

ILONA-W

~35° wide beam

SPECIFICATION:

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

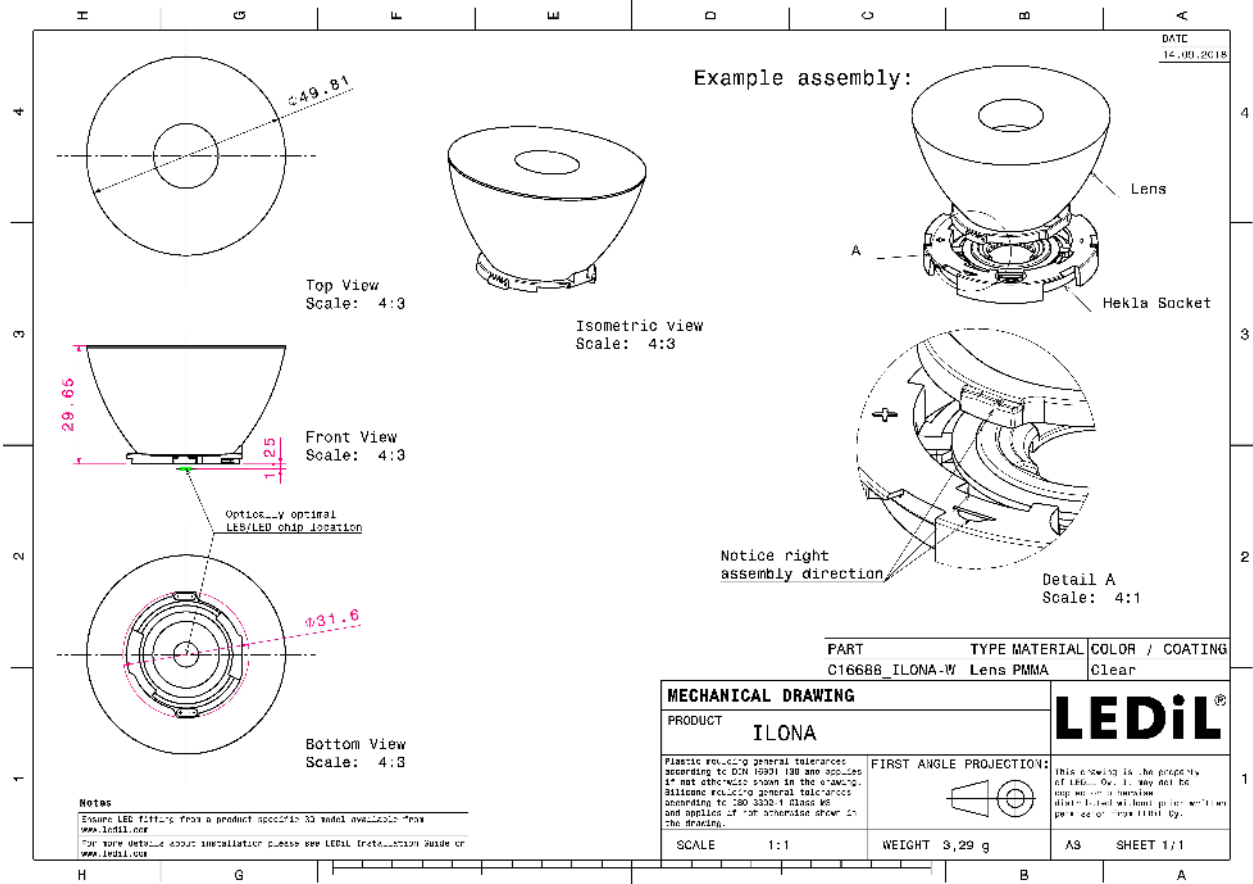
MATERIALS:

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

ORDERING INFORMATION:


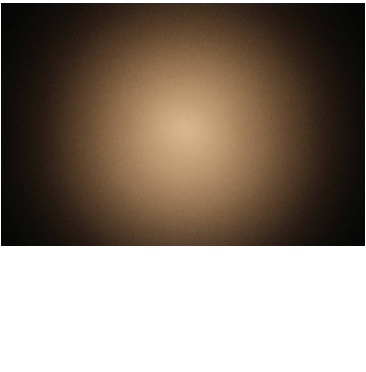
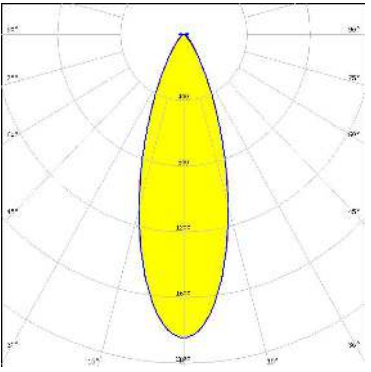

