IRIS-SCREW

~5° real spot beam with holder optimized for CREE XP-E. Assembly with screws.

SPECIFICATION:

Dimensions	Ø 38.0 mm
Height	26.9 mm
Fastening	glue, pin, screw
ROHS compliant	yes

MATERIALS:

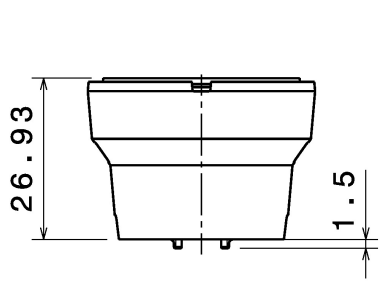
Component	Type	Material	Colour	Finish	Length
F12075_IRIS	Single lens	PMMA	clear		
C12202_IRIS-XP-HLD	Holder	PC	black		

ORDERING INFORMATION:

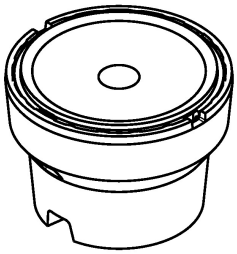
Quantities for one set:

Single lens	1
Holder	1

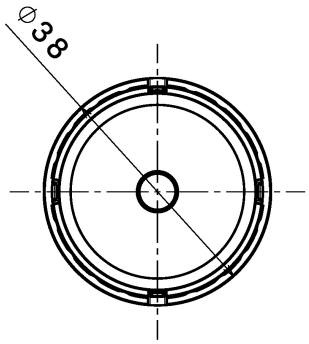
Component		Qty in box	MOQ	MPQ	Box weight (kg)
F12075_IRIS » Box size: 480 x 280 x 300 mm	Single lens	450	90	45	7.5
C12202_IRIS-XP-HLD » Box size: 480 x 280 x 300 mm	Holder	1080	90	15	7.6



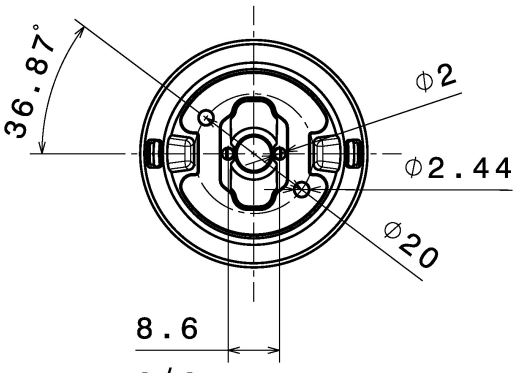
Front view



Isometric view
Scale: 1:1



Top view



Bottom view

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	F12075	IRIS	PMMA	clear
2	C12202	IRIS-XP-HLD	PC	black

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
Joensuunkatu 13
FIN 24100 SALO
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
FCN12076_IRIS-SCREW

SIZE A4

PART NUMBER
FCN12076

SCALE 1:1 | WEIGHT 19,2 g | SHEET 1/1

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

OPTICAL RESULTS (MEASURED):

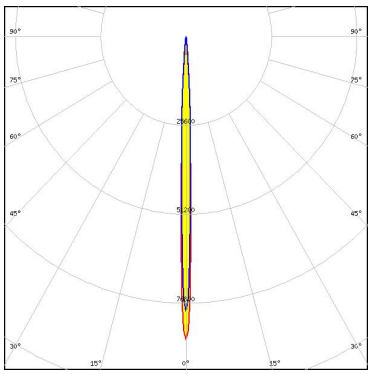
CREE LEDs

LED	XHP35 HI
FWHM / FWTM	7.6° / 17.0°
Efficiency	90 %
Peak intensity	35.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

CREE LEDs

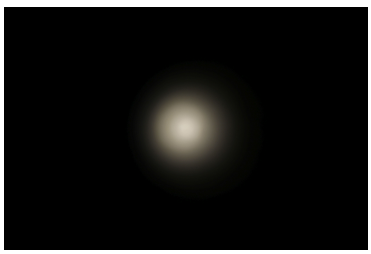
LED	XP-E
FWHM / FWTM	4.0° / 9.0°
Efficiency	93 %
Peak intensity	87.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

