STRADELLA-IP-28-HB-W-PC

~90° wide beam. Variant made from PC.

SPECIFICATION:

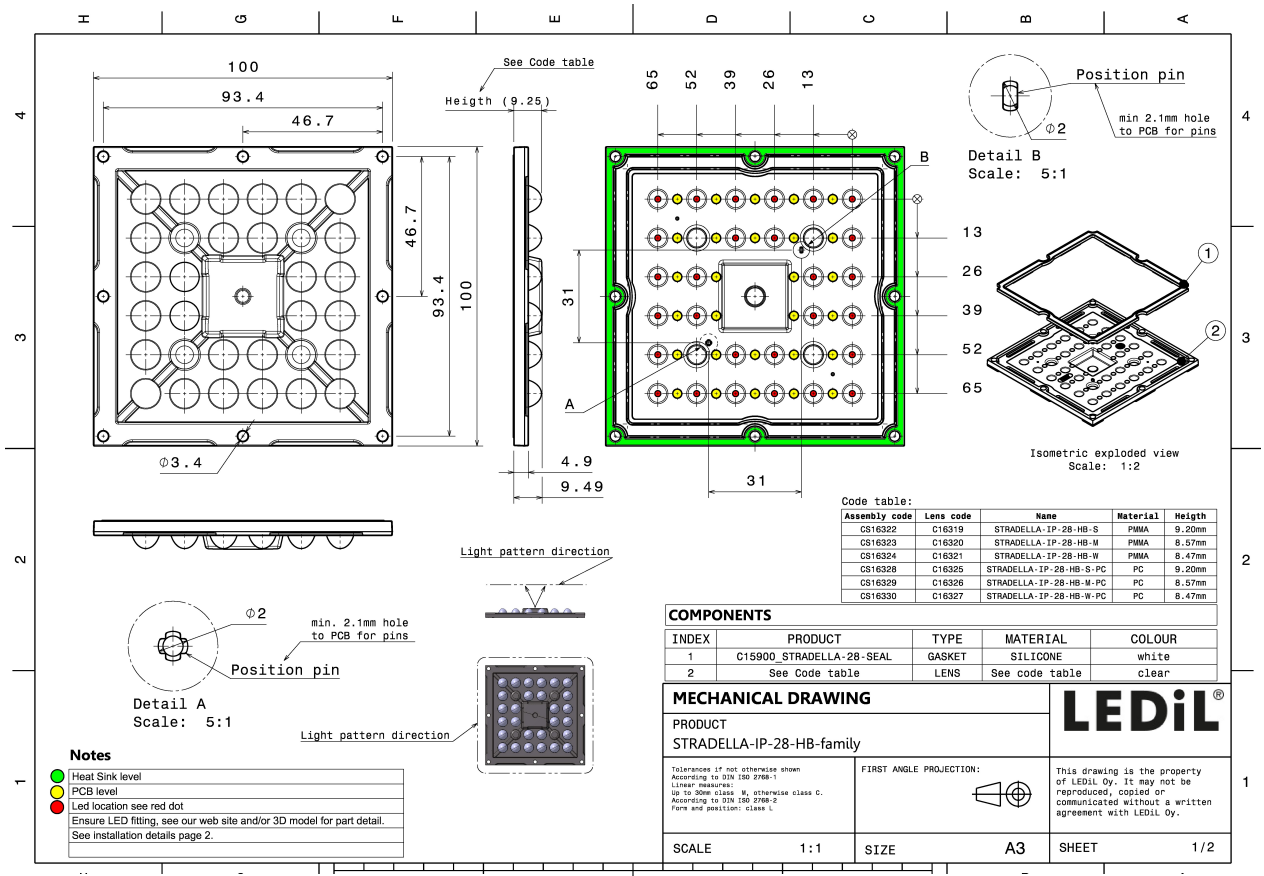
Dimensions	100.0 x 100.0 mm
Height	9.5 mm
Fastening	pin, screw
Ingress protection classes	IP66, IP67
ROHS compliant	yes