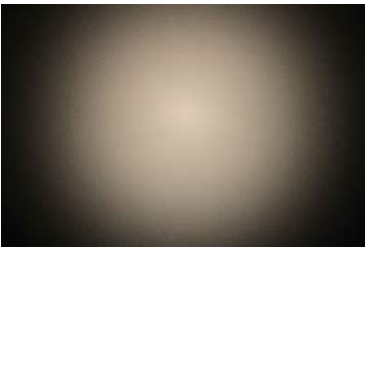
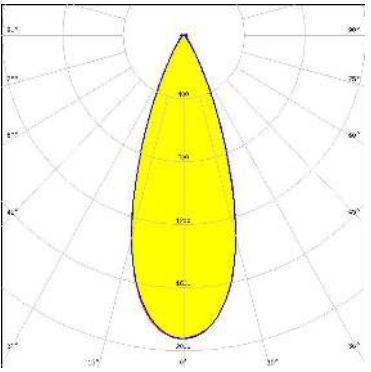

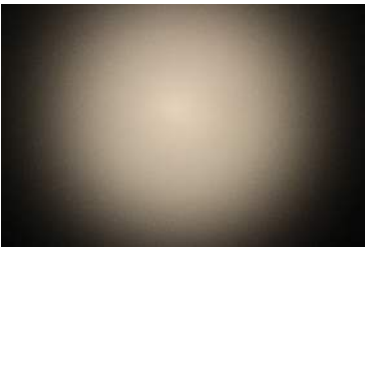
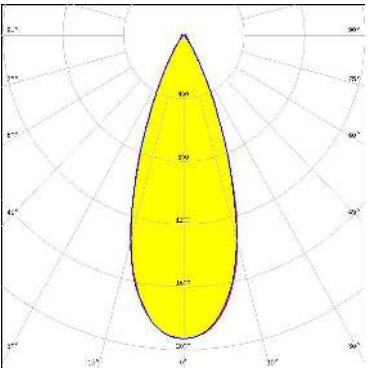


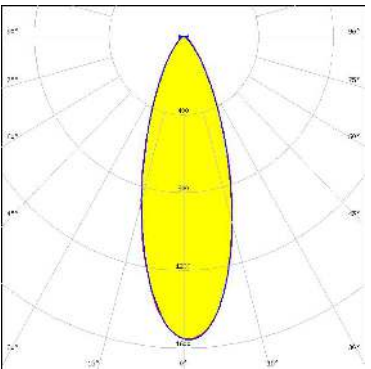
Component	Qty in box	MOQ	MPQ	Box weight (kg)
C16688_ILONA-W » Box size: 480 x 280 x 300 mm	264	99	33	10.1





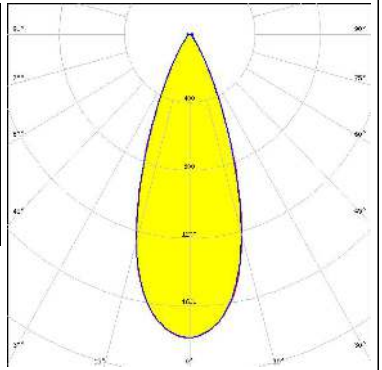
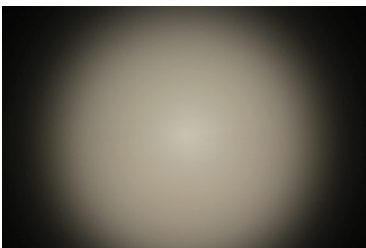
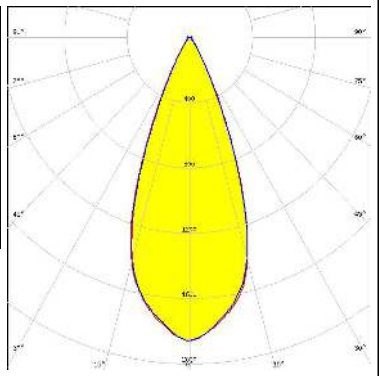


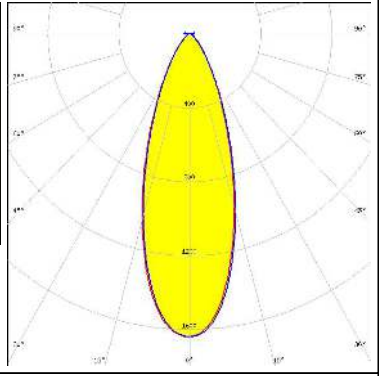

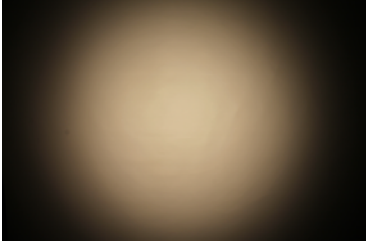
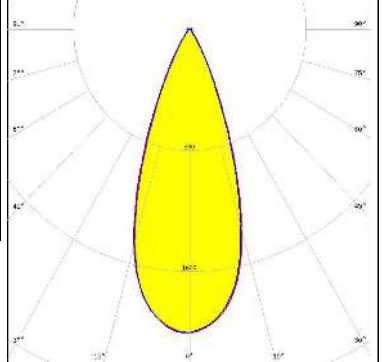