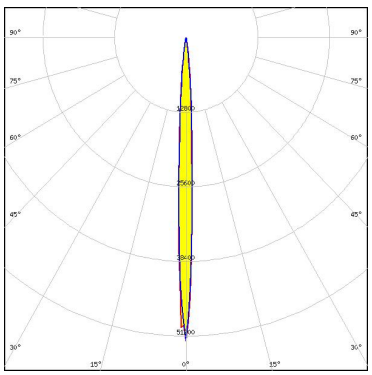


Light distribution files

CREE LEDs

LED	XP-G
FWHM / FWTM	5.0° / 13.0°
Efficiency	93 %
Peak intensity	52 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



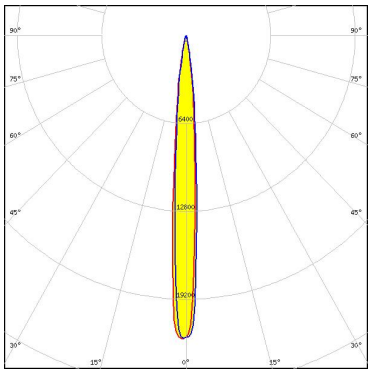


Light distribution files

OPTICAL RESULTS (MEASURED):

CREE LEDs

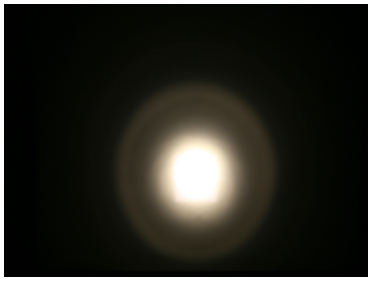
LED	XP-L HD
FWHM / FWTM	8.5° / 20.0°
Efficiency	93 %
Peak intensity	22.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

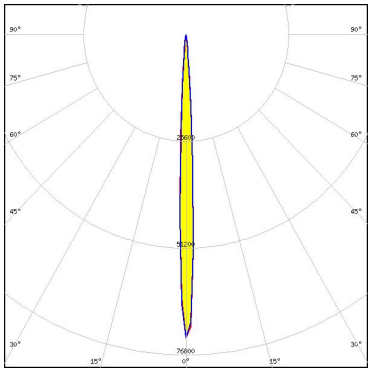


Light distribution files

LUMILEDS

LED	LUXEON Rebel
FWHM / FWTM	5.0° / 9.0°
Efficiency	93 %
Peak intensity	75.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

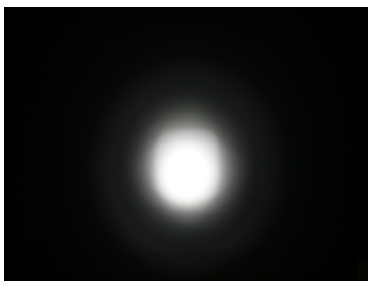


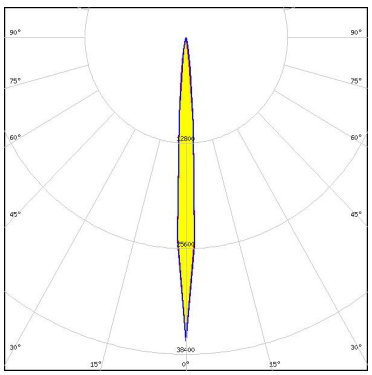


Light distribution files

LUMILEDS

LED	LUXEON Rebel ES
FWHM / FWTM	7.0° / 14.0°
Efficiency	93 %
Peak intensity	38.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



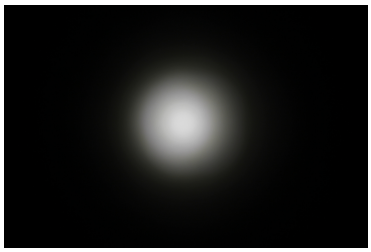


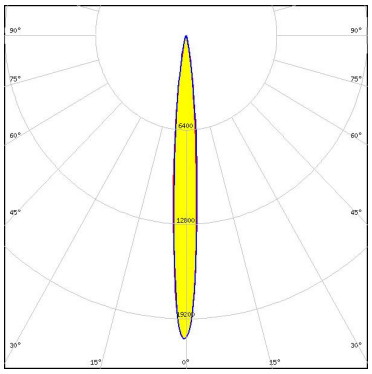
Light distribution files

OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON V
FWHM / FWTM	9.0° / 20.0°
Efficiency	92 %
Peak intensity	20.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

