

BARBARA-G2-M

~25° wide beam compatible with LEDiL HEKLA

TECHNICAL SPECIFICATIONS:

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

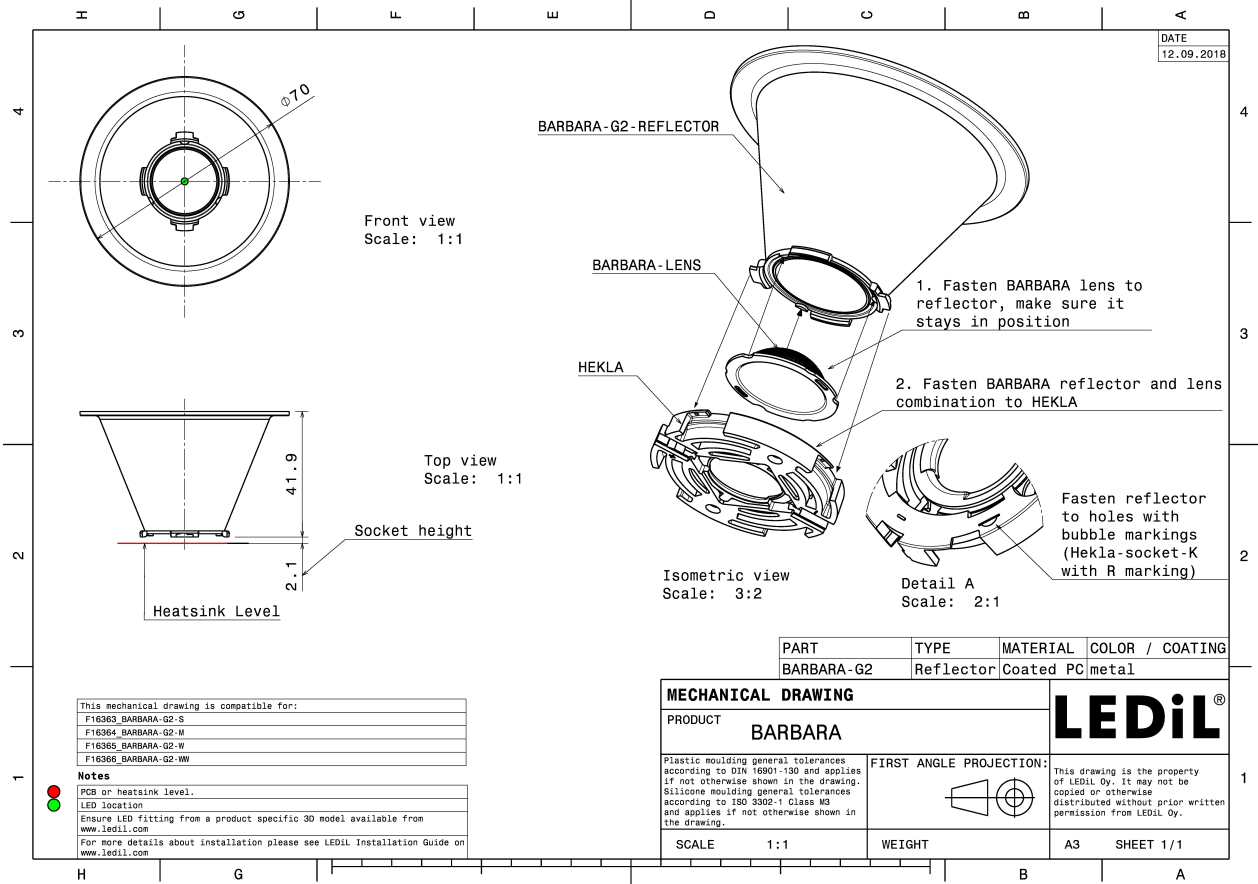
MATERIAL SPECIFICATIONS:

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



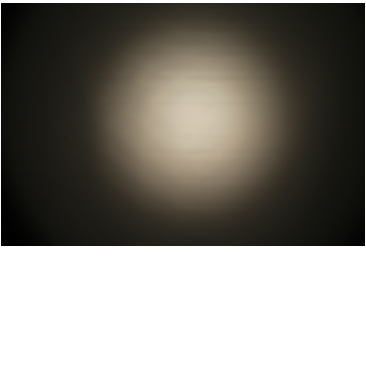
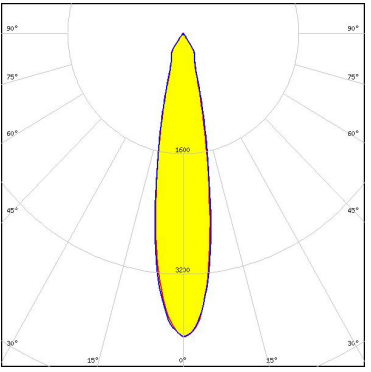

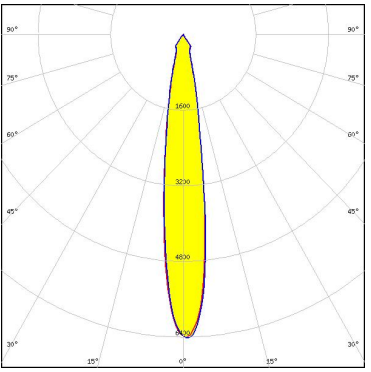

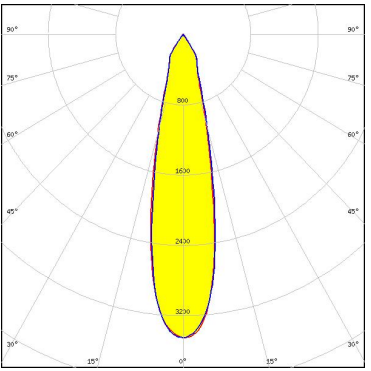

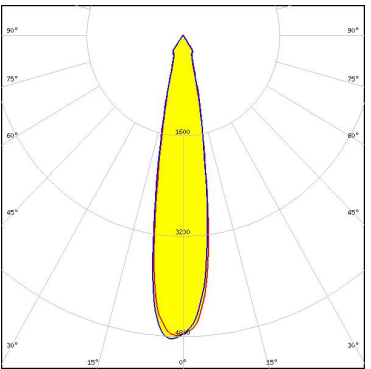
ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F16364_BARBARA-G2-M » Box size: 480 x 280 x 300 mm	252	90	18	4.5



