FLORENTINA-1-SS

~16° smooth spot beam

SPECIFICATION:

Dimensions	39.7 x 39.7 mm
Height	13 mm
Fastening	tape
ROHS compliant	yes

MATERIALS:

Component	Type	Material	Colour	Finish
ROSE-CMC-SS	Single lens	PC	clear	
FLORENTINA-1-HLD	Holder	PC	black	
ROSE-TAPE	Tape	Acrylic foam	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FCA15448_FLORENTINA-1-SS » Box size: 480 x 280 x 300 mm	Single lens	840		60	7.9

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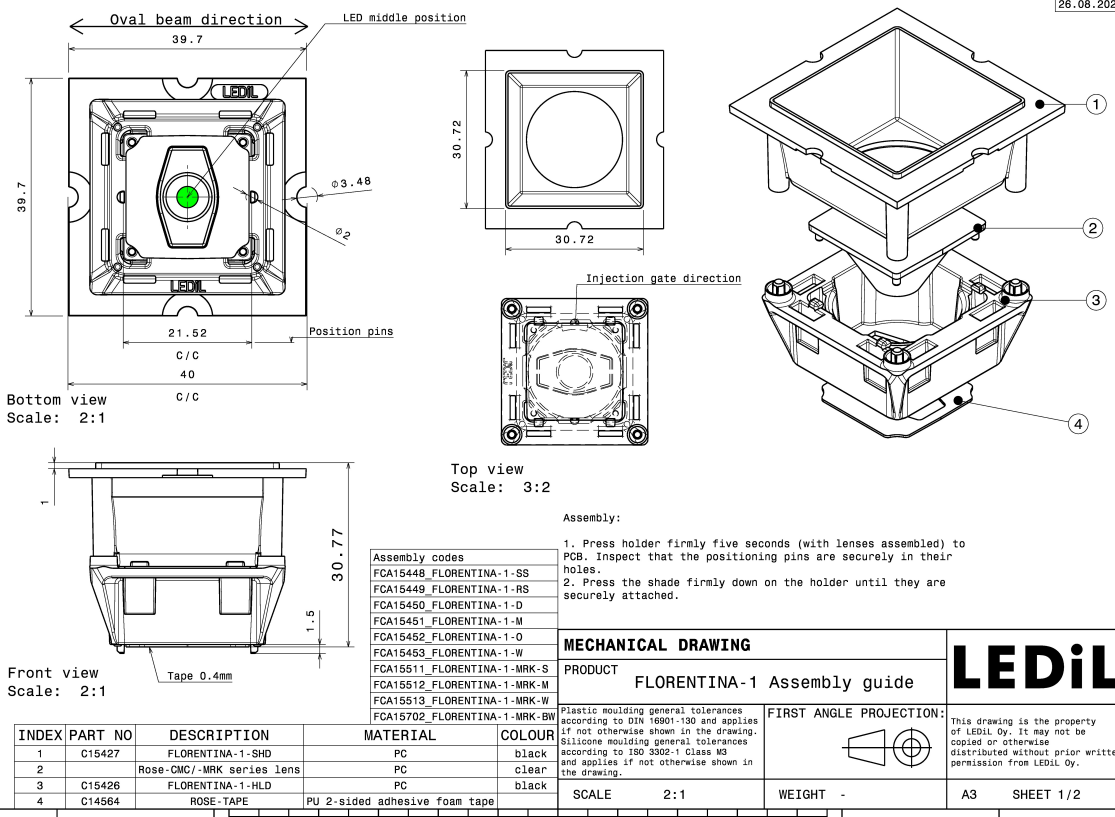

Assembly codes
FCA15448_FLORENTINA-1-SS
FCA15449_FLORENTINA-1-RS
FCA15450_FLORENTINA-1-D
FCA15451_FLORENTINA-1-M
FCA15452_FLORENTINA-1-O
FCA15453_FLORENTINA-1-W
FCA15511_FLORENTINA-1-MRK-S
FCA15512_FLORENTINA-1-MRK-M
FCA15513_FLORENTINA-1-MRK-W
FCA15702_FLORENTINA-1-MRK-BW

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C15427	FLORENTINA-1-SHD	PC	black
2		Rose-CMC/-MRK series lens	PC	clear
3	C15426	FLORENTINA-1-HLD	PC	black
4	C14564	ROSE-TAPE	PU 2-sided adhesive foam tape	

MECHANICAL DRAWING

PRODUCT: FLORENTINA-1 Assembly guide

LEDiL

Plastic moulding general tolerances according to DIN 16901-130 and applies if not otherwise shown in the drawing. Silicone moulding general tolerances according to ISO 3302-1 Class M3 and applies if not otherwise shown in the drawing.