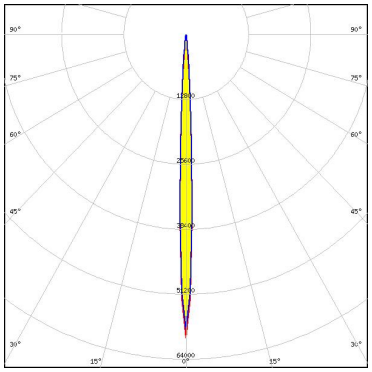




Light distribution files

NICHIA

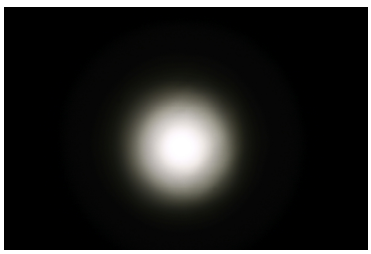
LED	NCSxx19A
FWHM / FWTM	5.0° / 11.0°
Efficiency	%
LEDs/each optic	1
Light colour/type	White
Required components:	

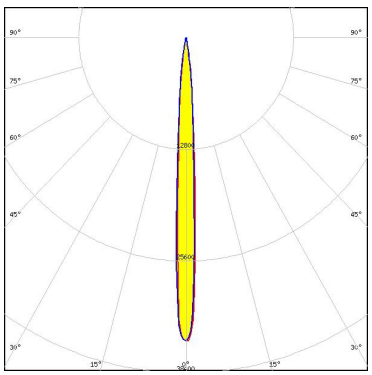


Light distribution files

NICHIA

LED	NVSW219F
FWHM / FWTM	7.0° / 17.0°
Efficiency	93 %
Peak intensity	34.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



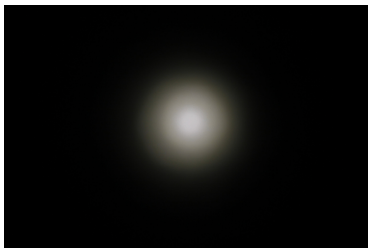


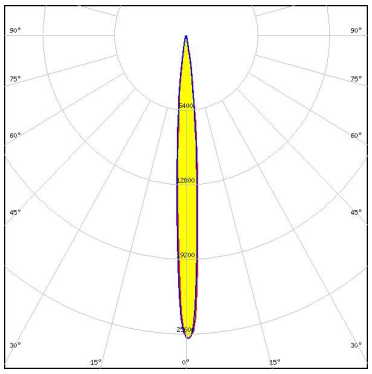
Light distribution files

OPTICAL RESULTS (MEASURED):

NICHIA

LED	NVSW3x9A
FWHM / FWTM	8.0° / 18.0°
Efficiency	90 %
Peak intensity	26.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

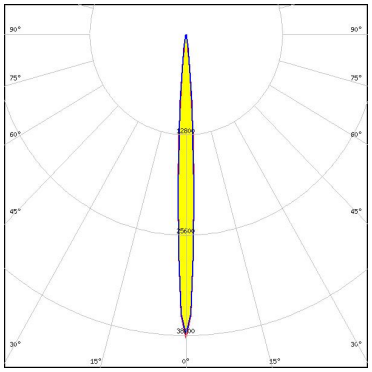




Light distribution files

NICHIA

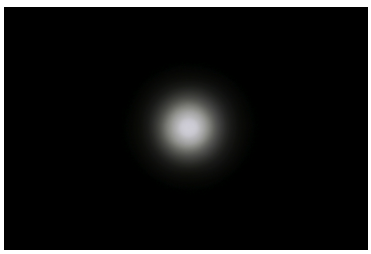
LED	NVSxx19A
FWHM / FWTM	6.0° / 14.0°
Efficiency	93 %
Peak intensity	38.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

