

## ILONA-RS

~10° spot beam

### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 49.8 mm
Height	29.3 mm
Fastening	socket
ROHS compliant	yes ⓘ

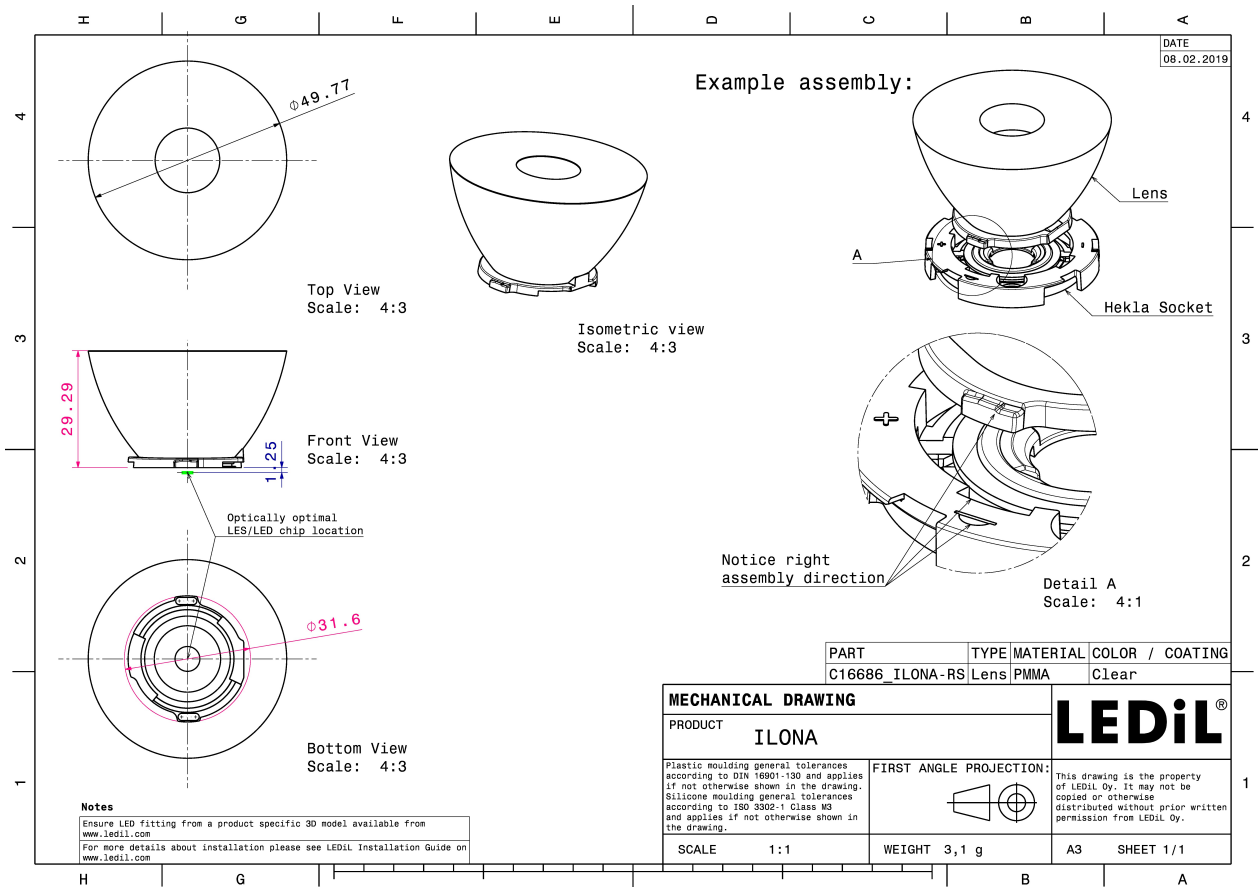
### MATERIAL SPECIFICATIONS:

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

### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C16686_ILONA-RS » Box size: 480 x 280 x 300 mm	264	99	33	9.6



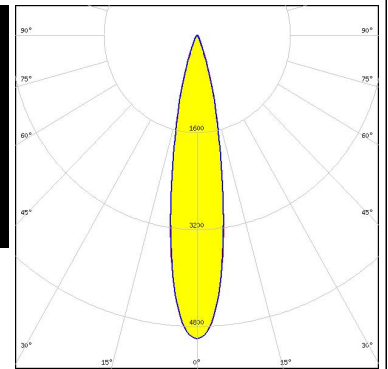


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

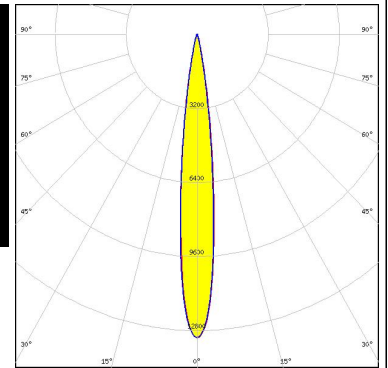
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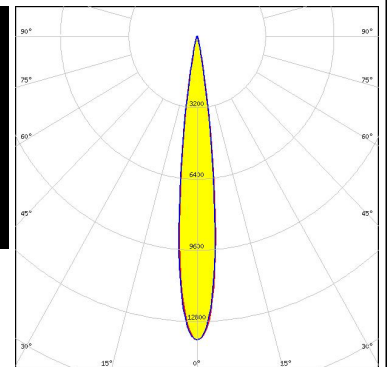
LED V11 HD Gen 8  
FWHM / FWTM 20.0° / 40.0°  
Efficiency 93 %  
Peak intensity 5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
Bender Wirth: 633d Hekla



