

ILONA-SS

~14° smooth spot beam

SPECIFICATION:

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

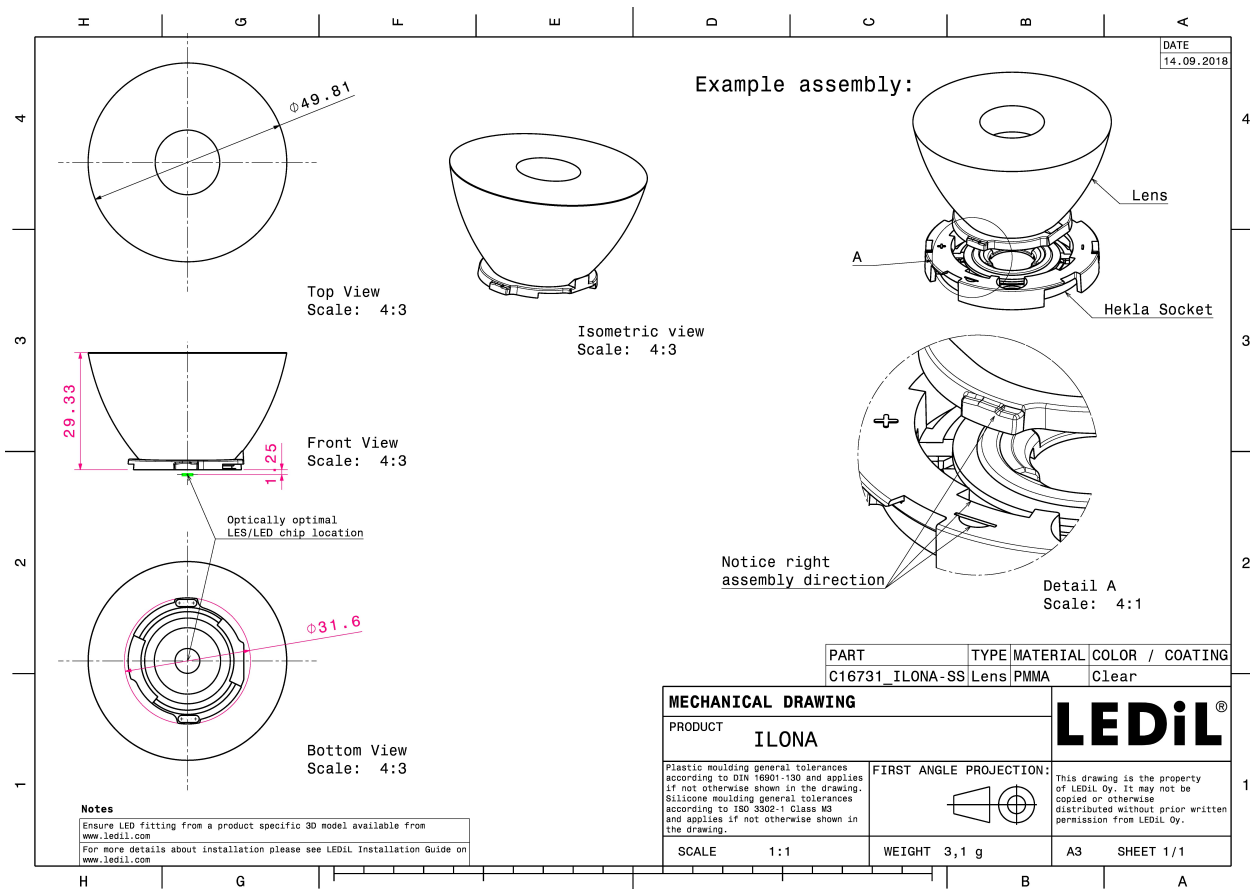
MATERIALS:

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

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C16731_ILONA-SS » Box size: 480 x 280 x 300 mm	264	99	33	9.7



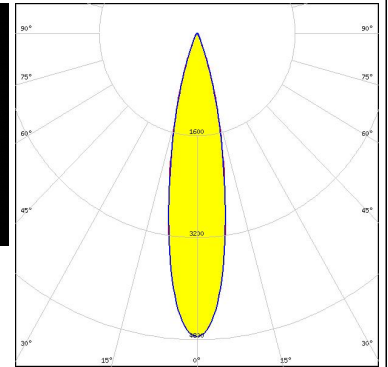


See also our general installation guide: www.ledil.com/installation_guide

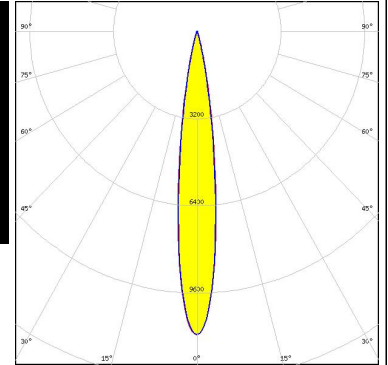
OPTICAL RESULTS (MEASURED):



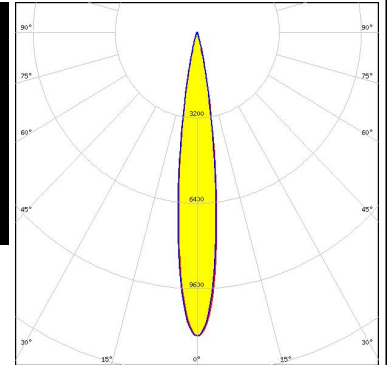
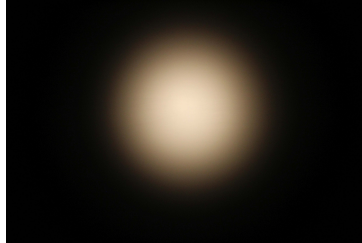
LED V11 HD Gen 8
FWHM / FWTM 22.0° / 41.0°
Efficiency 94 %
Peak intensity 4.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
Bender Wirth: 633d Hekla