See also our general installation guide: www.ledil.com/installation_guide

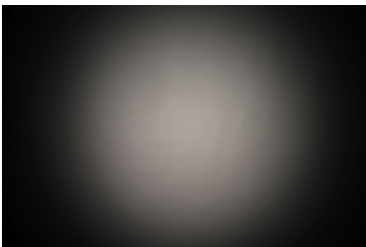
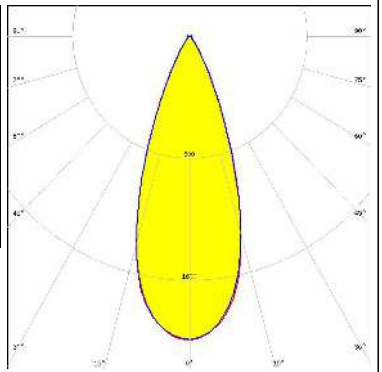

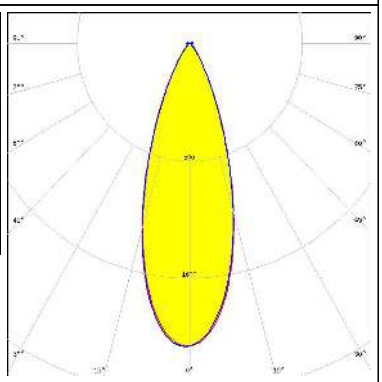
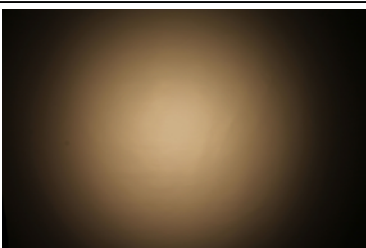
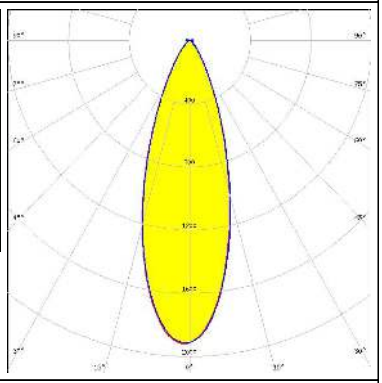
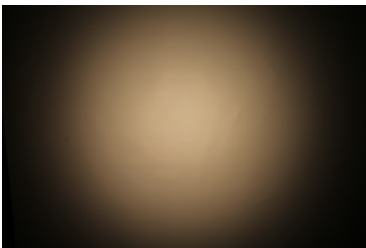
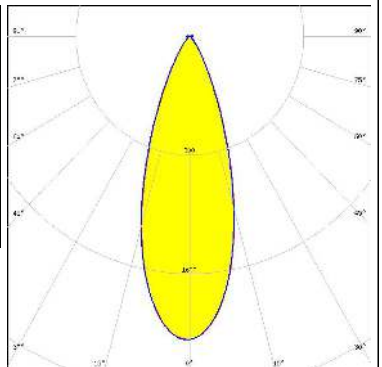
OPTICAL RESULTS (MEASURED):

<p></p> <p>LED V11 HD Gen 8 FWHM / FWTM 35.0° / 67.0° Efficiency 91 % Peak intensity 1.8 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 633d Hekla</p>		
<p></p> <p>LED V6 HD Gen 7 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</p>		
<p></p> <p>LED V6 HD Gen 7 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</p>		
<p></p> <p>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</p>		


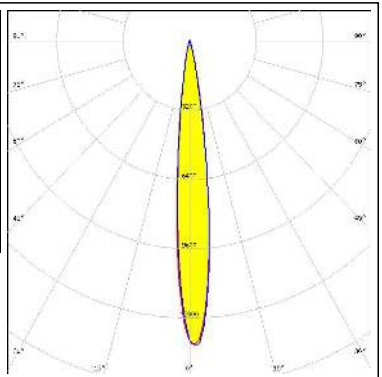
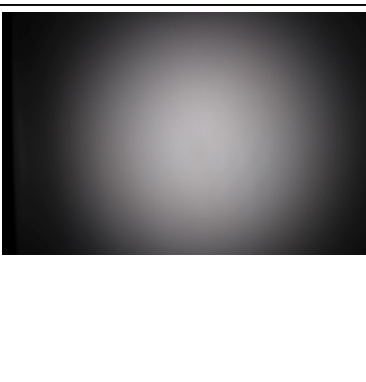
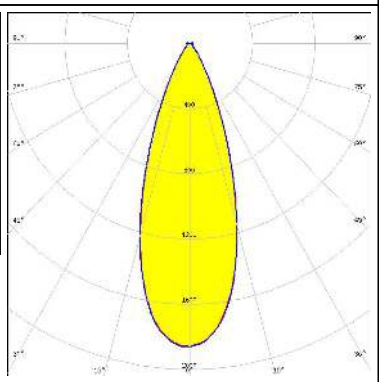

