EMMA-360

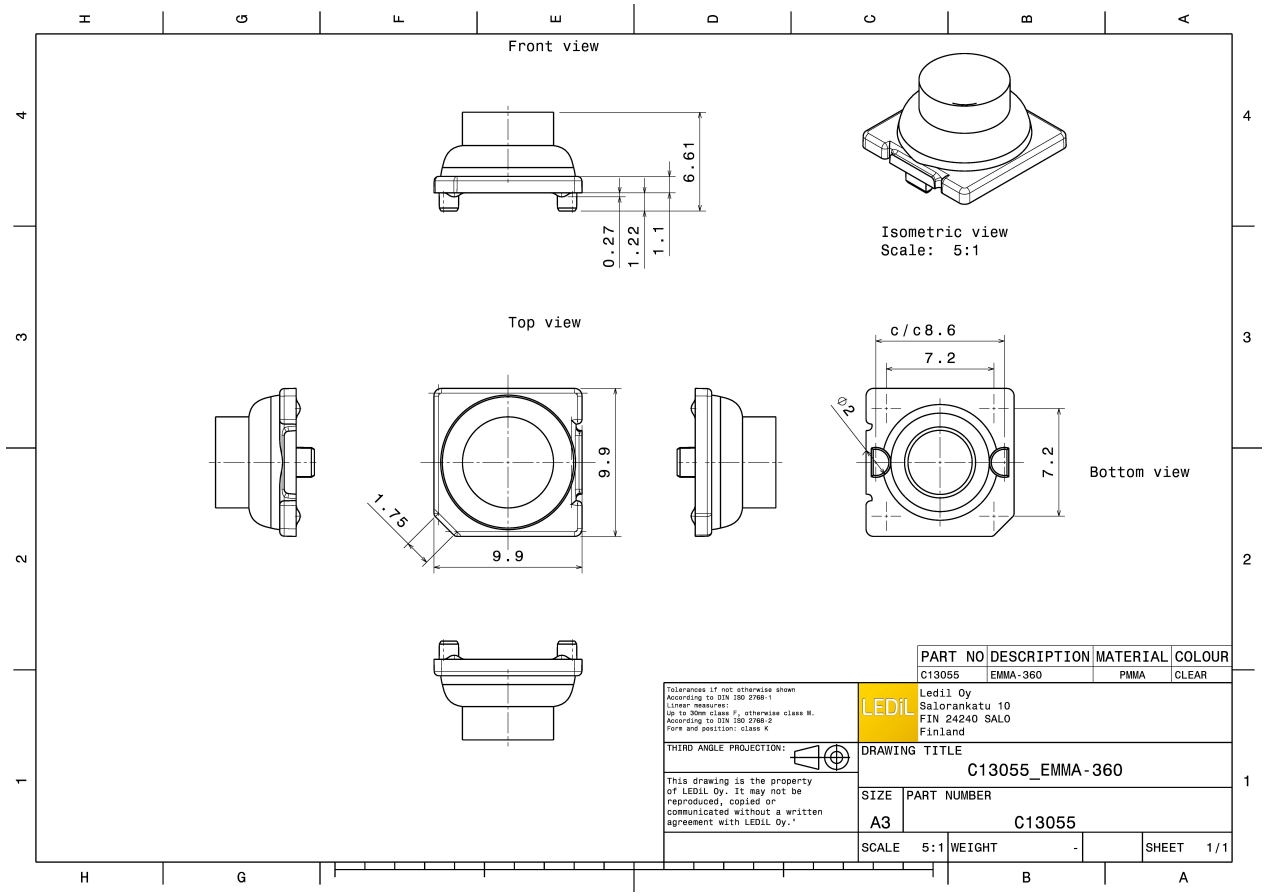
~170° side emitter

TECHNICAL SPECIFICATIONS:

Dimensions	9.9 mm
Height	5.7 mm
Fastening	glue, pin
Colour	clear
Box size	
Box weight	2 kg
Quantity in Box	5000 pcs
ROHS compliant	yes

MATERIAL SPECIFICATIONS:

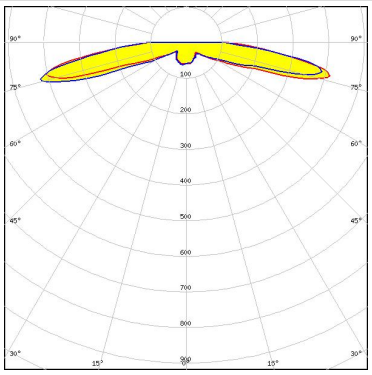
Component	Type	Material	Colour
EMMA-360	Single lens	PMMA	clear


