

ILONA-W

~35° wide beam

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 49.8 mm
Height	29.7 mm
Fastening	socket
ROHS compliant	yes 

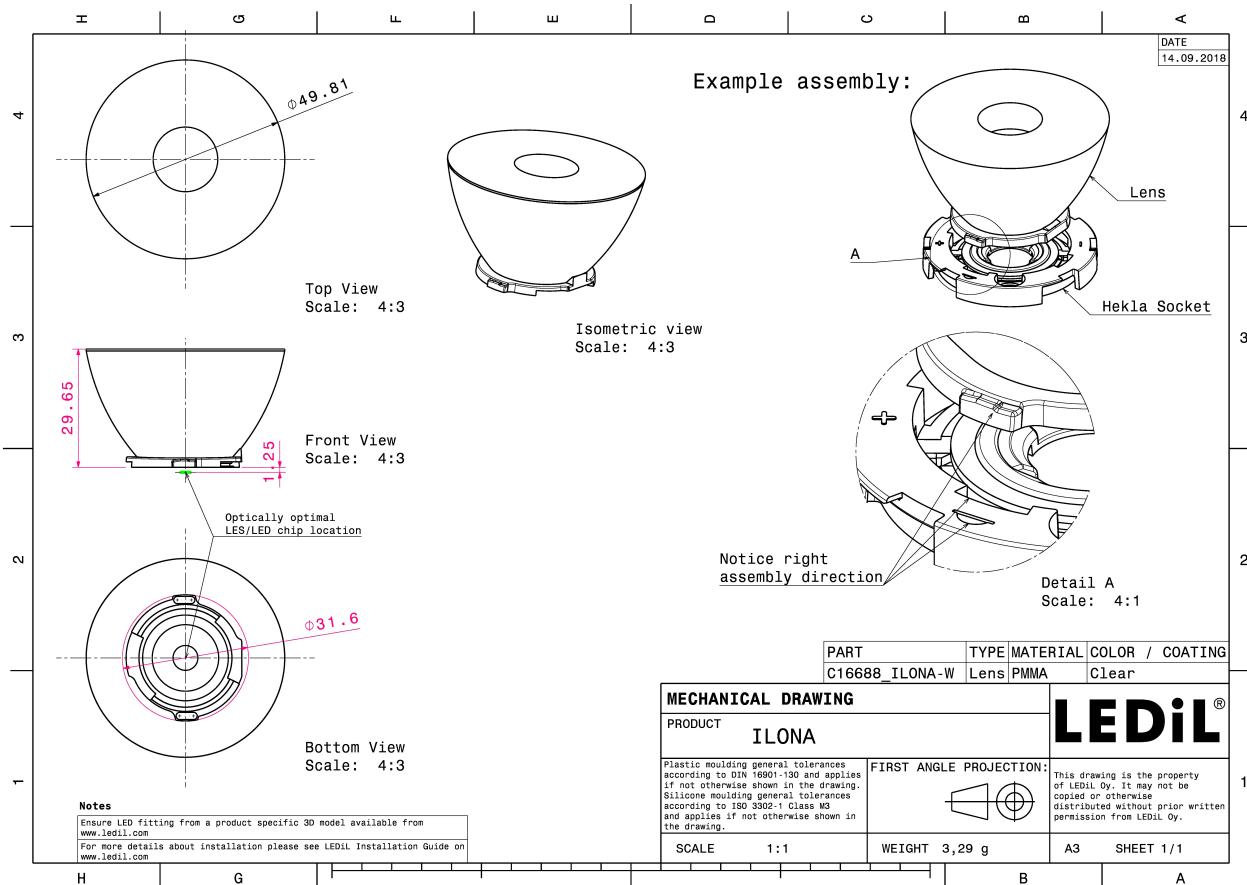


MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
ILONA-W	Single lens	PMMA	clear	

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C16688_ILONA-W	264	99	33	10.1
» Box size: 480 x 280 x 300 mm				

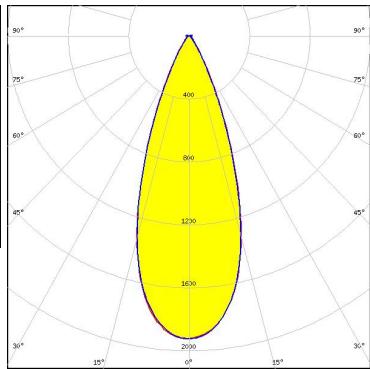
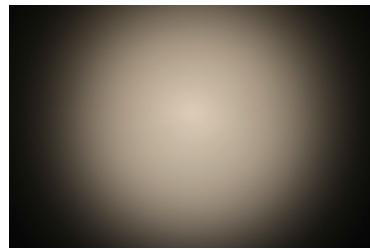