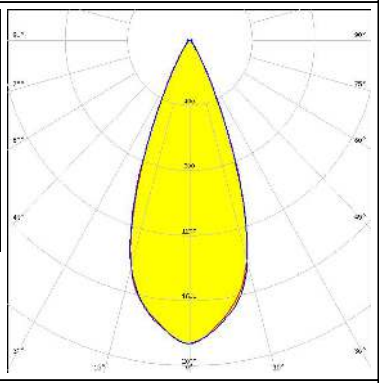

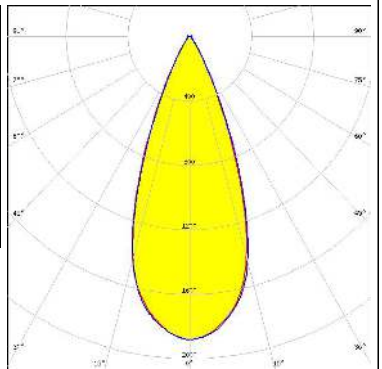
OPTICAL RESULTS (MEASURED):

<p></p> <p>LED Vesta TW 6mm DP FWHM / FWTM 39.0° / 63.0° Efficiency 88 % Peak intensity 1.8 cd/m LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 504 Typ L8</p>		
<p>CITIZEN</p> <p>LED CLU7B2 FWHM / FWTM 41.0° / 61.0° Efficiency 92 % Peak intensity 1.9 cd/m LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C</p>		
<p> LUMILEDS</p> <p>LED LUXEON CX Plus CoB L08 (Gen2) FWHM / FWTM 36.0° / 72.0° Efficiency 90 % Peak intensity 1.6 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 637a Hekla</p>		
<p> LUMILEDS</p> <p>LED LUXEON CX Plus CoB - HD S01H4 FWHM / FWTM 39.0° / 61.0° Efficiency 93 % Peak intensity 2 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 634c Hekla</p>		

OPTICAL RESULTS (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB - HD S01H6 / HD S02H6</p> <p>FWHM / FWTM 38.0° / 61.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 2 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 35.0° / 63.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 2.1 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 CX Plus CoB L04 / L05 (Gen2)</p> <p>FWHM / FWTM 34.0° / 66.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 1.9 cd/m</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 35.0° / 63.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 2 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 641a Hekla</p>		

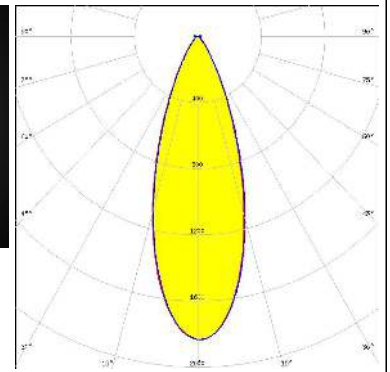
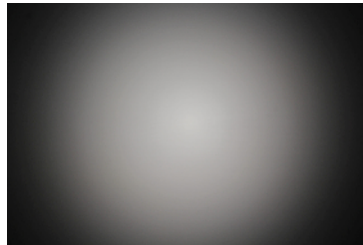
OPTICAL RESULTS (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB S01 (Gen2)</p> <p>FWHM / FWTM 12.0° / 23.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 14.3 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 Fusion 21-up (20x24)</p> <p>FWHM / FWTM 37.0° / 64.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 1.9 cd/lm</p> <p>LEDs/each optic 21</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 442 Typ L8</p>		
<p>LUMINUS</p> <p>LED CXM-3</p> <p>FWHM / FWTM 41.0° / 61.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 1.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>		
<p>LUMINUS</p> <p>LED CXM-4</p> <p>FWHM / FWTM 41.0° / 62.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 1.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>		

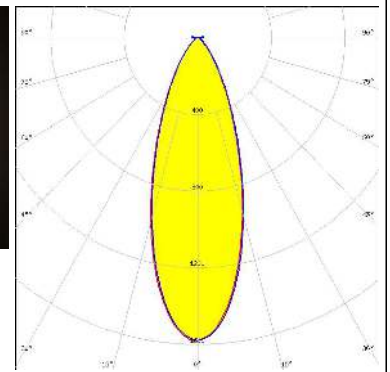
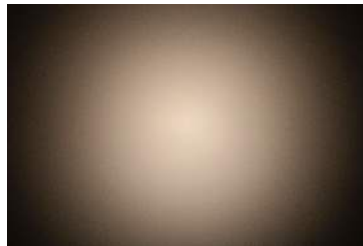
OPTICAL RESULTS (MEASURED):

