

ILONA-ZOOM

An infinitely adjustable beam from 13 to 48 degrees.

SPECIFICATION:

Dimensions	Ø 52.5 mm
Height	33.2 mm
Fastening	socket
ROHS compliant	yes ⓘ



MATERIALS:

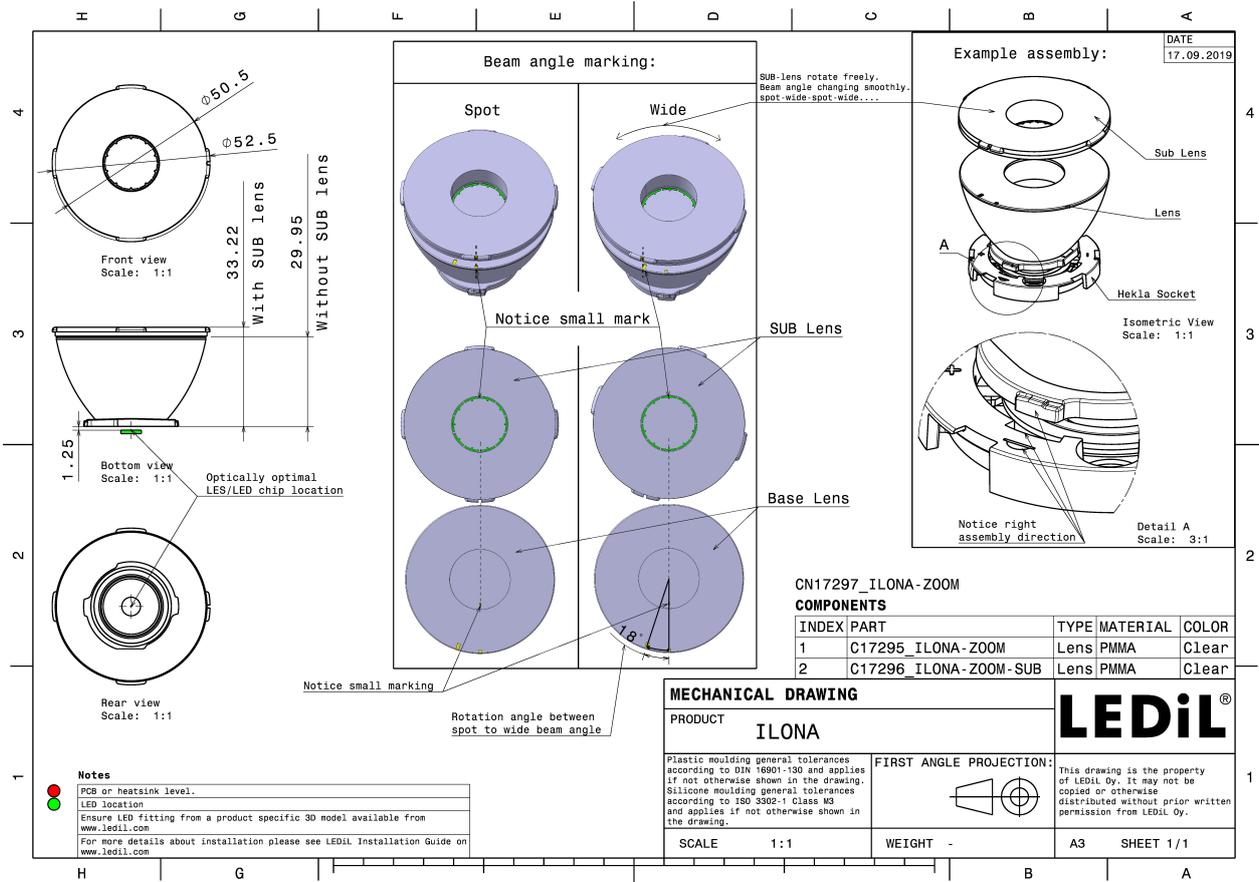
Component	Type	Material	Colour	Finish
C17296_ILONA-ZOOM-SUB	Single lens	PMMA	clear	
C17295_ILONA-ZOOM	Single lens	PMMA	clear	

