

BARBARA-G2-S

~12° spot beam compatible with LEDiL HEKLA

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 70.0 mm
Height	41.9 mm
Fastening	socket
ROHS compliant	yes ⓘ

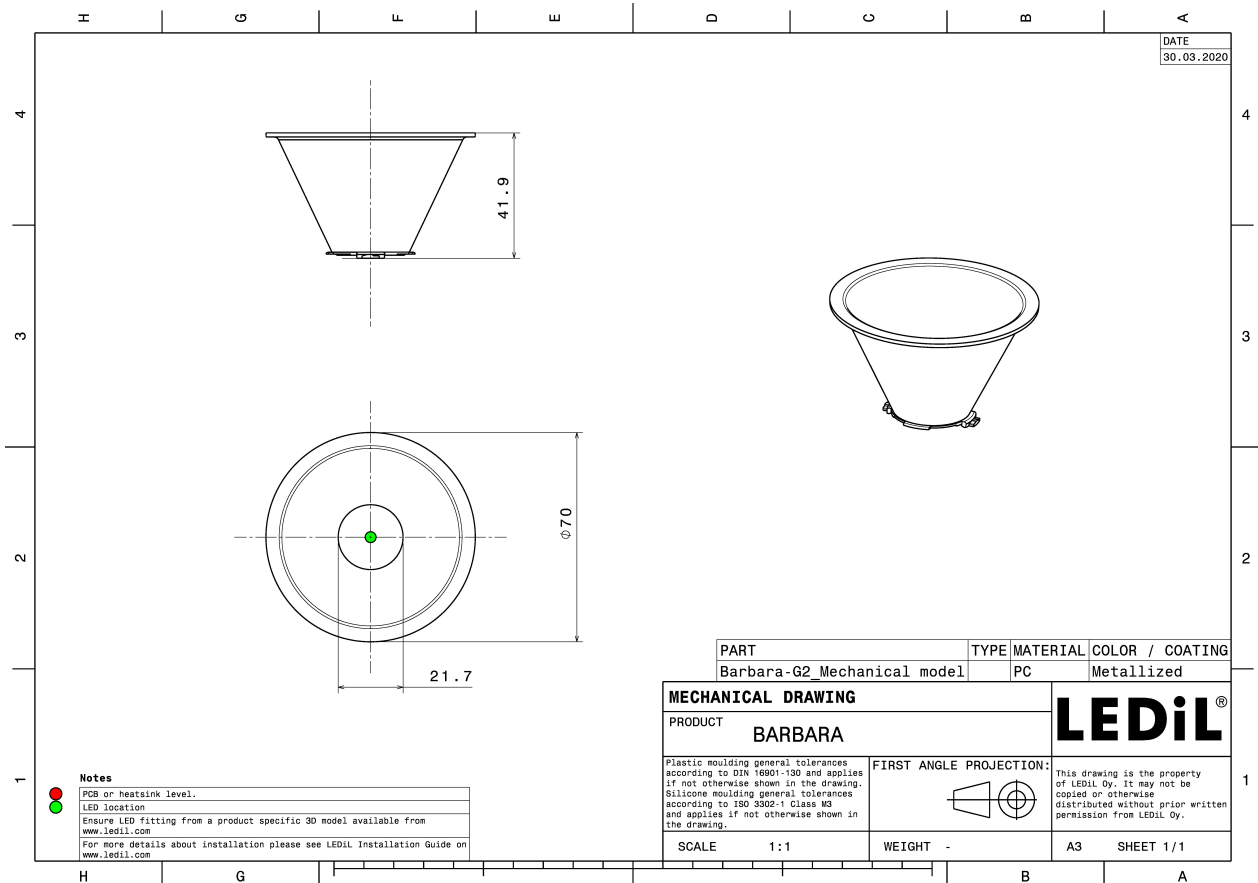
MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish	Coating
BARBARA-G2-S	Reflector	PC	metal		



ORDERING INFORMATION:

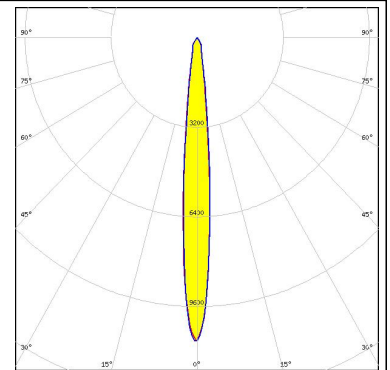
Component	Qty in box	MOQ	MPQ	Box weight (kg)
F16363_BARBARA-G2-S » Box size: 480 x 280 x 300 mm	252	90	18	4.6



PHOTOMETRIC DATA (MEASURED):

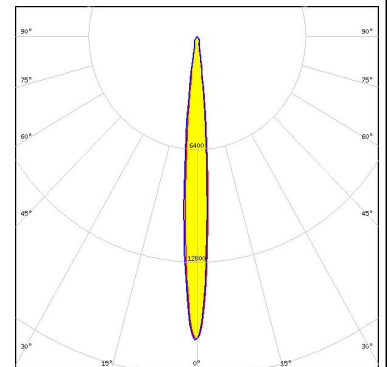
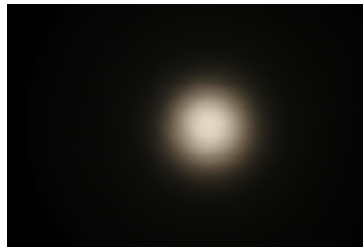
bridgelux

LED V4 HD
FWHM 10.0°
Efficiency 86 %
Peak intensity 10.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15253_HEKLA-SOCKET-A
C14658_BARBARA-RZ-LENS



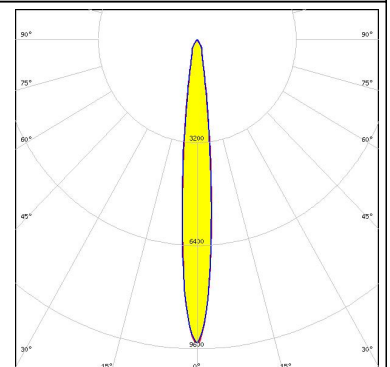
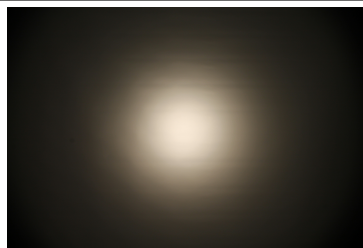
bridgelux