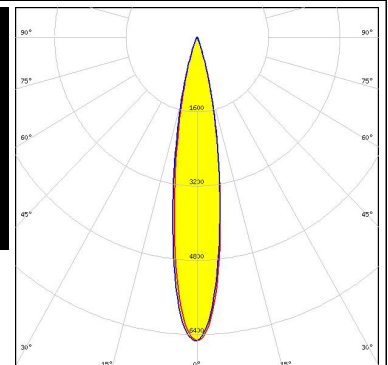
LED V6 HD Gen 7
FWHM / FWTM 15.0° / 27.0°
Efficiency 95 %
Peak intensity 11.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
Bender Wirth: 634c Hekla



LED V6 HD Gen 7
FWHM / FWTM 15.0° / 27.0°
Efficiency 96 %
Peak intensity 11.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



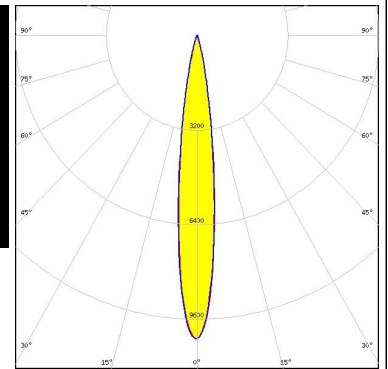
LED Vesta DTW 9mm (4W/6W/12W)
FWHM / FWTM 18.0° / 36.0°
Efficiency 93 %
Peak intensity 6.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16142_HEKLA-SOCKET-K
Bender Wirth: 490 Typ L8



OPTICAL RESULTS (MEASURED):

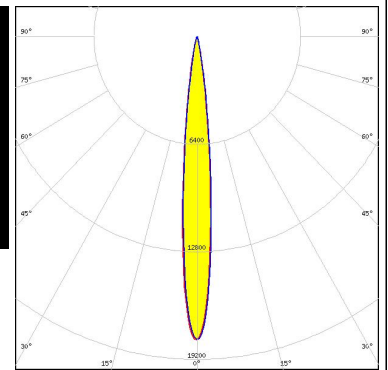


LED Vesta TW 6mm DP
FWHM / FWTM 14.0° / 28.0°
Efficiency 91 %
Peak intensity 10.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16142_HEKLA-SOCKET-K
Bender Wirth: 504 Typ L8



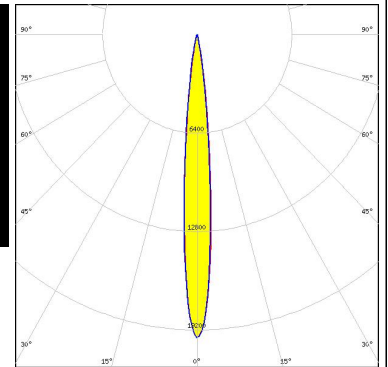
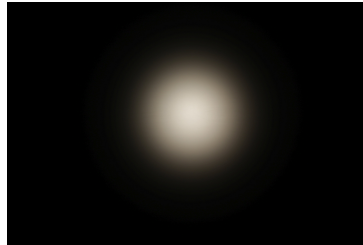
CITIZEN

LED CLU7A2/7A3
FWHM / FWTM 11.0° / 21.0°
Efficiency 94 %
Peak intensity 18 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C

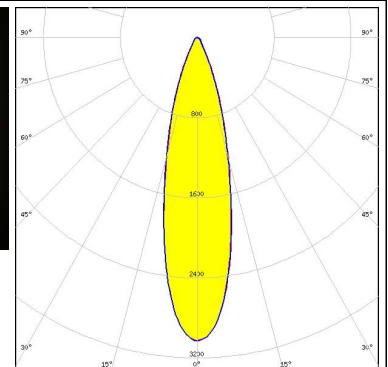
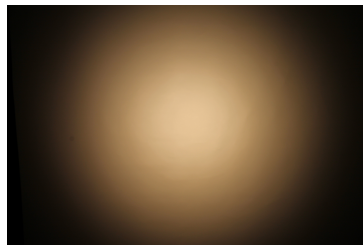


CITIZEN

LED CLU7B2
FWHM / FWTM 10.0° / 20.0°
Efficiency 94 %
Peak intensity 19.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



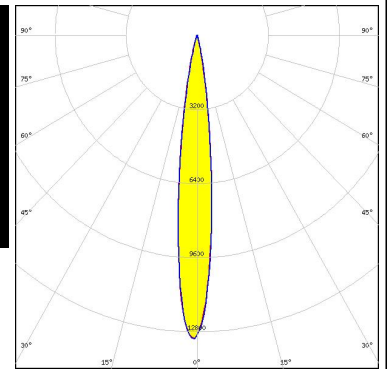
LED LUXEON CX Plus CoB L08 (Gen2)
FWHM / FWTM 26.0° / 52.0°
Efficiency 93 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
Bender Wirth: 637a Hekla