ORDERING INFORMATION:

Quantities for one set:

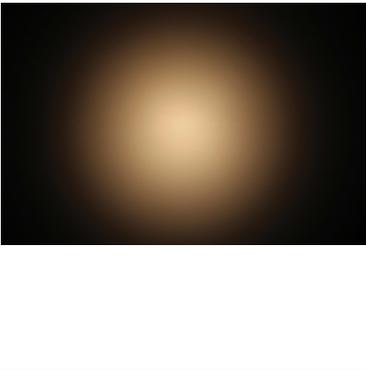
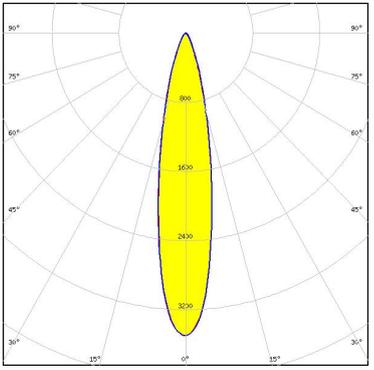
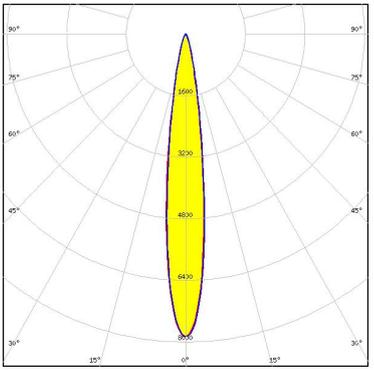
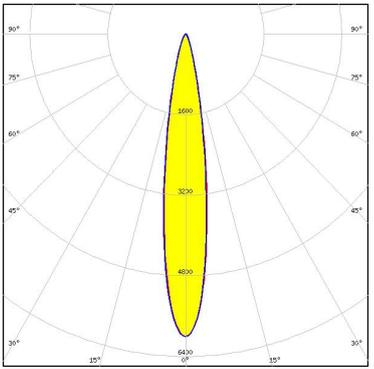
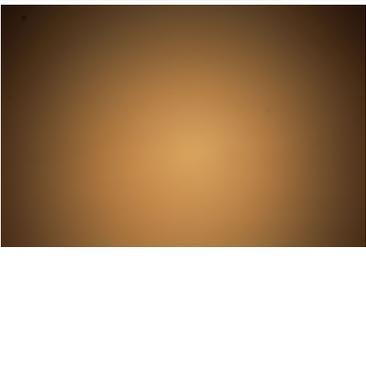
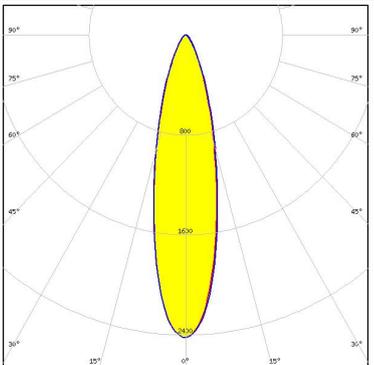
Single lens	2
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Component		Qty in box	MOQ	MPQ	Box weight (kg)
C17295_ILONA-ZOOM	Single lens	264	33	33	9.7
» Box size: 480 x 280 x 300 mm					
C17296_ILONA-ZOOM-SUB	Single lens	264	33	33	2.4
» Box size: 480 x 280 x 185 mm					