See also our general installation guide: www.ledil.com/installation_guide

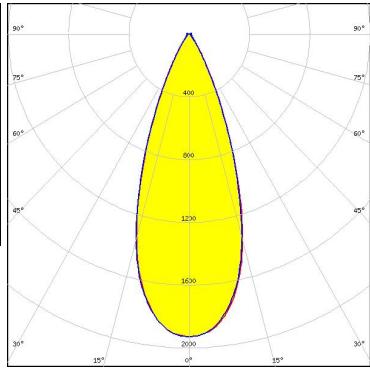
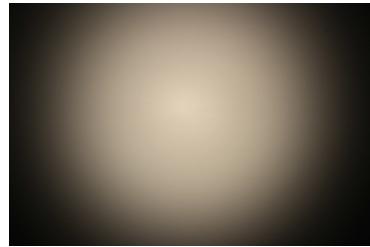
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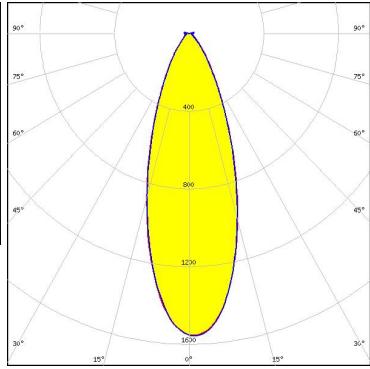
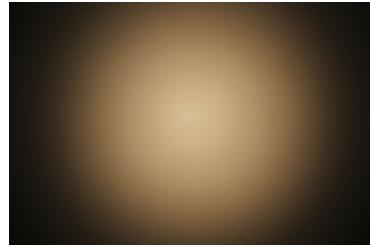
LED V6 HD
FWHM / FWTM 38.0° / 62.0°
Efficiency 93 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 Bender Wirth: 634c Hekla



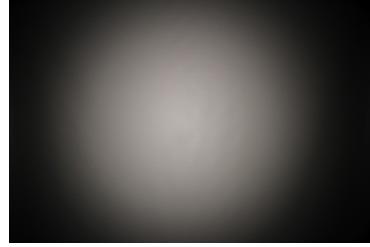
LED V6 HD
FWHM / FWTM 39.0° / 62.0°
Efficiency 93 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 F15255_HEKLA-SOCKET-C



LED Vesta DTW 13mm (21W)
FWHM / FWTM 35.0° / 72.0°
Efficiency 87 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour Tunable White
Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 491 Typ L8



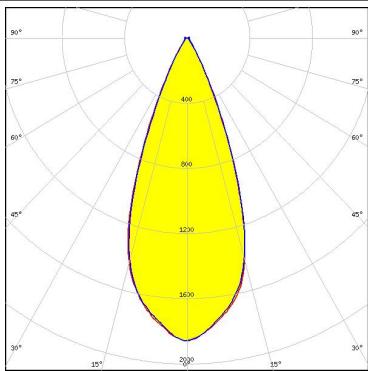
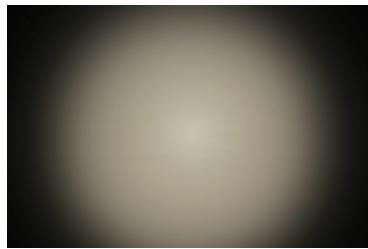
LED Vesta TW 6mm DP
FWHM / FWTM 39.0° / 63.0°
Efficiency 88 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 504 Typ L8



PHOTOMETRIC DATA (MEASURED):

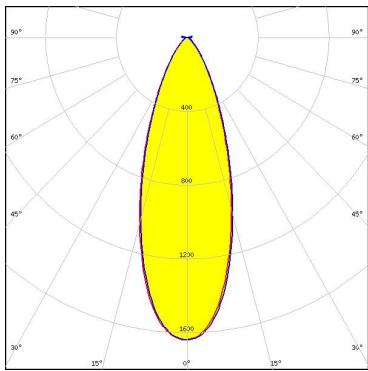
CITIZEN

LED CLU7B2
FWHM / FWTM 41.0° / 61.0°
Efficiency 92 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



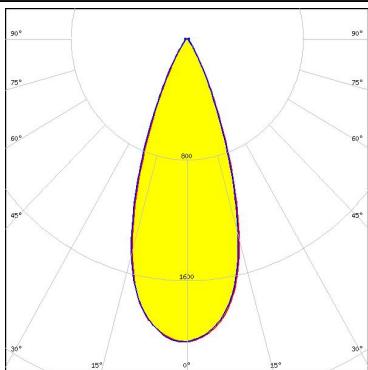
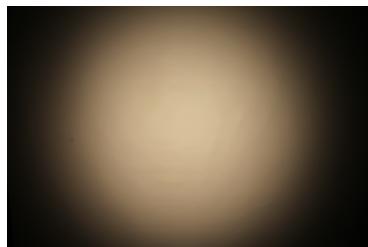
LUMILEDS

LED LUXEON CX Plus CoB L08 (Gen2)
FWHM / FWTM 36.0° / 72.0°
Efficiency 90 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
Bender Wirth: 637a Hekla