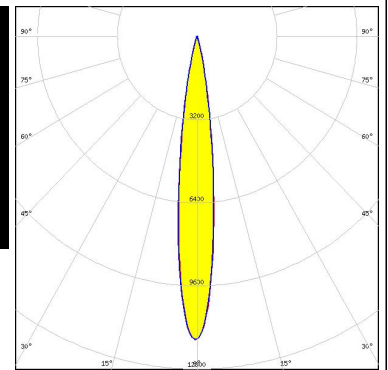
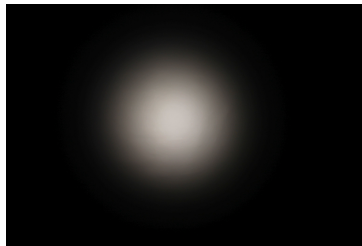
OPTICAL RESULTS (MEASURED):



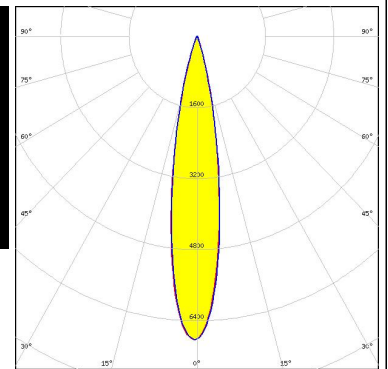
LED LUXEON CX Plus CoB - HD S01H4
 FWHM / FWTM 13.0° / 25.0°
 Efficiency 95 %
 Peak intensity 13.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 634c Hekla



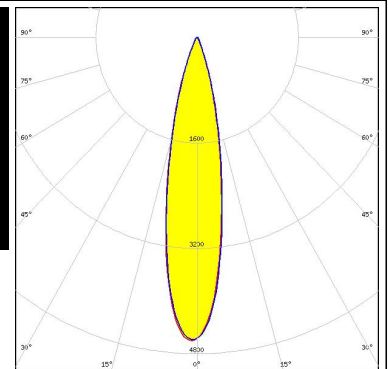
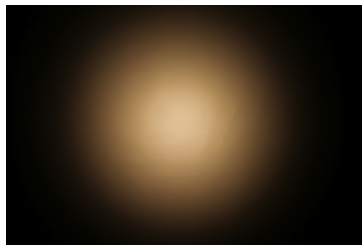
LED LUXEON CX Plus CoB - HD S02H6
 FWHM / FWTM 14.0° / 27.0°
 Efficiency 94 %
 Peak intensity 11.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 634c Hekla



LED LUXEON CX Plus CoB - HD S04H9
 FWHM / FWTM 19.0° / 35.0°
 Efficiency 94 %
 Peak intensity 6.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 634c Hekla



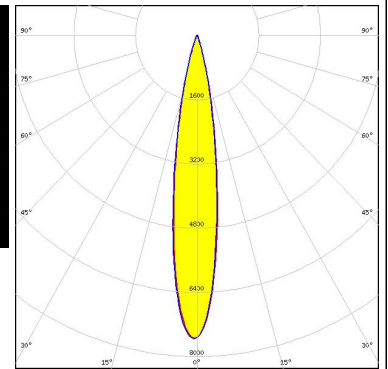
LED LUXEON CX Plus CoB L04 / L05 (Gen2)
 FWHM / FWTM 22.0° / 43.0°
 Efficiency 94 %
 Peak intensity 4.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 637a Hekla



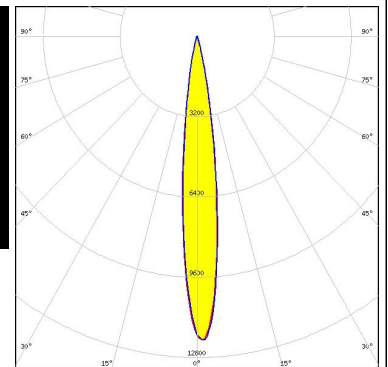
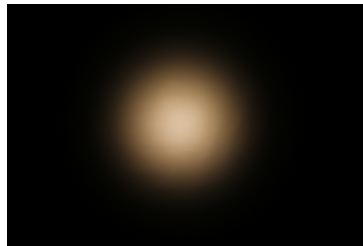
OPTICAL RESULTS (MEASURED):



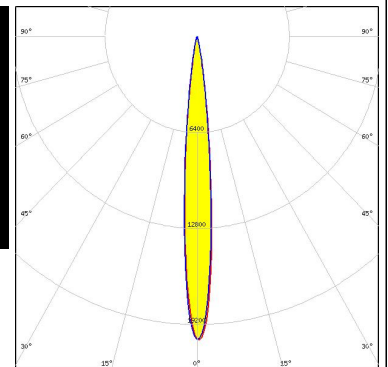
LED LUXEON CX Plus CoB M02 / M03 (Gen2)
 FWHM / FWTM 17.0° / 33.0°
 Efficiency 94 %
 Peak intensity 7.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 641a Hekla



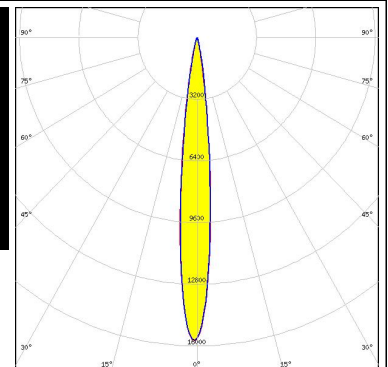
LED LUXEON CX Plus CoB S01 (Gen2)
 FWHM / FWTM 13.0° / 26.0°
 Efficiency 94 %
 Peak intensity 12.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 634c Hekla



LED CXM-3
 FWHM / FWTM 11.0° / 20.0°
 Efficiency 94 %
 Peak intensity 20.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



LED CXM-4
 FWHM / FWTM 12.0° / 23.0°
 Efficiency 94 %
 Peak intensity 15.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C