FIRST ANGLE PROJECTION:

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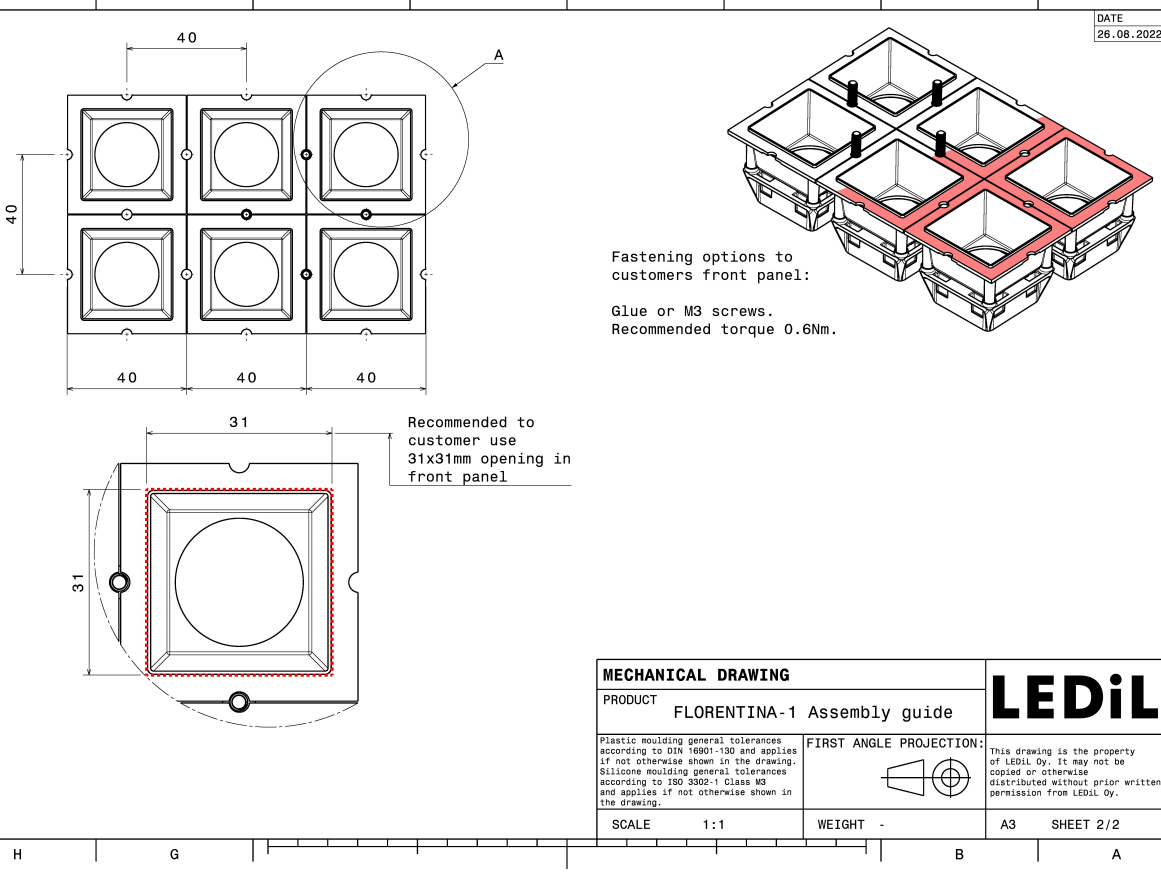
SCALE 2:1 | WEIGHT - | A3 | SHEET 1/2



MECHANICAL DRAWING

PRODUCT: FLORENTINA-1 Assembly guide

LEDiL

Plastic moulding general tolerances according to DIN 16901-130 and applies if not otherwise shown in the drawing. Silicone moulding general tolerances according to ISO 3302-1 Class M3 and applies if not otherwise shown in the drawing.

FIRST ANGLE PROJECTION:

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SCALE 1:1 | WEIGHT - | A3 | SHEET 2/2

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

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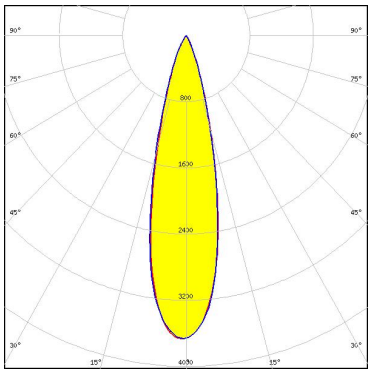
OPTICAL RESULTS (MEASURED):

bridgelux

LED	Bridgelux SMD 5050
FWHM / FWTM	25.0° / 46.0°
Efficiency	82 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour	White