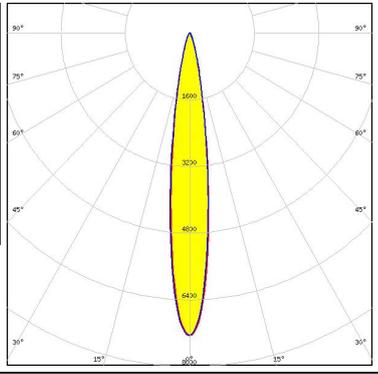
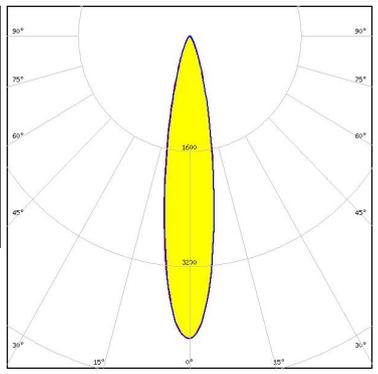
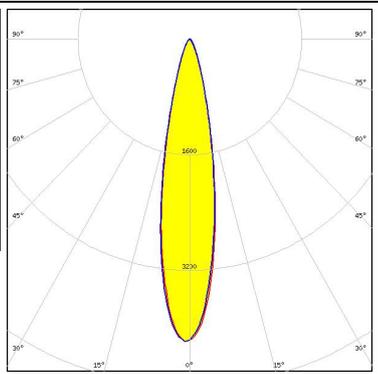
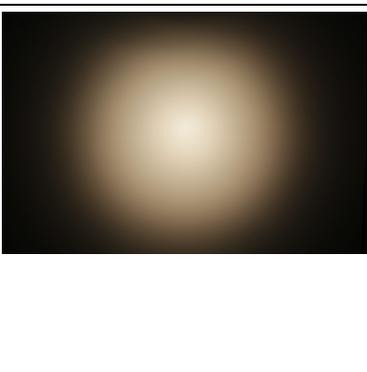
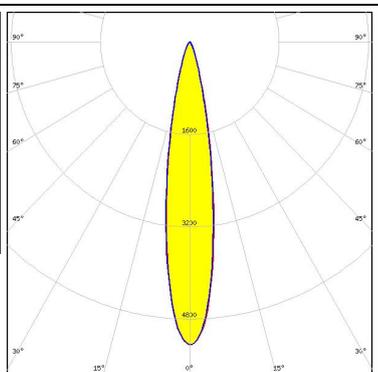


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

<p></p> <p>LED V11 HD Gen 8</p> <p>FWHM / FWTM 21.0 + 46.0° / 45.0 + 88.0°</p> <p>Efficiency 78 %</p> <p>Peak intensity 3.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 633d Hekla</p>		
<p></p> <p>LED V6 HD Gen 7</p> <p>FWHM / FWTM 14.0 + 48.0° / 30.0 + 84.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 7.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>		
<p></p> <p>LED V8 Gen7</p> <p>FWHM / FWTM 16.0 + 46.0° / 35.0 + 83.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15253_HEKLA-SOCKET-A</p>		
<p></p> <p>LED Vesta DTW 13mm (21W)</p> <p>FWHM / FWTM 25.0 + 46.0° / 55.0 + 90.0°</p> <p>Efficiency 77 %</p> <p>Peak intensity 2.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Tunable White</p> <p>Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 491 Typ L8</p>		

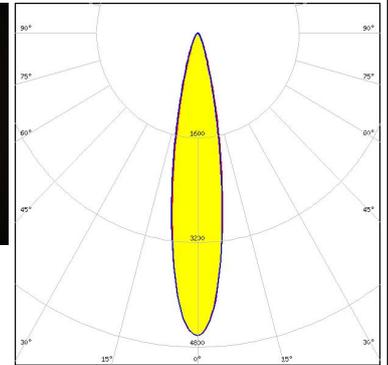
OPTICAL RESULTS (MEASURED):

<p></p> <p>LED Vesta TW 6mm DP FWHM / FWTM 15.0 + 48.0° / 32.0 + 84.0° Efficiency 84 % Peak intensity 7.3 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 504 Typ L8</p>		
<p></p> <p>LED Vesta TW 9mm (9W) DP FWHM / FWTM 19.0 + 46.0° / 42.0 + 86.0° Efficiency 81 % Peak intensity 4.2 cd/lm LEDs/each optic 1 Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 489 Typ L8</p>		
<p>CITIZEN</p> <p>LED CLL02x/CLU02x (LES10) FWHM / FWTM 21.0 + 47.0° / 42.0 + 86.0° Efficiency 85 % Peak intensity 4.2 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C</p>		
<p>CITIZEN</p> <p>LED CLU712/713 FWHM / FWTM 19.0 + 47.0° / 37.0 + 84.0° Efficiency 85 % Peak intensity 5.2 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I</p>		

