HB-2X2-M

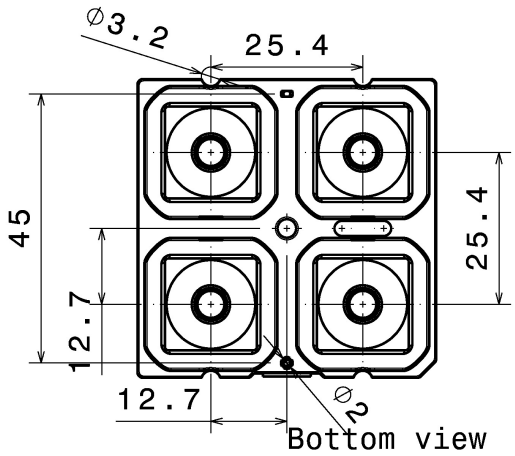
~25° medium beam

TECHNICAL SPECIFICATIONS:

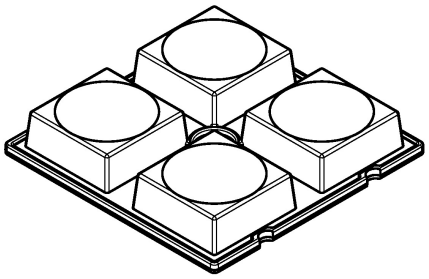
Dimensions	50x50 mm
Height	8.5 mm
Fastening	glue, screw, pin
Colour	clear
Box size	480 x 280 x 300 mm
Box weight	9.2 kg
Quantity in Box	800 pcs
ROHS compliant	yes

MATERIAL SPECIFICATIONS:

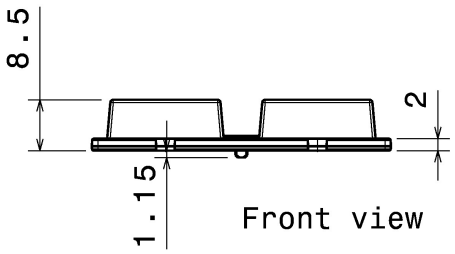
Component	Type	Material	Colour
HB-2X2-M	Lens array	PMMA	clear



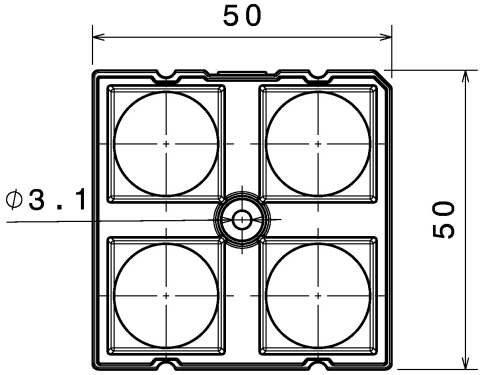
Bottom view



Isometric view



Front view



Top view

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C13233	HB-2X2-M	PMMA	

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class M, otherwise class C.
According to DIN ISO 2768-2
Form and position: class L

Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
HB-2X2-M

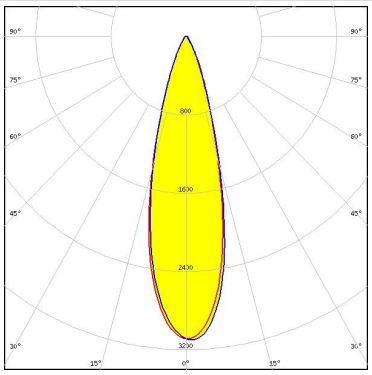
SIZE A4 | C13233

SCALE 1:1 | WEIGHT | SHEET 1/1

PHOTOMETRIC DATA (MEASURED):

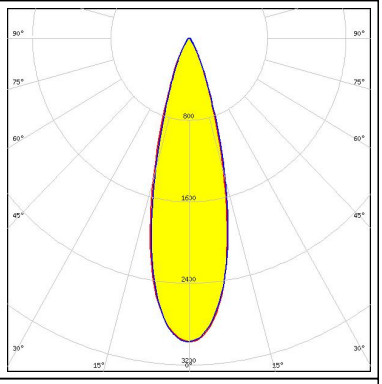
COMET ELECTRONICS

LED	QUICK FLUX XTP 2x4 xxx LS G5
FWHM	28.0°
Efficiency	94 %
Peak intensity	3.100 cd/lm
Required components:	