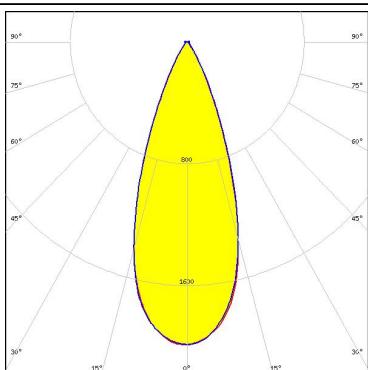
LUMILEDS

LED LUXEON CX Plus CoB - HD S01H4
FWHM / FWTM 39.0° / 61.0°
Efficiency 93 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
Bender Wirth: 634c Hekla

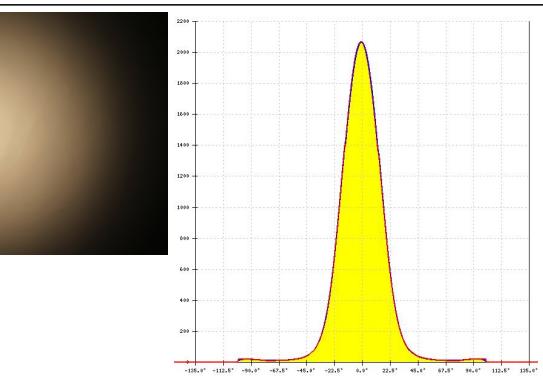
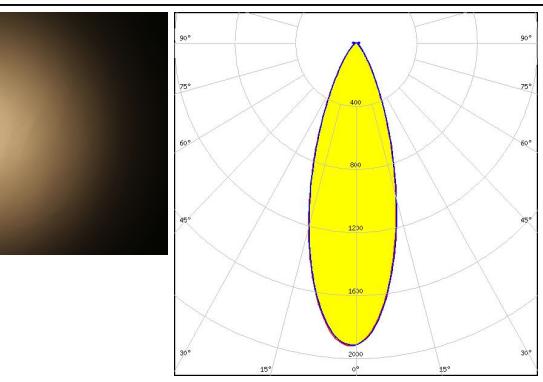
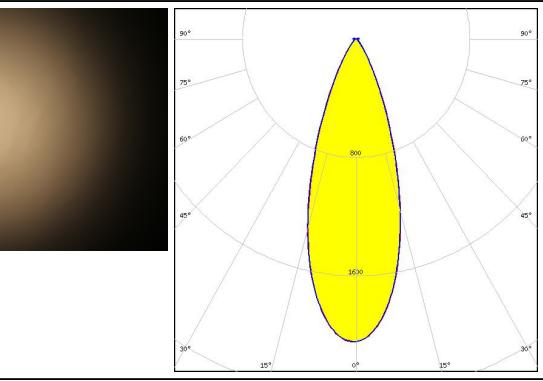
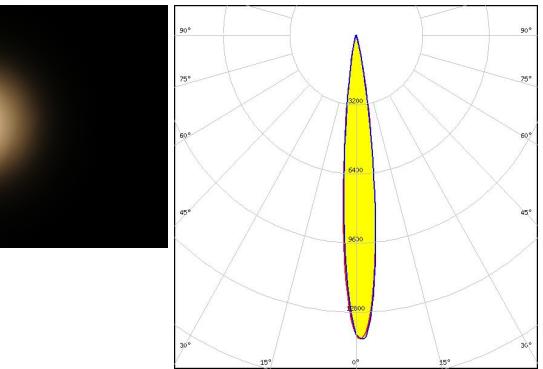


LUMILEDS

LED LUXEON CX Plus CoB - HD S01H6 / HD S02H6
FWHM / FWTM 38.0° / 61.0°
Efficiency 93 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
Bender Wirth: 634c Hekla



PHOTOMETRIC DATA (MEASURED):