LED V4 HD
FWHM 9.0°
Efficiency 91 %
Peak intensity 17.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15253_HEKLA-SOCKET-A



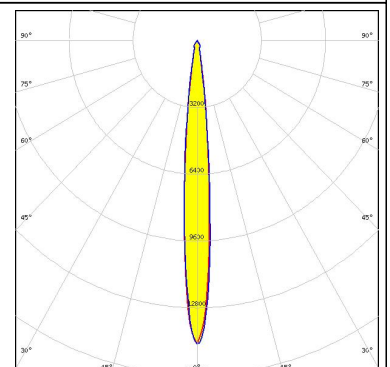
bridgelux

LED V6 HD
FWHM 11.0°
Efficiency 86 %
Peak intensity 9.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C
C14658_BARBARA-RZ-LENS



bridgelux

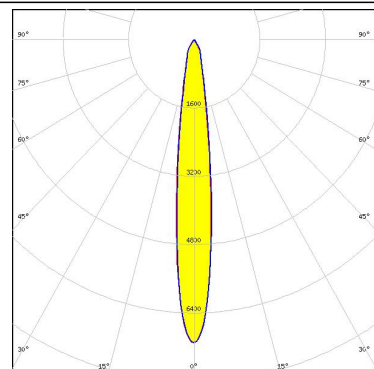
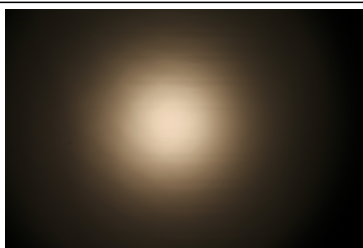
LED V6 HD
FWHM 10.0°
Efficiency 91 %
Peak intensity 14.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



PHOTOMETRIC DATA (MEASURED):

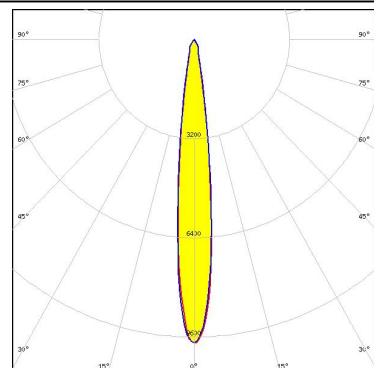
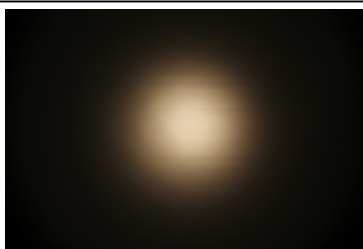
bridgelux.

LED V9 HD
FWHM 14.0°
Efficiency 85 %
Peak intensity 7.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I
C14658_BARBARA-RZ-LENS



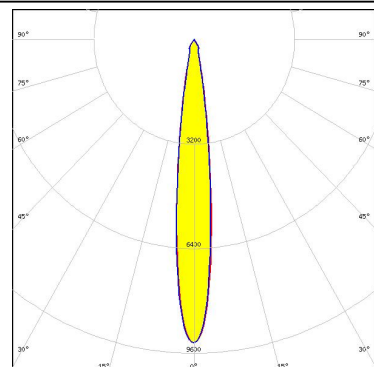
bridgelux.

LED V9 HD
FWHM 13.0°
Efficiency 91 %
Peak intensity 9.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I



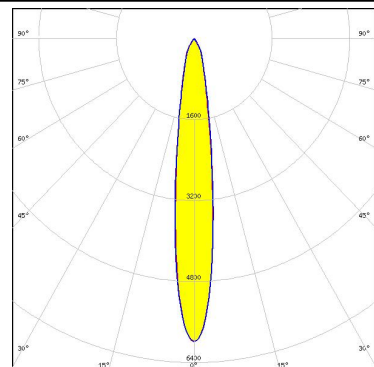
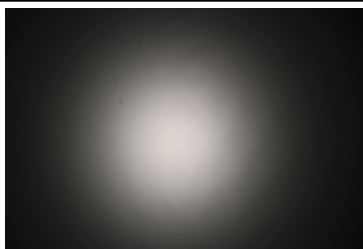
bridgelux.

LED V9 HD
FWHM 13.0°
Efficiency 89 %
Peak intensity 9.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15256_HEKLA-SOCKET-D



bridgelux.

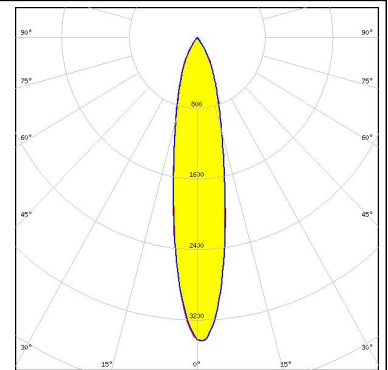
LED Vesta TW 9mm (12W) CSP
FWHM 15.0°
Efficiency 83 %
Peak intensity 6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16142_HEKLA-SOCKET-K
C14658_BARBARA-RZ-LENS



PHOTOMETRIC DATA (MEASURED):

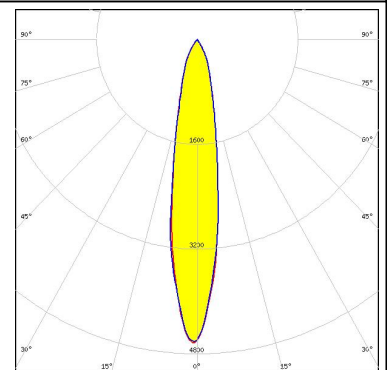
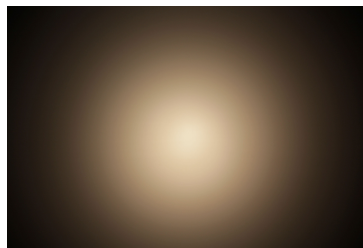
CITIZEN

LED CLC030 Series (Dim-To-Warm)
 FWHM 21.0°
 Efficiency 81 %
 Peak intensity 3.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 C14658_BARBARA-RZ-LENS
 Bender Wirth: 436 Typ L8