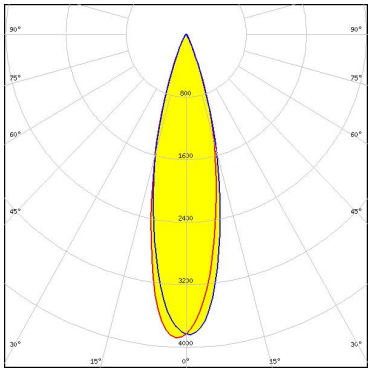
COMET ELECTRONICS

LED	QUICK FLUX XTP 2x6 xxx LS G5
FWHM	29.0°
Efficiency	94 %
Peak intensity	3.000 cd/lm
Required components:	



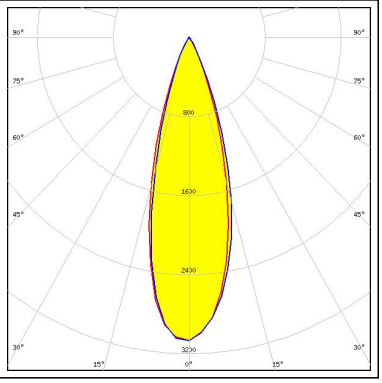
CREE

LED	XB-D
FWHM	26.0°
Efficiency	95 %
Peak intensity	3.900 cd/lm
Required components:	



CREE

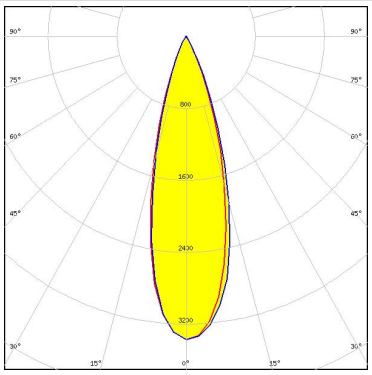
LED	XP-G
FWHM	31.0°
Efficiency	91 %
Peak intensity	3.100 cd/lm
Required components:	



PHOTOMETRIC DATA (MEASURED):

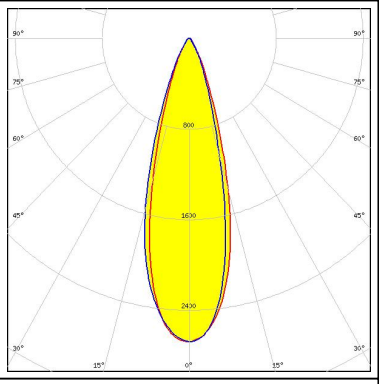
CREE

LED	XP-G2
FWHM	33.0°
Efficiency	93 %
Peak intensity	3.400 cd/lm
Required components:	



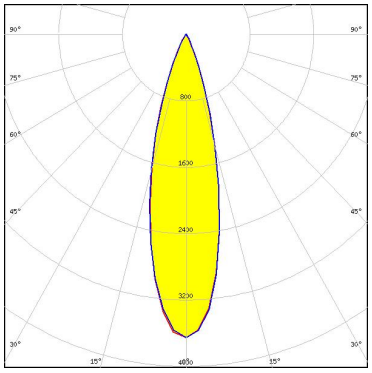
CREE

LED	XP-G3
FWHM	30.0°
Efficiency	94 %
Peak intensity	2.700 cd/lm
Required components:	



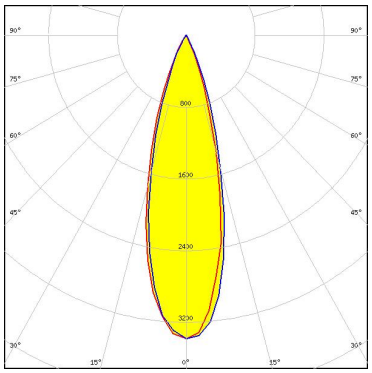
CREE

LED	XT-E
FWHM	25.0°
Efficiency	92 %
Peak intensity	3.700 cd/lm
Required components:	



