

LISA3-WWW-PIN

~60° wide beam with location pin installation

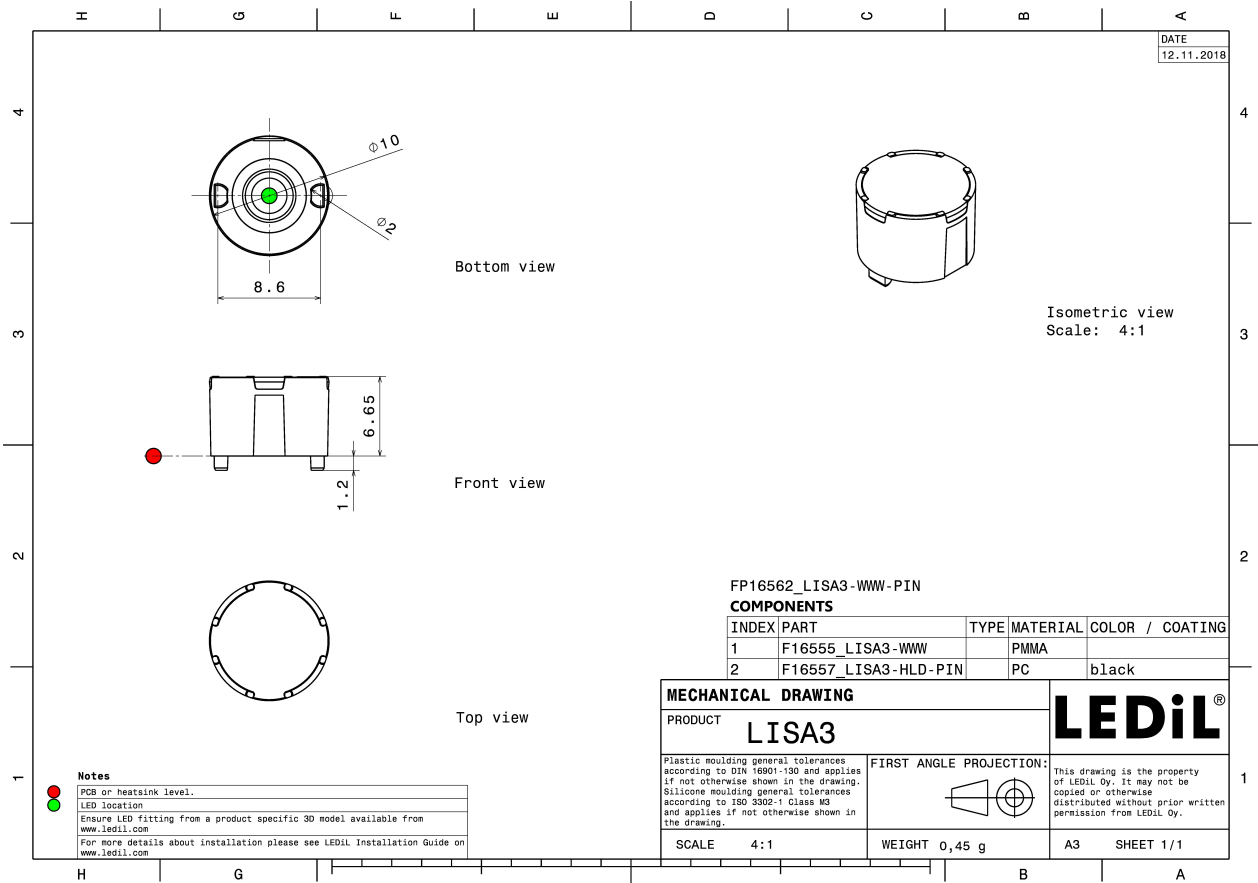
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 9.9 mm
Height	7 mm
Fastening	pin
Colour	black
Box size	310 x 230 x 60 mm
Box weight	1.4 kg
Quantity in Box	2000 pcs
ROHS compliant	yes ⓘ