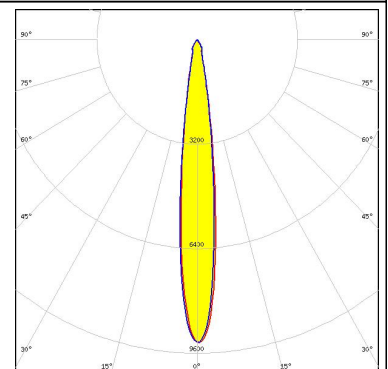
CITIZEN

LED CLC030 Series (Dim-To-Warm)
 FWHM 18.0°
 Efficiency 86 %
 Peak intensity 4.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 436 Typ L8



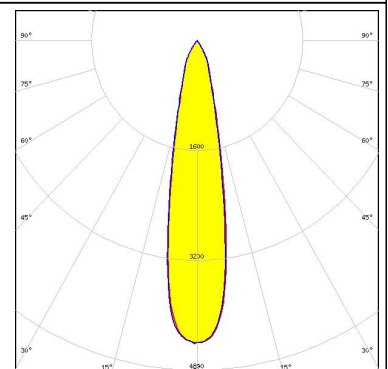
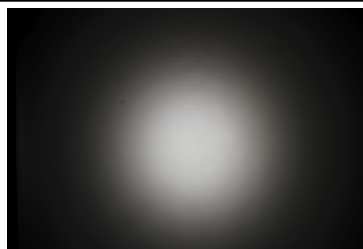
CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM 13.0°
 Efficiency 91 %
 Peak intensity 9.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



CITIZEN

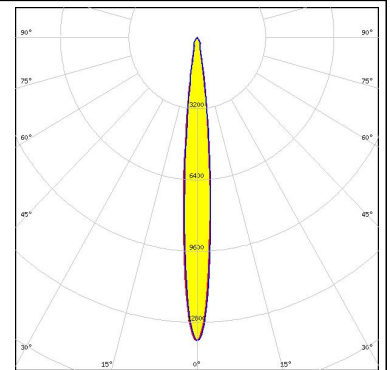
LED CLL03x/CLU03x
 FWHM 21.0°
 Efficiency 91 %
 Peak intensity 4.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15859_HEKLA-SOCKET-I



PHOTOMETRIC DATA (MEASURED):

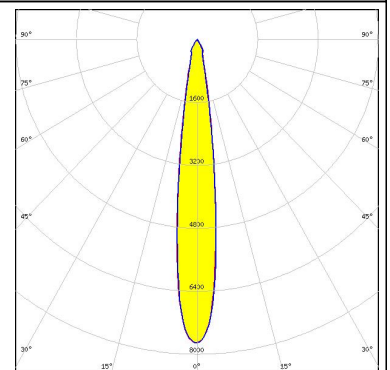
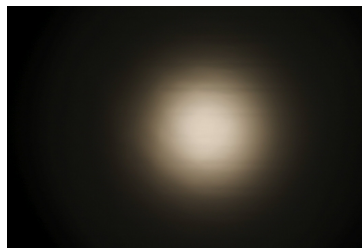
CITIZEN

LED CLU700/701/702
 FWHM 10.0°
 Efficiency 90 %
 Peak intensity 13.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



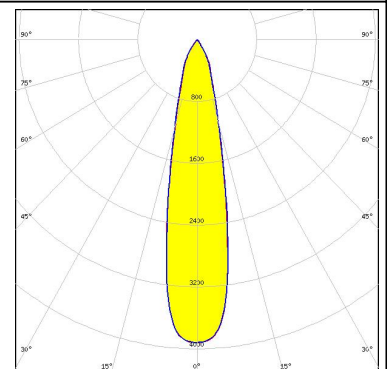
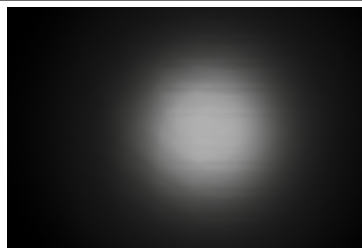
CREE

LED CMT14xx
 FWHM 15.0°
 Efficiency 90 %
 Peak intensity 7.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



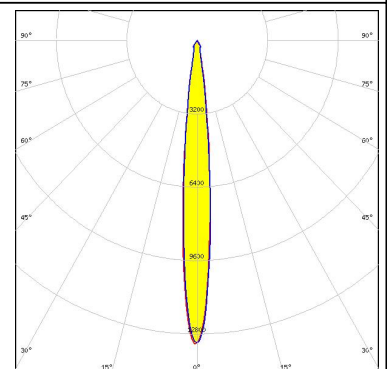
CREE

LED CMT19xx
 FWHM 22.0°
 Efficiency 90 %
 Peak intensity 3.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15859_HEKLA-SOCKET-I



CREE

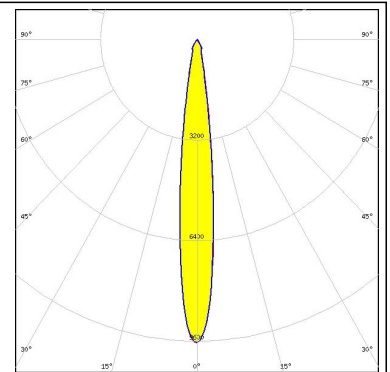
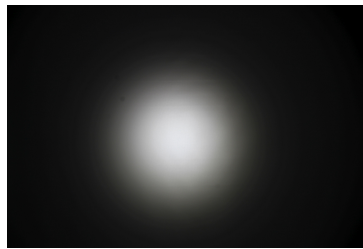
LED CXA/B 13xx
 FWHM 11.0°
 Efficiency 91 %
 Peak intensity 13.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15956_HEKLA-SOCKET-J



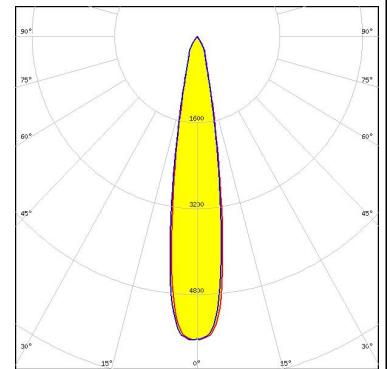
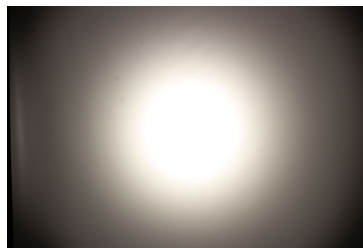
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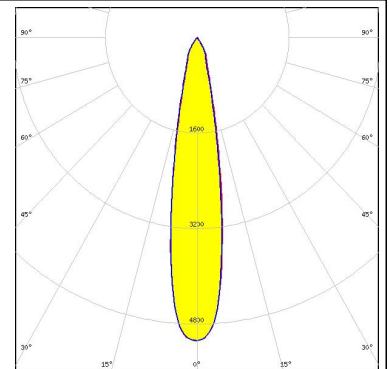
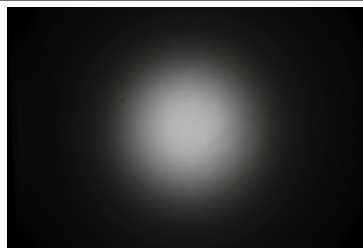
LED CXA/B 15xx
FWHM 13.0°
Efficiency 92 %
Peak intensity 9.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15256_HEKLA-SOCKET-D