Front view
6.61
0.27
1.22
1.1
Isometric view
Scale: 5:1
Top view
c/c8.6
7.2
9.9
1.75
9.9
Ø2
7.2
Bottom view
PART NO | DESCRIPTION | MATERIAL | COLOUR
C13055 | EMMA-360 | PMMA | CLEAR
Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class F, otherwise class M.
According to DIN ISO 2768-2
Form and position: class K
Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland
THIRD ANGLE PROJECTION:
DRAWING TITLE
C13055_EMMA-360
This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy.'
SIZE
A3
PART NUMBER
C13055
SCALE 5:1
WEIGHT -
SHEET 1/1

PHOTOMETRIC DATA (MEASURED):

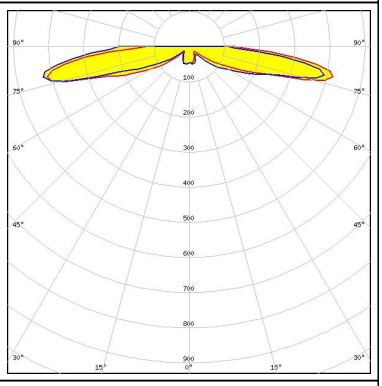
CREE

LED	XB-D
FWHM	170.0°
Efficiency	93 %
Peak intensity	0.440 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



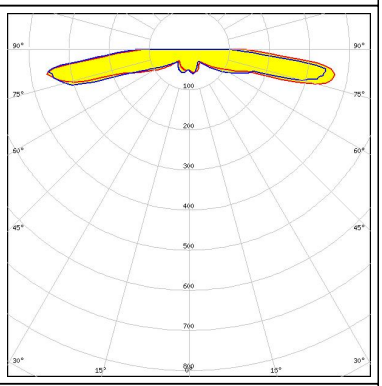
CREE

LED	XP-E2
FWHM	172.0°
Efficiency	94 %
Peak intensity	0.430 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



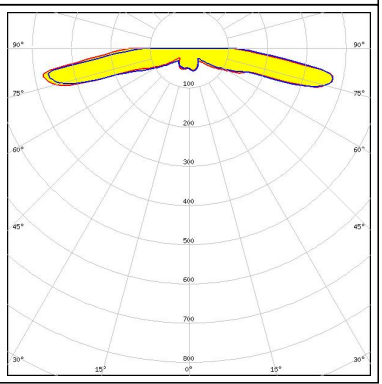
CREE

LED	XP-G
FWHM	173.0°
Efficiency	88 %
Peak intensity	0.390 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



CREE

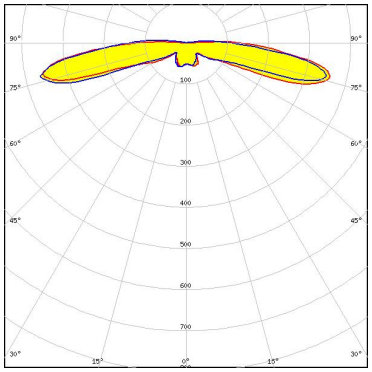
LED	XP-G2
FWHM	172.0°
Efficiency	90 %
Peak intensity	0.410 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



PHOTOMETRIC DATA (MEASURED):

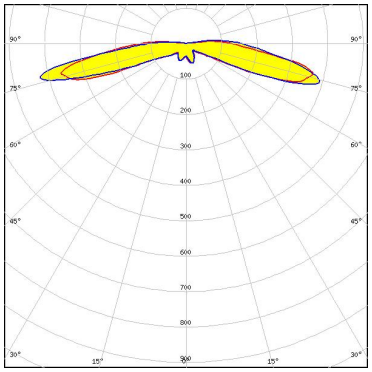
CREE

LED	XT-E
FWHM	174.0°
Efficiency	94 %
Peak intensity	0.400 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



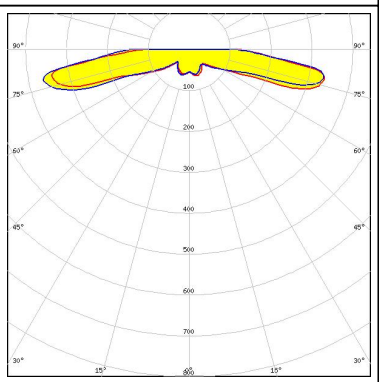
LUMILEDS

LED	LUXEON 3535 2D
FWHM	170.0°
Efficiency	94 %
Peak intensity	0.430 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