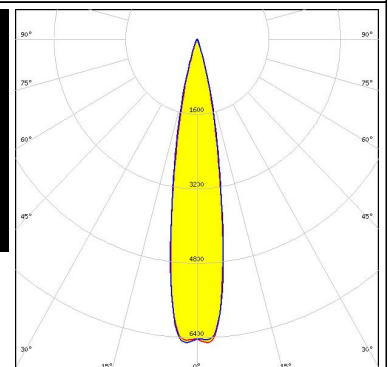
LED V6 HD Gen 7  
FWHM / FWTM 13.0° / 24.0°  
Efficiency 94 %  
Peak intensity 13.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
Bender Wirth: 634c Hekla



LED V6 HD Gen 7  
FWHM / FWTM 14.0° / 23.0°  
Efficiency 95 %  
Peak intensity 13.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



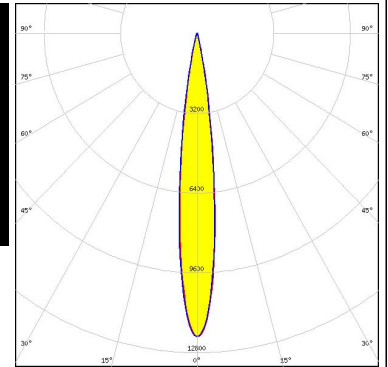
LED Vesta DTW 9mm (4W/6W/12W)  
FWHM / FWTM 19.0° / 34.0°  
Efficiency 93 %  
Peak intensity 6.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C16142\_HEKLA-SOCKET-K  
Bender Wirth: 490 Typ L8



### PHOTOMETRIC DATA (MEASURED):

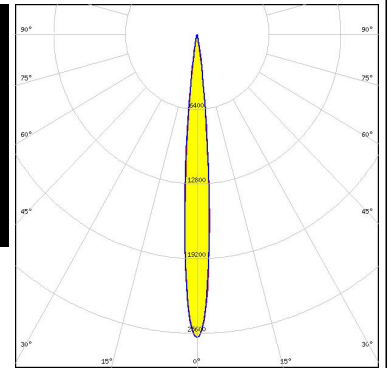
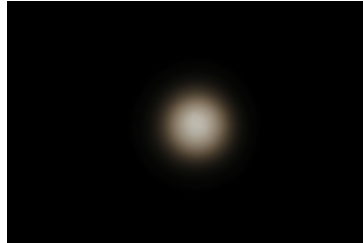


LED Vesta TW 6mm DP  
FWHM / FWTM 14.0° / 25.0°  
Efficiency 91 %  
Peak intensity 12.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C16142\_HEKLA-SOCKET-K  
Bender Wirth: 504 Typ L8



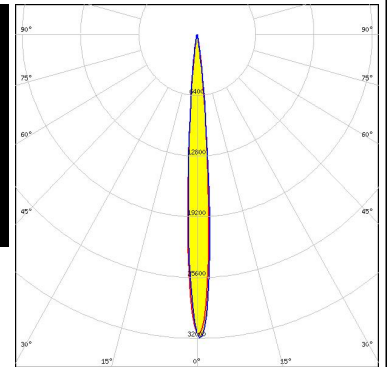
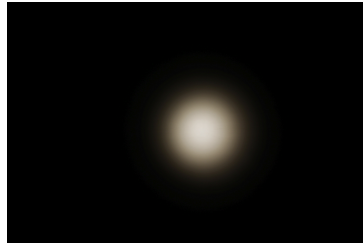
### CITIZEN

LED CLU7A2 (LES 4.2mm)  
FWHM / FWTM 9.0° / 17.0°  
Efficiency 94 %  
Peak intensity 26 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C

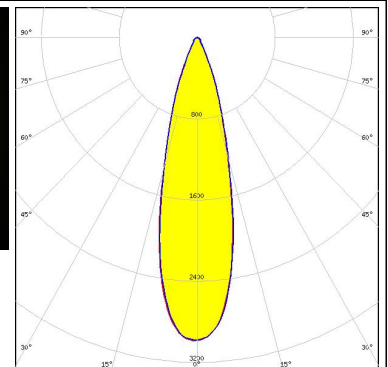
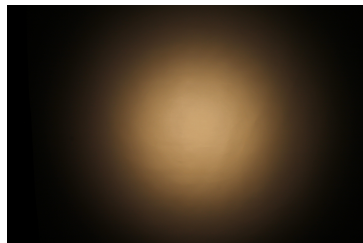


### CITIZEN

LED CLU7B2  
FWHM / FWTM 8.0° / 16.0°  
Efficiency 94 %  
Peak intensity 32.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



LED LUXEON CX Plus CoB L08 (Gen2)  
FWHM / FWTM 28.0° / 52.0°  
Efficiency 93 %  
Peak intensity 3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
Bender Wirth: 637a Hekla