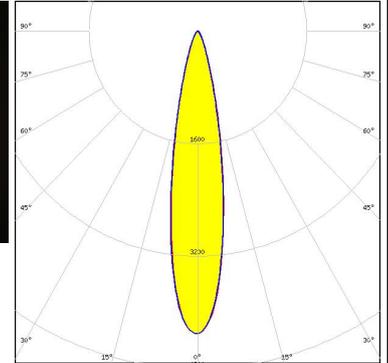
OPTICAL RESULTS (MEASURED):



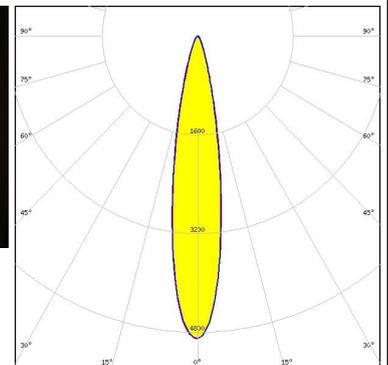
LED CMA1516
 FWHM / FWTM 19.0 + 47.0° / 39.0 + 85.0°
 Efficiency 85 %
 Peak intensity 4.6 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15256_HEKLA-SOCKET-D



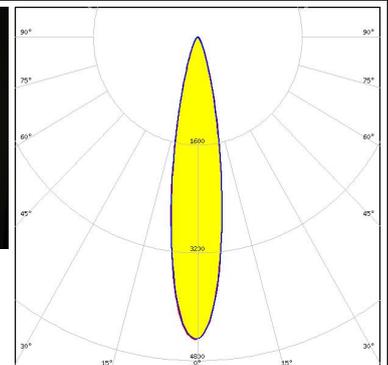
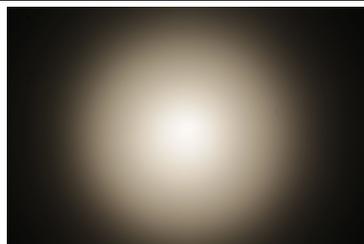
LED CMT14xx
 FWHM / FWTM 20.0 + 46.0° / 41.0 + 85.0°
 Efficiency 85 %
 Peak intensity 4.3 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



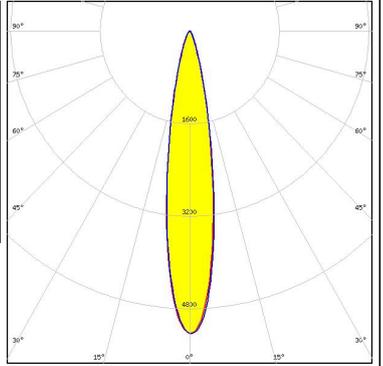
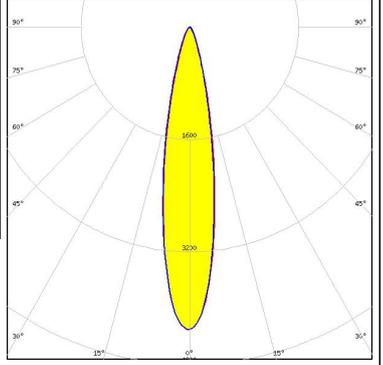
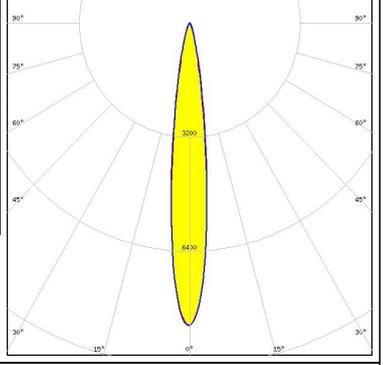
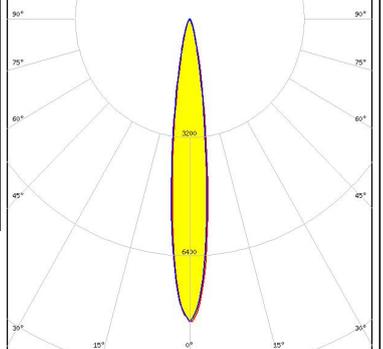
LED LUXEON CX Plus CoB M02 / M03 (Gen2)
 FWHM / FWTM 19.0 + 47.0° / 39.0 + 85.0°
 Efficiency 86 %
 Peak intensity 4.9 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15256_HEKLA-SOCKET-D