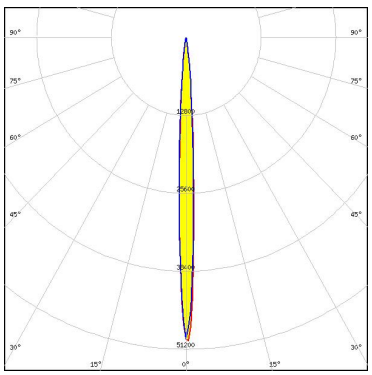


Light distribution files

OSRAM
Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	6.0° / 13.0°
Efficiency	94 %
Peak intensity	49.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



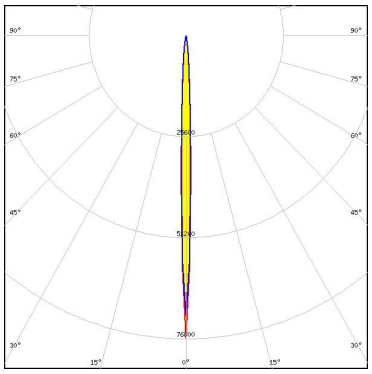


Light distribution files

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

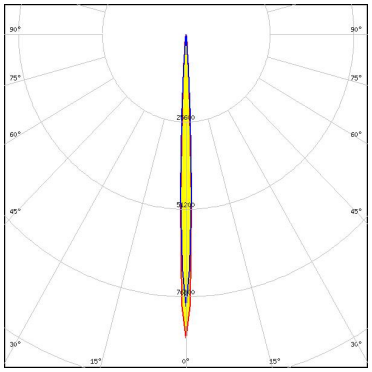
LED	OSLON SSL 150
FWHM / FWTM	4.0° / 11.0°
Efficiency	93 %
Peak intensity	76.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

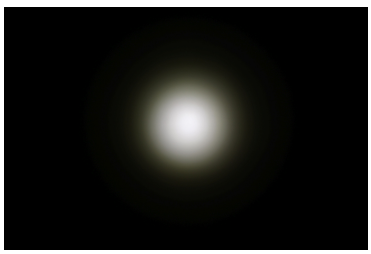
LED	OSLON SSL 80
FWHM / FWTM	4.0° / 9.0°
Efficiency	90 %
Peak intensity	89 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

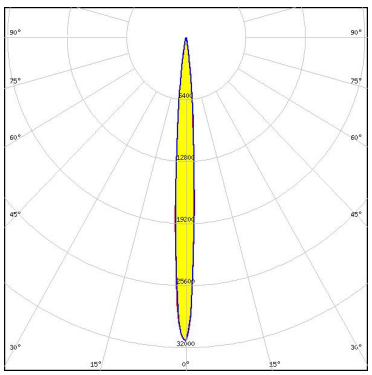


Light distribution files

SEOUL SEMICONDUCTOR

LED	Z5M3
FWHM / FWTM	7.0° / 16.0°
Efficiency	92 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



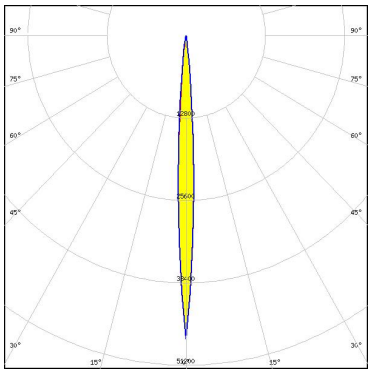


Light distribution files

OPTICAL RESULTS (SIMULATED):

CREE LEDs

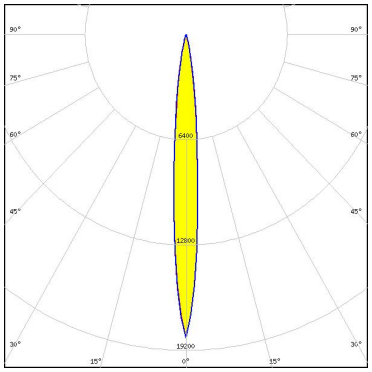
LED	XD16
FWHM / FWTM	6.0° / 14.0°
Efficiency	91 %
Peak intensity	47.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