MATERIALS:

Component	Type	Material	Colour	Finish
STRADELLA-IP-28-HB-W-PC	Multi-lens	PC	clear	
STRADELLA-28-SEAL	Seal	Silicone	white	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS16330_STRADELLA-IP-28-HB-W-PC » Box size: 476 x 273 x 247 mm	Multi-lens	156	78	78	5.9



Assembly code	Lens code	Name	Material	Heigth
CS16322	C16319	STRADELLA-IP-28-HB-S	PMMA	9.20mm
CS16323	C16320	STRADELLA-IP-28-HB-M	PMMA	8.57mm
CS16324	C16321	STRADELLA-IP-28-HB-W	PMMA	8.47mm
CS16328	C16325	STRADELLA-IP-28-HB-S-PC	PC	9.20mm
CS16329	C16326	STRADELLA-IP-28-HB-M-PC	PC	8.57mm
CS16330	C16327	STRADELLA-IP-28-HB-W-PC	PC	8.47mm

COMPONENTS

INDEX	PRODUCT	TYPE	MATERIAL	COLOUR
1	C15900_STRADELLA-28-SEAL	GASKET	SILICONE	white
2	See Code table	LENS	See code table	clear

Notes

Heat Sink level
PCB level
Led location see red dot
Ensure LED fitting, see our web site and/or 3D model for part detail.
See installation details page 2.