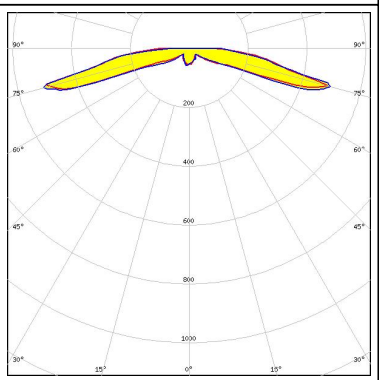
LUMILEDS

LED	LUXEON A
FWHM	173.0°
Efficiency	92 %
Peak intensity	0.370 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



LUMILEDS

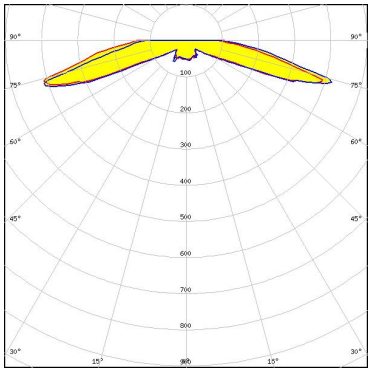
LED	LUXEON Rebel
FWHM	165.0°
Efficiency	93 %
Peak intensity	0.530 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



PHOTOMETRIC DATA (MEASURED):

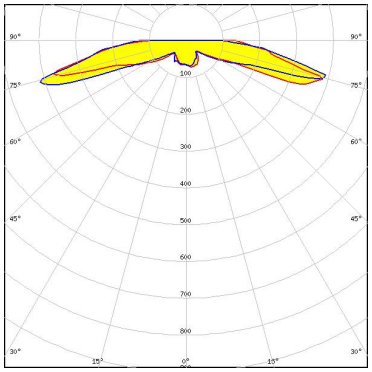
NICHIA

LED	NCSxx19A
FWHM	165.0°
Efficiency	90 %
Peak intensity	0.420 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

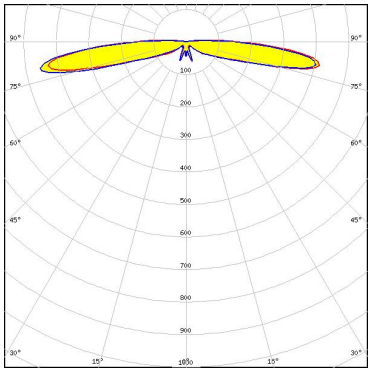
LED	Oslon Square EC
FWHM	170.0°
Efficiency	92 %
Peak intensity	0.420 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



PHOTOMETRIC DATA (SIMULATED):

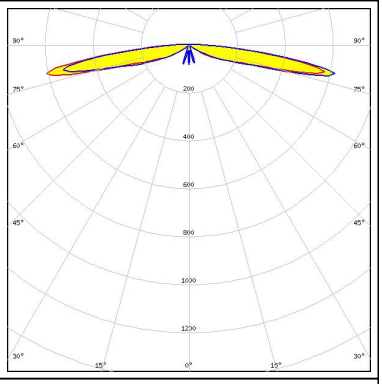
LUMILEDS

LED	LUXEON C
FWHM	174.0°
Efficiency	94 %
Peak intensity	0.510 cd/lm
LEDs/each optic	1
Light colour	Red
Required components:	



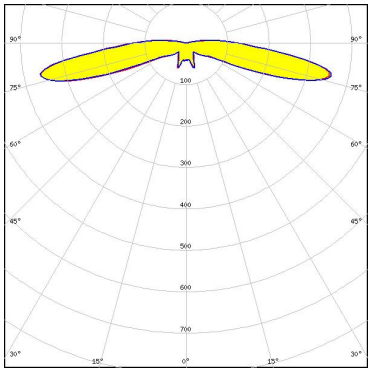
LUMILEDS

LED	LUXEON CZ
FWHM	167.0°
Efficiency	94 %
Peak intensity	0.640 cd/lm
LEDs/each optic	1
Light colour	Red
Required components:	



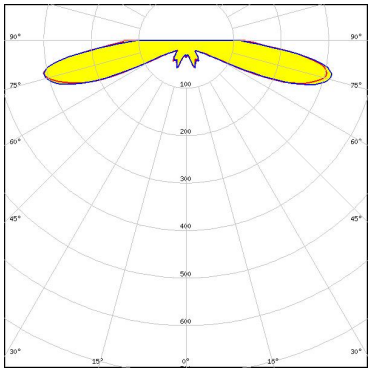
LUMILEDS

LED	LUXEON V2
FWHM	172.0°
Efficiency	94 %
Peak intensity	0.380 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SEOUL SEMICONDUCTOR

LED	Z8Y22P
FWHM	152.0°
Efficiency	87 %
Peak intensity	0.350 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

Shipping locations
Salo, Finland
Hong Kong, China

Distribution Partners
www.ledil.com/
where_to_buy