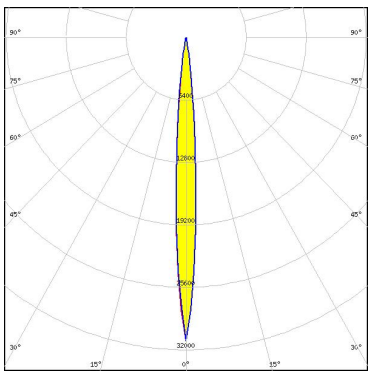
LED	XHP35 HD
FWHM / FWTM	10.0° / 22.0°
Efficiency	93 %
Peak intensity	18.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XHP35 HI
FWHM / FWTM	8.0° / 18.0°
Efficiency	94 %
Peak intensity	31.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

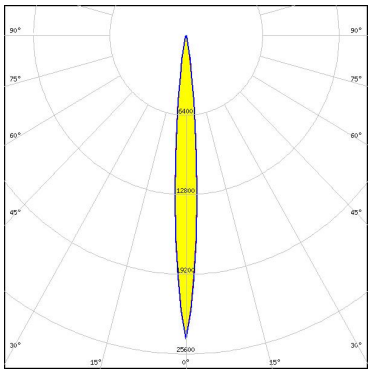


Light distribution files

OPTICAL RESULTS (SIMULATED):

CREE LEDs

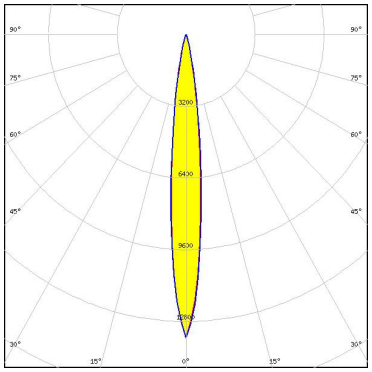
LED	XHP35.2 HD
FWHM / FWTM	8.0° / 18.0°
Efficiency	90 %
Peak intensity	24.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

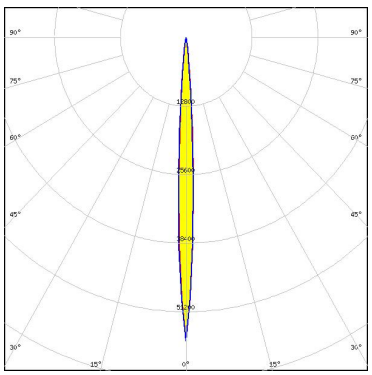
LED	XHP35.2 HD
FWHM / FWTM	12.0° / 25.0°
Efficiency	86 %
Peak intensity	13.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XP-E2
FWHM / FWTM	5.9° / 13.0°
Efficiency	94 %
Peak intensity	56.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

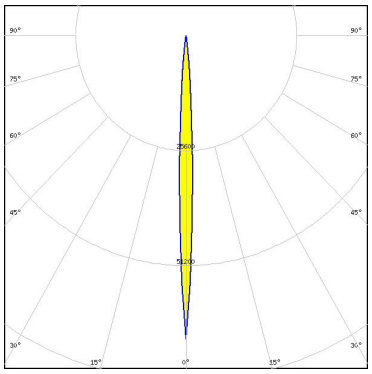


Light distribution files

OPTICAL RESULTS (SIMULATED):

CREE LEDs

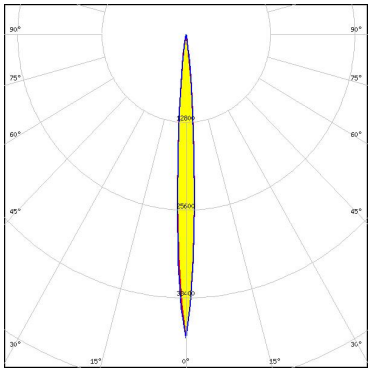
LED	XP-E2
FWHM / FWTM	6.0° / 12.0°
Efficiency	93 %
Peak intensity	67.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