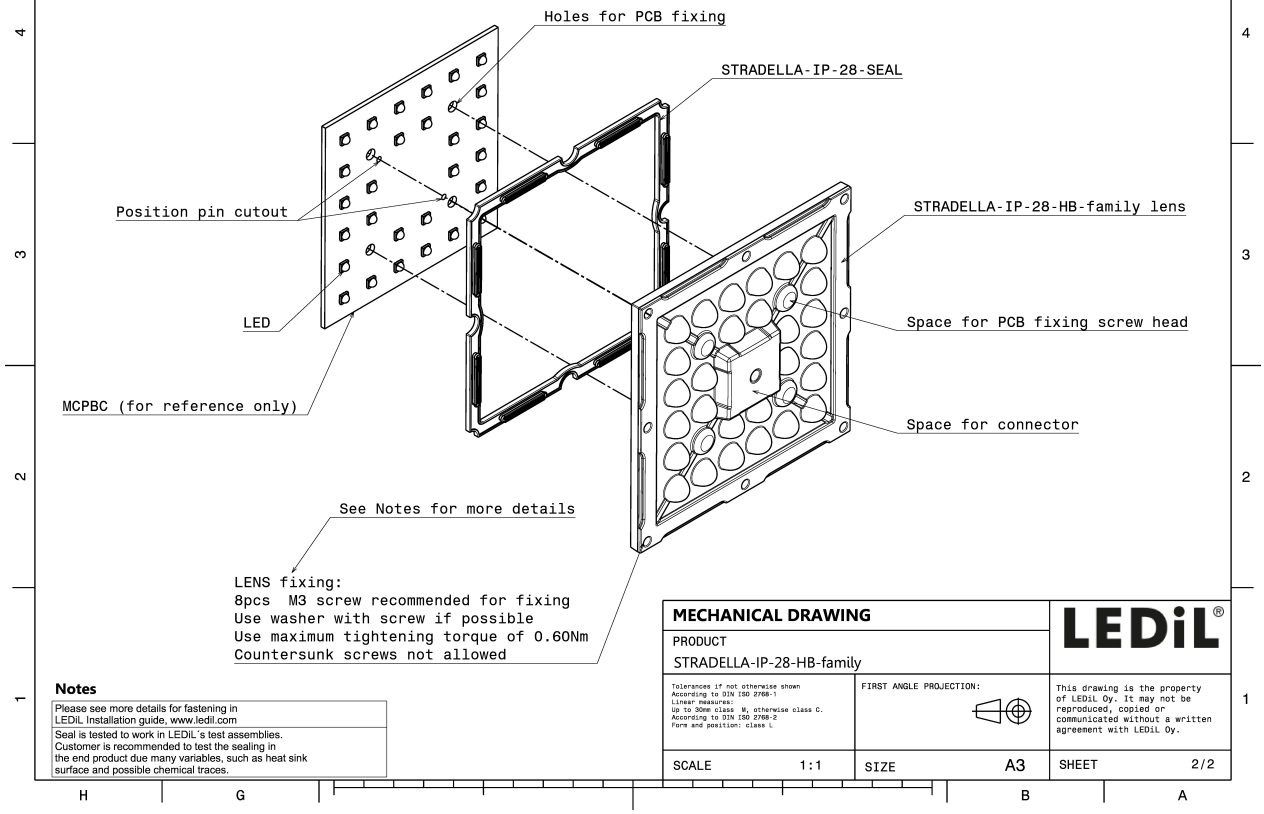
MECHANICAL DRAWING

PRODUCT
STRADELLA-IP-28-HB-family

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

FIRST ANGLE PROJECTION:

SCALE 1:1 | SIZE A3 | SHEET 1/2



Notes

Please see more details for fastening in LEDiL Installation guide, www.ledil.com
Seal is tested to work in LEDiL´s test assemblies. Customer is recommended to test the sealing in the end product due many variables, such as heat sink surface and possible chemical traces.

MECHANICAL DRAWING

PRODUCT
STRADELLA-IP-28-HB-family

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

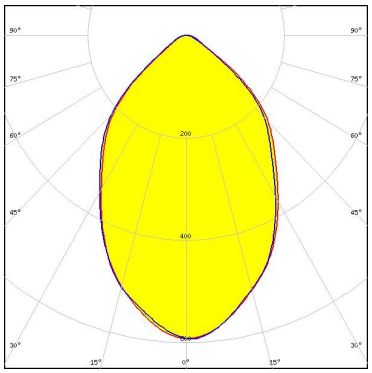
FIRST ANGLE PROJECTION:

SCALE 1:1 | SIZE A3 | SHEET 2/2

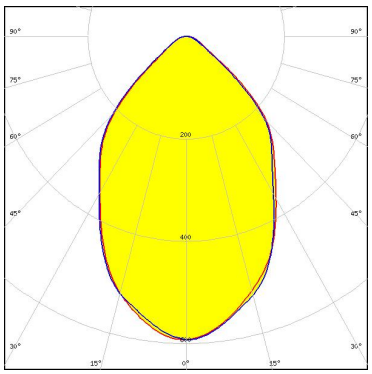
See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

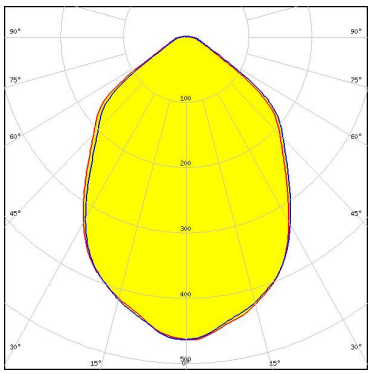
LED	HiQLED STR28 CR JE2835 4x7 xxx
FWHM / FWTM	72.0° / 115.0°
Efficiency	90 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



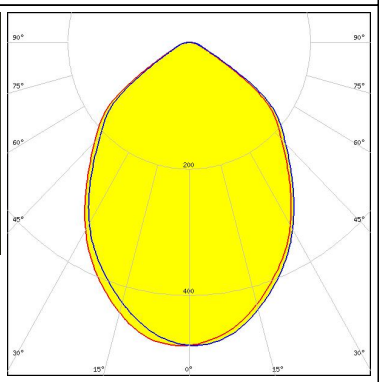
LED	HiQLED STR28 CR JK3030 4x7 xxx
FWHM / FWTM	73.0° / 113.0°
Efficiency	89 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