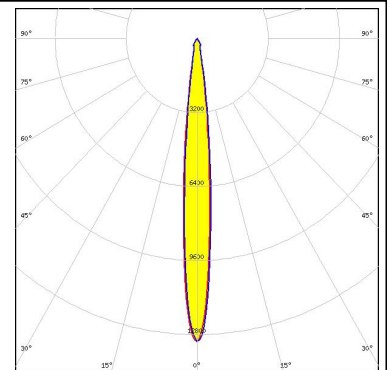
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM 19.0°
Efficiency 92 %
Peak intensity 5.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15256_HEKLA-SOCKET-D



LED CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM 19.0°
Efficiency 89 %
Peak intensity 5.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15254_HEKLA-SOCKET-B



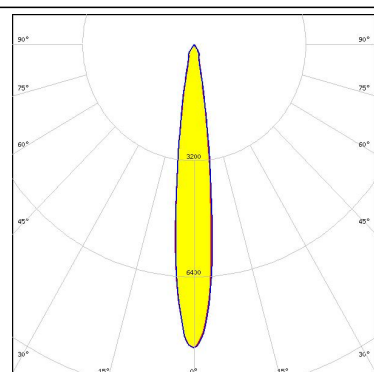
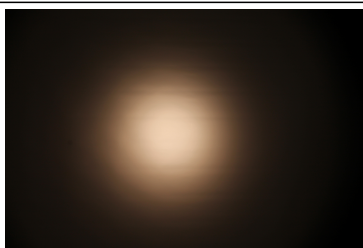
LED LUXEON CoB 1202HD
FWHM 10.0°
Efficiency 90 %
Peak intensity 13.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15848_HEKLA-SOCKET-G



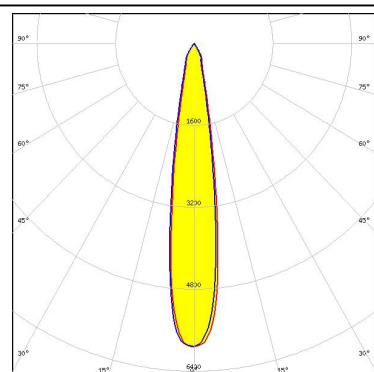
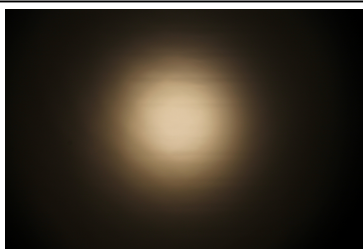
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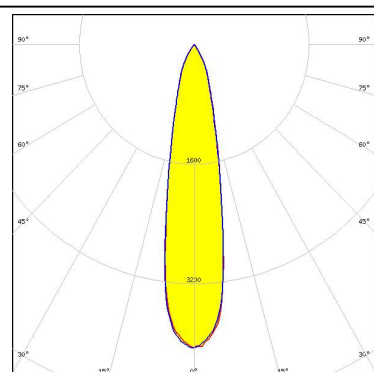
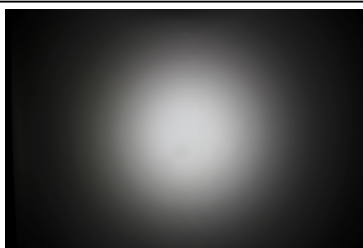
LED LUXEON CoB 1204HD
 FWHM 14.0°
 Efficiency 90 %
 Peak intensity 8.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15858_HEKLA-SOCKET-H



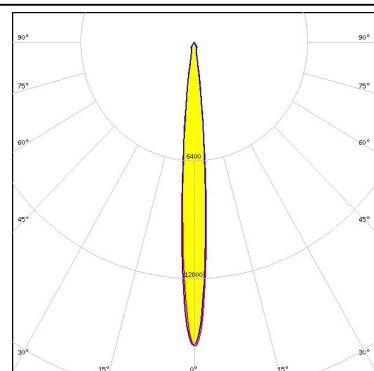
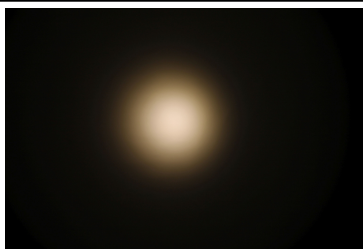
LED LUXEON CoB 1205HD
 FWHM 17.0°
 Efficiency 89 %
 Peak intensity 6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15858_HEKLA-SOCKET-H



LED LUXEON CoB 1208
 FWHM 22.0°
 Efficiency 88 %
 Peak intensity 4.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 632a Hekla XL



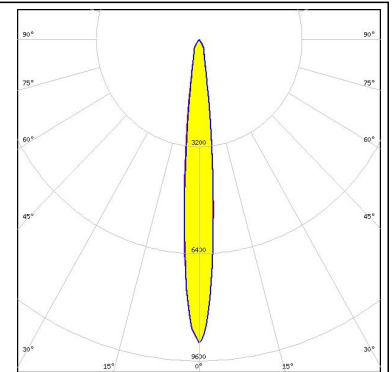
LED LUXEON CX Plus CoB - HD S01H4
 FWHM 9.0°
 Efficiency 89 %
 Peak intensity 16.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 634c Hekla