 LUMILEDS	LED LUXEON CX Plus CoB - HD S04H9		 <p>Graph showing Photometric Distribution (lm) versus Angle (degrees). The distribution is highly peaked at 0°, with a FWHM of 63.0°.</p> <table border="1"> <thead> <tr> <th>Angle (degrees)</th> <th>lm (approx.)</th> </tr> </thead> <tbody> <tr><td>-118.5°</td><td>10</td></tr> <tr><td>-112.5°</td><td>10</td></tr> <tr><td>-90.0°</td><td>10</td></tr> <tr><td>-67.5°</td><td>10</td></tr> <tr><td>-45.0°</td><td>10</td></tr> <tr><td>-22.5°</td><td>10</td></tr> <tr><td>0.0°</td><td>2200</td></tr> <tr><td>22.5°</td><td>10</td></tr> <tr><td>45.0°</td><td>10</td></tr> <tr><td>67.5°</td><td>10</td></tr> <tr><td>90.0°</td><td>10</td></tr> <tr><td>112.5°</td><td>10</td></tr> <tr><td>118.5°</td><td>10</td></tr> </tbody> </table>	Angle (degrees)	lm (approx.)	-118.5°	10	-112.5°	10	-90.0°	10	-67.5°	10	-45.0°	10	-22.5°	10	0.0°	2200	22.5°	10	45.0°	10	67.5°	10	90.0°	10	112.5°	10	118.5°	10
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 LUMILEDS	LED LUXEON CX Plus CoB L04 / L05 (Gen2)		 <p>Graph showing Photometric Distribution (lm) versus Angle (degrees). The distribution is highly peaked at 0°, with a FWHM of 66.0°.</p> <table border="1"> <thead> <tr> <th>Angle (degrees)</th> <th>lm (approx.)</th> </tr> </thead> <tbody> <tr><td>-118.5°</td><td>10</td></tr> <tr><td>-112.5°</td><td>10</td></tr> <tr><td>-90.0°</td><td>10</td></tr> <tr><td>-67.5°</td><td>10</td></tr> <tr><td>-45.0°</td><td>10</td></tr> <tr><td>-22.5°</td><td>10</td></tr> <tr><td>0.0°</td><td>2200</td></tr> <tr><td>22.5°</td><td>10</td></tr> <tr><td>45.0°</td><td>10</td></tr> <tr><td>67.5°</td><td>10</td></tr> <tr><td>90.0°</td><td>10</td></tr> <tr><td>112.5°</td><td>10</td></tr> <tr><td>118.5°</td><td>10</td></tr> </tbody> </table>	Angle (degrees)	lm (approx.)	-118.5°	10	-112.5°	10	-90.0°	10	-67.5°	10	-45.0°	10	-22.5°	10	0.0°	2200	22.5°	10	45.0°	10	67.5°	10	90.0°	10	112.5°	10	118.5°	10
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 LUMILEDS	LED LUXEON CX Plus CoB M02 / M03 (Gen2)		 <p>Graph showing Photometric Distribution (lm) versus Angle (degrees). The distribution is highly peaked at 0°, with a FWHM of 63.0°.</p> <table border="1"> <thead> <tr> <th>Angle (degrees)</th> <th>lm (approx.)</th> </tr> </thead> <tbody> <tr><td>-118.5°</td><td>10</td></tr> <tr><td>-112.5°</td><td>10</td></tr> <tr><td>-90.0°</td><td>10</td></tr> <tr><td>-67.5°</td><td>10</td></tr> <tr><td>-45.0°</td><td>10</td></tr> <tr><td>-22.5°</td><td>10</td></tr> <tr><td>0.0°</td><td>2200</td></tr> <tr><td>22.5°</td><td>10</td></tr> <tr><td>45.0°</td><td>10</td></tr> <tr><td>67.5°</td><td>10</td></tr> <tr><td>90.0°</td><td>10</td></tr> <tr><td>112.5°</td><td>10</td></tr> <tr><td>118.5°</td><td>10</td></tr> </tbody> </table>	Angle (degrees)	lm (approx.)	-118.5°	10	-112.5°	10	-90.0°	10	-67.5°	10	-45.0°	10	-22.5°	10	0.0°	2200	22.5°	10	45.0°	10	67.5°	10	90.0°	10	112.5°	10	118.5°	10
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 LUMILEDS	LED LUXEON CX Plus CoB S01 (Gen2)		 <p>Graph showing Photometric Distribution (lm) versus Angle (degrees). The distribution is highly peaked at 0°, with a FWHM of 23.0°.</p> <table border="1"> <thead> <tr> <th>Angle (degrees)</th> <th>lm (approx.)</th> </tr> </thead> <tbody> <tr><td>-118.5°</td><td>10</td></tr> <tr><td>-112.5°</td><td>10</td></tr> <tr><td>-90.0°</td><td>10</td></tr> <tr><td>-67.5°</td><td>10</td></tr> <tr><td>-45.0°</td><td>10</td></tr> <tr><td>-22.5°</td><td>10</td></tr> <tr><td>0.0°</td><td>3200</td></tr> <tr><td>22.5°</td><td>10</td></tr> <tr><td>45.0°</td><td>10</td></tr> <tr><td>67.5°</td><td>10</td></tr> <tr><td>90.0°</td><td>10</td></tr> <tr><td>112.5°</td><td>10</td></tr> <tr><td>118.5°</td><td>10</td></tr> </tbody> </table>	Angle (degrees)	lm (approx.)	-118.5°	10	-112.5°	10	-90.0°	10	-67.5°	10	-45.0°	10	-22.5°	10	0.0°	3200	22.5°	10	45.0°	10	67.5°	10	90.0°	10	112.5°	10	118.5°	10
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112.5°	10																														
118.5°	10																														

PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED LUXEON Fusion 21-up (20x24)