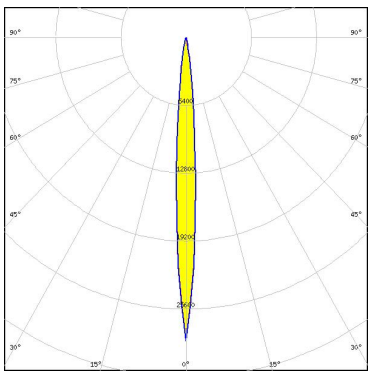
LED	XP-G2
FWHM / FWTM	6.7° / 15.0°
Efficiency	94 %
Peak intensity	44.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XP-G2 HE
FWHM / FWTM	8.0° / 18.0°
Efficiency	90 %
Peak intensity	28.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

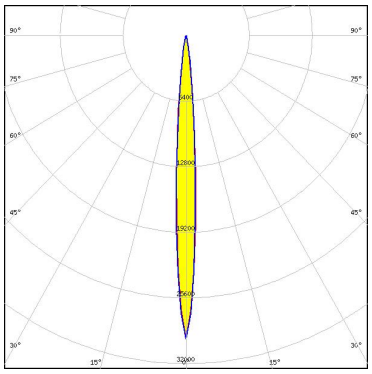


Light distribution files

OPTICAL RESULTS (SIMULATED):

CREE LEDs

LED	XP-G3
FWHM / FWTM	7.5° / 18.0°
Efficiency	91 %
Peak intensity	29.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XP-P
FWHM / FWTM	3.0° / 8.0°
Efficiency	96 %
Peak intensity	140.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

CREE LEDs

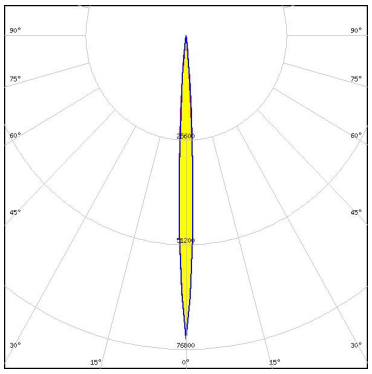
LED	XQ-E HD
FWHM / FWTM	5.0° / 11.5°
Efficiency	93 %
Peak intensity	80 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

OPTICAL RESULTS (SIMULATED):

CREE LEDs

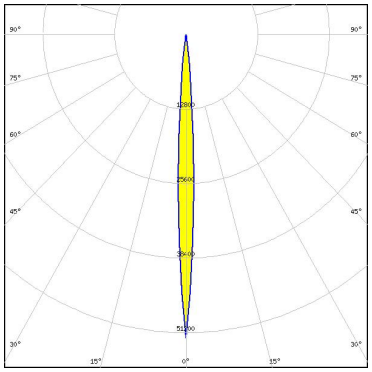
LED	XQ-E HD
FWHM / FWTM	5.5° / 12.0°
Efficiency	94 %
Peak intensity	74.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMINUS

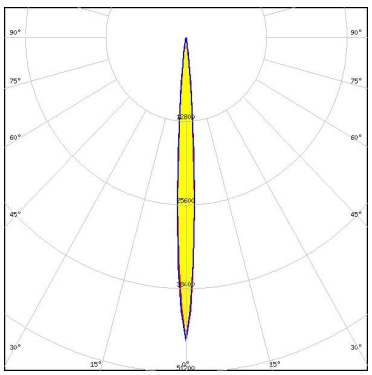
LED	SST-20
FWHM / FWTM	6.0° / 14.0°
Efficiency	94 %
Peak intensity	52.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSCONIQ P 3737 (2W version)
FWHM / FWTM	6.5° / 13.0°
Efficiency	94 %
Peak intensity	46.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