LG Innotek

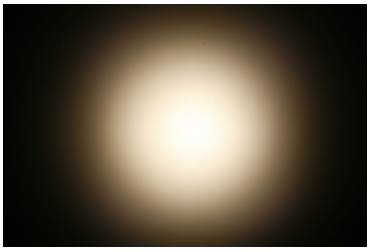
LED	H35C1 (LEMWA33)
FWHM	29.0°
Efficiency	91 %
Peak intensity	3.400 cd/lm
Required components:	

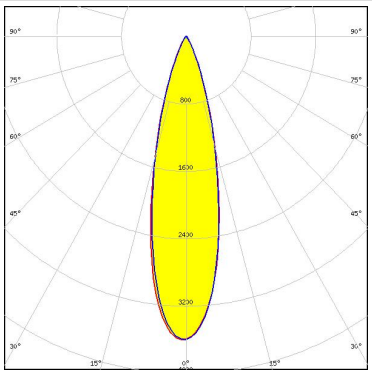


PHOTOMETRIC DATA (MEASURED):

LUMILEDS

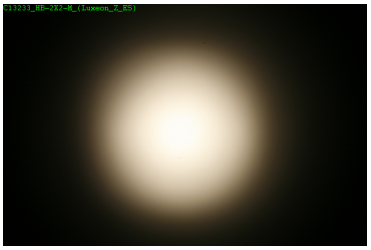
LED	LUXEON Q
FWHM	26.0°
Efficiency	94 %
Peak intensity	3.600 cd/lm
Required components:	

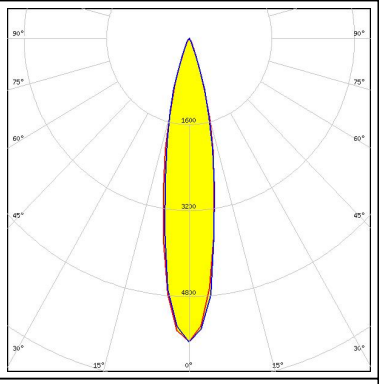




LUMILEDS

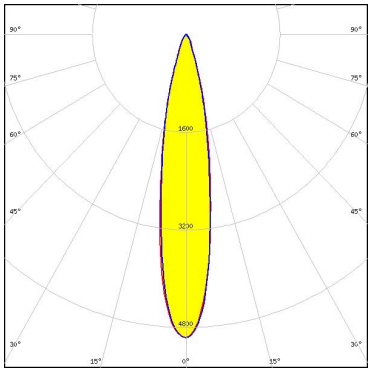
LED	LUXEON Z ES
FWHM	21.0°
Efficiency	91 %
Peak intensity	5.640 cd/lm
Required components:	





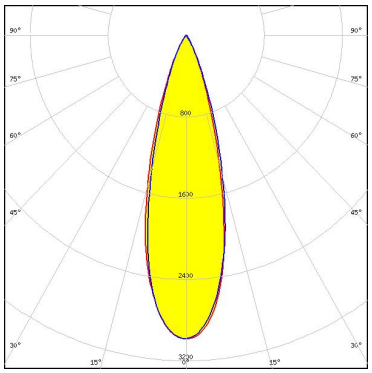
NICHIA

LED	NVSxE21A
FWHM	20.0°
Efficiency	94 %
Peak intensity	4.970 cd/lm
Required components:	



NICHIA

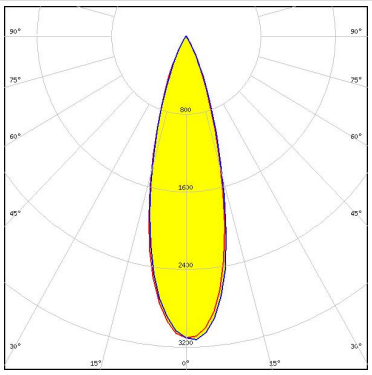
LED	NVSxx19B/NVSxx19C
FWHM	29.0°
Efficiency	90 %
Peak intensity	3.000 cd/lm
Required components:	



PHOTOMETRIC DATA (MEASURED):