SAMSUNG

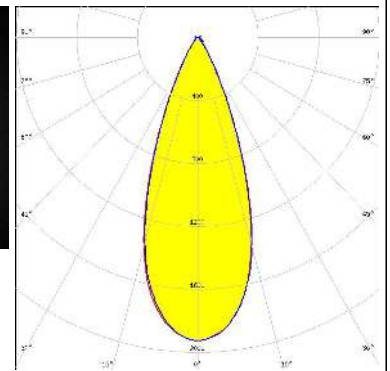
LED LC010T (Tunable White)
 FWHM / FWTM 35.0° / 65.0°
 Efficiency 90 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 501 Typ L8



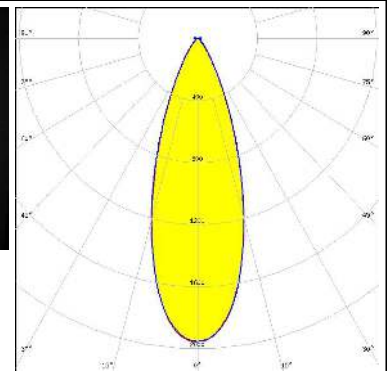
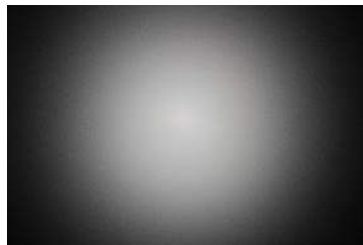
SEOUL SEMICONDUCTOR
 LED MJT COB LES 14.5
 FWHM / FWTM 36.0° / 74.0°
 Efficiency 90 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F17438_HEKLA-G2-I



SEOUL SEMICONDUCTOR
 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



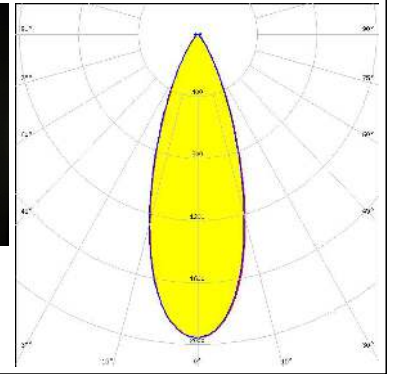
SEOUL SEMICONDUCTOR
 LED MJT COB LES 9.8
 FWHM / FWTM 35.0° / 65.0°
 Efficiency 93 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F17435_HEKLA-G2-C




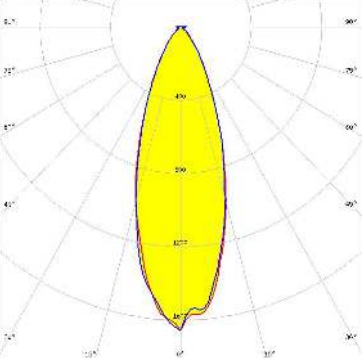

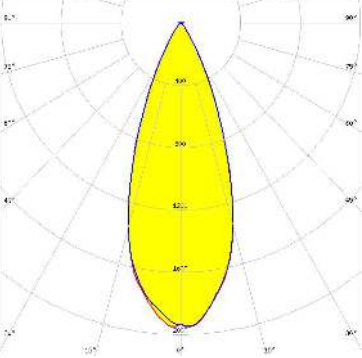

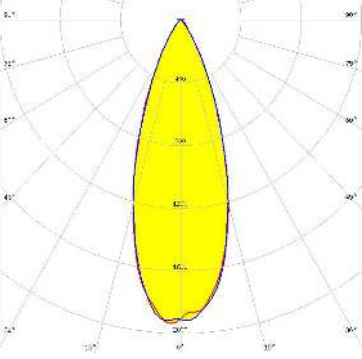

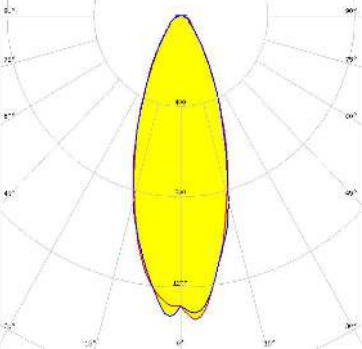
OPTICAL RESULTS (MEASURED):

TRIDONIC


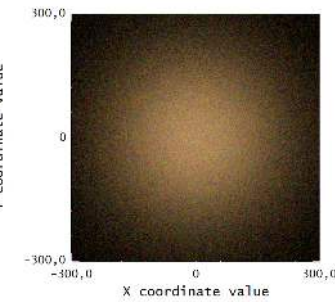
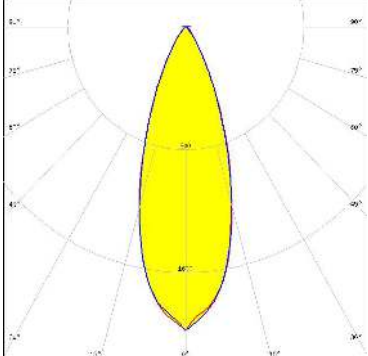