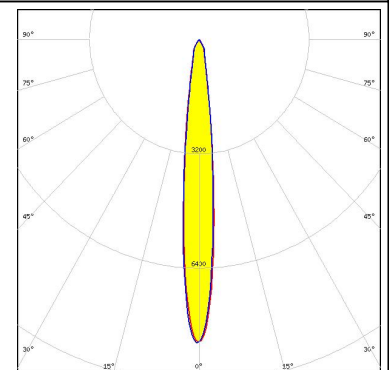
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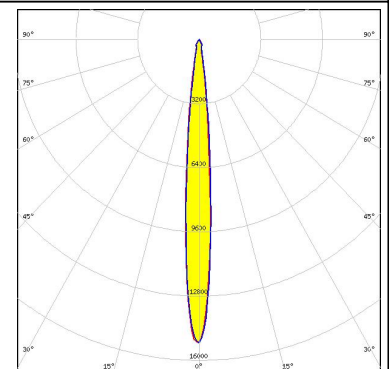
LED LUXEON CX Plus CoB - HD S01H4
 FWHM 11.0°
 Efficiency 83 %
 Peak intensity 9.1 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 C14658_BARBARA-RZ-LENS
 Bender Wirth: 634c Hekla



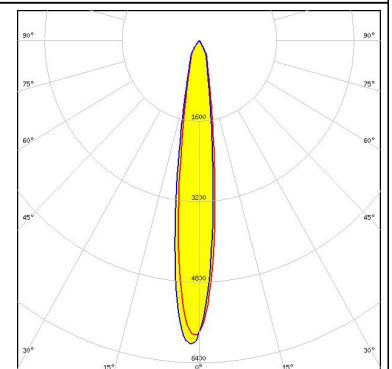
LED LUXEON CX Plus CoB - HD S01H6 / HD S02H6
 FWHM 12.0°
 Efficiency 83 %
 Peak intensity 8.5 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 C14658_BARBARA-RZ-LENS
 Bender Wirth: 634c Hekla



LED LUXEON CX Plus CoB - HD S01H6 / HD S02H6
 FWHM 10.0°
 Efficiency 89 %
 Peak intensity 15.1 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 634c Hekla



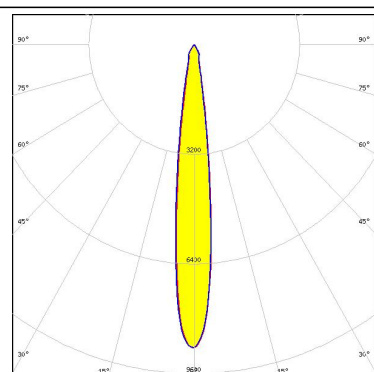
LED LUXEON CX Plus CoB - HD S04H9
 FWHM 15.0°
 Efficiency 83 %
 Peak intensity 6.1 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 C14658_BARBARA-RZ-LENS
 Bender Wirth: 634c Hekla



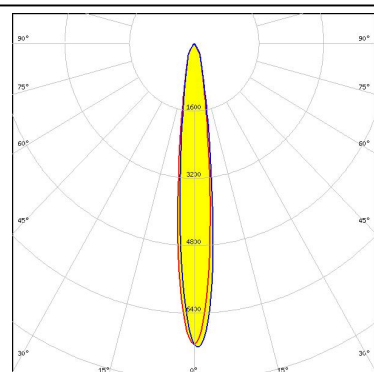
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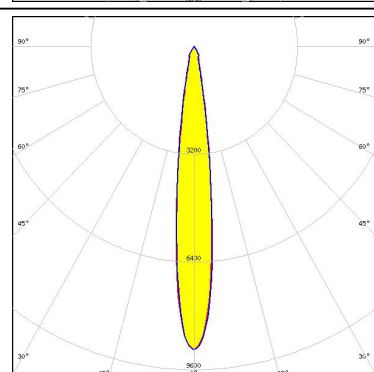
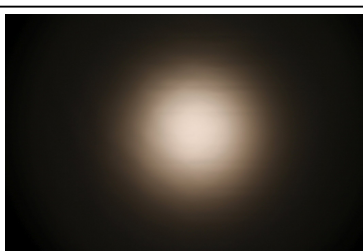
LED LUXEON CX Plus CoB - HD S04H9
 FWHM 13.0°
 Efficiency 89 %
 Peak intensity 8.9 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 634c Hekla



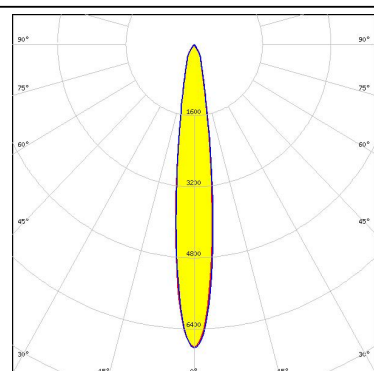
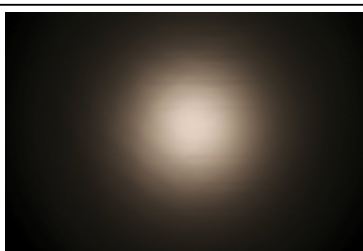
LED LUXEON Fusion 21-up (20x24)
 FWHM 13.0°
 Efficiency 82 %
 Peak intensity 7.2 cd/Im
 LEDs/each optic 21
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 C14658_BARBARA-RZ-LENS
 Bender Wirth: 442 Typ L8



LED Fortimo SLM L09 CoB
 FWHM 14.0°
 Efficiency 91 %
 Peak intensity 9 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 F15858_HEKLA-SOCKET-H



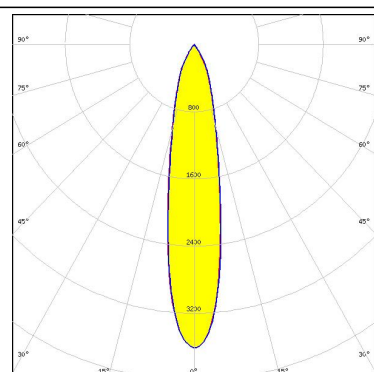
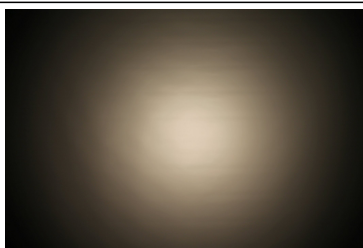
LED Fortimo SLM L09 CoB
 FWHM 14.0°
 Efficiency 87 %
 Peak intensity 6.8 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 F15858_HEKLA-SOCKET-H
 C14658_BARBARA-RZ-LENS



PHOTOMETRIC DATA (MEASURED):