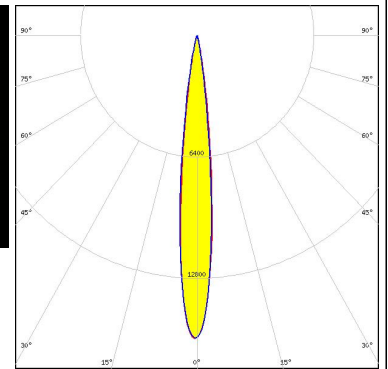




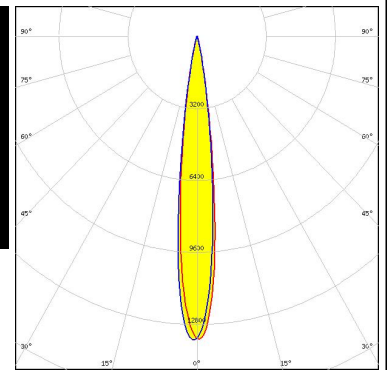
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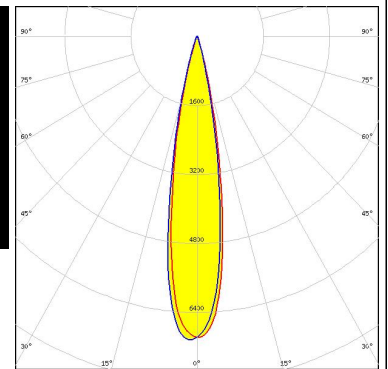
LED LUXEON CX Plus CoB - HD S01H4  
 FWHM / FWTM 12.0° / 22.0°  
 Efficiency 94 %  
 Peak intensity 16 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 634c Hekla



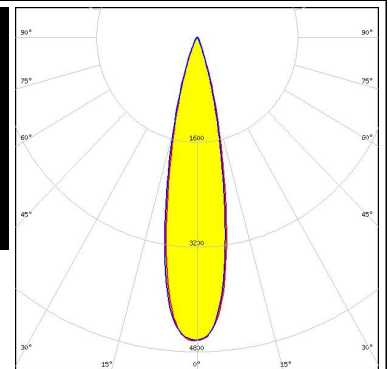
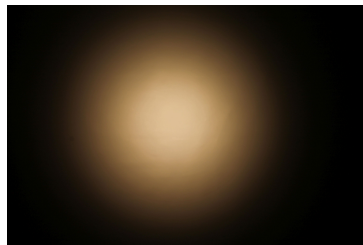
LED LUXEON CX Plus CoB - HD S01H6 / HD S02H6  
 FWHM / FWTM 13.0° / 24.0°  
 Efficiency 94 %  
 Peak intensity 13.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 634c Hekla



LED LUXEON CX Plus CoB - HD S04H9  
 FWHM / FWTM 19.0° / 33.0°  
 Efficiency 94 %  
 Peak intensity 7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 634c Hekla



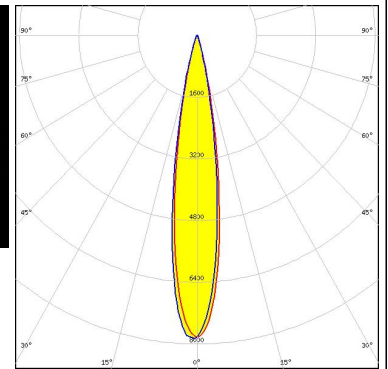
LED LUXEON CX Plus CoB L04 / L05 (Gen2)  
 FWHM / FWTM 23.0° / 41.0°  
 Efficiency 93 %  
 Peak intensity 4.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 637a Hekla



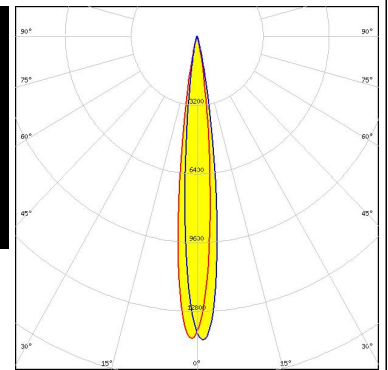
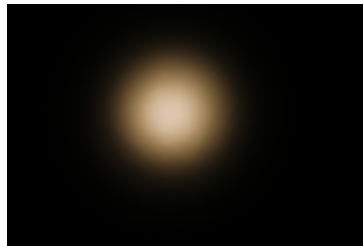
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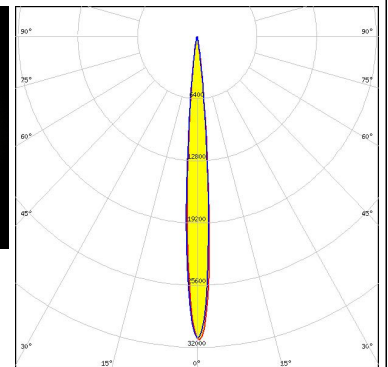
LED LUXEON CX Plus CoB M02 / M03 (Gen2)  
 FWHM / FWTM 17.0° / 32.0°  
 Efficiency 93 %  
 Peak intensity 7.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 641a Hekla



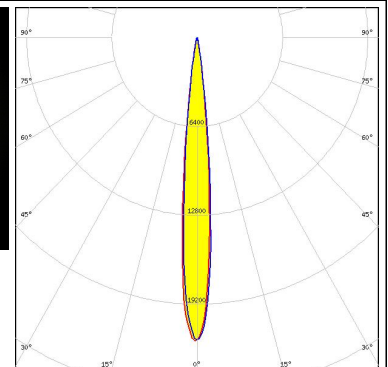
LED LUXEON CX Plus CoB S01 (Gen2)  
 FWHM / FWTM 12.0° / 23.0°  
 Efficiency 93 %  
 Peak intensity 14.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 634c Hekla



LED CXM-3  
 FWHM / FWTM 9.0° / 16.0°  
 Efficiency 94 %  
 Peak intensity 31.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



