

HB-IP-2X6-O-PC

~30° + 115° oval beam. Variant made from PC.

SPECIFICATION:

Dimensions	173.0 x 71.4 mm
Height	12.2 mm
Fastening	pin, screw
Ingress protection classes	IP67
ROHS compliant	yes ⓘ

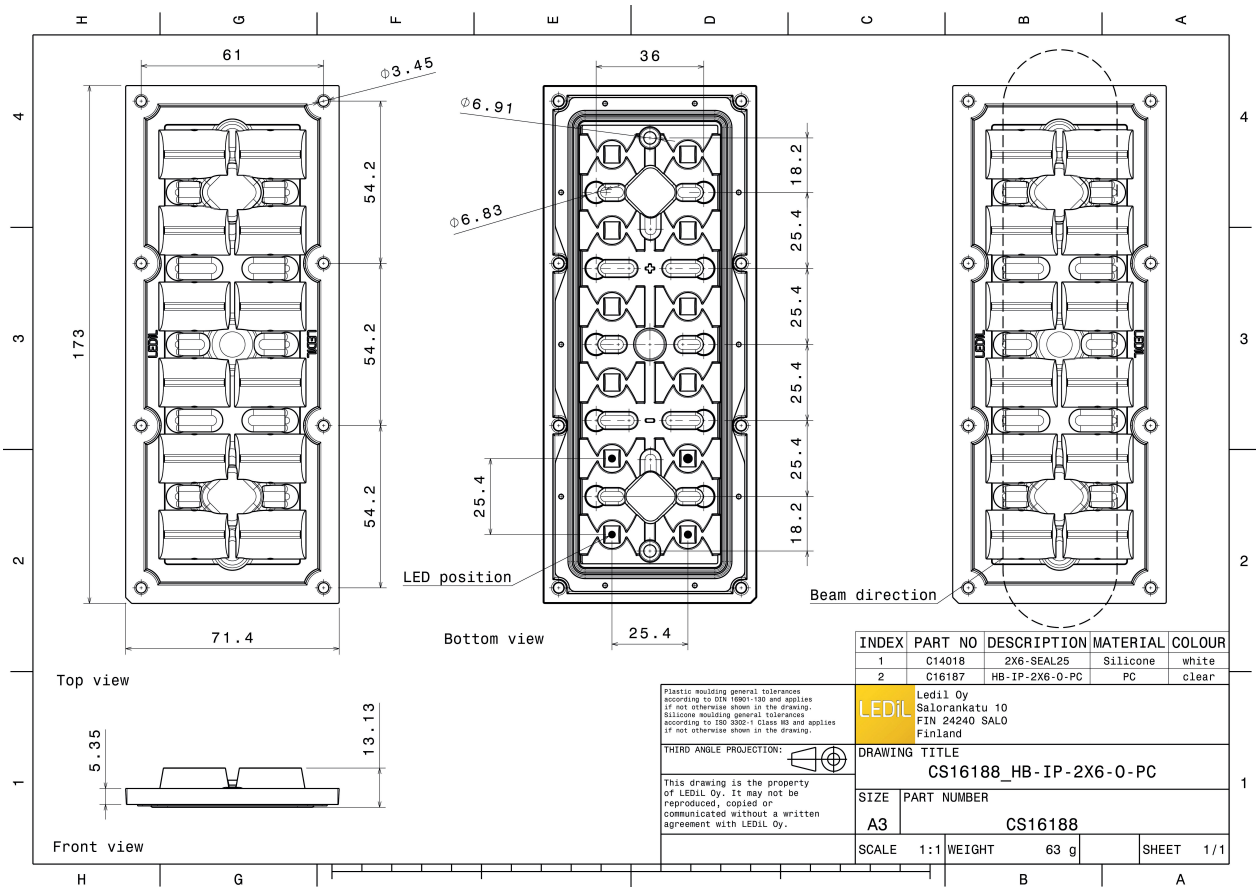
MATERIALS:

Component	Type	Material	Colour	Finish	Length
HB-IP-2X6-O-PC	Multi-lens	PC	clear		173.0
2X6-SEAL25	Seal	Silicone	white		



ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS16188_HB-IP-2X6-O-PC	Multi-lens	108		36	8.5
» Box size: 476 x 273 x 247 mm					

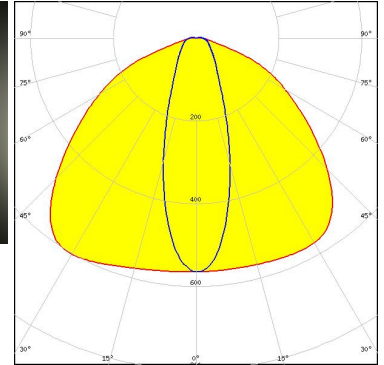
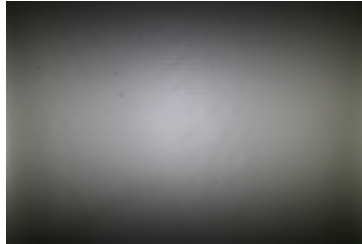


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



LED QUICK FLUX 2x6 LED XG xxx G7+
 FWHM / FWTM 116.0 + 33.0° / 150.0 + 91.0°
 Efficiency 84 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

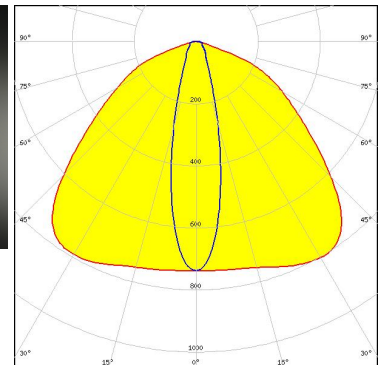
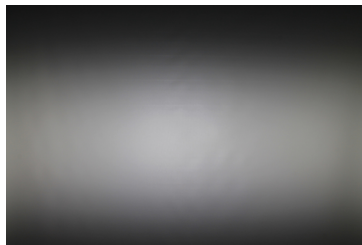


LED QUICK FLUX 2x6 LED XT xxx G5
 FWHM / FWTM 111.0 + 30.0° / 148.0 + 87.0°
 Efficiency 84 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Light distribution files



LED XP-G2
 FWHM / FWTM 110.0 + 24.0° / 146.0 + 56.0°
 Efficiency 82 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



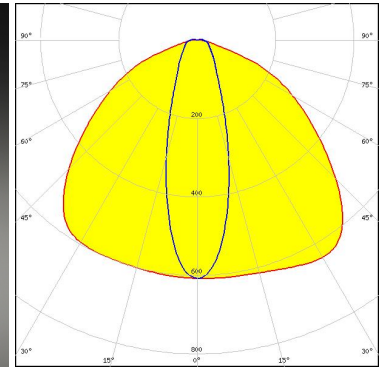
Light distribution files

OPTICAL RESULTS (MEASURED):



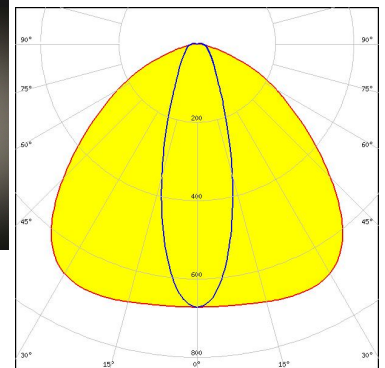
LED XT-E HE
 FWHM / FWTM 112.0 + 30.0° / 148.0 + 86.0°
 Efficiency 84 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Light distribution files



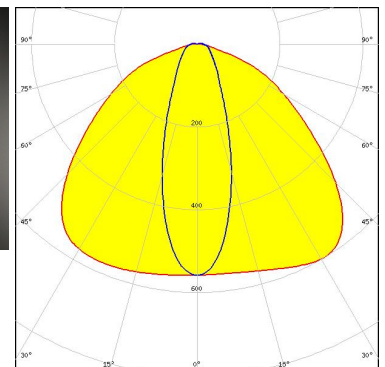
LED LUXEON HL2X
 FWHM / FWTM 104.0 + 31.0° / 145.0 + 79.0°
 Efficiency 87 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Light distribution files



LED NVSW519A
 FWHM / FWTM 110.0 + 34.0° / 149.0 + 92.0°
 Efficiency 85 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Light distribution files