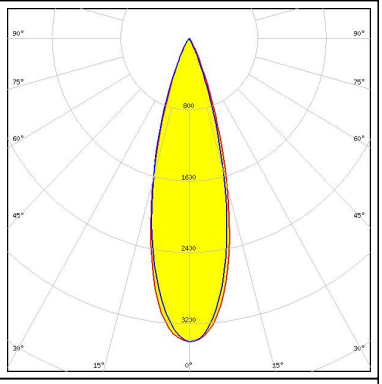
NICHIA

LED	NVSxx19B/NVSxx19C
FWHM	29.0°
Efficiency	91 %
Peak intensity	3.100 cd/lm
Required components:	



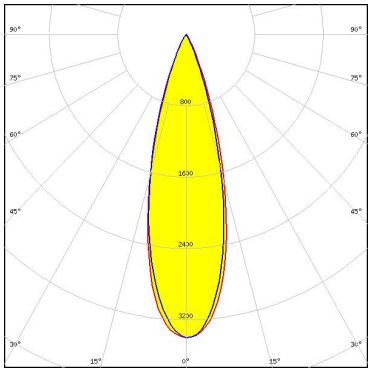
OSRAM

LED	PrevaLED Brick DC 2x8
FWHM	30.0°
Efficiency	93 %
Peak intensity	3.400 cd/lm
Required components:	



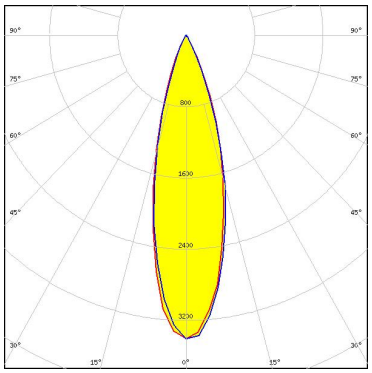
OSRAM Opto Semiconductors

LED	Oslon Square Gen3
FWHM	30.0°
Efficiency	93 %
Peak intensity	3.400 cd/lm
Required components:	



OSRAM Opto Semiconductors

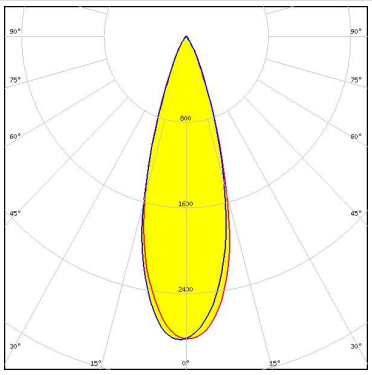
LED	Oslon Square PC
FWHM	30.0°
Efficiency	91 %
Peak intensity	3.400 cd/lm
Required components:	



PHOTOMETRIC DATA (MEASURED):

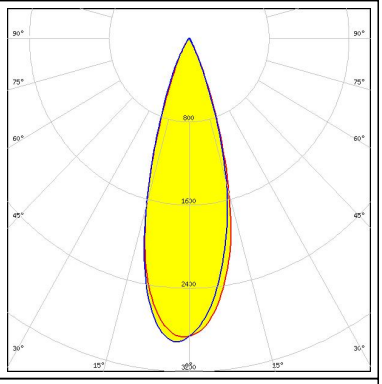
SAMSUNG

LED	LH351B
FWHM	31.0°
Efficiency	94 %
Peak intensity	2.800 cd/lm
Required components:	



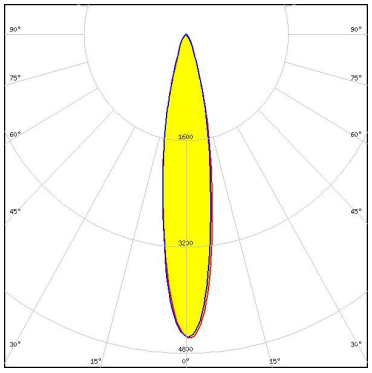
SAMSUNG

LED	LH351Z
FWHM	32.0°
Efficiency	93 %
Peak intensity	2.900 cd/lm
Required components:	