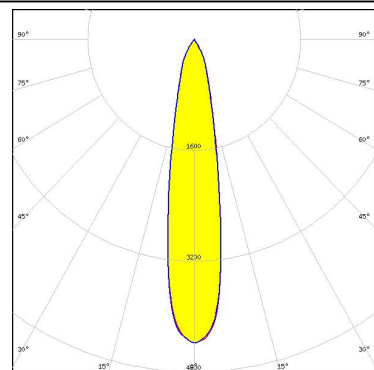
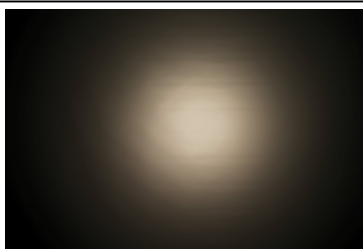
PHILIPS

LED Fortimo SLM L13 CoB
 FWHM 20.0°
 Efficiency 82 %
 Peak intensity 3.6 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 C14658_BARBARA-RZ-LENS
 Bender Wirth: 432 Typ L8



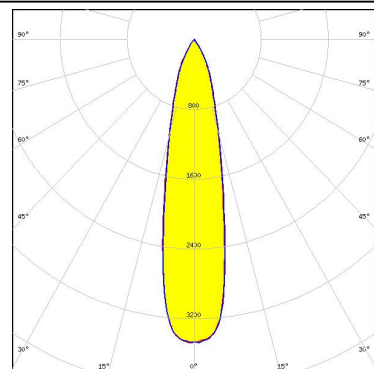
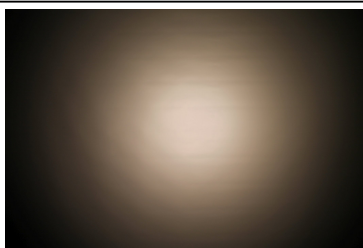
PHILIPS

LED Fortimo SLM L13 CoB
 FWHM 20.0°
 Efficiency 87 %
 Peak intensity 4.4 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 432 Typ L8



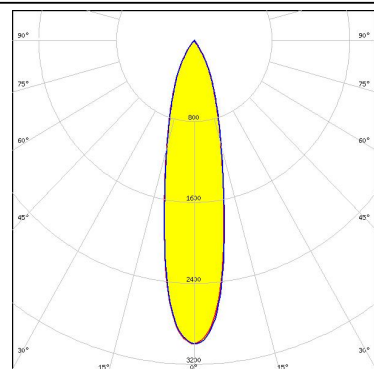
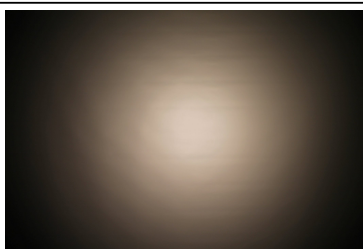
PHILIPS

LED Fortimo SLM L15 CoB
 FWHM 23.0°
 Efficiency 86 %
 Peak intensity 3.5 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 432 Typ L8



PHILIPS

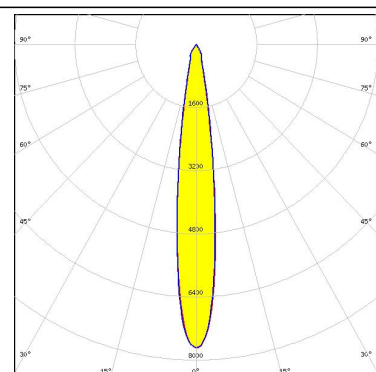
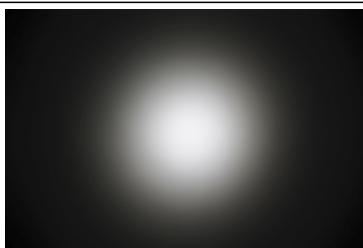
LED Fortimo SLM L15 CoB
 FWHM 23.0°
 Efficiency 81 %
 Peak intensity 3 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 C14658_BARBARA-RZ-LENS
 Bender Wirth: 432 Typ L8



PHOTOMETRIC DATA (MEASURED):

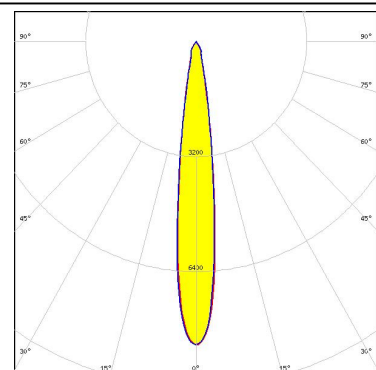
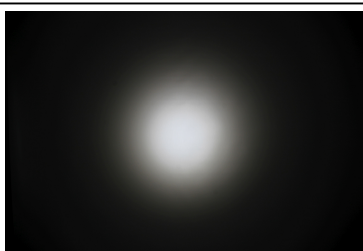
SAMSUNG

LED LC003D / LC006D / LC009D / LC013D
 FWHM 15.0°
 Efficiency 90 %
 Peak intensity 7.7 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



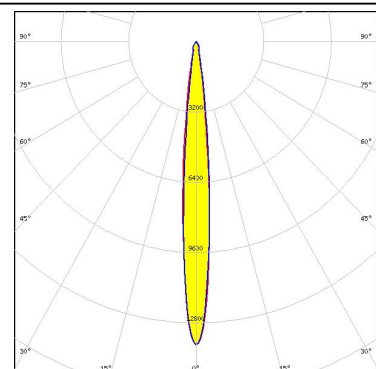
SAMSUNG

LED LC003D / LC006D / LC009D / LC013D
 FWHM 14.0°
 Efficiency 90 %
 Peak intensity 8.4 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



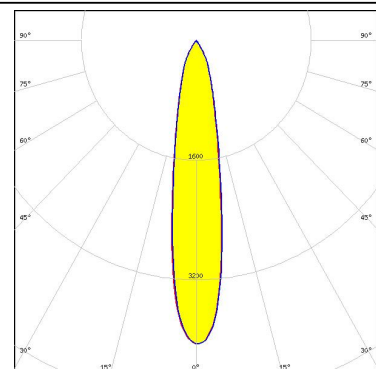
SAMSUNG

LED LC010C G2
 FWHM 10.0°
 Efficiency 90 %
 Peak intensity 13.8 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