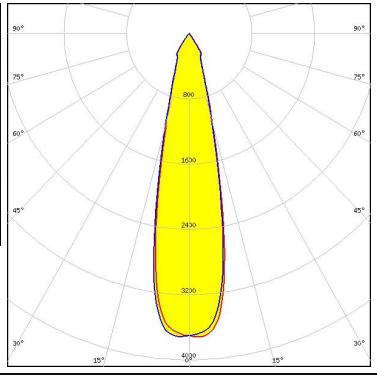


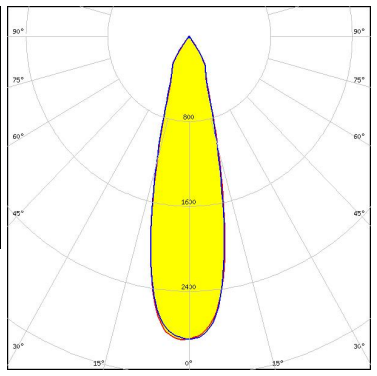


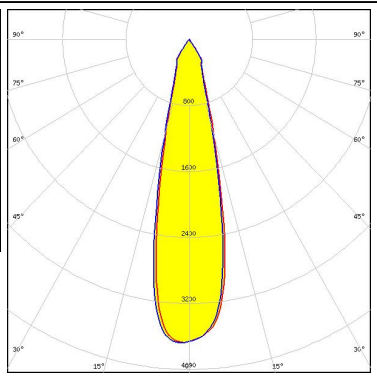


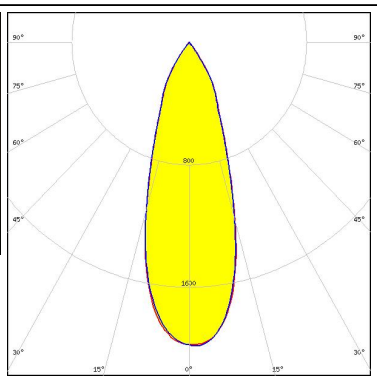


See also our general installation guide: www.ledil.com/installation_guide



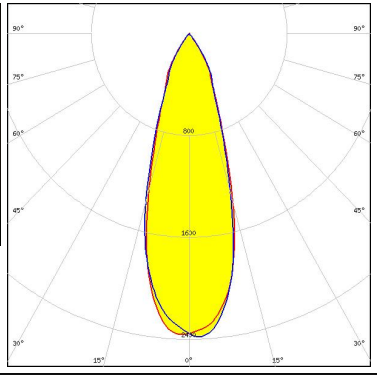






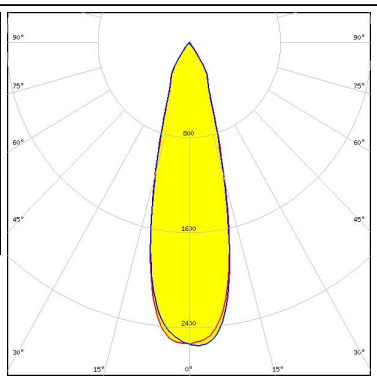
PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED V4 HD FWHM / FWTM 21.0° / 47.0° Efficiency 87 % Peak intensity 4 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: F15253_HEKLA-SOCKET-A C14658_BARBARA-RZ-LENS</p>		
<p>bridgelux.</p> <p>LED V4 HD FWHM / FWTM 16.0° / 36.0° Efficiency 92 % Peak intensity 6.5 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: F15253_HEKLA-SOCKET-A</p>		
<p>bridgelux.</p> <p>LED V6 HD FWHM / FWTM 24.0° / 56.0° Efficiency 87 % Peak intensity 3.5 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C C14658_BARBARA-RZ-LENS</p>		
<p>bridgelux.</p> <p>LED V6 HD FWHM / FWTM 20.0° / 41.0° Efficiency 92 % Peak intensity 4.8 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>		

PHOTOMETRIC DATA (MEASURED):

<p></p> <p>LED V9 HD FWHM / FWTM 24.0° / 49.0° Efficiency 91 % Peak intensity 3.7 cd/m LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I</p>		
<p></p> <p>LED V9 HD FWHM / FWTM 27.0° / 64.0° Efficiency 86 % Peak intensity 2.9 cd/m LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I C14658_BARBARA-RZ-LENS</p>		
<p></p> <p>LED V9 HD FWHM / FWTM 24.0° / 51.0° Efficiency 92 % Peak intensity 3.7 cd/m LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I</p>		
<p></p> <p>LED Vesta DTW 13mm (21W) FWHM / FWTM 34.0° / 68.0° Efficiency 82 % Peak intensity 2 cd/m LEDs/each optic 1 Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS Bender Wirth: 491 Typ L8</p>		

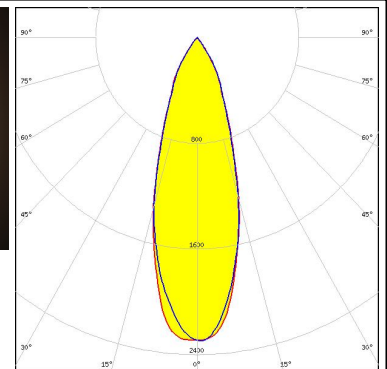
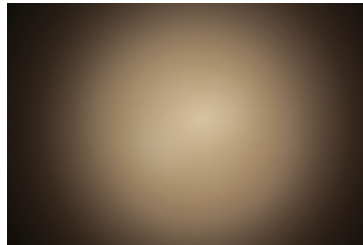
PHOTOMETRIC DATA (MEASURED):

<p></p> <p>LED Vesta DTW 13mm (21W) FWHM / FWTM 32.0° / 65.0° Efficiency 88 % Peak intensity 2.4 cd/lm LEDs/each optic 1 Light colour Tunable White</p> <p>Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 491 Typ L8</p>		
<p></p> <p>LED Vesta TW 6mm DP FWHM / FWTM 24.0° / 57.0° Efficiency 82 % Peak intensity 3.2 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS Bender Wirth: 504 Typ L8</p>		
<p></p> <p>LED Vesta TW 6mm DP FWHM / FWTM 21.0° / 41.0° Efficiency 88 % Peak intensity 4.5 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 504 Typ L8</p>		
<p></p> <p>LED Vesta TW 9mm (12W) CSP FWHM / FWTM 29.0° / 64.0° Efficiency 83 % Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS</p>		

PHOTOMETRIC DATA (MEASURED):

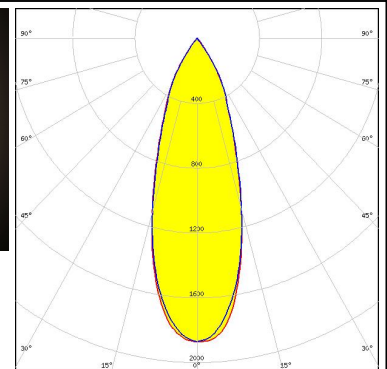
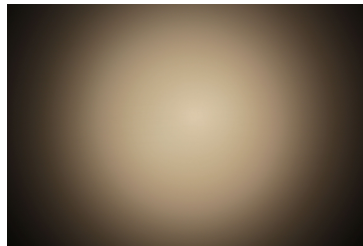
CITIZEN

LED CLC030 Series (Dim-To-Warm)
 FWHM / FWTM 33.0° / 66.0°
 Efficiency 87 %
 Peak intensity 2.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 436 Typ L8



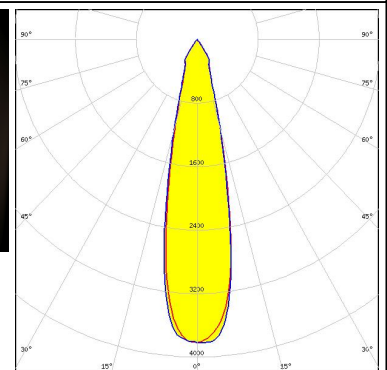
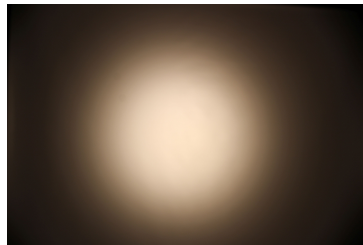
CITIZEN