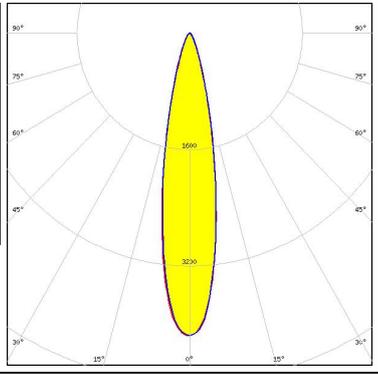
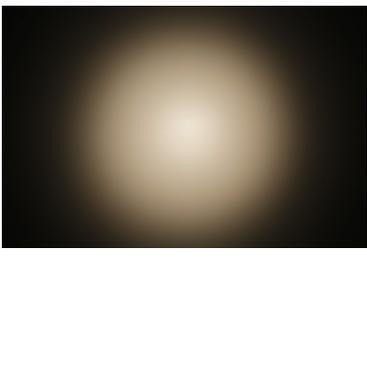
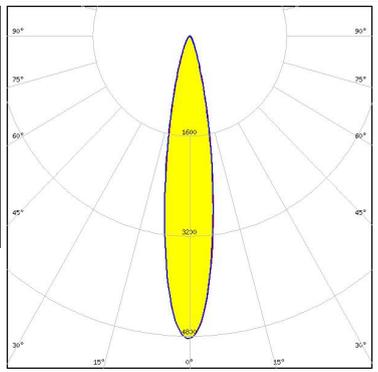
LED CxM-9 (13.5x13.5)
 FWHM / FWTM 20.0 + 46.0° / 41.0 + 85.0°
 Efficiency 86 %
 Peak intensity 4.5 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



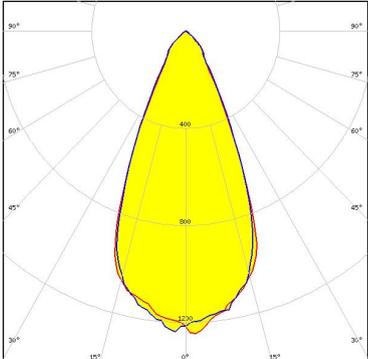
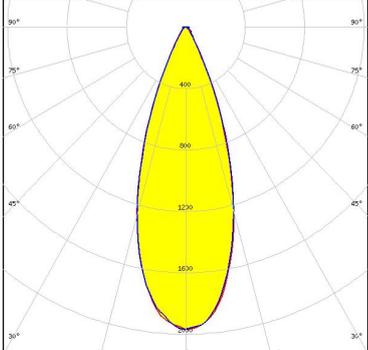
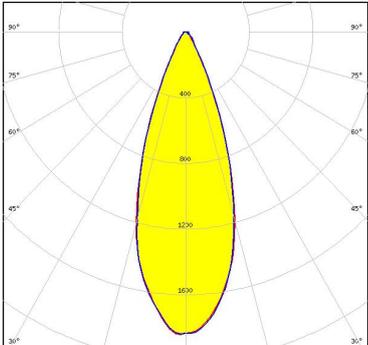
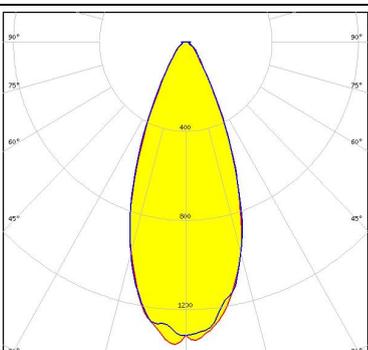
OPTICAL RESULTS (MEASURED):