LED	QUICK FLUX STR28 XD2x14 xxx G8
FWHM / FWTM	82.0° / 126.0°
Efficiency	88 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



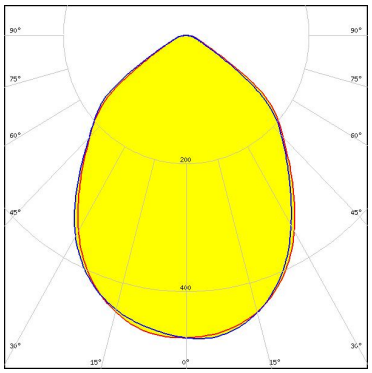
LED	QUICK FLUX STR28 XT2x14 xxx G5
FWHM / FWTM	83.0° / 126.0°
Efficiency	90 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (MEASURED):

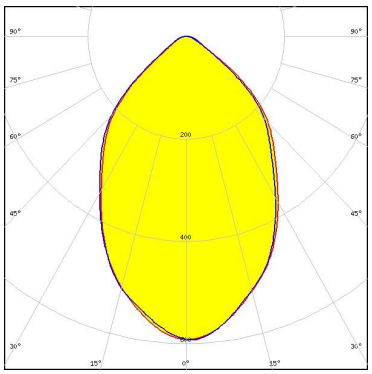
COMET ELECTRONICS

LED	QUICK FLUX STR28 XT2x14 xxx G5
FWHM / FWTM	78.0° / 128.0°
Efficiency	92 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



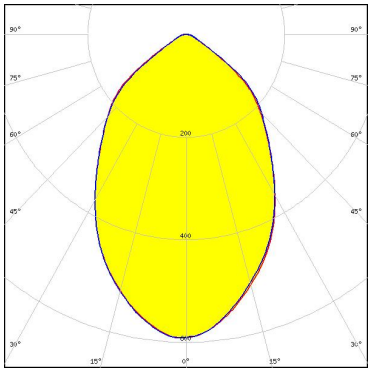
CREE LEDs

LED	J Series 2835
FWHM / FWTM	72.0° / 115.0°
Efficiency	90 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



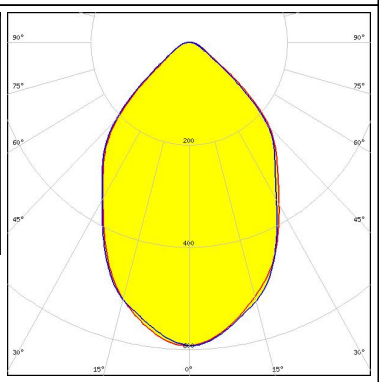
CREE LEDs

LED	J Series 3030
FWHM / FWTM	73.0° / 119.0°
Efficiency	93 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



CREE LEDs

LED	J Series 3030
FWHM / FWTM	73.0° / 113.0°
Efficiency	89 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

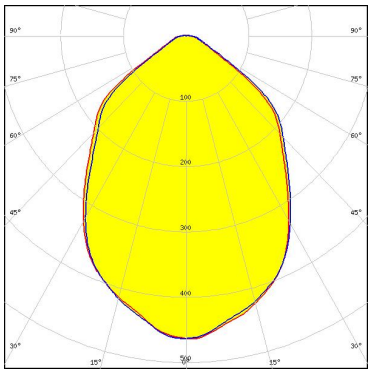


OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XD16
FWHM / FWTM	82.0° / 126.0°
Efficiency	88 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

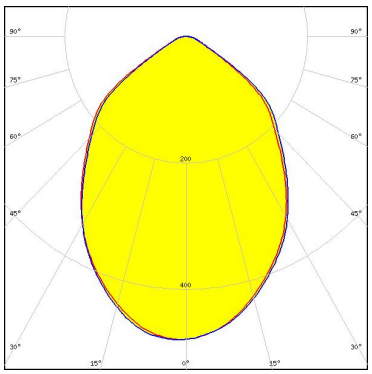
Required components:



CREE LEDs

LED	XP-G3
FWHM / FWTM	83.0° / 126.0°
Efficiency	90 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

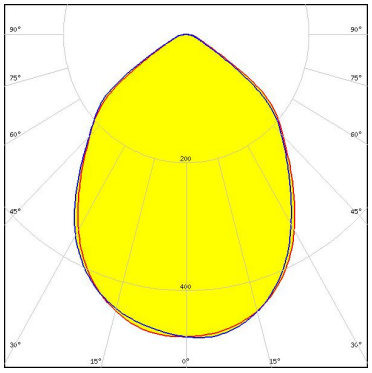
Required components:



CREE LEDs

LED	XT-E
FWHM / FWTM	86.0° / 128.0°
Efficiency	92 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

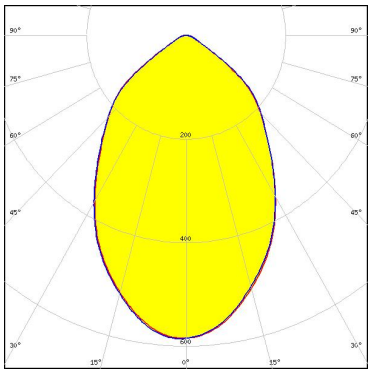
Required components:



OSRAM
Opto Semiconductors

LED	OSCONIQ S 3030 (QSLR31)
FWHM / FWTM	73.0° / 119.0°
Efficiency	92 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

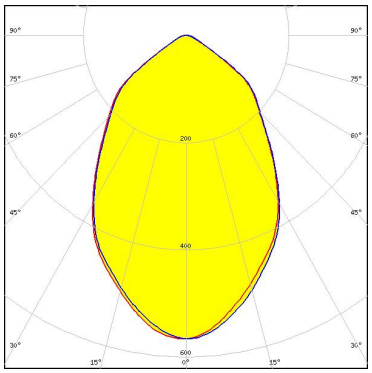


OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	73.0° / 121.0°
Efficiency	91 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White

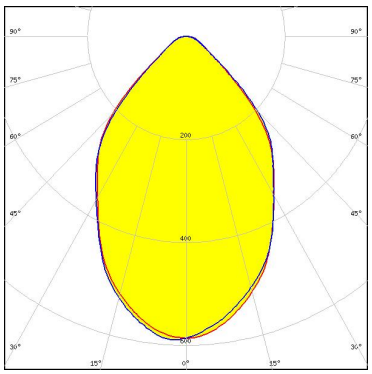
Required components:



SAMSUNG

LED	HiLOM SC28 (LH181B)
FWHM / FWTM	74.0° / 113.0°
Efficiency	88 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White

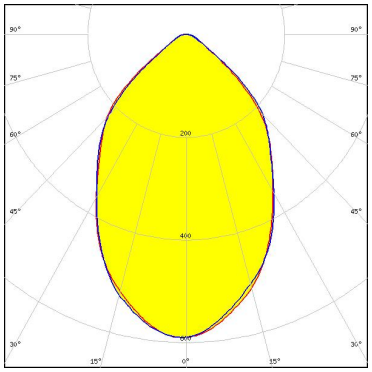
Required components:



SAMSUNG

LED	HiLOM SM28 (LM301B)
FWHM / FWTM	73.0° / 115.0°
Efficiency	90 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White

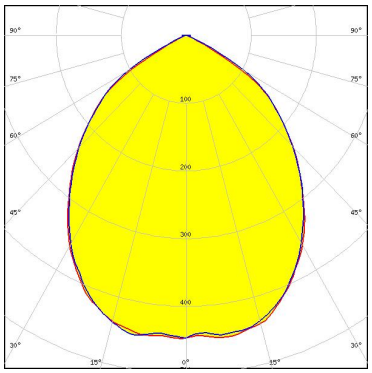
Required components:



OPTICAL RESULTS (SIMULATED):