LED CLC030 Series (Dim-To-Warm)
 FWHM / FWTM 34.0° / 68.0°
 Efficiency 80 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 C14658_BARBARA-RZ-LENS
 Bender Wirth: 436 Typ L8



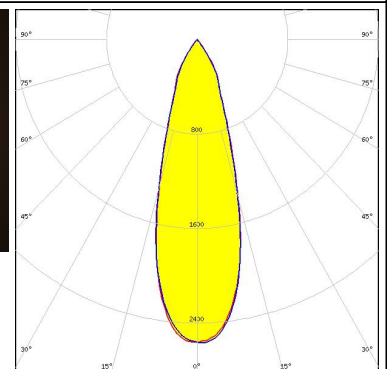
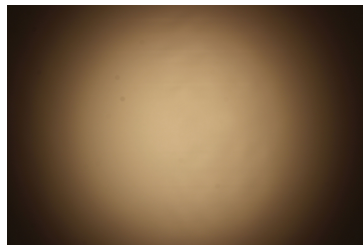
CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM / FWTM 24.0° / 49.0°
 Efficiency 92 %
 Peak intensity 3.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



CITIZEN

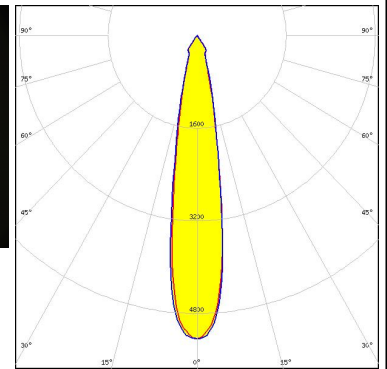
LED CLL03x/CLU03x
 FWHM / FWTM 31.0° / 65.0°
 Efficiency 91 %
 Peak intensity 2.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15859_HEKLA-SOCKET-I



PHOTOMETRIC DATA (MEASURED):

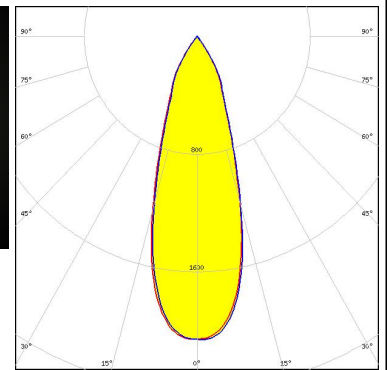
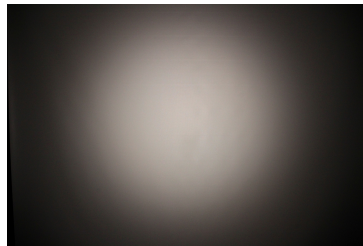
CITIZEN

LED CLU700/701/702
 FWHM / FWTM 19.0° / 39.0°
 Efficiency 92 %
 Peak intensity 5.2 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



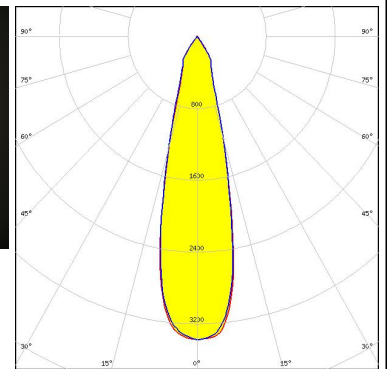
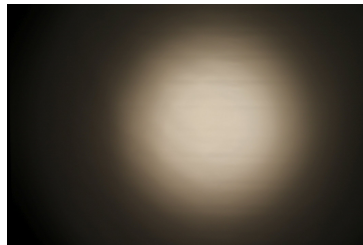
CITIZEN

LED LCN-C02B (Tunable White)
 FWHM / FWTM 33.0° / 67.0°
 Efficiency 82 %
 Peak intensity 2.1 cd/m
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K
 C14658_BARBARA-RZ-LENS
 Bender Wirth: 481 Typ L8



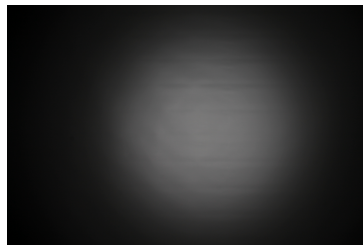
CREE

LED CMT14xx
 FWHM / FWTM 26.0° / 57.0°
 Efficiency 92 %
 Peak intensity 3.4 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



CREE

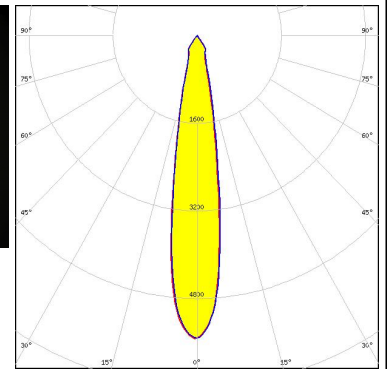
LED CMT19xx
 FWHM / FWTM 32.0° / 66.0°
 Efficiency 92 %
 Peak intensity 2.5 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15859_HEKLA-SOCKET-I



PHOTOMETRIC DATA (MEASURED):

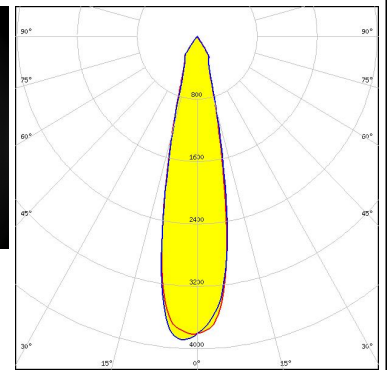
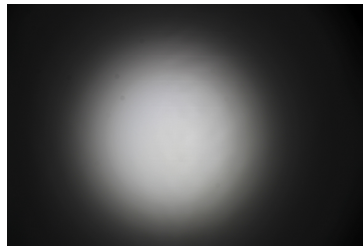
CREE

LED CXA/B 13xx
 FWHM / FWTM 18.0° / 37.0°
 Efficiency 92 %
 Peak intensity 5.5 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15956_HEKLA-SOCKET-J



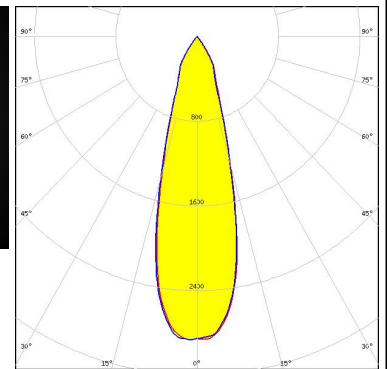
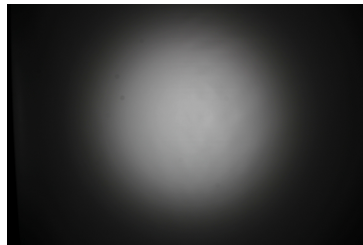
CREE

LED CXA/B 15xx
 FWHM / FWTM 23.0° / 49.0°
 Efficiency 92 %
 Peak intensity 3.9 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15256_HEKLA-SOCKET-D