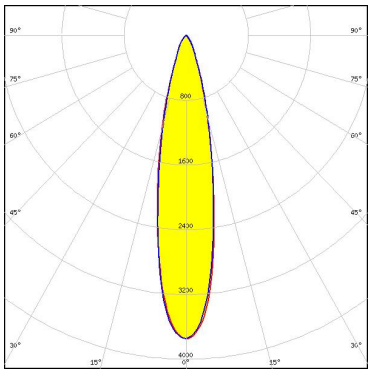
SEOUL SEMICONDUCTOR

LED	Z8Y15
FWHM	20.0°
Efficiency	89 %
Peak intensity	4.600 cd/lm
Required components:	



SEOUL SEMICONDUCTOR

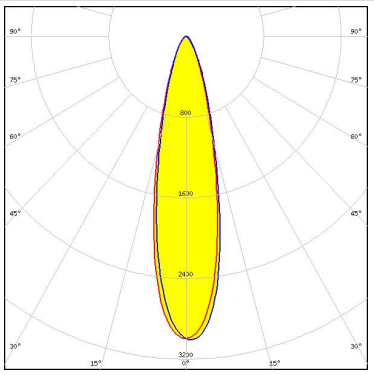
LED	Z8Y19
FWHM	22.0°
Efficiency	89 %
Peak intensity	3.800 cd/lm
Required components:	



PHOTOMETRIC DATA (MEASURED):

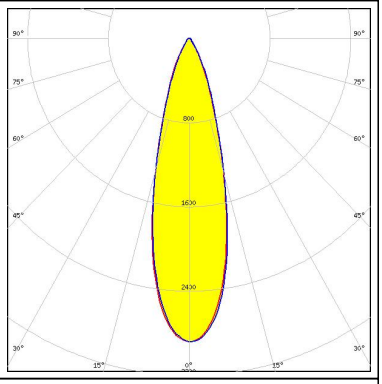
SEOUL SEMICONDUCTOR

LED	Z8Y22
FWHM	24.0°
Efficiency	94 %
Peak intensity	3.000 cd/lm
Required components:	



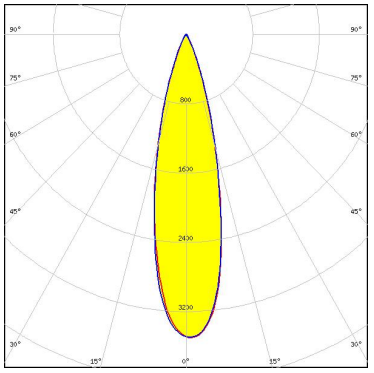
SEOUL SEMICONDUCTOR

LED	Z8Y22P
FWHM	28.0°
Efficiency	94 %
Peak intensity	2.900 cd/lm
Required components:	



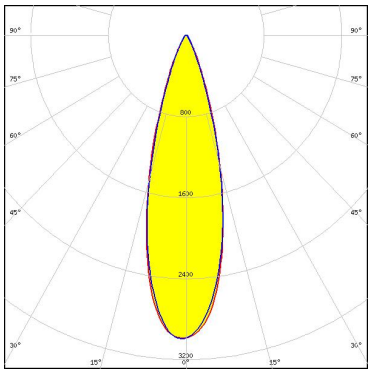
TOSHIBA
Leading Innovation

LED	TL1L4
FWHM	25.0°
Efficiency	85 %
Peak intensity	3.500 cd/lm
Required components:	



TRIDONIC

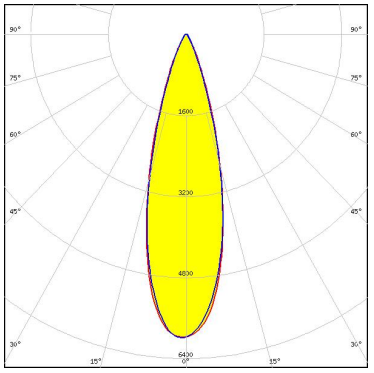
LED	RLE G1 49x121mm 2000lm xxx EXC OTD
FWHM	29.0°
Efficiency	94 %
Peak intensity	3.000 cd/lm
Required components:	



PHOTOMETRIC DATA (MEASURED):