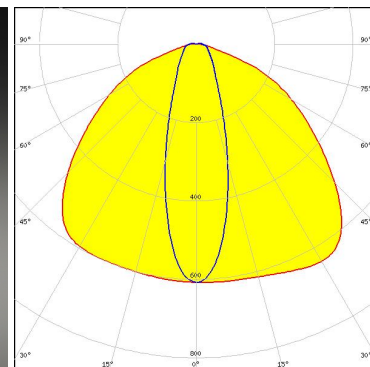


OPTICAL RESULTS (MEASURED):



LED	XLE-S22C4XTEHE (XT-E HE)
FWHM / FWTM	112.0 + 30.0° / 148.0 + 86.0°
Efficiency	84 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

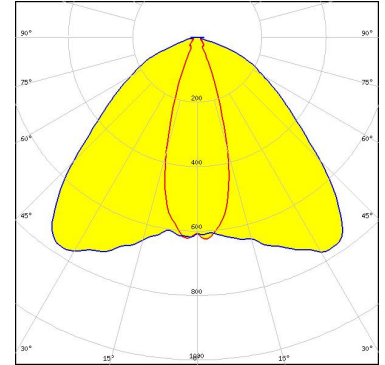
Light distribution files



OPTICAL RESULTS (SIMULATED):



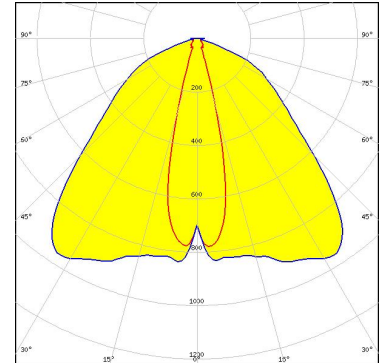
LED XHP35.2 HD
 FWHM / FWTM 32.0 + 102.0° / 54.0 + 142.0°
 Efficiency 85 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



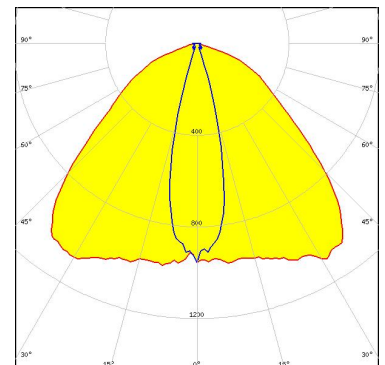
LED XHP35.2 HI
 FWHM / FWTM 26.0 + 98.0° / 42.0 + 141.0°
 Efficiency 87 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-G2 HE
 FWHM / FWTM 102.0 + 26.0° / 142.0 + 38.0°
 Efficiency 94 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

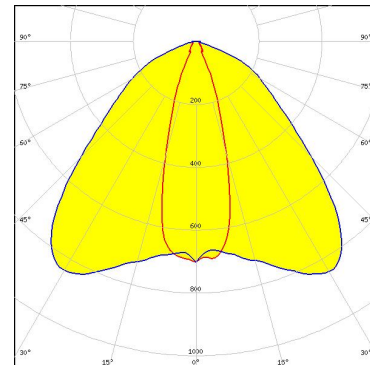


Light distribution files

OPTICAL RESULTS (SIMULATED):



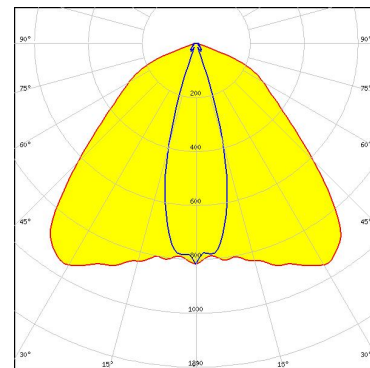
LED LUXEON 5050 Square LES
 FWHM / FWTM 32.0 + 96.0° / 52.0 + 141.0°
 Efficiency 90 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