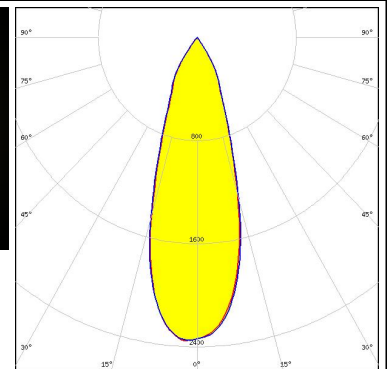
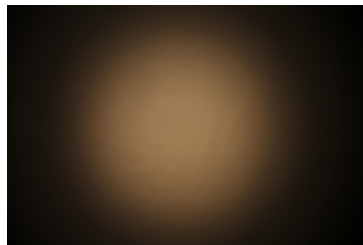
CREE

LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM / FWTM 29.0° / 63.0°
 Efficiency 91 %
 Peak intensity 2.9 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15254_HEKLA-SOCKET-B

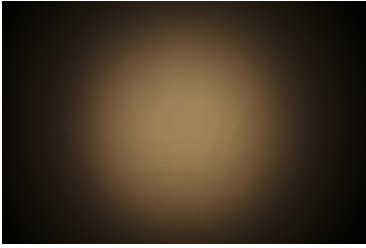
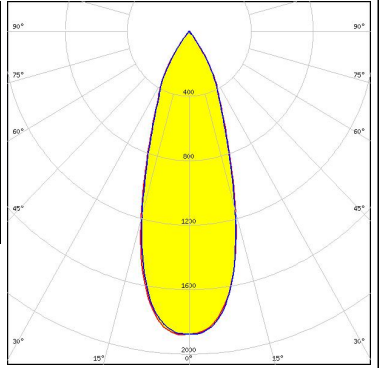

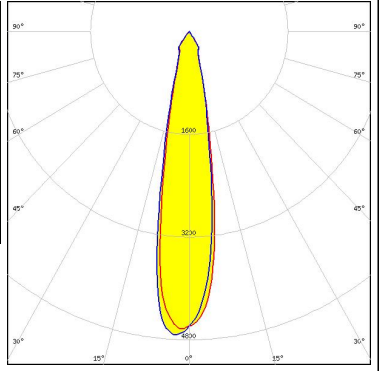
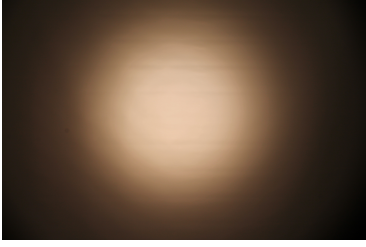
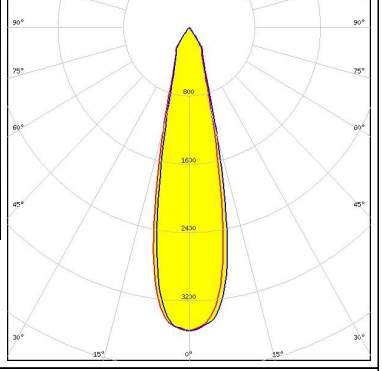

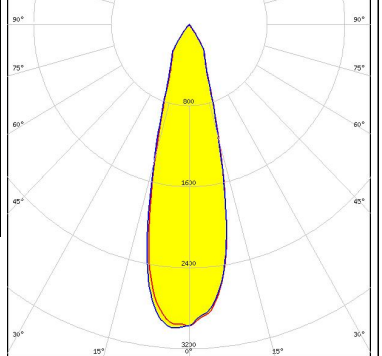


LUMILEDS

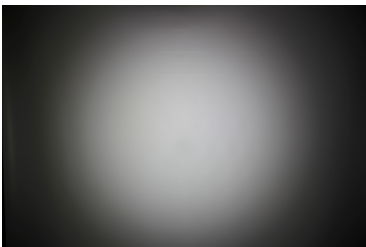
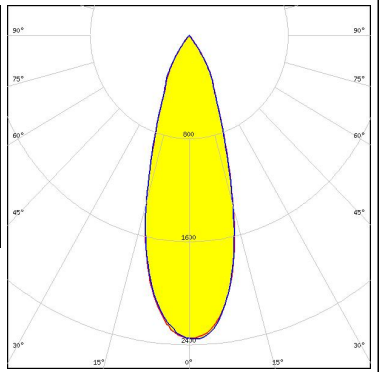

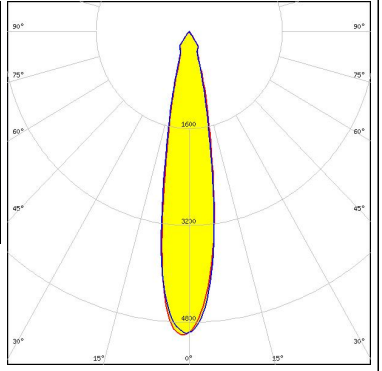
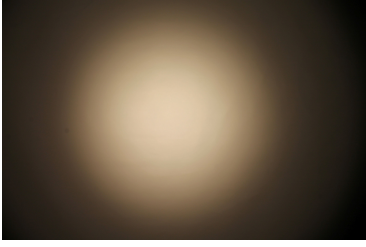
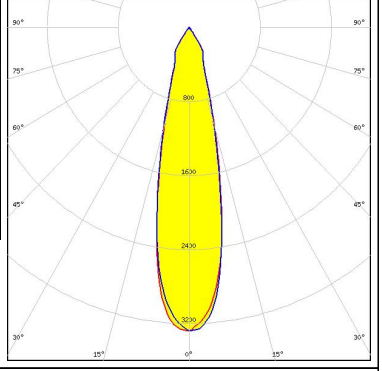

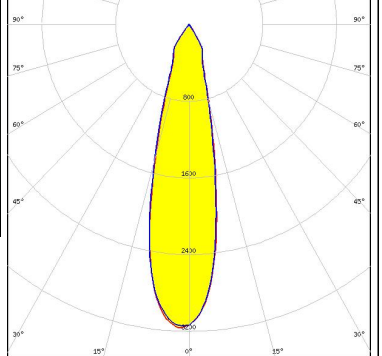
LED LUXEON CX Plus CoB L08 (Gen2)
 FWHM / FWTM 33.0° / 66.0°
 Efficiency 90 %
 Peak intensity 2.4 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 637a Hekla