<p>NICHIA</p> <p>LED COB L-Type (LES 9)</p> <p>FWHM / FWTM 19.0 + 47.0° / 38.0 + 84.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 5.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15858_HEKLA-SOCKET-H</p>		
<p>SAMSUNG</p> <p>LED LC003D / LC006D / LC009D / LC013D</p> <p>FWHM / FWTM 20.0 + 47.0° / 42.0 + 85.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 4.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>		
<p>SAMSUNG</p> <p>LED LC010C G2</p> <p>FWHM / FWTM 14.0 + 48.0° / 30.0 + 84.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 8.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>		
<p>SEOUL SEMICONDUCTOR</p> <p>LED MJT COB LES 6</p> <p>FWHM / FWTM 14.0 + 48.0° / 30.0 + 85.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 1.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F17435_HEKLA-G2-C</p>		

OPTICAL RESULTS (MEASURED):

<p> SEUL SEMICONDUCTOR</p> <p>LED MJT COB LES 9.8</p> <p>FWHM / FWTM 21.0 + 47.0° / 43.0 + 86.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 4.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>		
<p>XICATO</p> <p>LED XOB 9.8 mm</p> <p>FWHM / FWTM 19.0 + 47.0° / 40.0 + 85.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 4.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>		

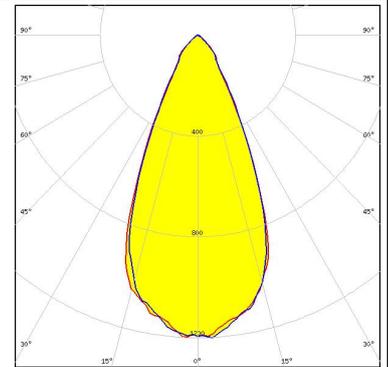
OPTICAL RESULTS (SIMULATED):

<p></p> <p>LED V4 HD Gen 7</p> <p>FWHM / FWTM 12.0 + 46.0° / 25.0 + 76.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 12.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15253_HEKLA-SOCKET-A</p>	
<p></p> <p>LED V9 HD Gen7</p> <p>FWHM / FWTM 18.0 + 46.0° / 34.0 + 82.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 6.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15859_HEKLA-SOCKET-I</p>	
<p></p> <p>LED Vesta DTW 9mm (4W/6W/12W)</p> <p>FWHM / FWTM 18.0 + 46.0° / 36.0 + 84.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 5.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 490 Typ L8</p>	
<p>CITIZEN</p> <p>LED CLL03x/CLU03x</p> <p>FWHM / FWTM 25.0 + 46.0° / 51.0 + 92.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 2.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15859_HEKLA-SOCKET-I</p>	

OPTICAL RESULTS (SIMULATED):

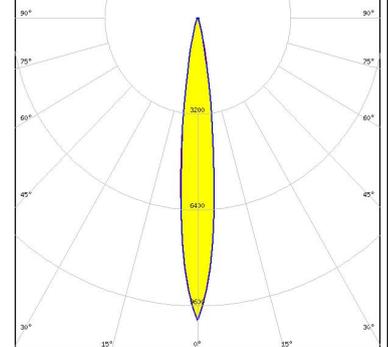
CITIZEN

LED CLU700/701/702/703
 FWHM / FWTM 13.0 + 47.0° / 27.0 + 78.0°
 Efficiency 82 %
 Peak intensity 10 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



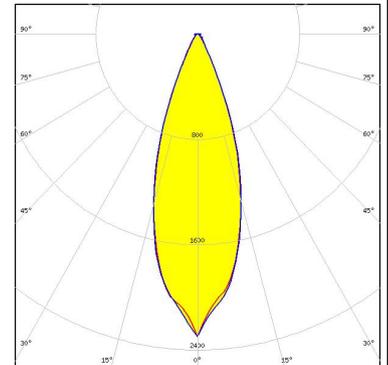
CITIZEN

LED CLU7A2/7A3
 FWHM / FWTM 13.0 + 48.0° / 26.0 + 83.0°
 Efficiency 88 %
 Peak intensity 10.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