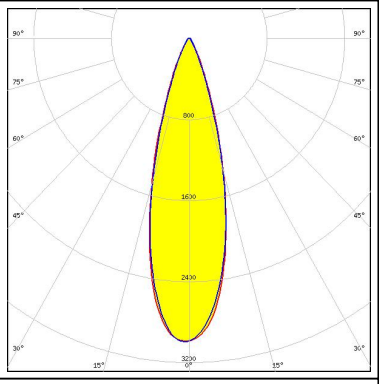
TRIDONIC

LED	RLE G1 49x133mm 2000lm xxx EXC OTD
FWHM	29.0°
Efficiency	94 %
Peak intensity	3.000 cd/lm
Required components:	



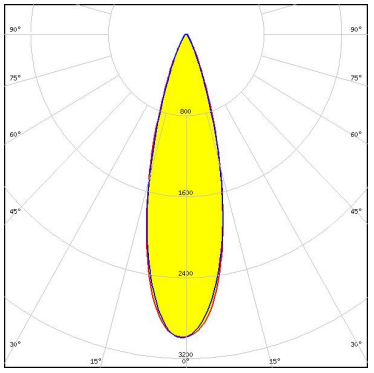
TRIDONIC

LED	RLE G1 49x223mm 4000lm xxx EXC OTD
FWHM	29.0°
Efficiency	94 %
Peak intensity	3.000 cd/lm
Required components:	



TRIDONIC

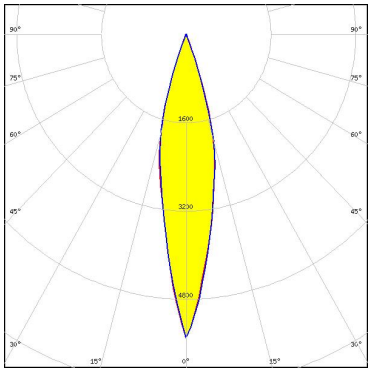
LED	RLE G1 49x245mm 4000lm xxx EXC OTD
FWHM	29.0°
Efficiency	94 %
Peak intensity	3.000 cd/lm
Required components:	



PHOTOMETRIC DATA (SIMULATED):

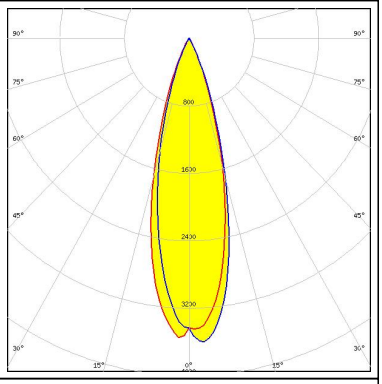
CREE

LED	XQ-E HI
FWHM	22.0°
Efficiency	93 %
Peak intensity	5.500 cd/lm
Required components:	



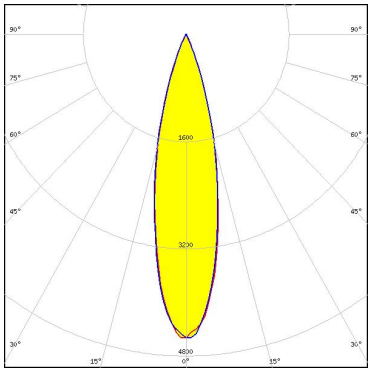
LUMILEDS

LED	LUXEON 3030 2D
FWHM	28.0°
Efficiency	94 %
Peak intensity	3.600 cd/lm
Required components:	



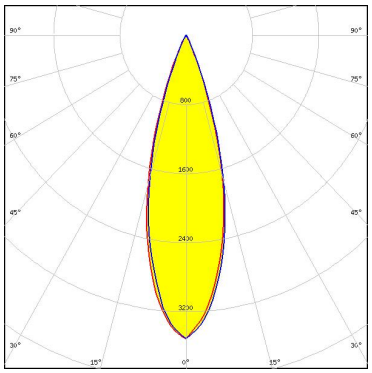
LUMILEDS

LED	LUXEON C
FWHM	25.0°
Efficiency	94 %
Peak intensity	4.600 cd/lm
Required components:	



OSRAM
Opto Semiconductors

LED	Oslon SSL 80
FWHM	29.6°
Efficiency	94 %
Peak intensity	3.500 cd/lm
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.

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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

Shipping locations
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