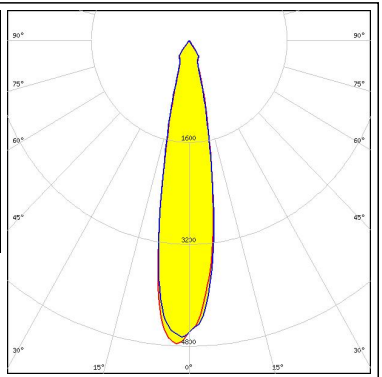

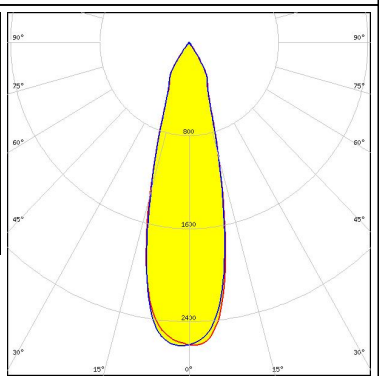

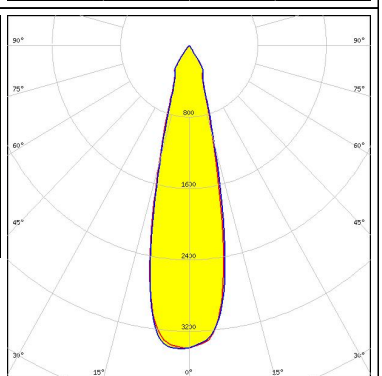

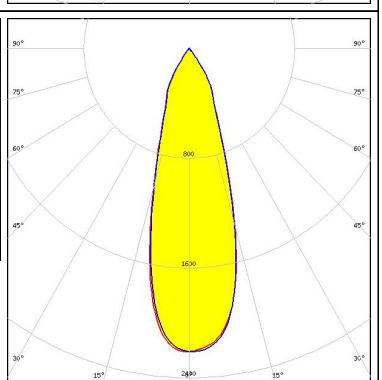
PHOTOMETRIC DATA (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB L08 (Gen2)</p> <p>FWHM / FWTM 35.0° / 68.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 1.9 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14658_BARBARA-RZ-LENS Bender Wirth: 637a Hekla</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1202HD</p> <p>FWHM / FWTM 20.0° / 42.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 4.7 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15848_HEKLA-SOCKET-G</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1204HD</p> <p>FWHM / FWTM 25.0° / 53.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 3.6 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15858_HEKLA-SOCKET-H</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1205HD</p> <p>FWHM / FWTM 28.0° / 63.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 3 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15858_HEKLA-SOCKET-H</p>		

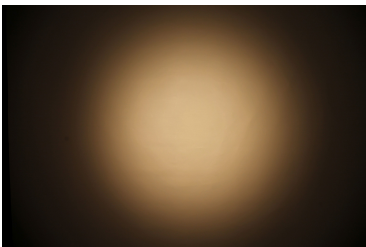
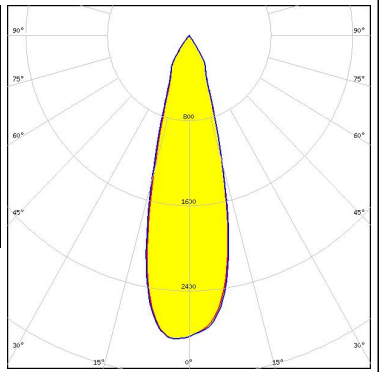

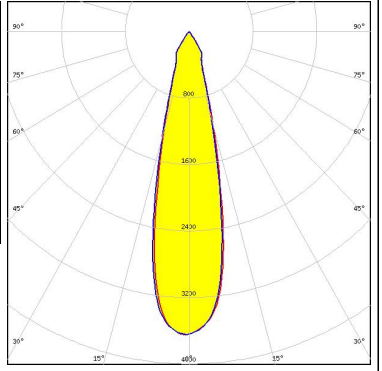
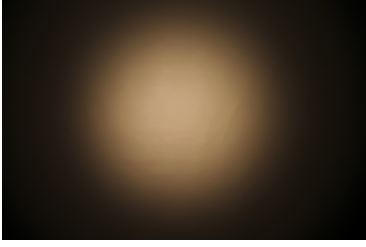
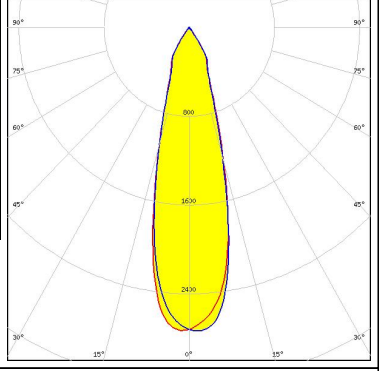

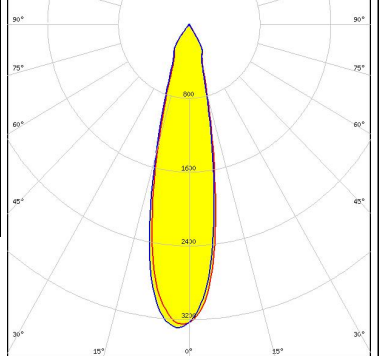
PHOTOMETRIC DATA (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON CoB 1208</p> <p>FWHM / FWTM 33.0° / 66.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 2.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 632a Hekla XL</p>		
<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB - HD S01H4</p> <p>FWHM / FWTM 20.0° / 39.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 634c Hekla</p>		
<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB - HD S01H4</p> <p>FWHM / FWTM 24.0° / 57.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 3.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14658_BARBARA-RZ-LENS Bender Wirth: 634c Hekla</p>		
<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB - HD S01H6 / HD S02H6</p> <p>FWHM / FWTM 25.0° / 60.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 3.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14658_BARBARA-RZ-LENS Bender Wirth: 634c Hekla</p>		


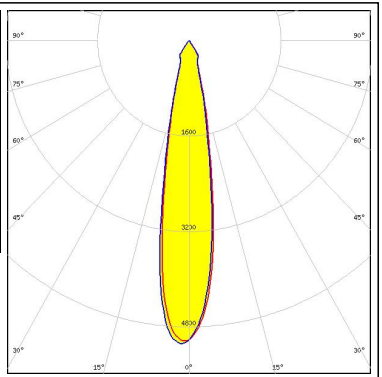

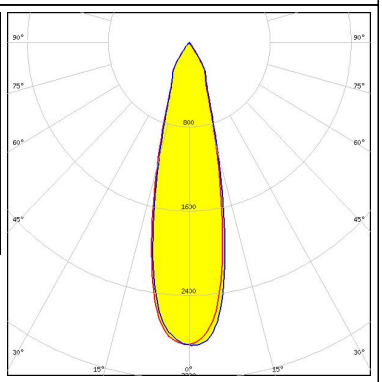

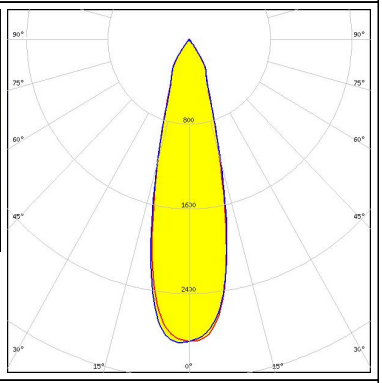
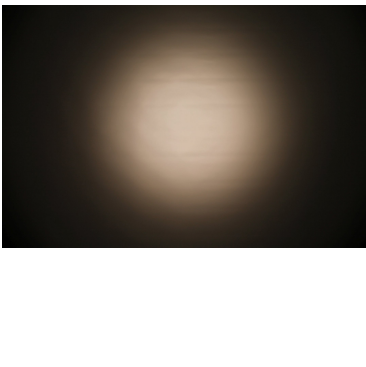
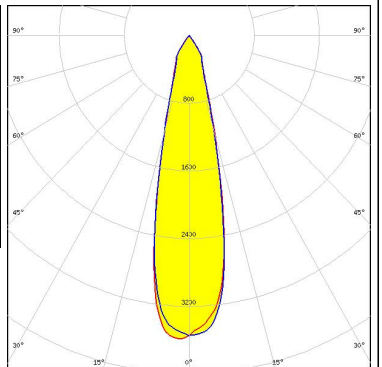
PHOTOMETRIC DATA (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB - HD S01H6 / HD S02H6</p> <p>FWHM / FWTM 21.0° / 40.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 4.8 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 634c Hekla</p>		
<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB - HD S04H9</p> <p>FWHM / FWTM 28.0° / 64.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 2.6 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14658_BARBARA-RZ-LENS Bender Wirth: 634c Hekla</p>		
<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB - HD S04H9</p> <p>FWHM / FWTM 26.0° / 58.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 3.4 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 634c Hekla</p>		
<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB L04 / L05 (Gen2)</p> <p>FWHM / FWTM 32.0° / 66.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 2.2 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14658_BARBARA-RZ-LENS Bender Wirth: 637a Hekla</p>		