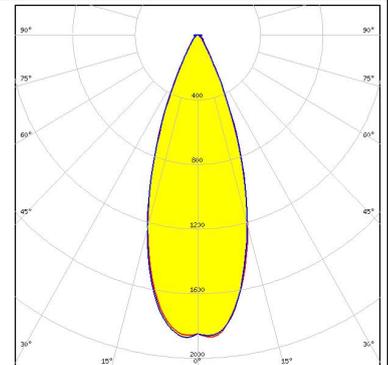
CREE LED

LED CXA/B 13xx
 FWHM / FWTM 14.0 + 47.0° / 28.0 + 80.0°
 Efficiency 90 %
 Peak intensity 9.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15956_HEKLA-SOCKET-J



CREE LED

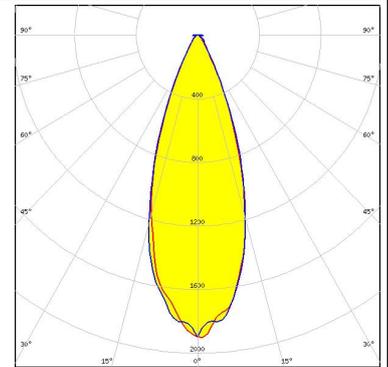
LED CXA/B 15xx
 FWHM / FWTM 18.0 + 46.0° / 36.0 + 81.0°
 Efficiency 89 %
 Peak intensity 5.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15256_HEKLA-SOCKET-D



OPTICAL RESULTS (SIMULATED):

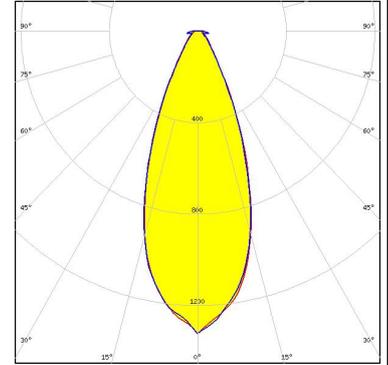
LUMILEDS

LED LUXEON CoB 1202/1203
 FWHM / FWTM 20.0 + 44.0° / 37.0 + 80.0°
 Efficiency 87 %
 Peak intensity 5.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F17437_HEKLA-G2-H



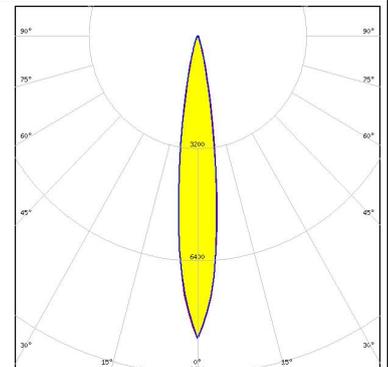
LUMILEDS

LED LUXEON CoB 1204/1205
 FWHM / FWTM 24.0 + 46.0° / 50.0 + 95.0°
 Efficiency 85 %
 Peak intensity 2.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 437 Typ L8



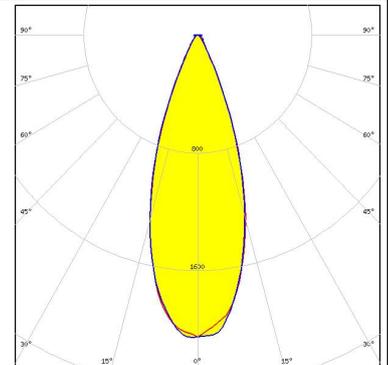
LUMINUS

LED CxM-6 (13.5x13.5)
 FWHM / FWTM 14.0 + 46.0° / 30.0 + 81.0°
 Efficiency 90 %
 Peak intensity 8.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F17435_HEKLA-G2-C