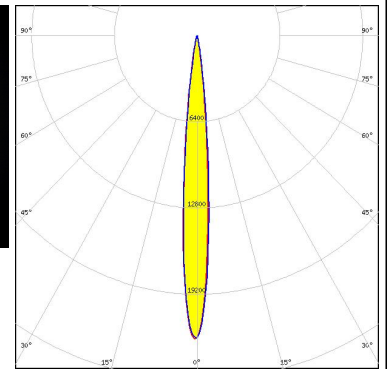
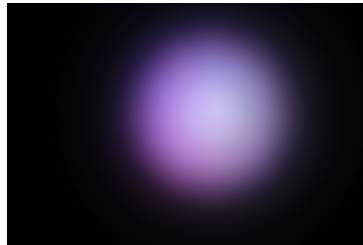


OPTICAL RESULTS (MEASURED):

OSRAM

Opto Semiconductors

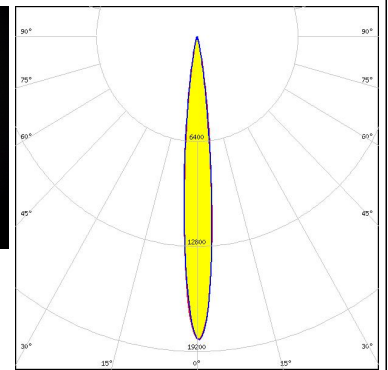
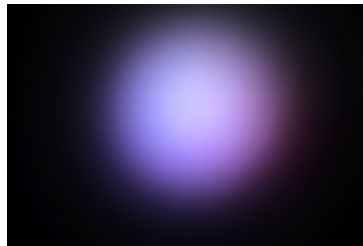
LED OSTAR Stage (S2WN)
FWHM / FWTM 10.0° / 19.0°
Efficiency 94 %
Peak intensity 22.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I



OSRAM

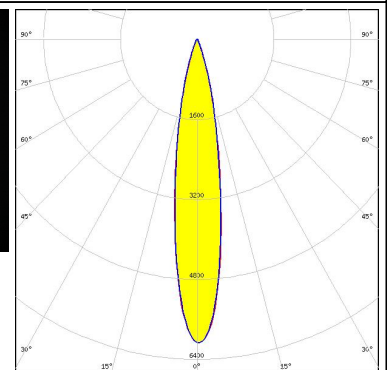
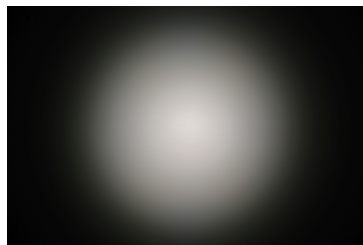
Opto Semiconductors

LED OSTAR Stage (S2WP)
FWHM / FWTM 11.0° / 21.0°
Efficiency 94 %
Peak intensity 18.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I



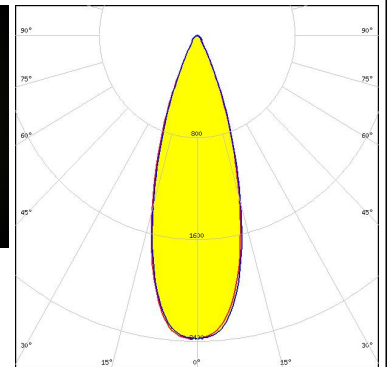
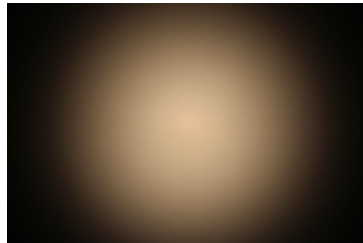
SAMSUNG

LED LC010T (Tunable White)
FWHM / FWTM 18.0° / 37.0°
Efficiency 94 %
Peak intensity 6.1 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 33.0° / 57.0°
Efficiency 95 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F17438_HEKLA-G2-I



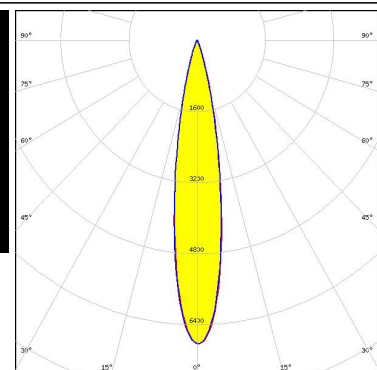
OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR LED MJT COB LES 6 FWHM / FWTM 14.0° / 26.0° Efficiency 96 % Peak intensity 12.5 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 21.0° / 37.0° Efficiency 96 % Peak intensity 5.9 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C		
TRIDONIC LED SLE G7 LES09 FWHM / FWTM 18.0° / 34.0° Efficiency 95 % Peak intensity 7 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C		
XICATO LED XOB 6 mm FWHM / FWTM 14.0° / 26.0° Efficiency 94 % Peak intensity 11.7 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C		

OPTICAL RESULTS (MEASURED):

XICATO

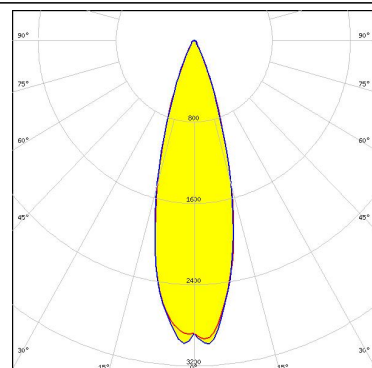
LED XOB 9.8 mm
FWHM / FWTM 19.0° / 35.0°
Efficiency 94 %
Peak intensity 6.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