PHOTOMETRIC DATA (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB L04 / L05 (Gen2)</p> <p>FWHM / FWTM 29.0° / 63.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 2.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 637a Hekla</p>		
<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB M02 / M03 (Gen2)</p> <p>FWHM / FWTM 24.0° / 51.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 3.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 641a Hekla</p>		
<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB M02 / M03 (Gen2)</p> <p>FWHM / FWTM 27.0° / 64.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 2.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14658_BARBARA-RZ-LENS Bender Wirth: 641a Hekla</p>		
<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB S01 (Gen2)</p> <p>FWHM / FWTM 24.0° / 58.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 3.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14658_BARBARA-RZ-LENS Bender Wirth: 634c Hekla</p>		

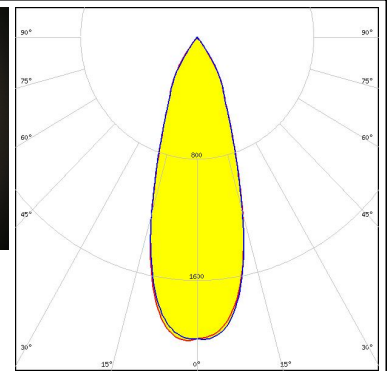
PHOTOMETRIC DATA (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB S01 (Gen2)</p> <p>FWHM / FWTM 20.0° / 39.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 5.1 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 634c Hekla</p>		
<p>LUMILEDS</p> <p>LED LUXEON Fusion 21-up (20x24)</p> <p>FWHM / FWTM 27.0° / 63.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 2.9 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS Bender Wirth: 442 Typ L8</p>		
<p>PHILIPS</p> <p>LED Fortimo SLM L09 CoB</p> <p>FWHM / FWTM 27.0° / 64.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 2.9 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15858_HEKLA-SOCKET-H C14658_BARBARA-RZ-LENS</p>		
<p>PHILIPS</p> <p>LED Fortimo SLM L09 CoB</p> <p>FWHM / FWTM 25.0° / 53.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 3.6 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15858_HEKLA-SOCKET-H</p>		

PHOTOMETRIC DATA (MEASURED):

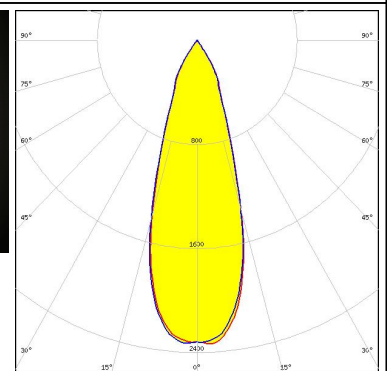
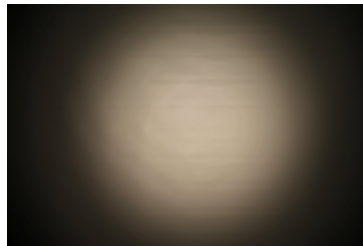
PHILIPS

LED Fortimo SLM L13 CoB
 FWHM / FWTM 34.0° / 67.0°
 Efficiency 83 %
 Peak intensity 2 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 C14658_BARBARA-RZ-LENS
 Bender Wirth: 432 Typ L8



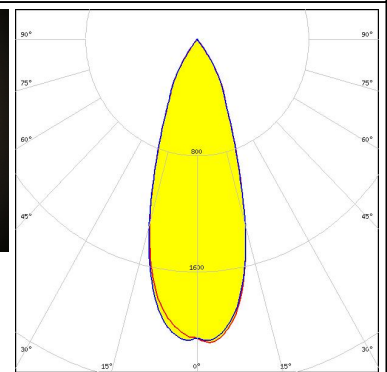
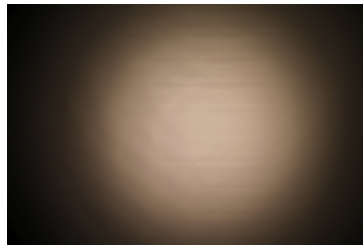
PHILIPS

LED Fortimo SLM L13 CoB
 FWHM / FWTM 33.0° / 65.0°
 Efficiency 89 %
 Peak intensity 2.3 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 432 Typ L8



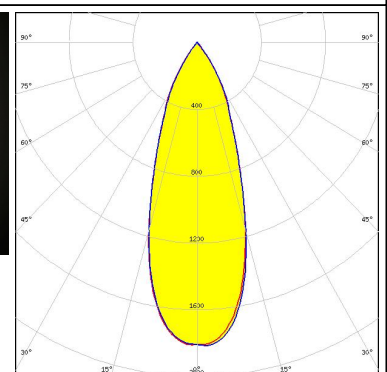
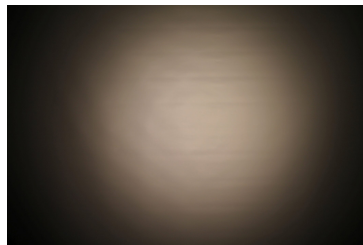
PHILIPS

LED Fortimo SLM L15 CoB
 FWHM / FWTM 35.0° / 67.0°
 Efficiency 88 %
 Peak intensity 2.1 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 432 Typ L8



PHILIPS

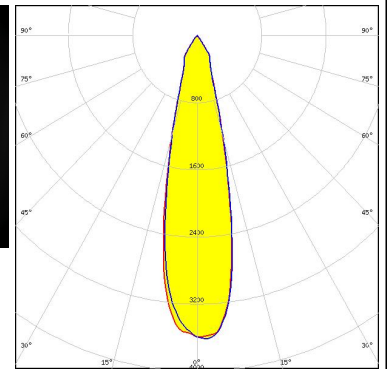
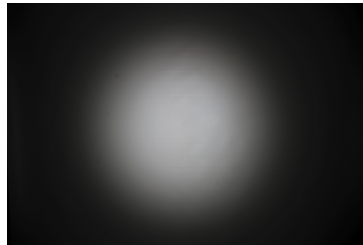
LED Fortimo SLM L15 CoB
 FWHM / FWTM 36.0° / 69.0°
 Efficiency 83 %
 Peak intensity 1.8 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 C14658_BARBARA-RZ-LENS
 Bender Wirth: 432 Typ L8



PHOTOMETRIC DATA (MEASURED):