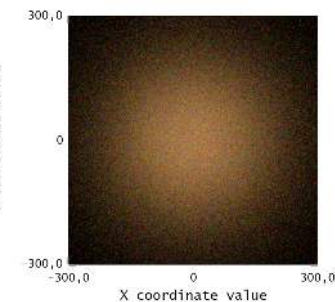
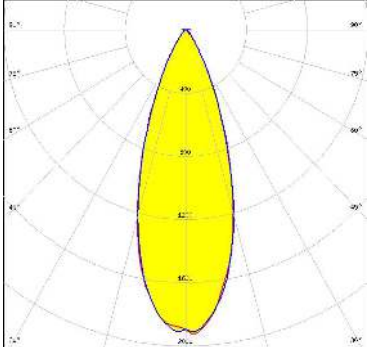

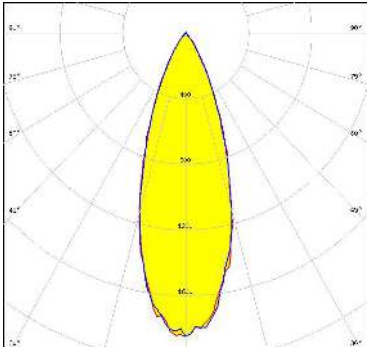

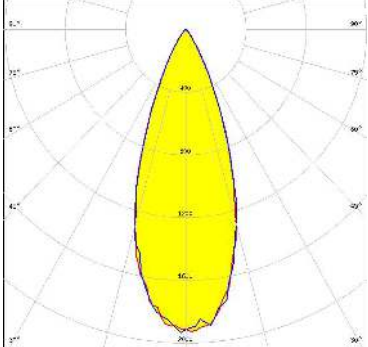
LED SLE G7 LES09
FWHM / FWTM 36.0° / 64.0°
Efficiency 92 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



OPTICAL RESULTS (SIMULATED):

<p></p> <p>LED V13 Gen 8</p> <p>FWHM / FWTM 36.0° / 72.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 1.7 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 V4 HD Gen 7</p> <p>FWHM / FWTM 38.0° / 64.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 2 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 36.0° / 64.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 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 Vero SE 13</p> <p>FWHM / FWTM 37.0° / 78.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 1.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K</p>	

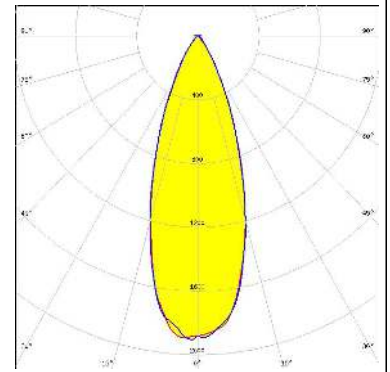
OPTICAL RESULTS (SIMULATED):

<p></p> <p>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</p>		
<p></p> <p>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</p>		
<p>CITIZEN</p> <p>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</p>		
<p>CITIZEN</p> <p>LED: CLU700/701/702/703 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</p>		

OPTICAL RESULTS (SIMULATED):

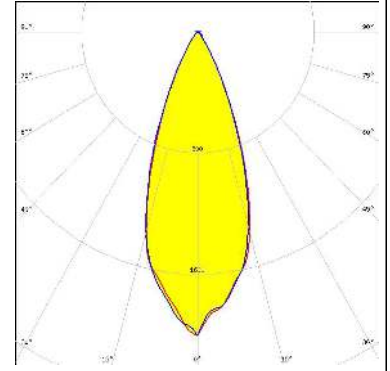
CITIZEN

LED CLU712/713
 FWHM / FWTM 36.0° / 66.0°
 Efficiency 90 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F17438_HEKLA-G2-I



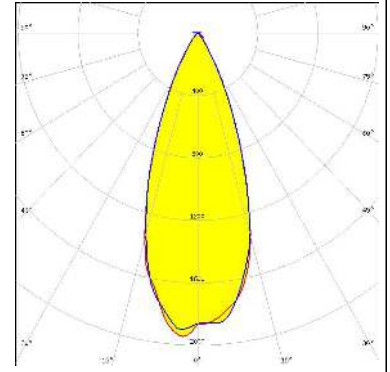
CREE LED

LED CHA0304
 FWHM / FWTM 38.0° / 62.0°
 Efficiency 91 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F17435_HEKLA-G2-C



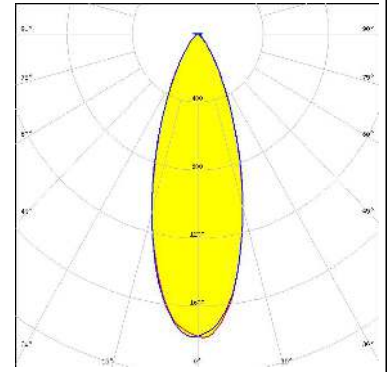
CREE LED

LED CHA0410
 FWHM / FWTM 38.0° / 63.0°
 Efficiency 91 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F17435_HEKLA-G2-C