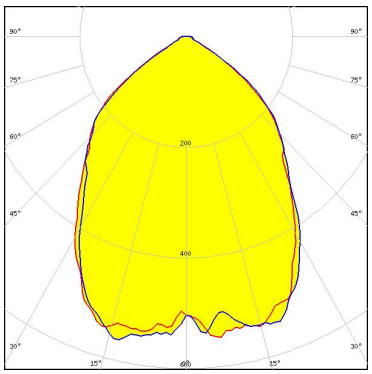
CREE LEDs

LED	XP-G2 HE
FWHM / FWTM	92.0° / 126.0°
Efficiency	91 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



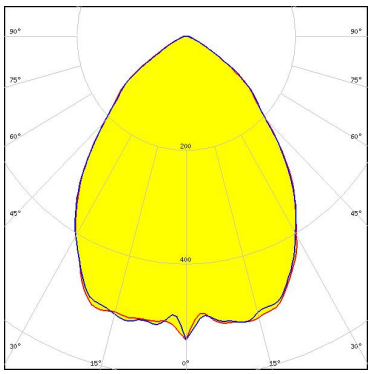
LUMILEDS

LED	LUXEON 3030 2D (Round LES)
FWHM / FWTM	76.0° / 118.0°
Efficiency	89 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



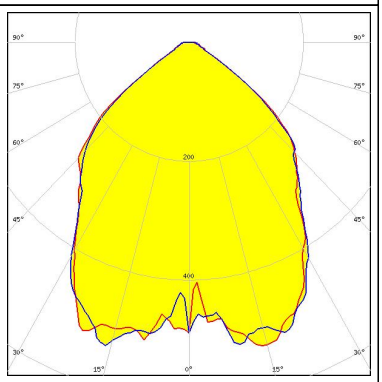
NICHIA

LED	NF2x757G
FWHM / FWTM	82.0° / 122.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



NICHIA

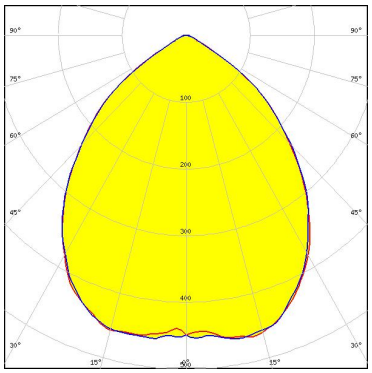
LED	NVSxE21A
FWHM / FWTM	83.0° / 118.0°
Efficiency	89 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (SIMULATED):

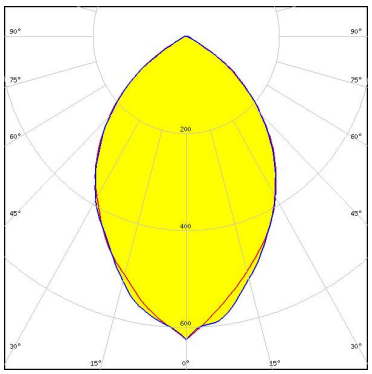
NICHIA

LED	NVSxx19B/NVSxx19C
FWHM / FWTM	90.0° / 122.0°
Efficiency	91 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



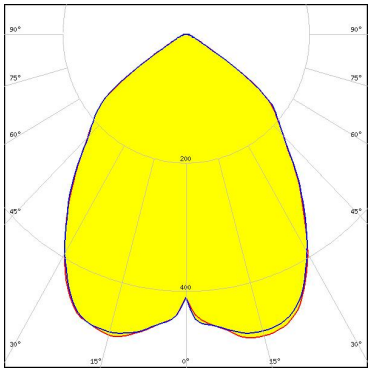
OSRAM
Opto Semiconductors

LED	Duris S8
FWHM / FWTM	74.0° / 118.0°
Efficiency	92 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