LED CXM-4  
 FWHM / FWTM 10.0° / 19.0°  
 Efficiency 94 %  
 Peak intensity 21.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C

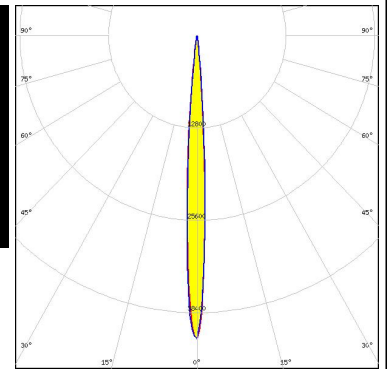
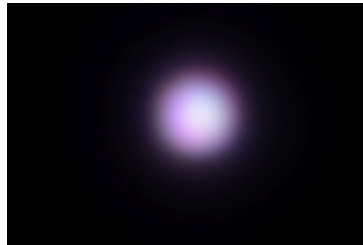


### PHOTOMETRIC DATA (MEASURED):

#### OSRAM

Opto Semiconductors

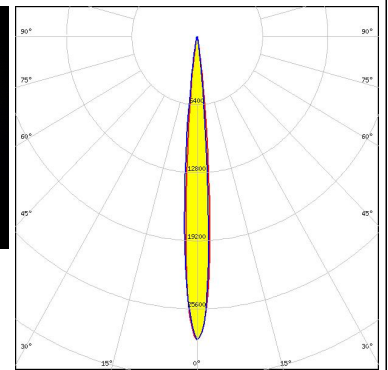
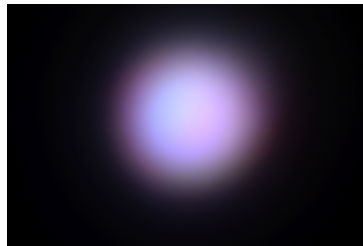
LED OSTAR Stage (S2WN)  
FWHM / FWTM 7.0° / 13.0°  
Efficiency 94 %  
Peak intensity 42.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15859\_HEKLA-SOCKET-I



#### OSRAM

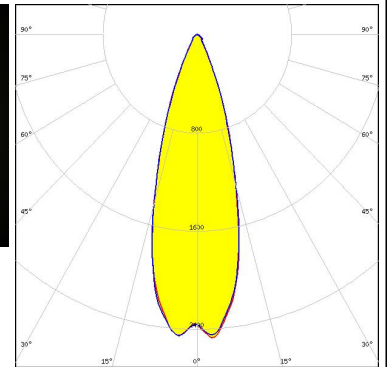
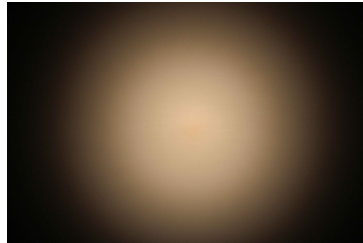
Opto Semiconductors

LED OSTAR Stage (S2WP)  
FWHM / FWTM 9.0° / 16.0°  
Efficiency 94 %  
Peak intensity 29.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15859\_HEKLA-SOCKET-I



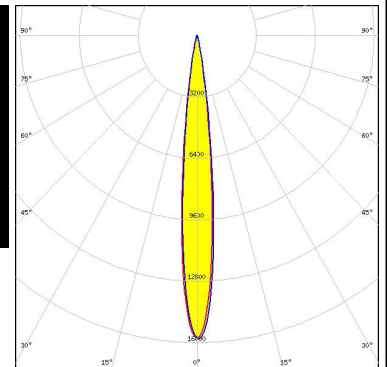
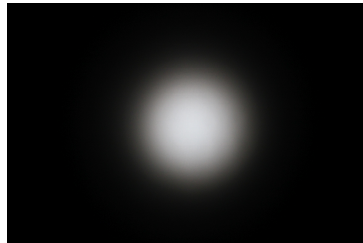
SEOUL SEMICONDUCTOR

LED MJT COB LES 14.5  
FWHM / FWTM 31.0° / 55.0°  
Efficiency 94 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F17438\_HEKLA-G2-I



SEOUL SEMICONDUCTOR

LED MJT COB LES 6  
FWHM / FWTM 12.0° / 22.0°  
Efficiency 95 %  
Peak intensity 15.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F17435\_HEKLA-G2-C



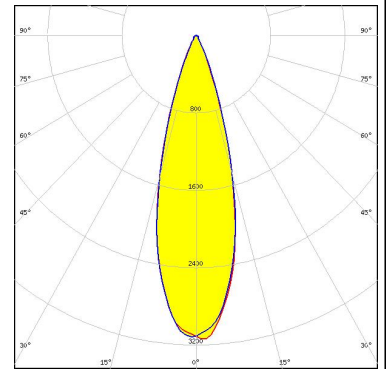
### PHOTOMETRIC DATA (MEASURED):

<p><b>SEMI</b> SEOUL SEMICONDUCTOR</p> <p>LED MJT COB LES 9.8</p> <p>FWHM / FWTM 20.0° / 34.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 6.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F17435_HEKLA-G2-C</p>		
<p><b>TRIDONIC</b></p> <p>LED SLE G7 LES09</p> <p>FWHM / FWTM 20.0° / 32.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 7.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>		
<p><b>XICATO</b></p> <p>LED XOB 6 mm</p> <p>FWHM / FWTM 14.0° / 23.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 13.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>		
<p><b>XICATO</b></p> <p>LED XOB 9.8 mm</p> <p>FWHM / FWTM 19.0° / 32.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 7.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>		