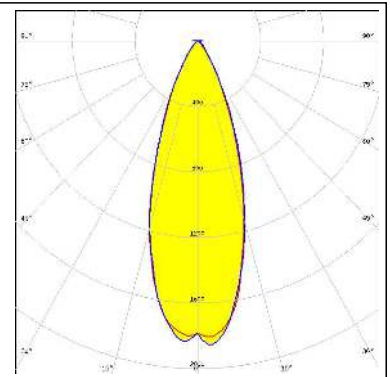
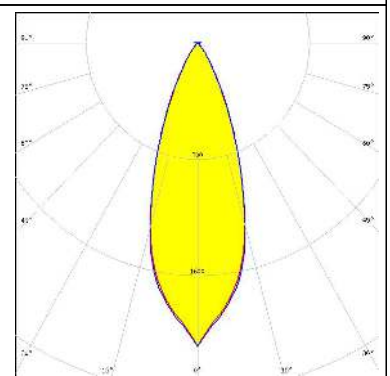
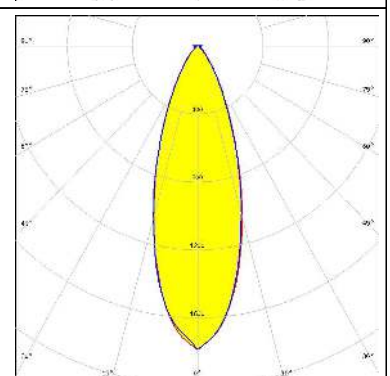
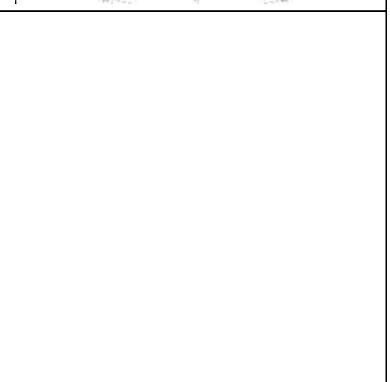


CREE LED

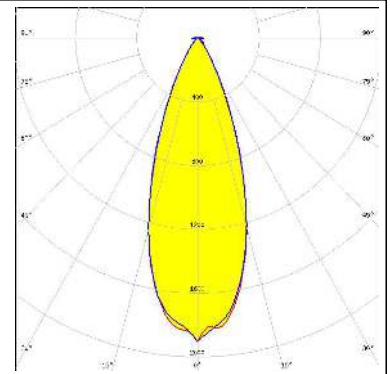
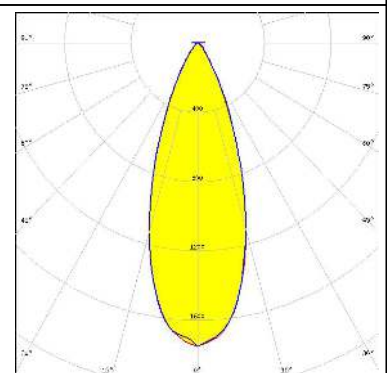
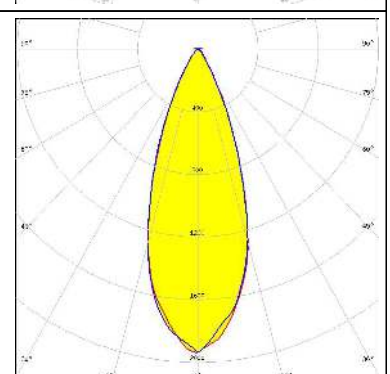
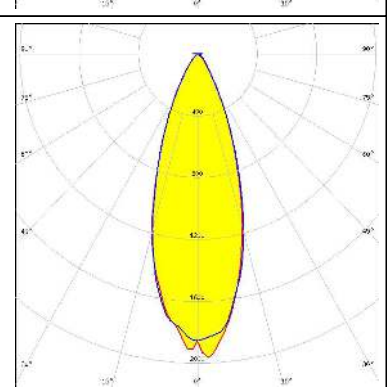
LED CMA1825
 FWHM / FWTM 35.0° / 68.0°
 Efficiency 87 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15254_HEKLA-SOCKET-B



OPTICAL RESULTS (SIMULATED):

<p>LUMILEDS</p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM / FWTM 36.0° / 66.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 1.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F17437_HEKLA-G2-H</p>	
<p>LUMILEDS</p> <p>LED LUXEON CoB 1202s</p> <p>FWHM / FWTM 36.0° / 64.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 2.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>LUMILEDS</p> <p>LED LUXEON CoB 1204/1205</p> <p>FWHM / FWTM 35.0° / 69.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 1.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>LUMILEDS</p> <p>LED LUXEON CoB 1208</p> <p>FWHM / FWTM 32.0° / 62.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 2.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