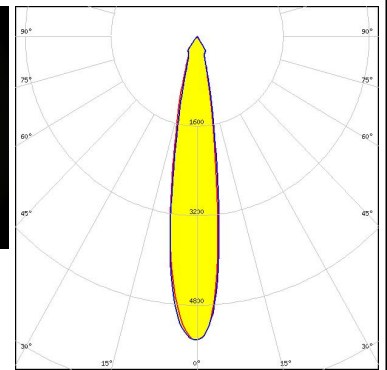
SAMSUNG

LED LC003D / LC006D / LC009D / LC013D
 FWHM / FWTM 25.0° / 52.0°
 Efficiency 92 %
 Peak intensity 3.6 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



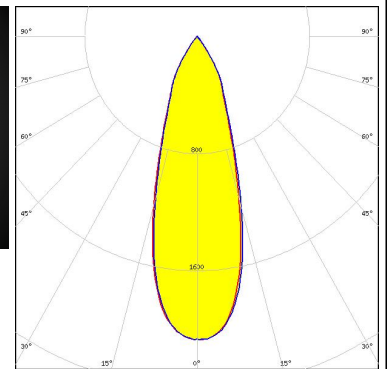
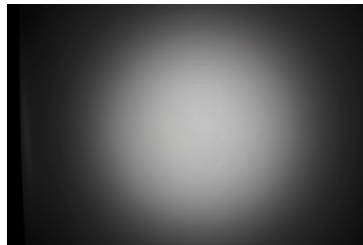
SAMSUNG

LED LC010C G2
 FWHM / FWTM 18.0° / 38.0°
 Efficiency 92 %
 Peak intensity 5.4 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



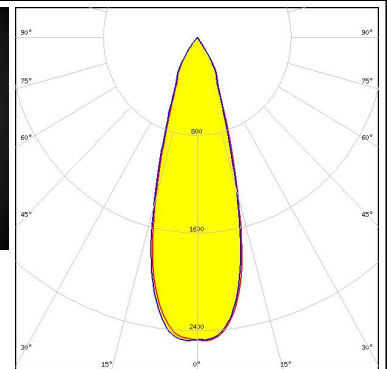
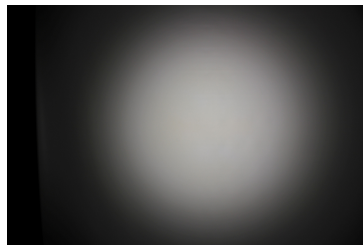
SAMSUNG

LED LC020T (Tunable white)
 FWHM / FWTM 33.0° / 67.0°
 Efficiency 83 %
 Peak intensity 2.1 cd/m
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K
 C14658_BARBARA-RZ-LENS
 Bender Wirth: 501 Typ L8



SAMSUNG

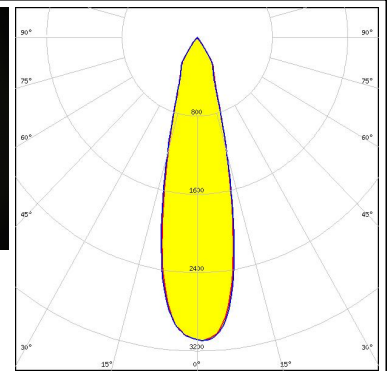
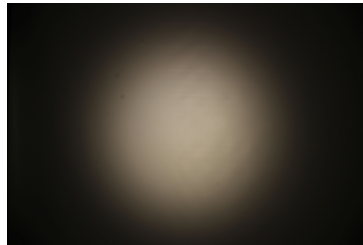
LED LC020T (Tunable white)
 FWHM / FWTM 31.0° / 64.0°
 Efficiency 88 %
 Peak intensity 2.5 cd/m
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 501 Typ L8



PHOTOMETRIC DATA (MEASURED):

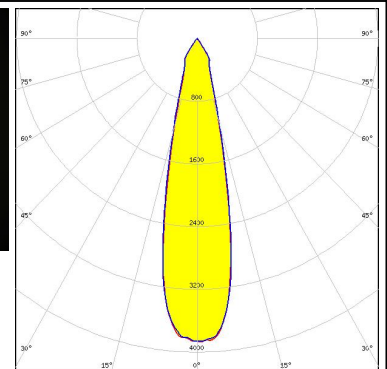
TRIDONIC

LED SLE G7 LES09
 FWHM / FWTM 26.0° / 63.0°
 Efficiency 90 %
 Peak intensity 3.1 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C
 C14658_BARBARA-RZ-LENS



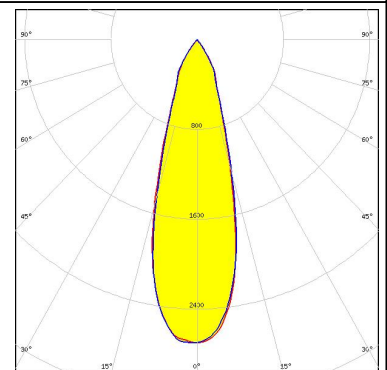
TRIDONIC

LED SLE G7 LES09
 FWHM / FWTM 24.0° / 50.0°
 Efficiency 94 %
 Peak intensity 3.9 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



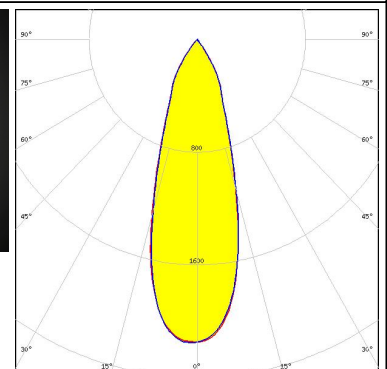
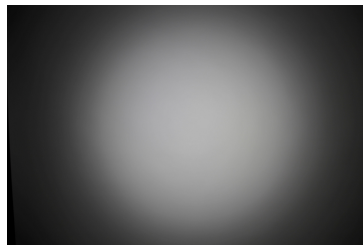
TRIDONIC

LED SLE G7 LES13
 FWHM / FWTM 30.0° / 64.0°
 Efficiency 91 %
 Peak intensity 2.7 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15859_HEKLA-SOCKET-I



TRIDONIC

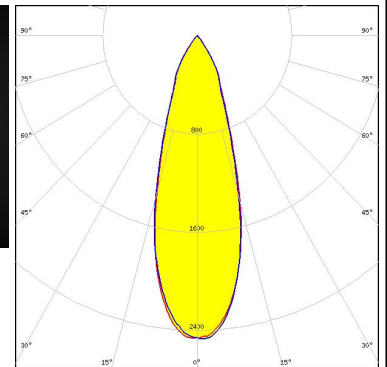
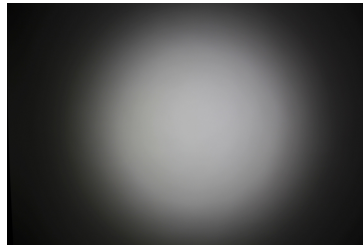
LED SLE G7 LES13
 FWHM / FWTM 32.0° / 67.0°
 Efficiency 84 %
 Peak intensity 2.2 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15859_HEKLA-SOCKET-I
 C14658_BARBARA-RZ-LENS



PHOTOMETRIC DATA (MEASURED):