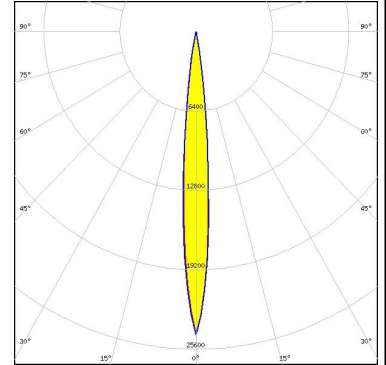
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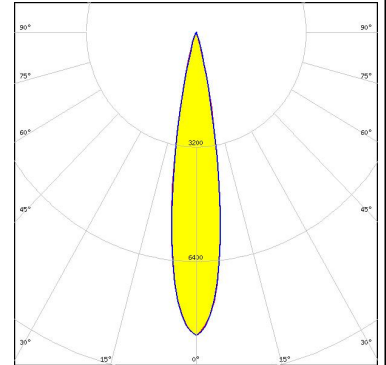
LED V13 Gen 8  
FWHM / FWTM 30.0° / 50.0°  
Efficiency 93 %  
Peak intensity 3.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15859\_HEKLA-SOCKET-I



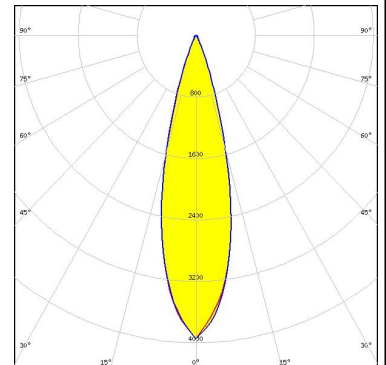
LED V4 HD Gen 7  
FWHM / FWTM 10.0° / 20.0°  
Efficiency 95 %  
Peak intensity 24.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15253\_HEKLA-SOCKET-A



LED V9 HD Gen7  
FWHM / FWTM 18.0° / 30.0°  
Efficiency 94 %  
Peak intensity 8.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15859\_HEKLA-SOCKET-I



LED Vero SE 10  
FWHM / FWTM 16.0° / 34.0°  
Efficiency 94 %  
Peak intensity 7.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

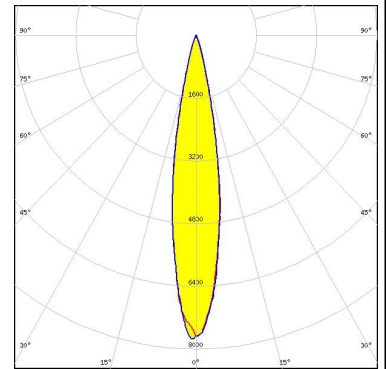




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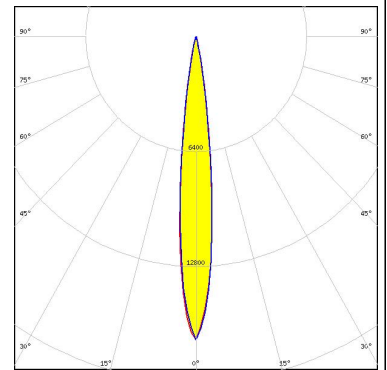
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
FWHM / FWTM 18.0° / 33.0°  
Efficiency 92 %  
Peak intensity 7.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



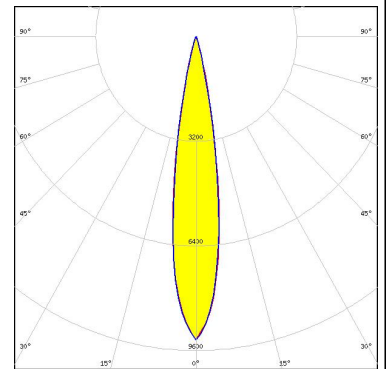
#### CITIZEN

LED CLU700/701/702  
FWHM / FWTM 12.0° / 23.0°  
Efficiency 94 %  
Peak intensity 16.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



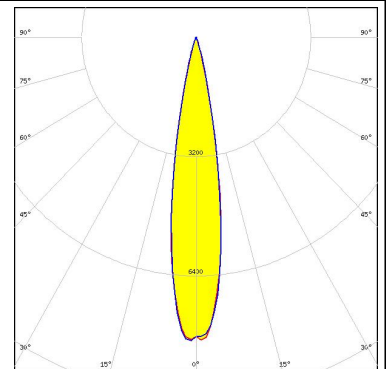
#### CITIZEN

LED CLU710/711  
FWHM / FWTM 17.0° / 30.0°  
Efficiency 92 %  
Peak intensity 9.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15859\_HEKLA-SOCKET-I



#### CITIZEN

LED CLU712  
FWHM / FWTM 18.0° / 31.0°  
Efficiency 94 %  
Peak intensity 8.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F17438\_HEKLA-G2-I