FWHM / FWTM 37.0° / 64.0°

Efficiency 91 %

Peak intensity 1.9 cd/lm

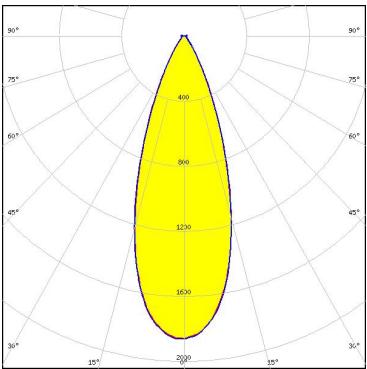
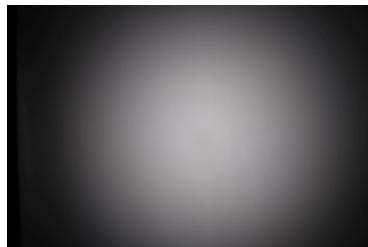
LEDs/each optic 21

Light colour White

Required components:

C16142_HEKLA-SOCKET-K

Bender Wirth: 442 Typ L8



LUMINUS

LED CXM-3

FWHM / FWTM 41.0° / 61.0°

Efficiency 93 %

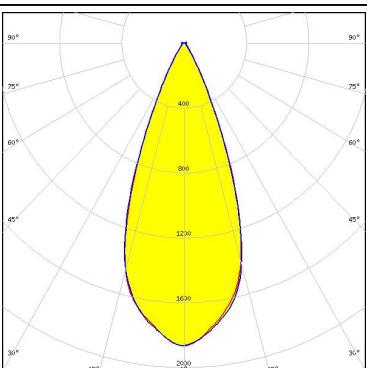
Peak intensity 1.9 cd/lm

LEDs/each optic 1

Light colour White

Required components:

F15255_HEKLA-SOCKET-C



LUMINUS

LED CXM-4

FWHM / FWTM 41.0° / 62.0°

Efficiency 94 %

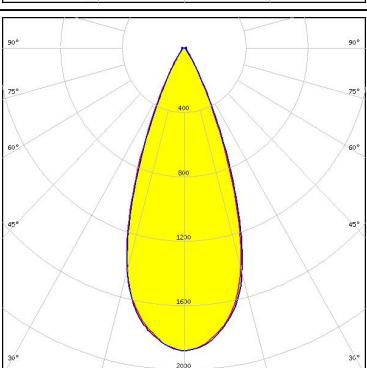
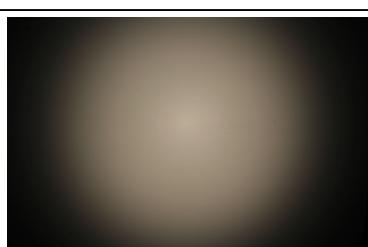
Peak intensity 1.9 cd/lm

LEDs/each optic 1

Light colour White

Required components:

F15255_HEKLA-SOCKET-C



SAMSUNG

LED LC010T (Tunable White)

FWHM / FWTM 35.0° / 65.0°

Efficiency 90 %

Peak intensity 1.8 cd/lm

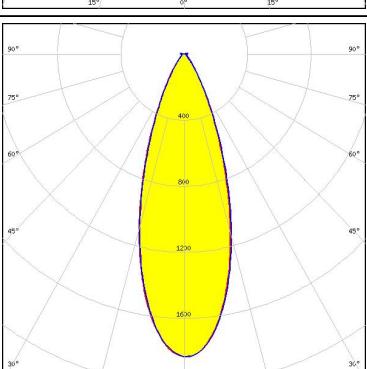
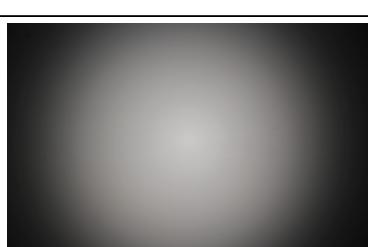
LEDs/each optic 1

Light colour Tunable White

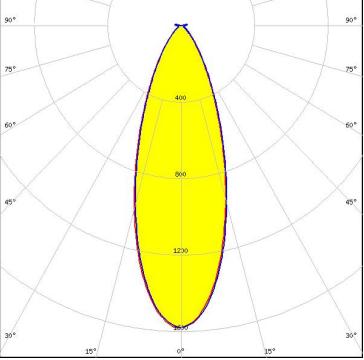
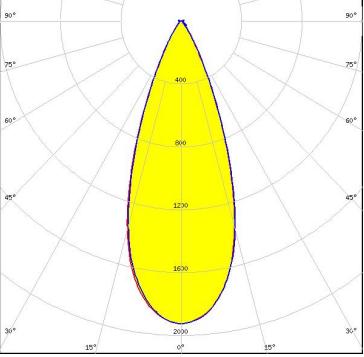
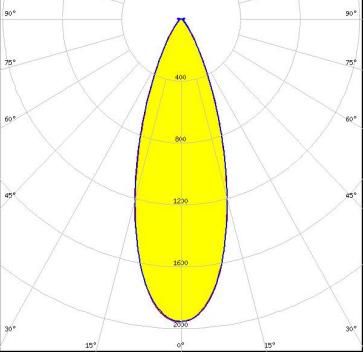
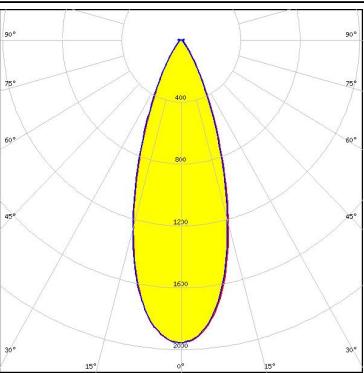
Required components:

C16142_HEKLA-SOCKET-K

Bender Wirth: 501 Typ L8



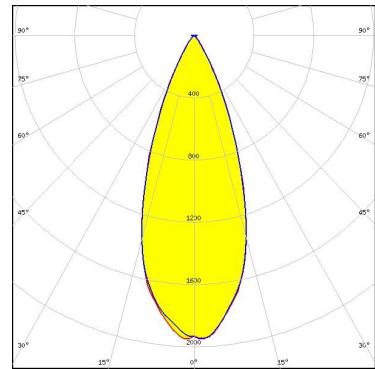
PHOTOMETRIC DATA (MEASURED):

 SEoul SEMICONDUCTOR <p>LED MJT COB LES 14.5 FWHM / FWTM 36.0° / 74.0° Efficiency 90 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I</p>		
 SEoul SEMICONDUCTOR <p>LED MJT COB LES 6 FWHM / FWTM 39.0° / 63.0° Efficiency 94 % Peak intensity 1.9 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C</p>		
 SEoul SEMICONDUCTOR <p>LED MJT COB LES 9.8 FWHM / FWTM 35.0° / 65.0° Efficiency 93 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C</p>		
<h3>TRIDONIC</h3> <p>LED SLE G7 LES09 FWHM / FWTM 36.0° / 64.0° Efficiency 92 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C</p>		

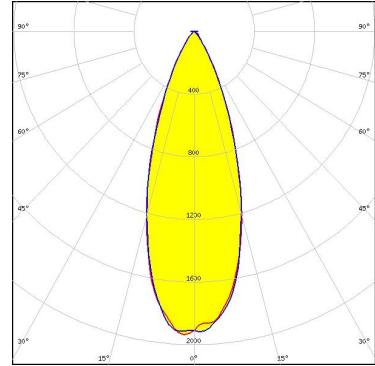
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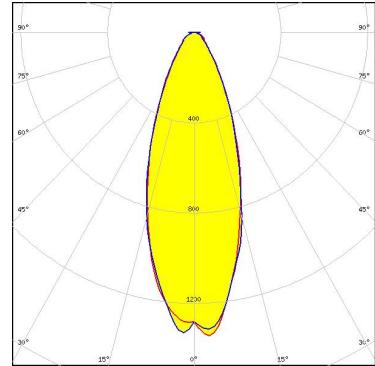
LED V4 HD
FWHM / FWTM 38.0° / 64.0°
Efficiency 91 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 F15253_HEKLA-SOCKET-A



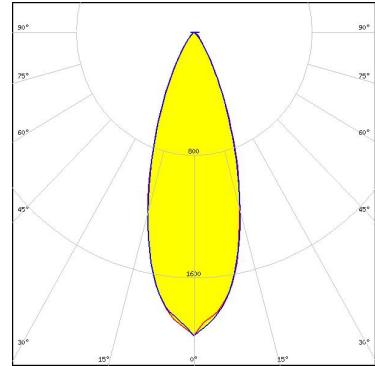
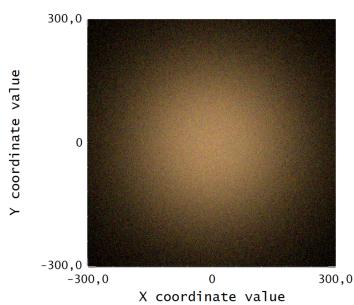
LED V9 HD
FWHM / FWTM 36.0° / 64.0°
Efficiency 89 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 F15859_HEKLA-SOCKET-I



LED Vero SE 13
FWHM / FWTM 37.0° / 78.0°
Efficiency 85 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C16142_HEKLA-SOCKET-K



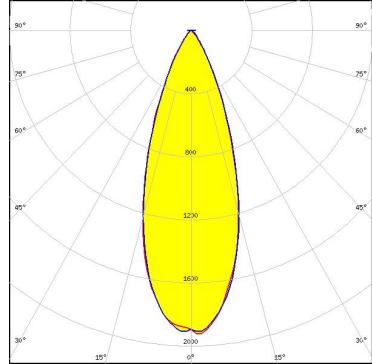
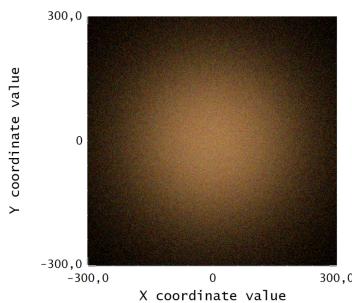
LED VERO10
FWHM / FWTM 36.0° / 64.0°
Efficiency 90 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 F15616_HEKLA-SOCKET-F