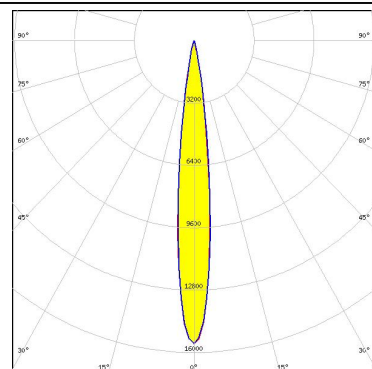
OPTICAL RESULTS (SIMULATED):



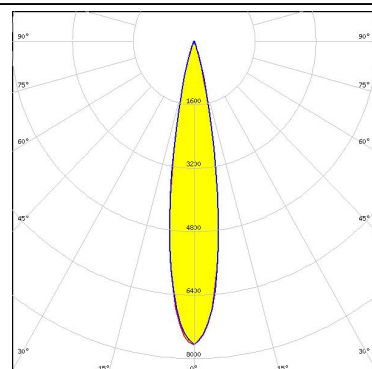
LED V13 Gen 8
FWHM / FWTM 30.0° / 52.0°
Efficiency 92 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I



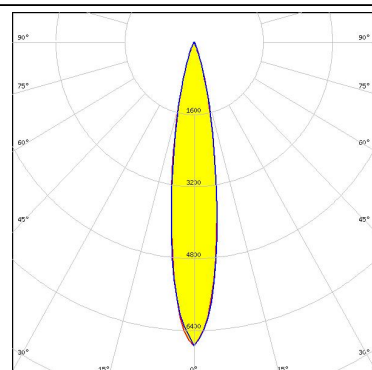
LED V4 HD Gen 7
FWHM / FWTM 12.0° / 23.0°
Efficiency 91 %
Peak intensity 15.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15253_HEKLA-SOCKET-A



LED V9 HD Gen7
FWHM / FWTM 18.0° / 32.0°
Efficiency 94 %
Peak intensity 7.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I



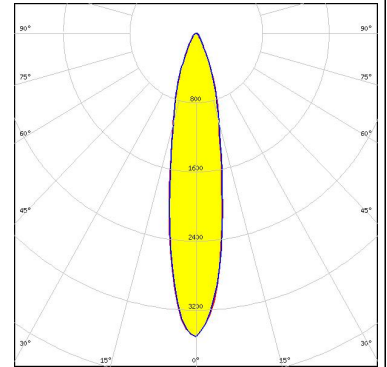
LED Vero SE 10
FWHM / FWTM 18.0° / 36.0°
Efficiency 94 %
Peak intensity 6.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



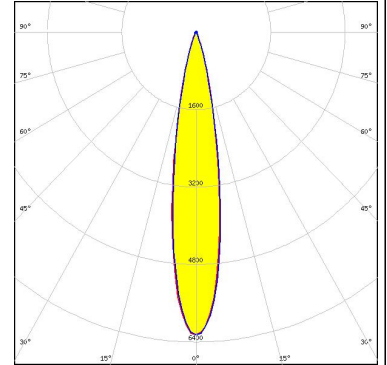
OPTICAL RESULTS (SIMULATED):



LED Vero SE 13
FWHM / FWTM 20.0° / 50.0°
Efficiency 91 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16142_HEKLA-SOCKET-K

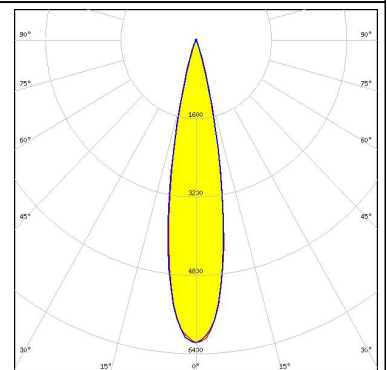


LED Vesta TW 9mm (9W) DP
FWHM / FWTM 18.0° / 35.0°
Efficiency 86 %
Peak intensity 6.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16142_HEKLA-SOCKET-K
Bender Wirth: 489 Typ L8



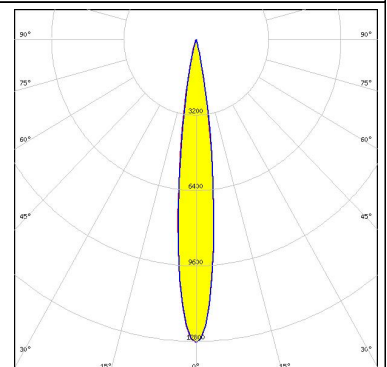
CITIZEN

LED CLL02x/CLU02x (LES10)
FWHM / FWTM 21.0° / 35.0°
Efficiency 87 %
Peak intensity 6.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



CITIZEN

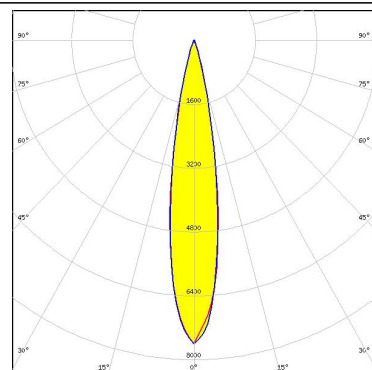
LED CLU700/701/702/703
FWHM / FWTM 14.0° / 25.0°
Efficiency 91 %
Peak intensity 12.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