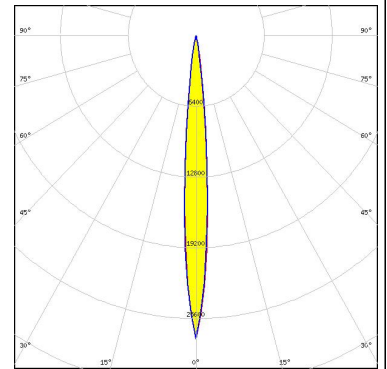




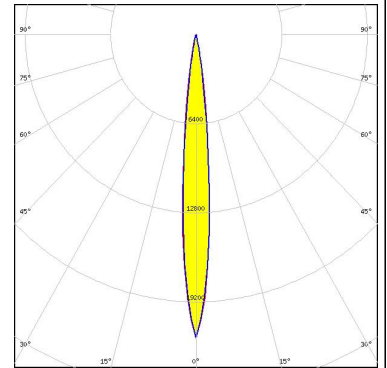
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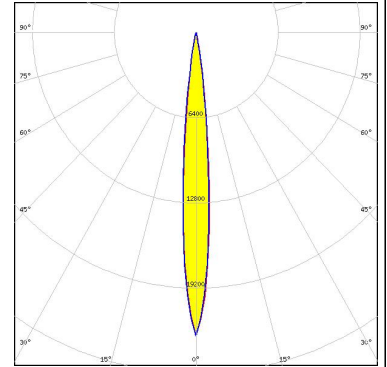
LED CHA0304  
FWHM / FWTM 9.0° / 18.0°  
Efficiency 95 %  
Peak intensity 27.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F17435\_HEKLA-G2-C



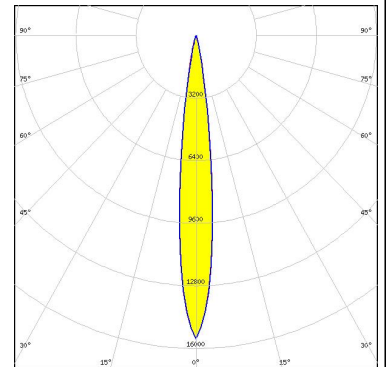
LED CHA0410  
FWHM / FWTM 10.0° / 20.0°  
Efficiency 95 %  
Peak intensity 21.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F17435\_HEKLA-G2-C



LED CMA1303  
FWHM / FWTM 10.0° / 20.0°  
Efficiency 95 %  
Peak intensity 22.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F17439\_HEKLA-G2-J



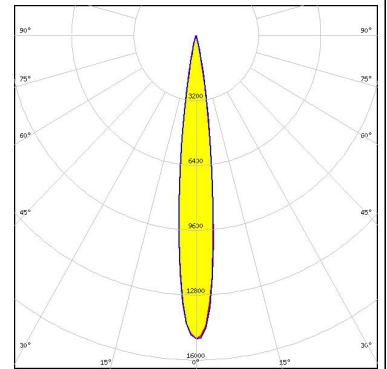
LED CMA1306  
FWHM / FWTM 12.0° / 24.0°  
Efficiency 95 %  
Peak intensity 15.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15956\_HEKLA-SOCKET-J



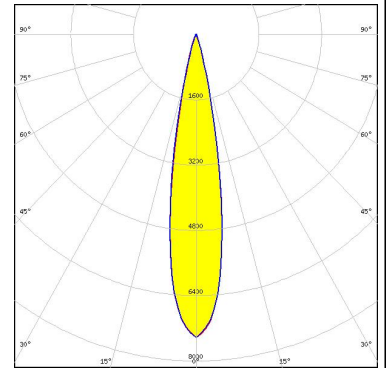
### PHOTOMETRIC DATA (SIMULATED):



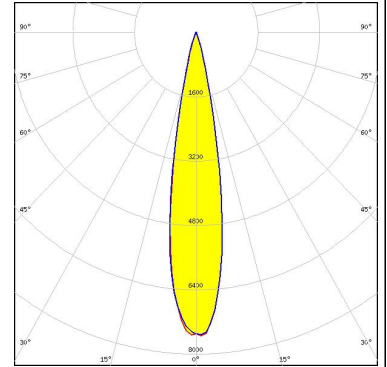
LED CXA/B 13xx  
FWHM / FWTM 13.0° / 24.0°  
Efficiency 93 %  
Peak intensity 15 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15956\_HEKLA-SOCKET-J



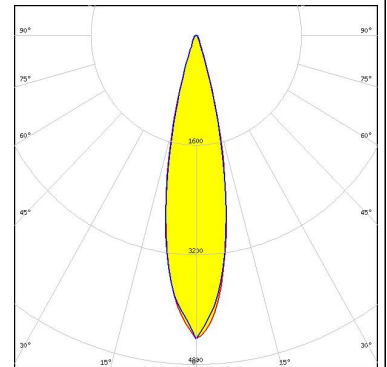
LED CXA/B 15xx  
FWHM / FWTM 20.0° / 32.0°  
Efficiency 92 %  
Peak intensity 7.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F17436\_HEKLA-G2-D



LED CXA/B 15xx  
FWHM / FWTM 19.0° / 32.0°  
Efficiency 93 %  
Peak intensity 7.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15256\_HEKLA-SOCKET-D



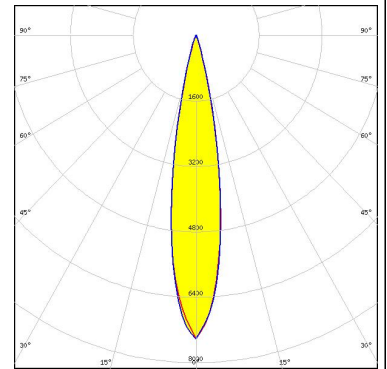
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
FWHM / FWTM 23.0° / 40.0°  
Efficiency 93 %  
Peak intensity 4.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15254\_HEKLA-SOCKET-B