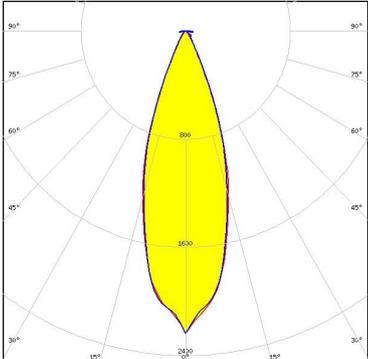
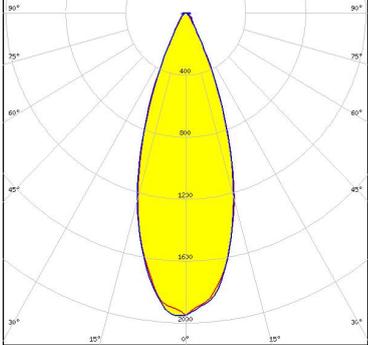
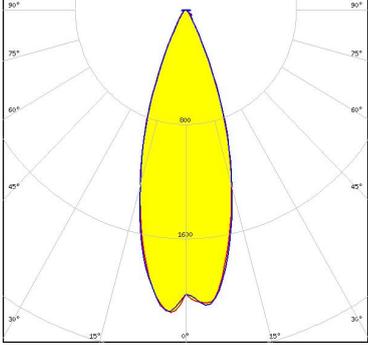
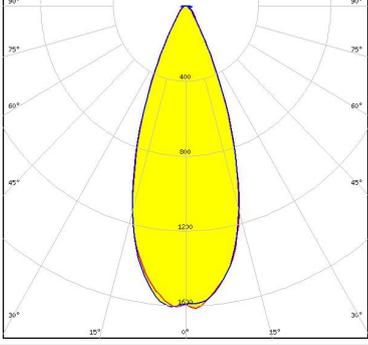


NICHIA

LED COB S-Type (LES 7)
 FWHM / FWTM 16.0 + 48.0° / 30.0 + 80.0°
 Efficiency 89 %
 Peak intensity 7.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15848_HEKLA-SOCKET-G



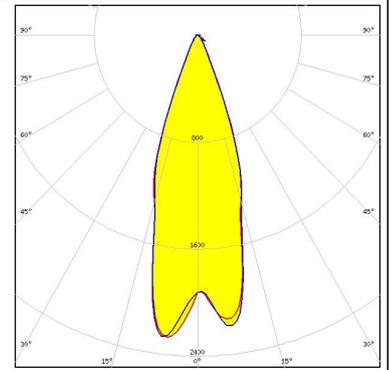
OPTICAL RESULTS (SIMULATED):

<p>NICHIA</p> <p>LED: NCSxE17A FWHM / FWTM: 13.0 + 47.0° / 27.0 + 75.0° Efficiency: 88 % Peak intensity: 10 cd/lm LEDs/each optic: 7 Light colour: White Required components:</p>	
<p>SAMSUNG</p> <p>LED: LC010T (Tunable White) FWHM / FWTM: 18.0 + 46.0° / 34.0 + 83.0° Efficiency: 88 % Peak intensity: 6.4 cd/lm LEDs/each optic: 1 Light colour: White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 501 Typ L8</p>	
<p>SAMSUNG</p> <p>LED: LC020C FWHM / FWTM: 14.0 + 46.0° / 28.0 + 77.0° Efficiency: 88 % Peak intensity: 9.2 cd/lm LEDs/each optic: 1 Light colour: White Required components: F17438_HEKLA-G2-I</p>	
<p>SAMSUNG</p> <p>LED: LC020T (Tunable white) FWHM / FWTM: 22.0 + 46.0° / 42.0 + 85.0° Efficiency: 86 % Peak intensity: 4.1 cd/lm LEDs/each optic: 1 Light colour: White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 501 Typ L8</p>	

OPTICAL RESULTS (SIMULATED):

TRIDONIC

LED	SLE G7 LES13
FWHM / FWTM	12.0 + 45.0° / 21.0 + 71.0°
Efficiency	88 %
Peak intensity	16.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F17438_HEKLA-G2-I



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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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.

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LEDiL Oy

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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/
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