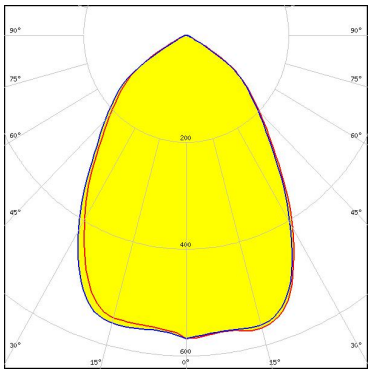
OSRAM
Opto Semiconductors

LED	OSCONIQ C 2424
FWHM / FWTM	86.0° / 120.0°
Efficiency	92 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

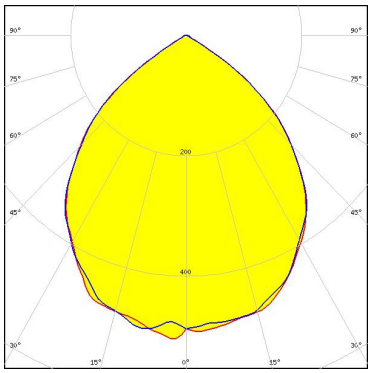
LED	OSCONIQ P 3030
FWHM / FWTM	76.0° / 120.0°
Efficiency	95 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (SIMULATED):

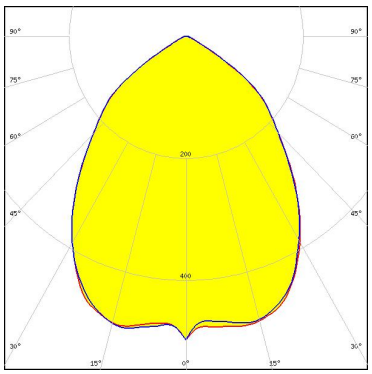
SAMSUNG

LED	LH351C
FWHM / FWTM	92.0° / 118.0°
Efficiency	93 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



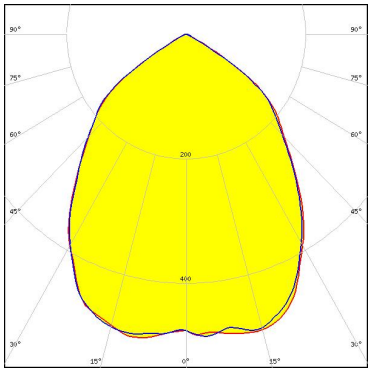
SEOUL SEMICONDUCTOR

LED	SEOUL 3030
FWHM / FWTM	85.0° / 121.0°
Efficiency	92 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



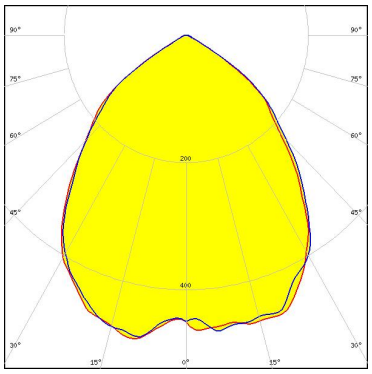
SEOUL SEMICONDUCTOR

LED	SEOUL DC 3030C
FWHM / FWTM	86.0° / 122.0°
Efficiency	93 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SEOUL SEMICONDUCTOR

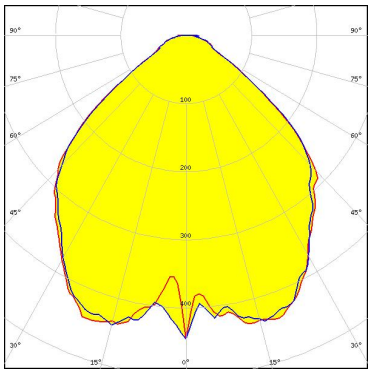
LED	Z5M1/Z5M2
FWHM / FWTM	88.0° / 121.0°
Efficiency	92 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (SIMULATED):

SEOUL SEMICONDUCTOR

LED	Z8Y22
FWHM / FWTM	95.0° / 128.0°
Efficiency	89 %
Peak intensity	0.5 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.

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