### PHOTOMETRIC DATA (SIMULATED):

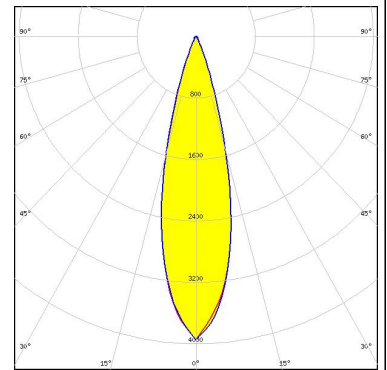
#### LUMILEDS

LED LUXEON CoB 1202/1203  
FWHM / FWTM 18.0° / 33.0°  
Efficiency 93 %  
Peak intensity 7.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F17437\_HEKLA-G2-H



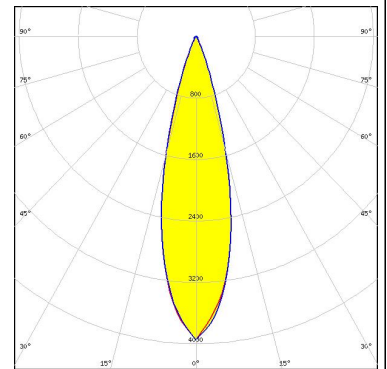
#### LUMILEDS

LED LUXEON CoB 1202s  
FWHM / FWTM 12.0° / 24.0°  
Efficiency 95 %  
Peak intensity 15.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15858\_HEKLA-SOCKET-H



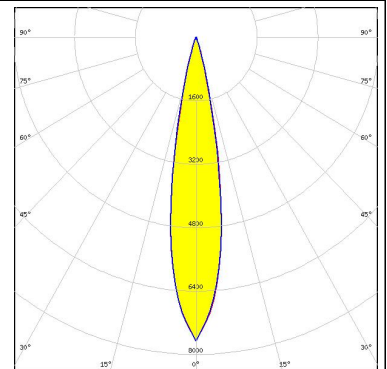
#### LUMILEDS

LED LUXEON CoB 1204/1205  
FWHM / FWTM 26.0° / 44.0°  
Efficiency 94 %  
Peak intensity 3.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### LUMILEDS

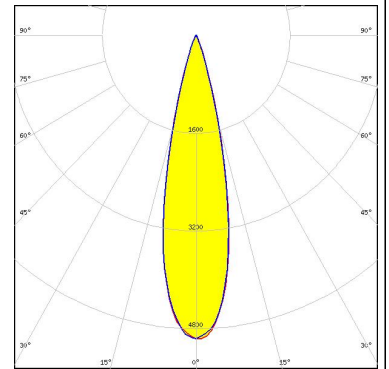
LED LUXEON CoB 1204HD  
FWHM / FWTM 20.0° / 32.0°  
Efficiency 94 %  
Peak intensity 7.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F17437\_HEKLA-G2-H



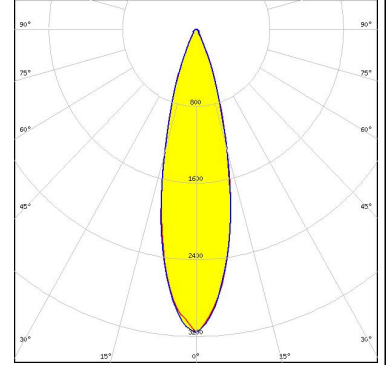
#### PHOTOMETRIC DATA (SIMULATED):



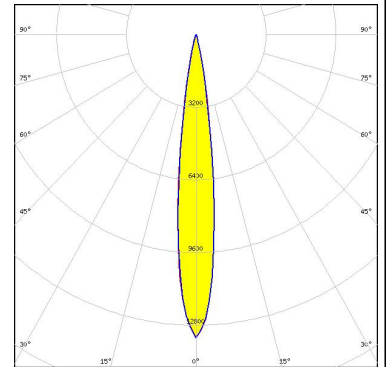
LED LUXEON CoB 1205HD  
 FWHM / FWTM 24.0° / 39.0°  
 Efficiency 94 %  
 Peak intensity 5 cd/Im  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17437\_HEKLA-G2-H



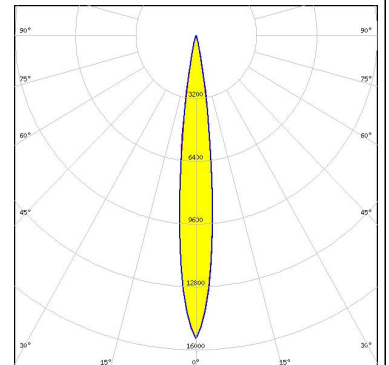
LED LUXEON CoB 1208  
 FWHM / FWTM 27.0° / 50.0°  
 Efficiency 91 %  
 Peak intensity 3.2 cd/Im  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K



LED CxM-6 (13.5x13.5)  
 FWHM / FWTM 14.0° / 25.0°  
 Efficiency 94 %  
 Peak intensity 13.4 cd/Im  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



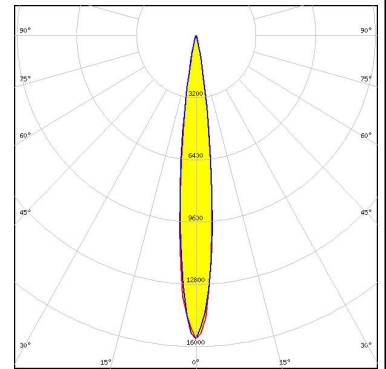
LED COB S-Type (LES 6)  
 FWHM / FWTM 12.0° / 24.0°  
 Efficiency 93 %  
 Peak intensity 15.4 cd/Im  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15848\_HEKLA-SOCKET-G