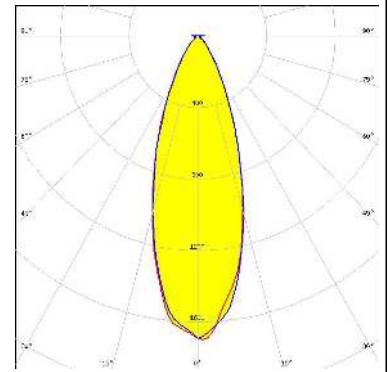
OPTICAL RESULTS (SIMULATED):

<p>NICHIA</p> <p>LED COB S-Type (LES 7)</p> <p>FWHM / FWTM 36.0° / 64.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 1.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15848_HEKLA-SOCKET-G</p>	
<p>NICHIA</p> <p>LED NFSWE11A</p> <p>FWHM / FWTM 36.0° / 65.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 1.8 cd/lm</p> <p>LEDs/each optic 30</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED Duris S8</p> <p>FWHM / FWTM 38.0° / 64.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15848_HEKLA-SOCKET-G</p>	
<p>PHILIPS</p> <p>LED Fortimo SLM L09 CoB</p> <p>FWHM / FWTM 35.0° / 66.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F17437_HEKLA-G2-H</p>	

OPTICAL RESULTS (SIMULATED):

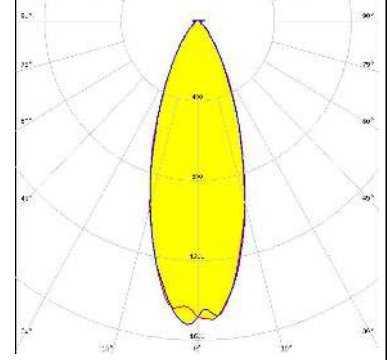
PHILIPS

LED Fortimo SLM L13 CoB
 FWHM / FWTM 35.0° / 70.0°
 Efficiency 86 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 632a Hekla XL



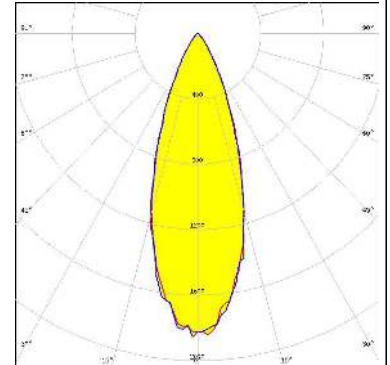
PHILIPS

LED Fortimo SLM L15 CoB
 FWHM / FWTM 37.0° / 74.0°
 Efficiency 85 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 632a Hekla XL



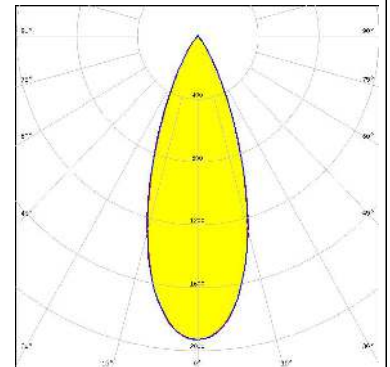
SAMSUNG

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

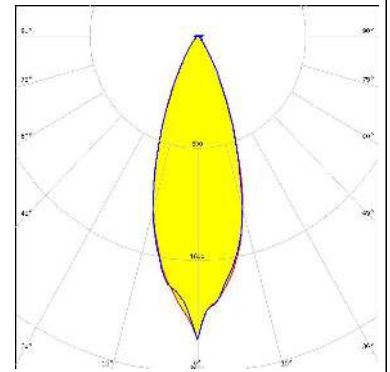
LED LC010C
 FWHM / FWTM 38.0° / 64.0°
 Efficiency 87 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15848_HEKLA-SOCKET-G



OPTICAL RESULTS (SIMULATED):

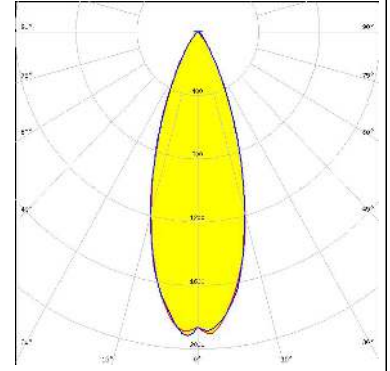
SAMSUNG

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



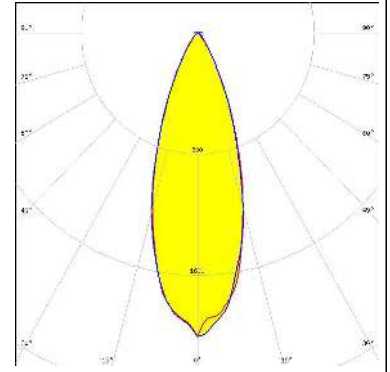
XICATO

LED XOB 9.8 mm
FWHM / FWTM 36.0° / 65.0°
Efficiency 88 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F17435_HEKLA-G2-C



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.

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)