PHOTOMETRIC DATA (SIMULATED):

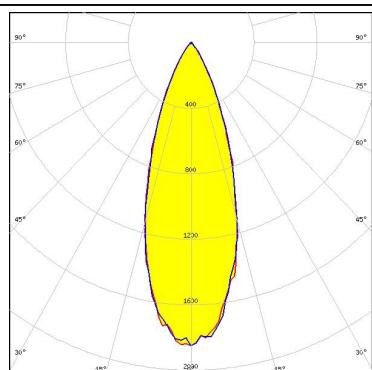


LED	Vesta DTW 9mm (4W/6W/12W)
FWHM / FWTM	36.0° / 64.0°
Efficiency	90 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	C16142_HEKLA-SOCKET-K
	Bender Wirth: 490 Typ L8



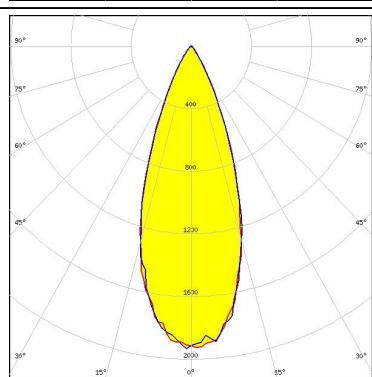
CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM / FWTM	35.0° / 64.0°
Efficiency	79 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F15255_HEKLA-SOCKET-C



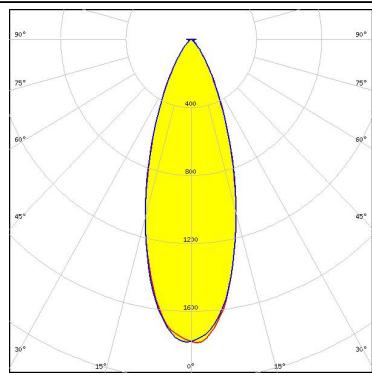
CITIZEN

LED	CLU700/701/702
FWHM / FWTM	38.0° / 63.0°
Efficiency	84 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F15255_HEKLA-SOCKET-C



CREE LED

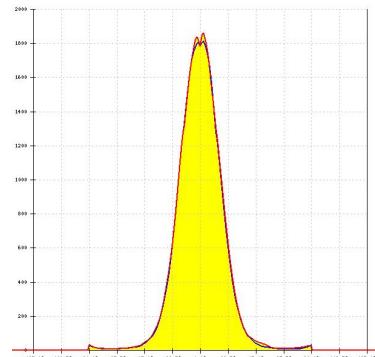
LED	CMA1825
FWHM / FWTM	35.0° / 68.0°
Efficiency	87 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F15254_HEKLA-SOCKET-B



PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

LED LUXEON CoB 1202/1203
 FWHM / FWTM 36.0° / 66.0°
 Efficiency 88 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F17437_HEKLA-G2-H

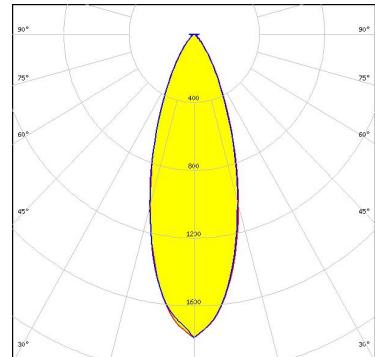


LUMILEDS

LED LUXEON CoB 1202s
 FWHM / FWTM 36.0° / 64.0°
 Efficiency 91 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

LUMILEDS

LED LUXEON CoB 1204/1205
 FWHM / FWTM 35.0° / 69.0°
 Efficiency 87 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LUMILEDS

LED LUXEON CoB 1208
 FWHM / FWTM 32.0° / 62.0°
 Efficiency 88 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

LED LUXEON CoB 1208
FWHM / FWTM 32.0° / 62.0°
Efficiency 88 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:

LUMILEDS

LED LUXEON CoB 1208
FWHM / FWTM 32.0° / 62.0°
Efficiency 88 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:

LUMILEDS

LED LUXEON CoB 1208
FWHM / FWTM 32.0° / 62.0°
Efficiency 88 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:

LUMILEDS

LED LUXEON CoB 1208
FWHM / FWTM 32.0° / 62.0°
Efficiency 88 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:

PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

LED	LUXEON CoB 1208
FWHM / FWTM	32.0° / 62.0°
Efficiency	88 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

LUMILEDS

LED	LUXEON CoB 1208
FWHM / FWTM	32.0° / 62.0°
Efficiency	88 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White