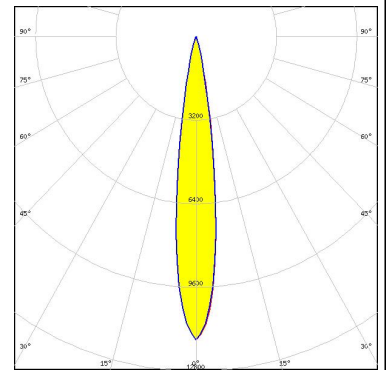
### PHOTOMETRIC DATA (SIMULATED):



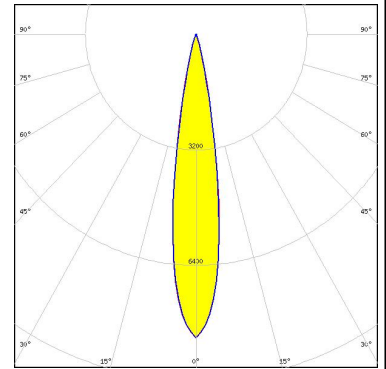
LED COB S-Type (LES 6)  
FWHM / FWTM 12.0° / 24.0°  
Efficiency 93 %  
Peak intensity 15.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15848\_HEKLA-SOCKET-G



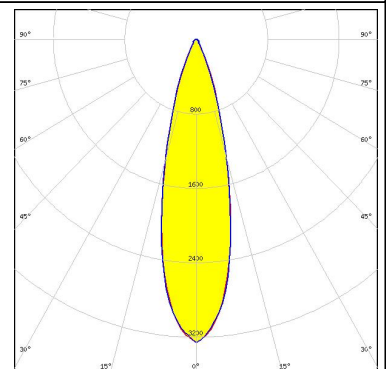
LED COB S-Type (LES 7)  
FWHM / FWTM 16.0° / 26.0°  
Efficiency 95 %  
Peak intensity 11.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15848\_HEKLA-SOCKET-G



LED NFSWE11A  
FWHM / FWTM 18.0° / 30.0°  
Efficiency 88 %  
Peak intensity 8.4 cd/lm  
LEDs/each optic 30  
Light colour White  
Required components:  
C16142\_HEKLA-SOCKET-K



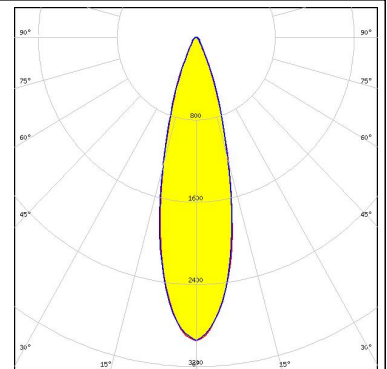
LED Fortimo SLM L15 CoB  
FWHM / FWTM 26.0° / 50.0°  
Efficiency 93 %  
Peak intensity 3.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
Bender Wirth: 632a Hekla XL



### PHOTOMETRIC DATA (SIMULATED):

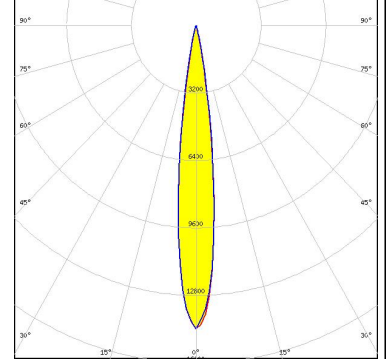
#### PHILIPS

LED Fortimo SLM L15 CoB  
FWHM / FWTM 28.0° / 52.0°  
Efficiency 92 %  
Peak intensity 3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
Bender Wirth: 632a Hekla XL



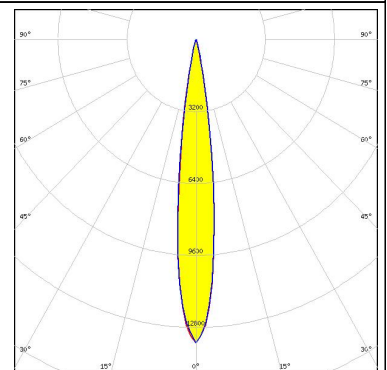
#### SAMSUNG

LED LC010C  
FWHM / FWTM 14.0° / 24.0°  
Efficiency 94 %  
Peak intensity 14.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15848\_HEKLA-SOCKET-G



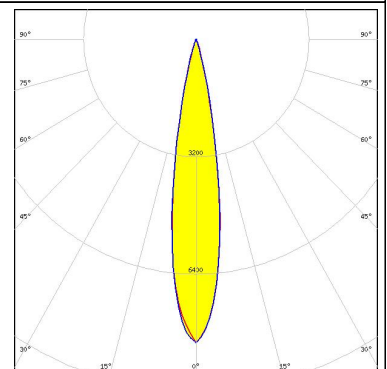
#### SAMSUNG

LED LC020C  
FWHM / FWTM 14.0° / 24.0°  
Efficiency 94 %  
Peak intensity 13.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F17438\_HEKLA-G2-I



#### XICATO

LED XTM - 9mm LES  
FWHM / FWTM 18.0° / 32.0°  
Efficiency 94 %  
Peak intensity 8.3 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.

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