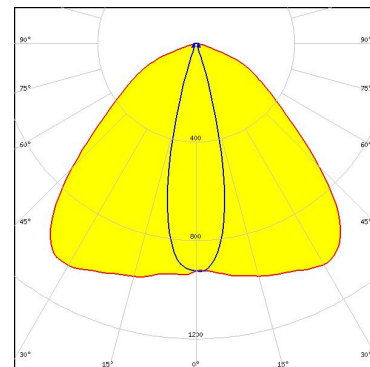
LED NV4WB35AM
 FWHM / FWTM 98.0 + 30.0° / 140.0 + 40.0°
 Efficiency 90 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED NVSW219F
 FWHM / FWTM 100.0 + 26.0° / 141.0 + 38.0°
 Efficiency 88 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

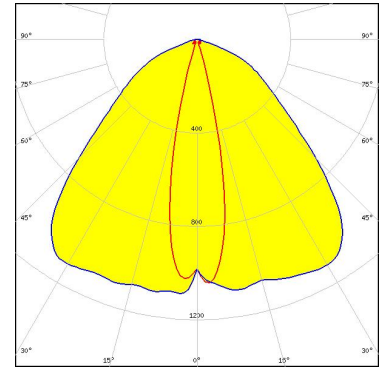


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM

LED	PrevaLED Brick HP IP 2x6
FWHM / FWTM	24.0 + 98.0° / 34.0 + 140.0°
Efficiency	89 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

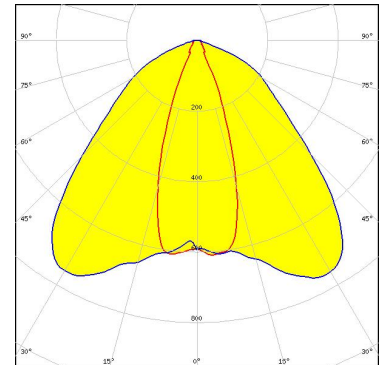


Light distribution files

OSRAM

Opto Semiconductors

LED	Duris S8
FWHM / FWTM	36.0 + 96.0° / 54.0 + 140.0°
Efficiency	89 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

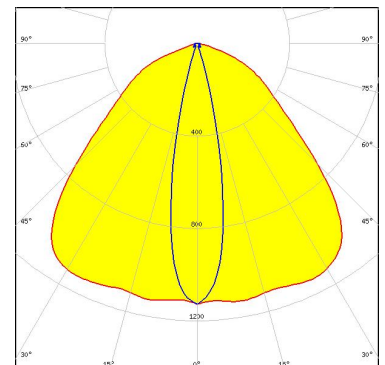


Light distribution files

OSRAM

Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	98.0 + 22.0° / 142.0 + 34.0°
Efficiency	90 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

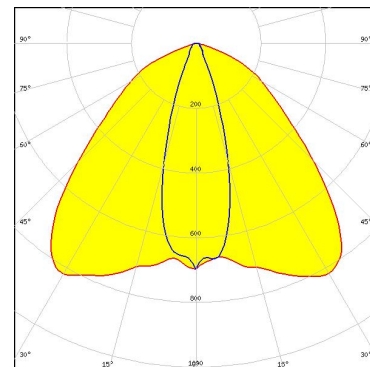


Light distribution files

OPTICAL RESULTS (SIMULATED):

SAMSUNG

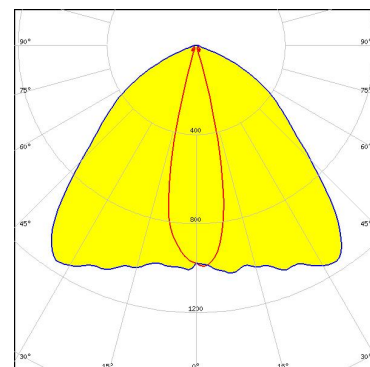
LED	LH502D
FWHM / FWTM	98.0 + 32.0° / 140.0 + 54.0°
Efficiency	89 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files



LED	Z5M4
FWHM / FWTM	24.0 + 98.0° / 34.0 + 136.0°
Efficiency	90 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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

Ledil Optics Technology (Shenzhen) Co., Ltd.

405 , Block B
Casic Motor Building
Shenzhen 518057
P.R.CHINA

Local sales and technical support

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)

Shipping locations

Poznan, Poland
Hong Kong, China

Distribution Partners

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)