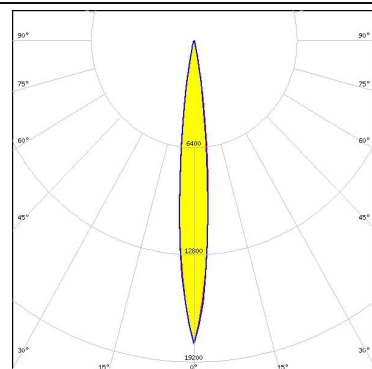
OPTICAL RESULTS (SIMULATED):

CITIZEN

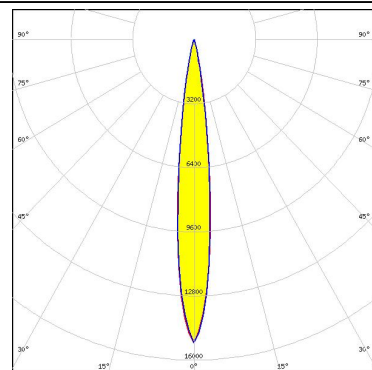
LED CLU712/713
FWHM / FWTM 18.0° / 33.0°
Efficiency 95 %
Peak intensity 7.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F17438_HEKLA-G2-I



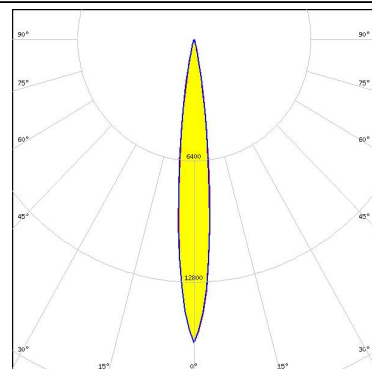
LED CHA0304
FWHM / FWTM 11.0° / 22.0°
Efficiency 95 %
Peak intensity 18.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F17435_HEKLA-G2-C



LED CHA0410
FWHM / FWTM 12.0° / 24.0°
Efficiency 95 %
Peak intensity 15.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F17435_HEKLA-G2-C



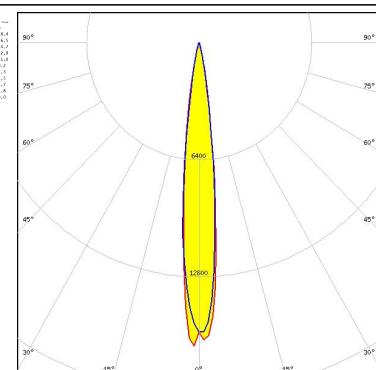
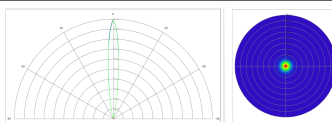
LED CMA1303
FWHM / FWTM 12.0° / 24.0°
Efficiency 96 %
Peak intensity 16 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F17439_HEKLA-G2-J



OPTICAL RESULTS (SIMULATED):

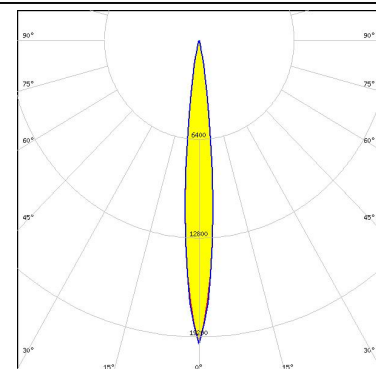
LED ENGIN

LED LZ4-00XX08
FWHM / FWTM 12.0° / 23.0°
Efficiency 96 %
LEDs/each optic 1
Light colour IR
Required components:
F15255_HEKLA-SOCKET-C



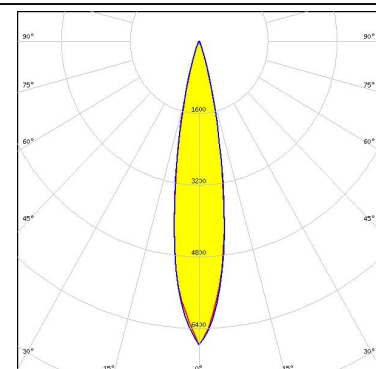
LED ENGIN

LED LZ4-00XX08
FWHM / FWTM 10.0° / 22.0°
Efficiency 95 %
Peak intensity 19.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



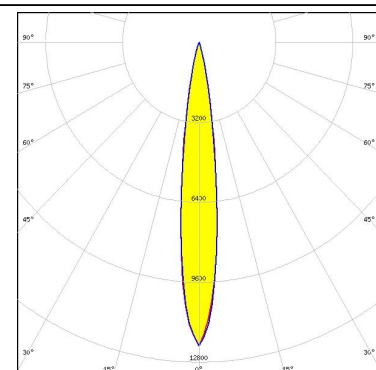
LUMILEDS

LED LUXEON CoB 1202/1203
FWHM / FWTM 19.0° / 35.0°
Efficiency 93 %
Peak intensity 6.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F17437_HEKLA-G2-H



LUMILEDS

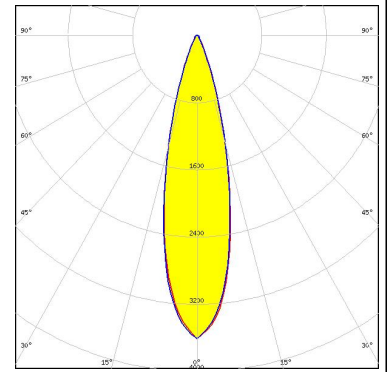
LED LUXEON CoB 1202s
FWHM / FWTM 14.0° / 26.0°
Efficiency 96 %
Peak intensity 12.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15858_HEKLA-SOCKET-H