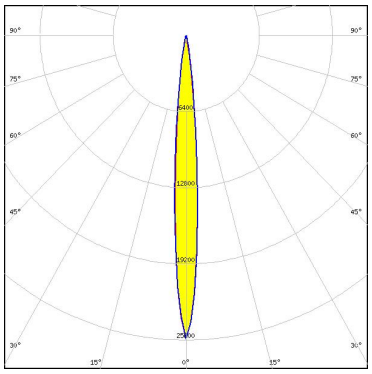


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

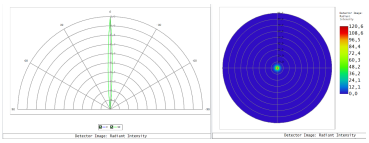
LED	OSCONIQ P 3737 (3W version)
FWHM / FWTM	9.0° / 19.0°
Efficiency	94 %
Peak intensity	25.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

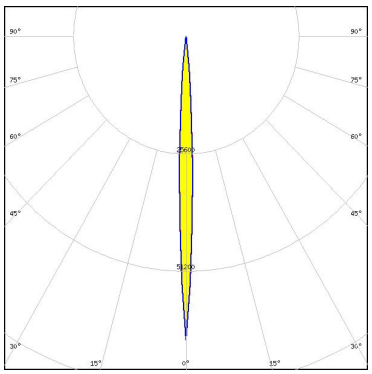


Light distribution files

OSRAM
Opto Semiconductors

LED	SFH 4716AS
FWHM / FWTM	6.0° / 12.0°
Efficiency	94 %
LEDs/each optic	1
Light colour/type	IR
Required components:	

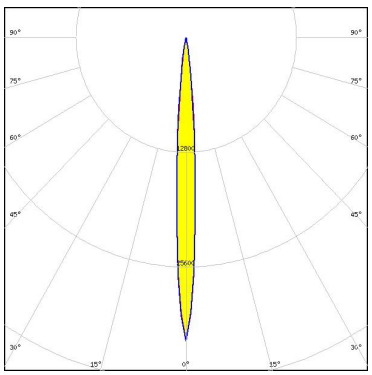




Light distribution files

SAMSUNG

LED	LH351B
FWHM / FWTM	7.4° / 17.0°
Efficiency	94 %
Peak intensity	33.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

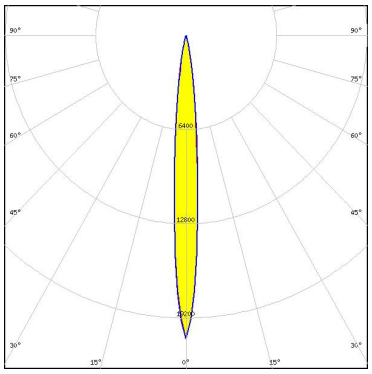


Light distribution files

OPTICAL RESULTS (SIMULATED):

SAMSUNG

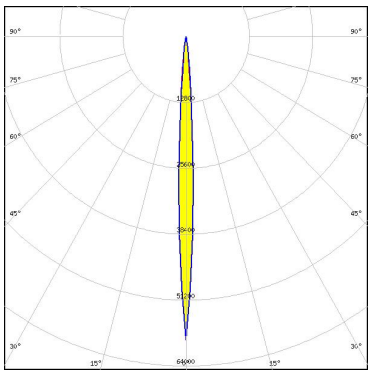
LED	LH351D
FWHM / FWTM	9.2° / 21.0°
Efficiency	90 %
Peak intensity	20.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SAMSUNG

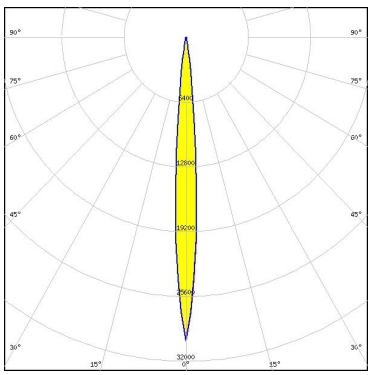
LED	LM101B
FWHM / FWTM	6.0° / 12.0°
Efficiency	92 %
Peak intensity	58.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SEOUL SEMICONDUCTOR

LED	Z8Y22P
FWHM / FWTM	8.0°
Efficiency	98 %
Peak intensity	29.9 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

Shipping locations
Poznan, Poland
Hong Kong, China

Distribution Partners
www.ledil.com/
where_to_buy