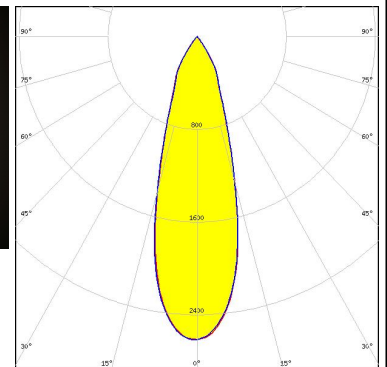
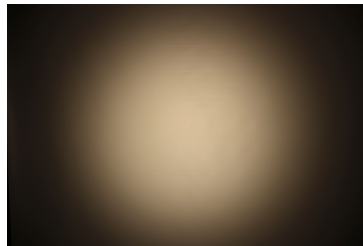
TRIDONIC

LED SLE G7 LES15
 FWHM / FWTM 32.0° / 66.0°
 Efficiency 91 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15859_HEKLA-SOCKET-I



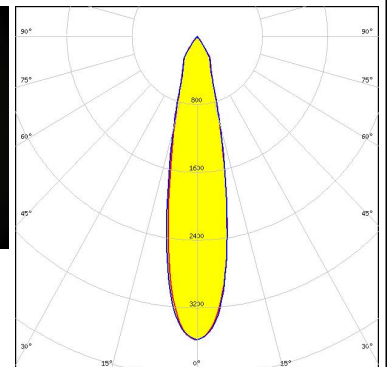
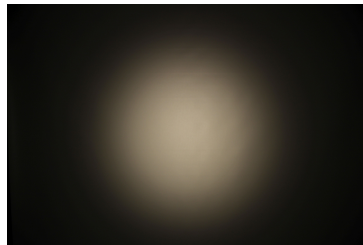
XICATO

LED XOB 14.5 mm
 FWHM / FWTM 30.0° / 65.0°
 Efficiency 92 %
 Peak intensity 2.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15859_HEKLA-SOCKET-I



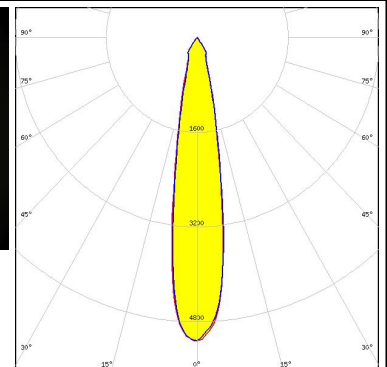
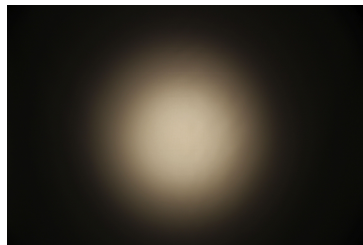
XICATO

LED XOB 6 mm
 FWHM / FWTM 23.0° / 55.0°
 Efficiency 86 %
 Peak intensity 3.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C
 C14658_BARBARA-RZ-LENS



XICATO

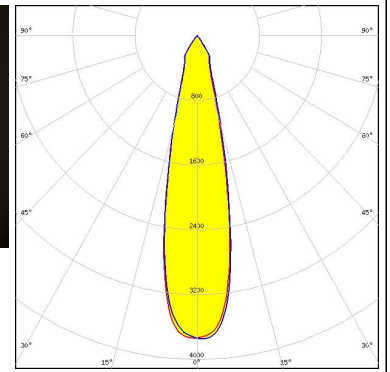
LED XOB 6 mm
 FWHM / FWTM 18.0° / 39.0°
 Efficiency 90 %
 Peak intensity 5.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C




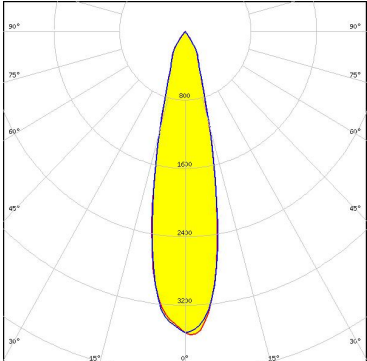

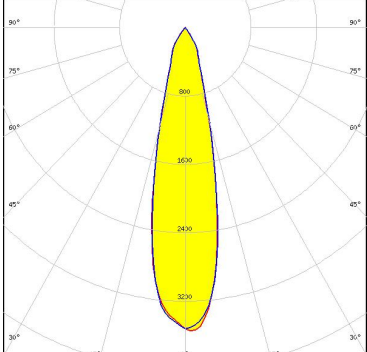

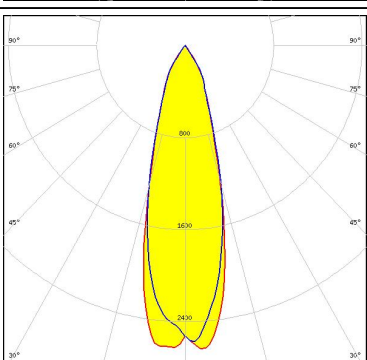

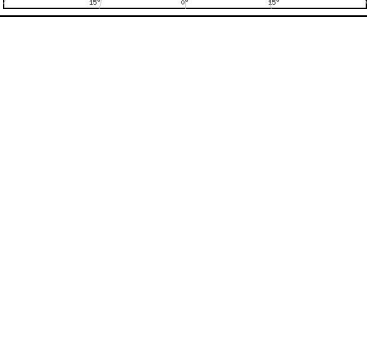
PHOTOMETRIC DATA (MEASURED):

XICATO

LED XOB 9.8 mm
FWHM / FWTM 24.0° / 50.5 + 51.0°
Efficiency 92 %
Peak intensity 3.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



PHOTOMETRIC DATA (SIMULATED):

<p> bridgelux.</p> <p>LED VERO10 FWHM / FWTM 24.0° / 53.0° Efficiency 89 % Peak intensity 3.6 cd/lm LEDs/each optic 1 Light colour White Required components: F15616_HEKLA-SOCKET-F</p>	
<p> bridgelux.</p> <p>LED VERO13 FWHM / FWTM 31.0° / 63.0° Efficiency 83 % Peak intensity 2.4 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K</p>	
<p> bridgelux.</p> <p>LED Vesta DTW 15mm (33W) FWHM / FWTM 30.0° / 64.0° Efficiency 87 % Peak intensity 2.7 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 491 Typ L8</p>	
<p> NICHIA</p> <p>LED COB L-Type (LES 11) FWHM / FWTM 26.0° / 61.0° Efficiency 90 % Peak intensity 3.2 cd/lm LEDs/each optic 1 Light colour White Required components: F15858_HEKLA-SOCKET-H</p>	

PHOTOMETRIC DATA (SIMULATED):



LED	COB L-Type (LES 9)
FWHM / FWTM	22.0° / 51.0°
Efficiency	90 %
Peak intensity	4 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.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

LEDiL Oy

Joensuunkatu 13
FI-24240 SALO
Finland

LEDiL Inc.

228 West Page Street
Suite D
Sycamore IL 60178
USA

Ledil Optics Technology (Shenzhen) Co., Ltd.

405 , Block B
Casic Motor Building
Shenzhen 518057
P.R.CHINA

Local sales and technical support

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)

Shipping locations

Salo, Finland
Hong Kong, China

Distribution Partners

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)