OPTICAL RESULTS (SIMULATED):

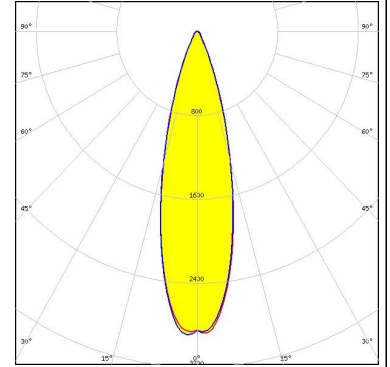
LUMILEDS

LED LUXEON CoB 1204/1205
FWHM / FWTM 26.0° / 47.0°
Efficiency 93 %
Peak intensity 3.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



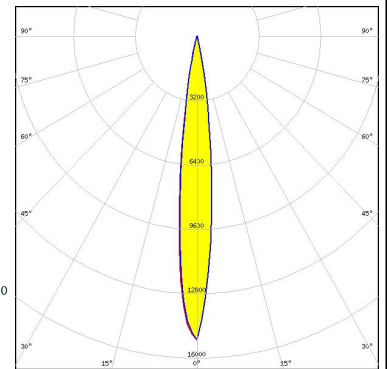
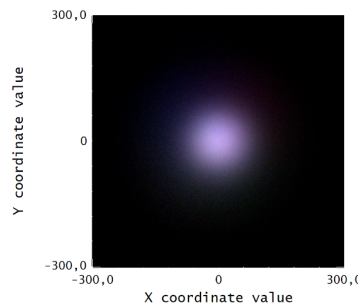
LUMILEDS

LED LUXEON CoB 1208
FWHM / FWTM 28.0° / 52.0°
Efficiency 90 %
Peak intensity 2.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



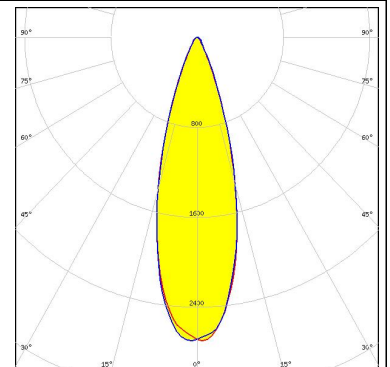
LUMILEDS

LED LUXEON Rubix
FWHM / FWTM 13.0° / 24.0°
Efficiency 95 %
Peak intensity 15.1 cd/lm
LEDs/each optic 4
Light colour RGBW
Required components:



LUMINUS

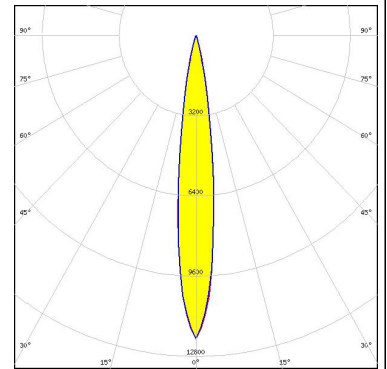
LED CxM-14 (18.5x18.5)
FWHM / FWTM 30.0° / 54.0°
Efficiency 93 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F17438_HEKLA-G2-I



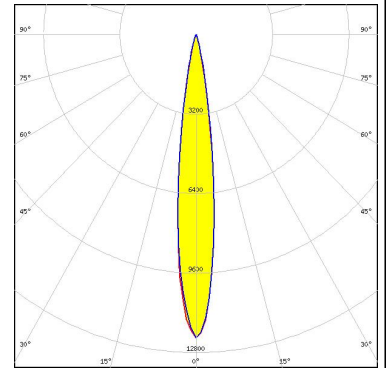
OPTICAL RESULTS (SIMULATED):



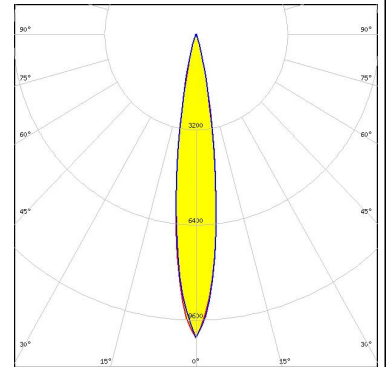
LED COB S-Type (LES 6)
FWHM / FWTM 14.0° / 26.0°
Efficiency 93 %
Peak intensity 12.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15848_HEKLA-SOCKET-G



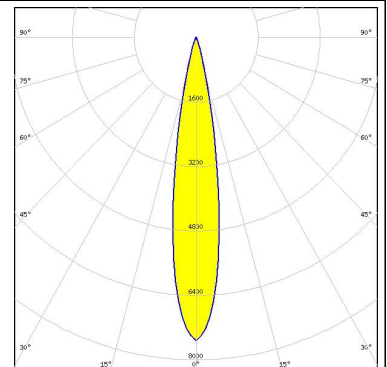
LED COB S-Type (LES 6)
FWHM / FWTM 14.0° / 26.0°
Efficiency 93 %
Peak intensity 12.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15848_HEKLA-SOCKET-G



LED COB S-Type (LES 7)
FWHM / FWTM 16.0° / 30.0°
Efficiency 95 %
Peak intensity 10.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15848_HEKLA-SOCKET-G