MATERIAL SPECIFICATIONS:

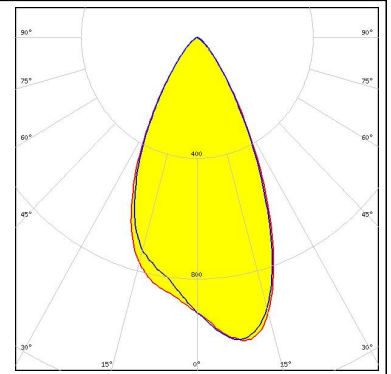
Component	Type	Material	Colour
LISA3-WWW	Single lens	PMMA	
LISA3-HLD-PIN	Holder	PC	



PHOTOMETRIC DATA (MEASURED):



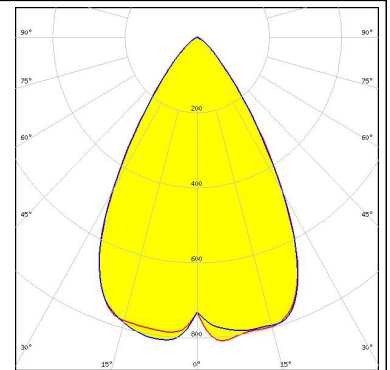
LED NF2x757G
FWHM 50.0°
Efficiency 76 %
Peak intensity 1.100 cd/lm
LEDs/each optic 1
Light colour White
Required components:



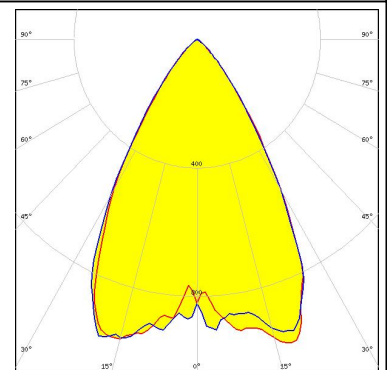
PHOTOMETRIC DATA (SIMULATED):



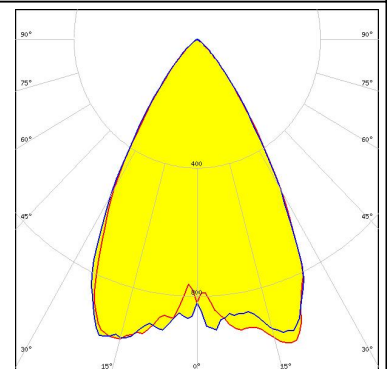
LED XP-E
 FWHM 64.0°
 Efficiency 89 %
 Peak intensity 0.820 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



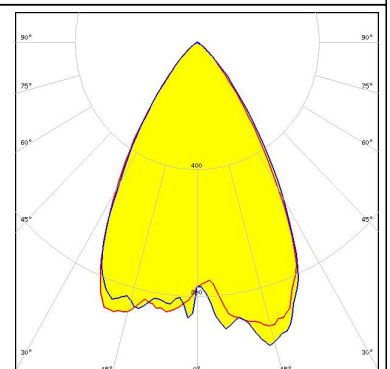
LED XP-E2
 FWHM 64.0°
 Efficiency 89 %
 Peak intensity 0.830 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED XP-E2
 FWHM 62.0°
 Efficiency 89 %
 Peak intensity 0.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



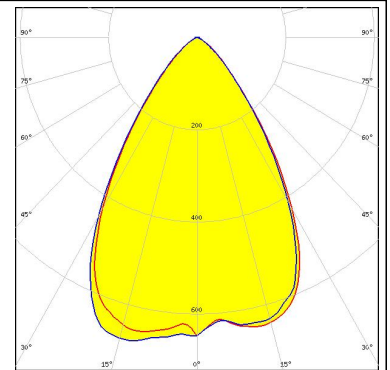
LED XP-G2
 FWHM 66.0°
 Efficiency 87 %
 Peak intensity 0.800 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