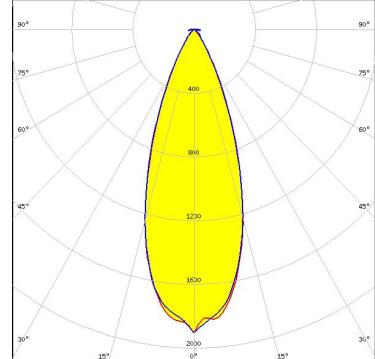
Required components:

NICHIA

LED	COB S-Type (LES 7)
FWHM / FWTM	36.0° / 64.0°
Efficiency	90 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

F15848_HEKLA-SOCKET-G

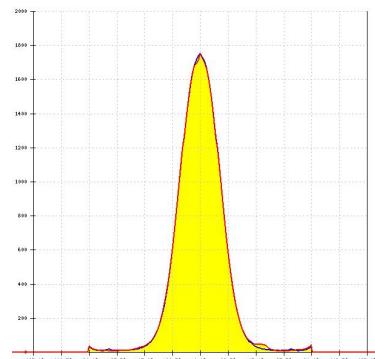


NICHIA

LED	NFSWE11A
FWHM / FWTM	36.0° / 65.0°
Efficiency	83 %
Peak intensity	1.8 cd/lm
LEDs/each optic	30
Light colour	White

Required components:

C16142_HEKLA-SOCKET-K



PHOTOMETRIC DATA (SIMULATED):

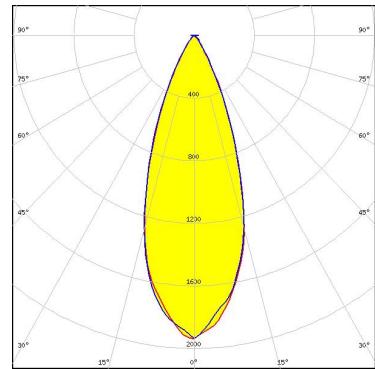
OSRAM

Opto Semiconductors

LED	Duris S8
FWHM / FWTM	38.0° / 64.0°
Efficiency	88 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

F15848_HEKLA-SOCKET-G

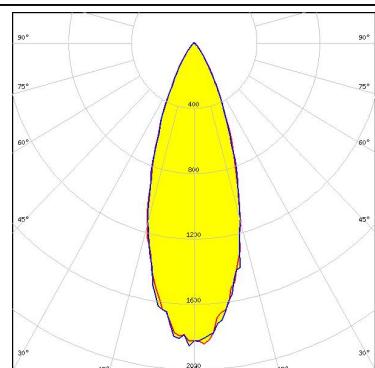


SAMSUNG

LED	LC003D / LC006D / LC009D / LC013D
FWHM / FWTM	35.0° / 64.0°
Efficiency	80 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

F15255_HEKLA-SOCKET-C

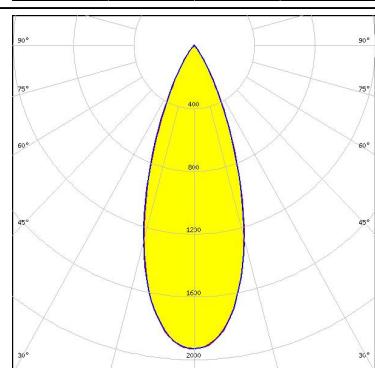


SAMSUNG

LED	LC010C
FWHM / FWTM	38.0° / 64.0°
Efficiency	87 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

F15848_HEKLA-SOCKET-G

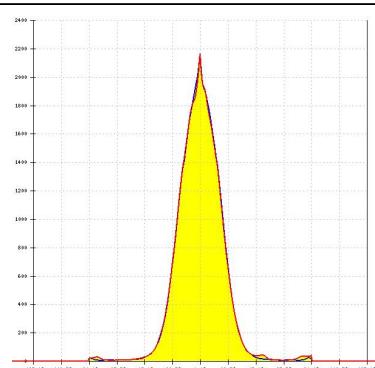


SAMSUNG

LED	LC020C
FWHM / FWTM	34.0° / 62.0°
Efficiency	90 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

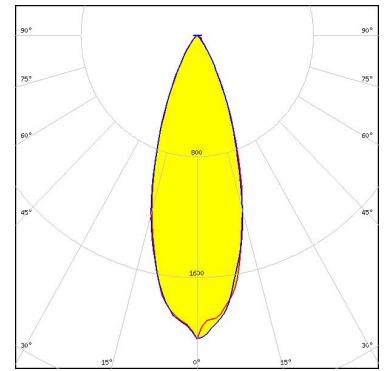
F17438_HEKLA-G2-I



PHOTOMETRIC DATA (SIMULATED):

XICATO

LED XTM - 9mm LES
FWHM / FWTM 35.0° / 64.0°
Efficiency 89 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C15743_XTM-ADAPTER-50-B



GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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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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