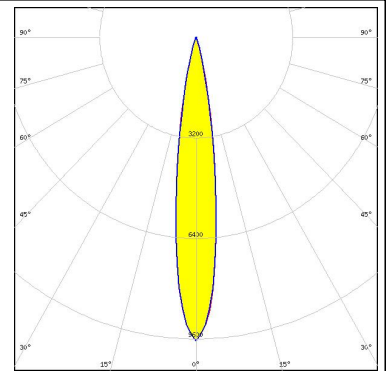
LED NFSWE11A
FWHM / FWTM 18.0° / 32.0°
Efficiency 88 %
Peak intensity 7.5 cd/lm
LEDs/each optic 30
Light colour White
Required components:
C16142_HEKLA-SOCKET-K



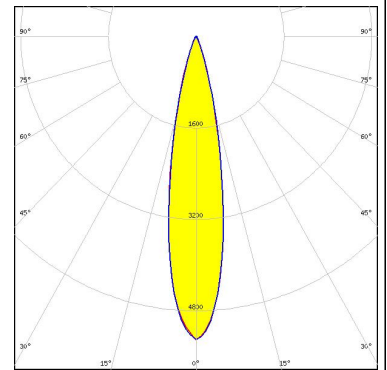
OPTICAL RESULTS (SIMULATED):



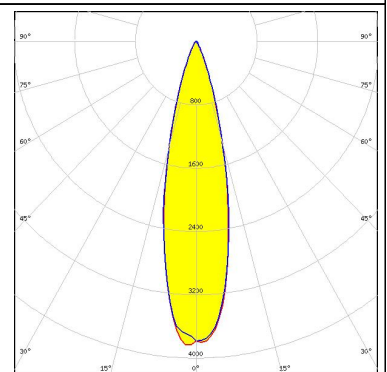
LED NJCWL024Z-V1MT: COB L-Type Tunable White
 FWHM / FWTM 16.0° / 30.0°
 Efficiency 94 %
 Peak intensity 9.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 497 Typ L8



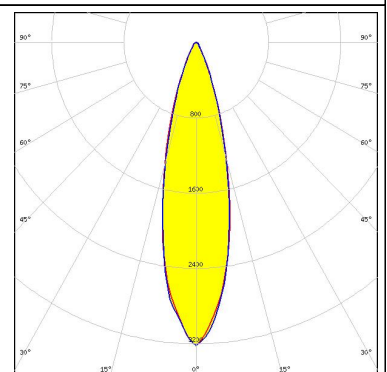
LED NVCWJ024Z-V1MT: COB J-Type Tunable White
 FWHM / FWTM 20.0° / 40.0°
 Efficiency 93 %
 Peak intensity 5.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 498 Typ L8



LED Fortimo SLM L13 CoB
 FWHM / FWTM 24.0° / 46.0°
 Efficiency 93 %
 Peak intensity 3.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 632a Hekla XL



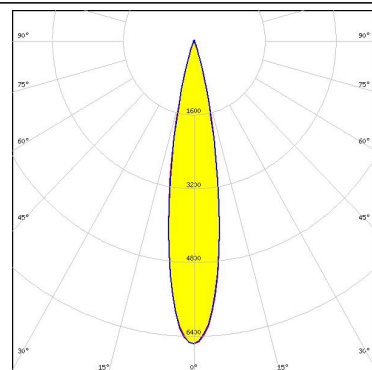
LED Fortimo SLM L15 CoB
 FWHM / FWTM 26.0° / 51.0°
 Efficiency 92 %
 Peak intensity 3.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 632a Hekla XL



OPTICAL RESULTS (SIMULATED):

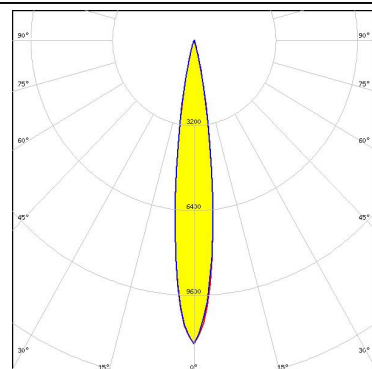
SAMSUNG

LED LC003D / LC006D / LC009D / LC013D
FWHM / FWTM 19.0° / 34.0°
Efficiency 87 %
Peak intensity 6.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



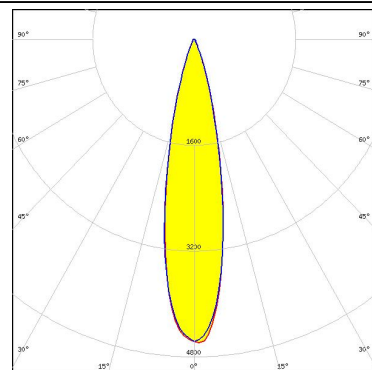
SAMSUNG

LED LC020C
FWHM / FWTM 14.0° / 28.0°
Efficiency 94 %
Peak intensity 11.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F17438_HEKLA-G2-I



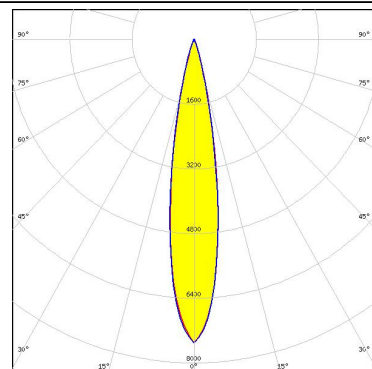
SAMSUNG

LED LC020T (Tunable white)
FWHM / FWTM 22.0° / 42.0°
Efficiency 92 %
Peak intensity 4.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C16142_HEKLA-SOCKET-K
Bender Wirth: 501 Typ L8



XICATO

LED XTM - 9mm LES
FWHM / FWTM 18.0° / 34.0°
Efficiency 94 %
Peak intensity 7.5 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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