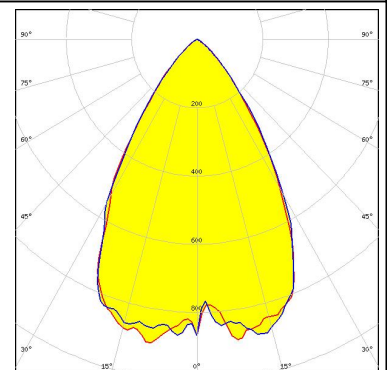
PHOTOMETRIC DATA (SIMULATED):



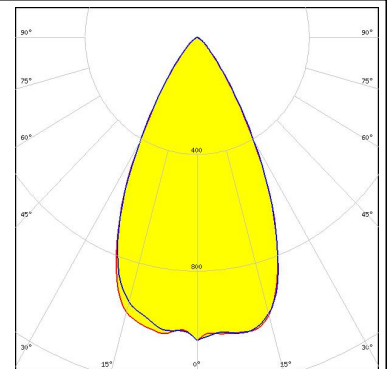
LED XP-G2 HE
FWHM 68.0°
Efficiency 82 %
Peak intensity 0.685 cd/lm
LEDs/each optic 1
Light colour White
Required components:



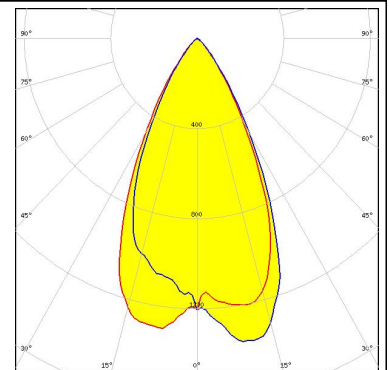
LED XP-G3
FWHM 63.0°
Efficiency 82 %
Peak intensity 0.740 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED LUXEON 2835 Line
FWHM 54.0°
Efficiency 88 %
Peak intensity 1.042 cd/lm
LEDs/each optic 1
Light colour White
Required components:



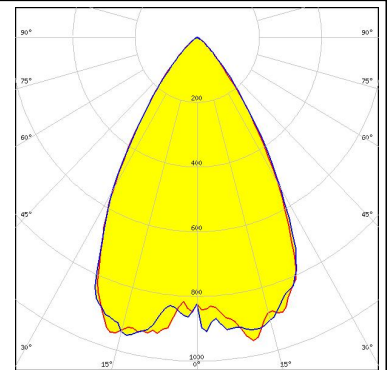
LED LUXEON 3030 2D (Round LES)
FWHM 54.0°
Efficiency 85 %
Peak intensity 1.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (SIMULATED):

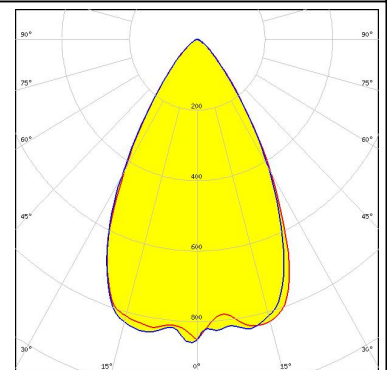
LUMILEDS

LED LUXEON TX
FWHM 62.0°
Efficiency 85 %
Peak intensity 0.820 cd/lm
LEDs/each optic 1
Light colour White
Required components:



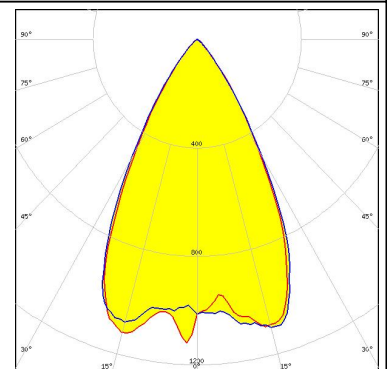
LUMILEDS

LED LUXEON V2
FWHM 60.0°
Efficiency 88 %
Peak intensity 0.860 cd/lm
LEDs/each optic 1
Light colour White
Required components:



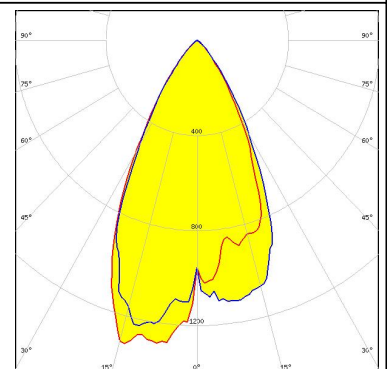
LUMILEDS

LED LUXEON Z
FWHM 58.0°
Efficiency 88 %
Peak intensity 1.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:



NICHIA

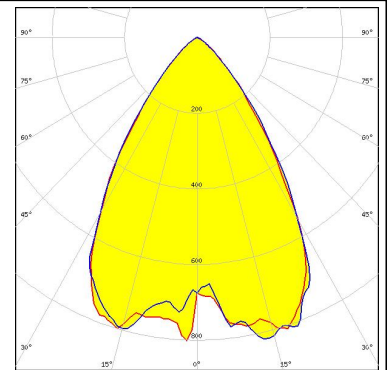
LED NF2x757G
FWHM 50.0°
Efficiency 88 %
Peak intensity 1.120 cd/lm
LEDs/each optic 1
Light colour White
Required components:



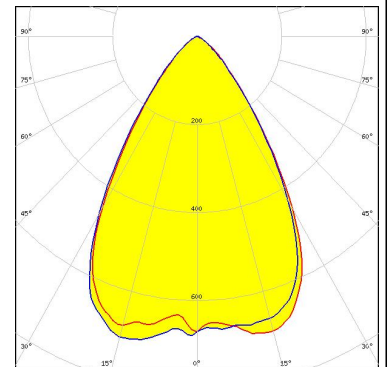
PHOTOMETRIC DATA (SIMULATED):



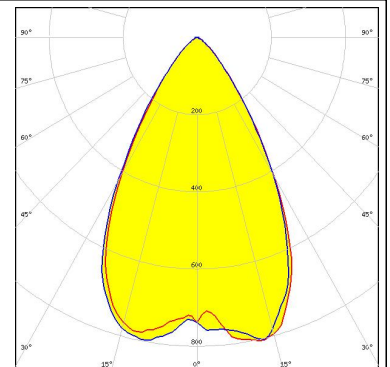
LED NVSW219D
FWHM 67.0°
Efficiency 84 %
Peak intensity 0.710 cd/lm
LEDs/each optic 1
Light colour White
Required components:



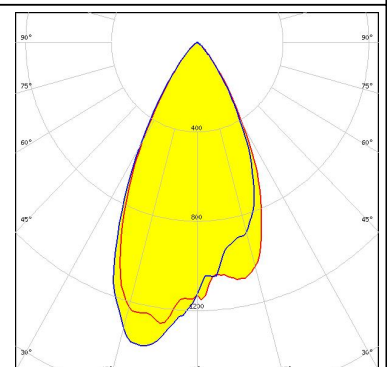
LED NVSW219F
FWHM 66.0°
Efficiency 84 %
Peak intensity 0.710 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED NVSxx19B/NVSxx19C
FWHM 61.0°
Efficiency 83 %
Peak intensity 0.810 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED Duris S5 (2 chip)
FWHM 49.0°
Efficiency 87 %
Peak intensity 1.230 cd/lm
LEDs/each optic 1
Light colour White
Required components:

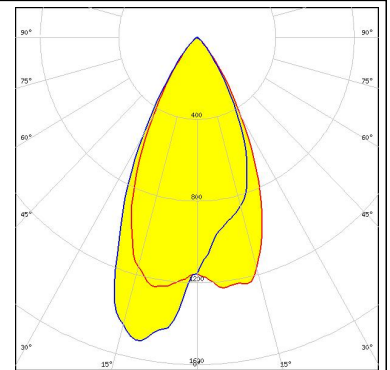


PHOTOMETRIC DATA (SIMULATED):

OSRAM

Opto Semiconductors

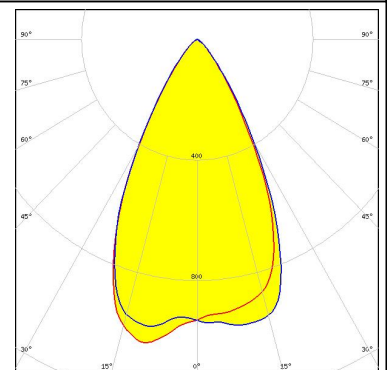
LED Duris S5 (Single chip)
 FWHM 48.0°
 Efficiency 86 %
 Peak intensity 1.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

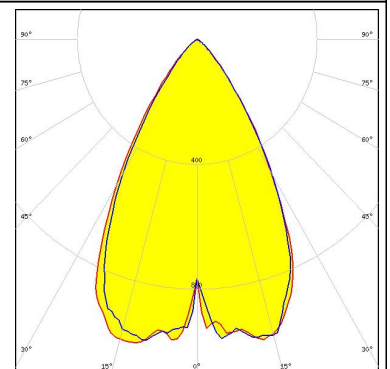
LED OSCONIQ P 3030
 FWHM 56.0°
 Efficiency 85 %
 Peak intensity 1.027 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

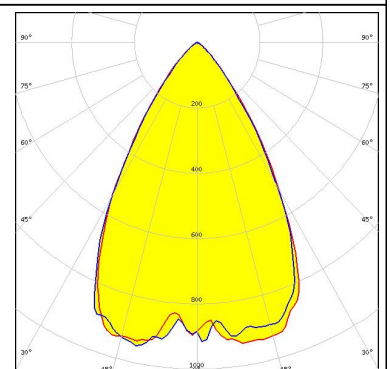
LED OSLON Square CSSRM2/CSSRM3
 FWHM 60.0°
 Efficiency 87 %
 Peak intensity 0.970 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



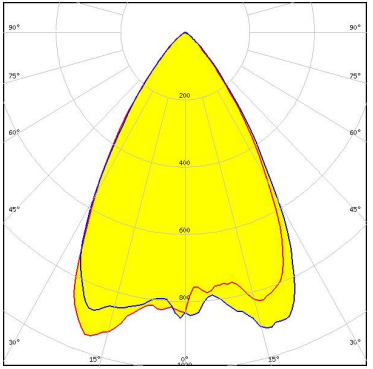
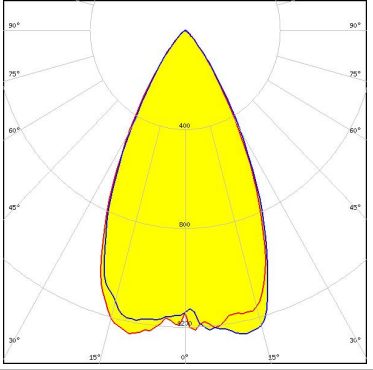
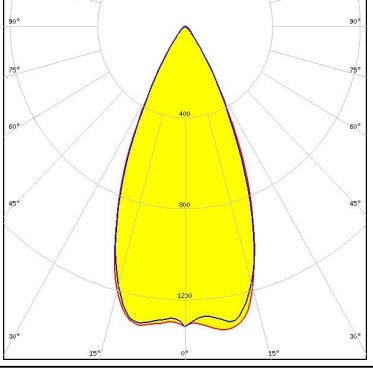
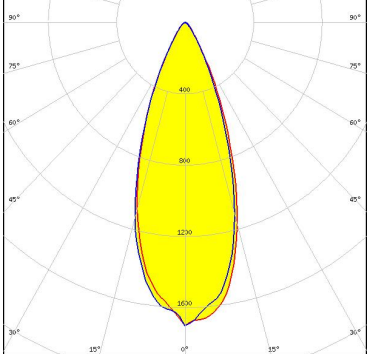
OSRAM

