SOCKET-D



LED COB T-Type
FWHM 36.0°
Efficiency 78 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15848_HEKLA-SOCKET-G



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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