SAMSUNG

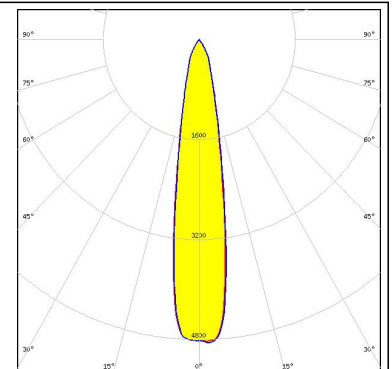
LED LC020T (Tunable white)
 FWHM 19.0°
 Efficiency 82 %
 Peak intensity 4.1 cd/Im
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K
 C14658_BARBARA-RZ-LENS
 Bender Wirth: 501 Typ L8



PHOTOMETRIC DATA (MEASURED):

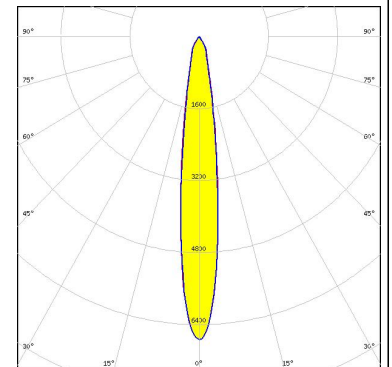
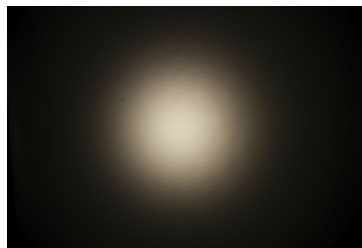
SAMSUNG

LED LC020T (Tunable white)
 FWHM 19.0°
 Efficiency 87 %
 Peak intensity 4.9 cd/Im
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 501 Typ L8



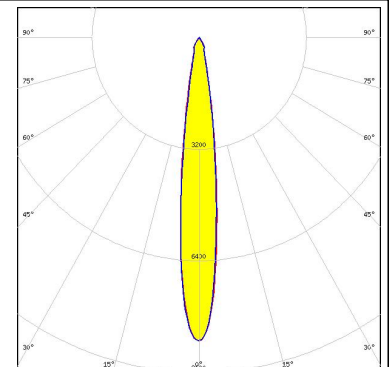
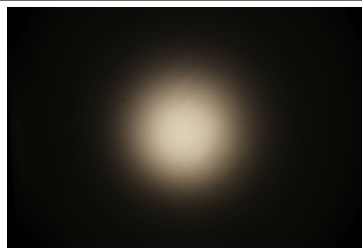
TRIDONIC

LED SLE G7 LES09
 FWHM 14.0°
 Efficiency 88 %
 Peak intensity 6.7 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C
 C14658_BARBARA-RZ-LENS



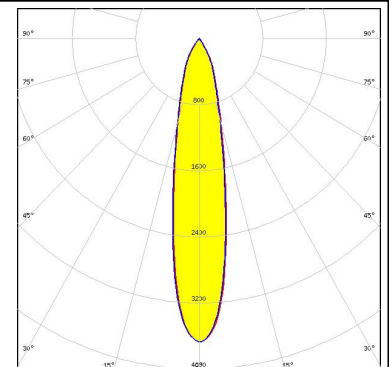
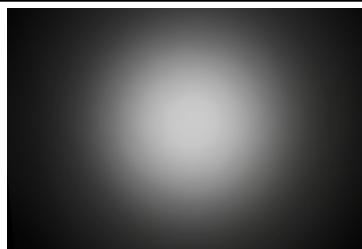
TRIDONIC

LED SLE G7 LES09
 FWHM 14.0°
 Efficiency 92 %
 Peak intensity 8.7 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



TRIDONIC

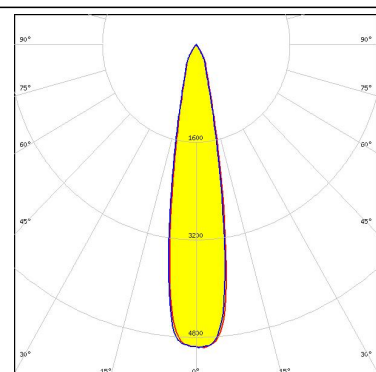
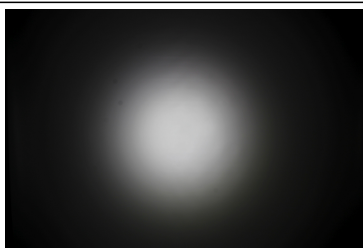
LED SLE G7 LES13
 FWHM 20.0°
 Efficiency 82 %
 Peak intensity 3.7 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:
 F15859_HEKLA-SOCKET-I
 C14658_BARBARA-RZ-LENS



PHOTOMETRIC DATA (MEASURED):

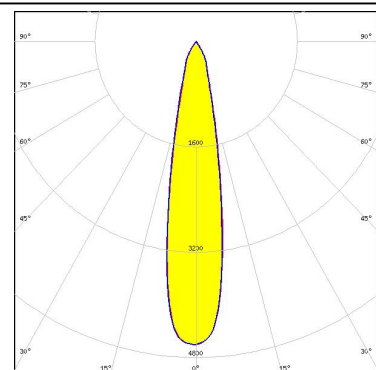
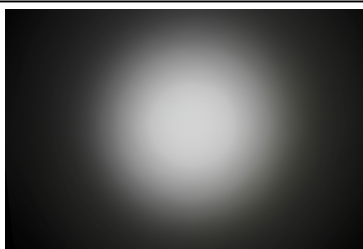
TRIDONIC

LED SLE G7 LES13
 FWHM 20.0°
 Efficiency 92 %
 Peak intensity 5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15859_HEKLA-SOCKET-I



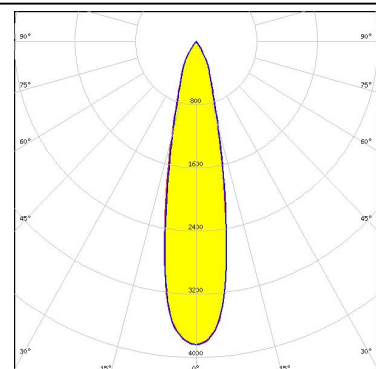
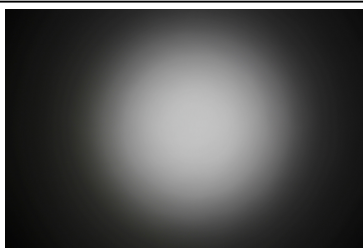
TRIDONIC