Opto Semiconductors

LED OSLON Square EC
 FWHM 61.0°
 Efficiency 86 %
 Peak intensity 0.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



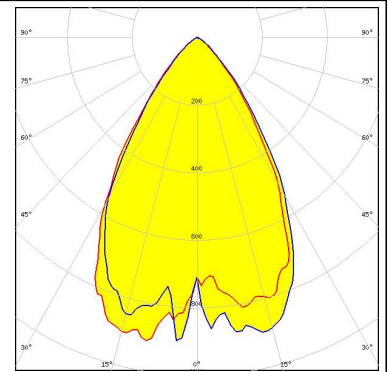
PHOTOMETRIC DATA (SIMULATED):

<p>OSRAM Opto Semiconductors</p> <p>LED OSLON SSL 150 FWHM 63.0° Efficiency 87 % Peak intensity 0.850 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED OSLON SSL 80 FWHM 53.0° Efficiency 87 % Peak intensity 1.140 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED SFH 4725S FWHM 48.0° Efficiency 88 % Peak intensity cd/lm LEDs/each optic 1 Light colour IR Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED SFH 4727AS FWHM 38.0° Efficiency 81 % Peak intensity 1.702 cd/lm LEDs/each optic 1 Light colour IR Required components:</p>	

PHOTOMETRIC DATA (SIMULATED):

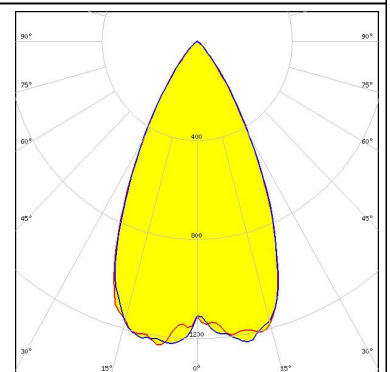
SAMSUNG

LED LH351C
FWHM 62.0°
Efficiency 84 %
Peak intensity 0.800 cd/lm
LEDs/each optic 1
Light colour White
Required components:



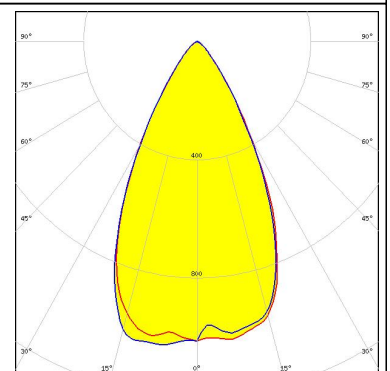
SAMSUNG

LED LM301A
FWHM 53.0°
Efficiency 87 %
Peak intensity 1.150 cd/lm
LEDs/each optic 1
Light colour White
Required components:



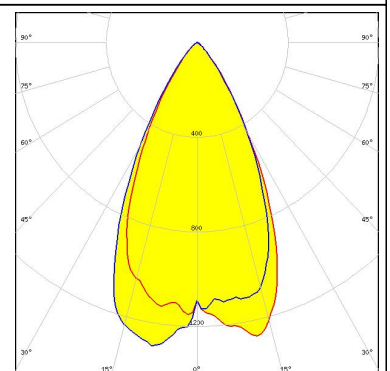
SAMSUNG

LED LM301B
FWHM 55.0°
Efficiency 87 %
Peak intensity 1.060 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SAMSUNG

LED LM302A
FWHM 53.0°
Efficiency 87 %
Peak intensity 1.170 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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.

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

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)