LED SLE G7 LES13
 FWHM 20.0°
 Efficiency 5 %
 Peak intensity 89 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15859_HEKLA-SOCKET-I



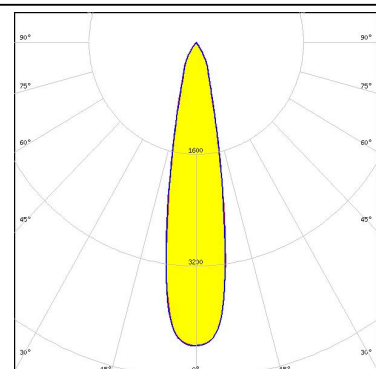
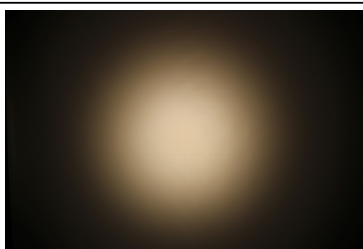
TRIDONIC

LED SLE G7 LES15
 FWHM 23.0°
 Efficiency 89 %
 Peak intensity 3.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15859_HEKLA-SOCKET-I



XICATO

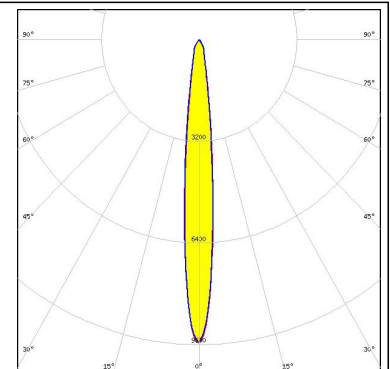
LED XOB 14.5 mm
 FWHM 21.0°
 Efficiency 91 %
 Peak intensity 4.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15859_HEKLA-SOCKET-I



PHOTOMETRIC DATA (MEASURED):

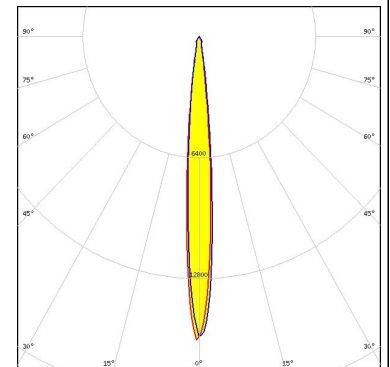
XICATO

LED XOB 6 mm
FWHM 11.0°
Efficiency 85 %
Peak intensity 9.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C
C14658_BARBARA-RZ-LENS



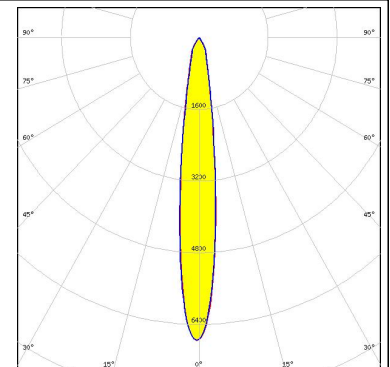
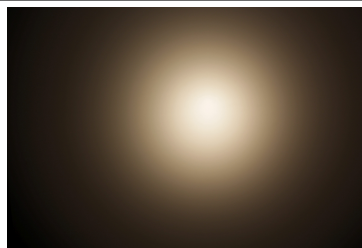
XICATO

LED XOB 6 mm
FWHM 9.0°
Efficiency 89 %
Peak intensity 16 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



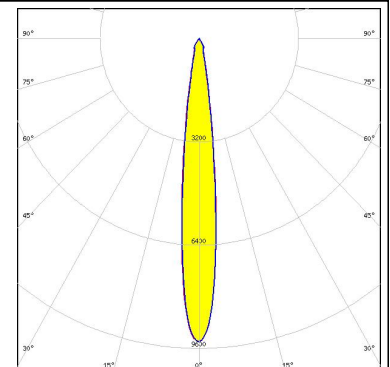
XICATO

LED XOB 9.8 mm
FWHM 14.0°
Efficiency 86 %
Peak intensity 6.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C
C14658_BARBARA-RZ-LENS



XICATO

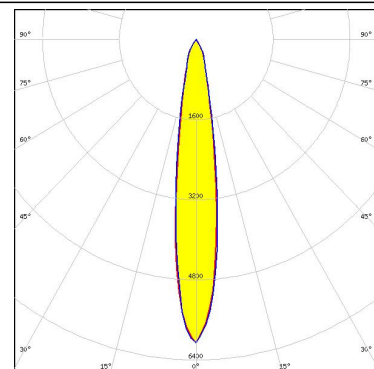
LED XOB 9.8 mm
FWHM 13.0°
Efficiency 90 %
Peak intensity 9.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



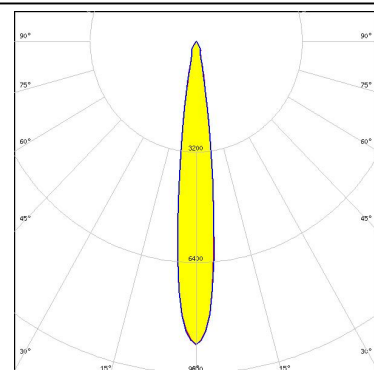
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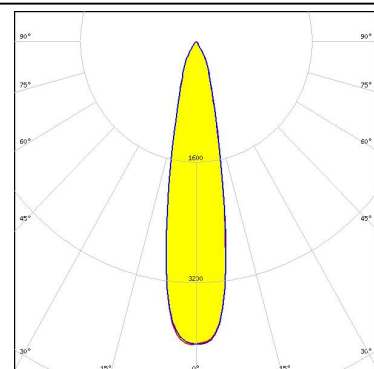
LED Vesta DTW 15mm (33W)
 FWHM 16.0°
 Efficiency 86 %
 Peak intensity 6.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 491 Typ L8



LED CMT14xx
 FWHM 13.0°
 Efficiency 84 %
 Peak intensity 8.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



LED LUXEON CoB 1208
 FWHM 21.0°
 Efficiency 86 %
 Peak intensity 4.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K



LED COB L-Type (LES 11)
 FWHM 18.0°
 Efficiency 89 %
 Peak intensity 5.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15858_HEKLA-SOCKET-H



PHOTOMETRIC DATA (SIMULATED):



LED	COB L-Type (LES 9)
FWHM	14.0°
Efficiency	89 %
Peak intensity	8.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15858_HEKLA-SOCKET-H	

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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