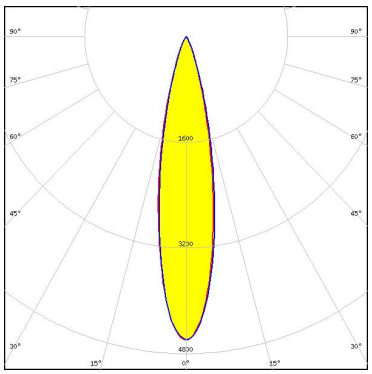
Required components:
C15427_FLORENTINA-1-SHD-60



CREE LEDs

LED	XHP35 HD
FWHM / FWTM	21.0° / 42.0°
Efficiency	80 %
Peak intensity	4.6 cd/lm
LEDs/each optic	1
Light colour	White

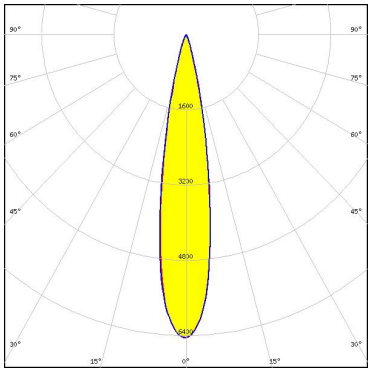
Required components:
C15427_FLORENTINA-1-SHD-60



CREE LEDs

LED	XHP35 HI
FWHM / FWTM	19.0° / 33.0°
Efficiency	80 %
Peak intensity	6.5 cd/lm
LEDs/each optic	1
Light colour	White

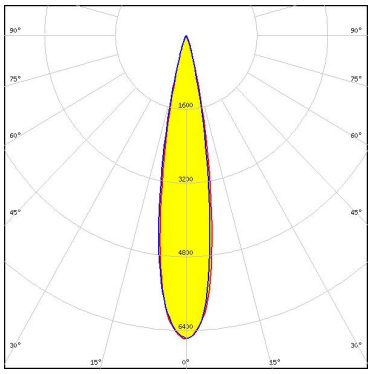
Required components:
C15427_FLORENTINA-1-SHD-60



CREE LEDs

LED	XP-G2
FWHM / FWTM	19.0° / 33.0°
Efficiency	80 %
Peak intensity	6.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C15427_FLORENTINA-1-SHD-60



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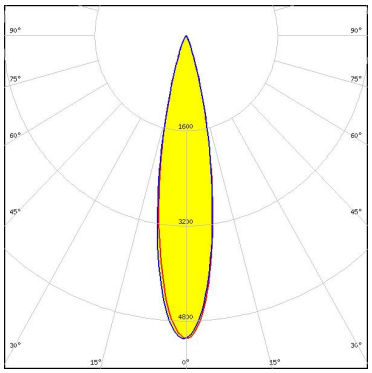
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XP-L HD
FWHM / FWTM	21.0° / 38.0°
Efficiency	79 %
Peak intensity	5.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C15427_FLORENTINA-1-SHD-60

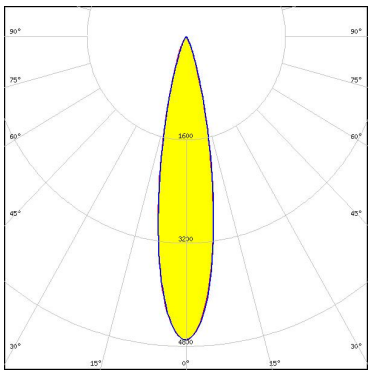


CREE LEDs

LED	XP-L2
FWHM / FWTM	21.0° / 40.0°
Efficiency	78 %
Peak intensity	4.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C15427_FLORENTINA-1-SHD-60

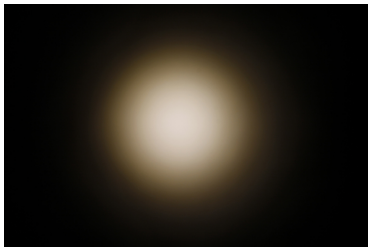


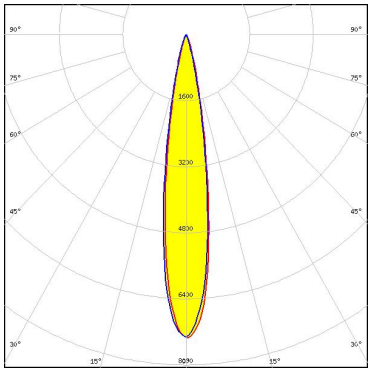
CREE LEDs

LED	XT-E
FWHM / FWTM	17.0° / 31.0°
Efficiency	78 %
Peak intensity	7.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C15427_FLORENTINA-1-SHD-60

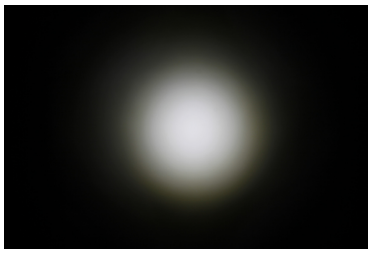


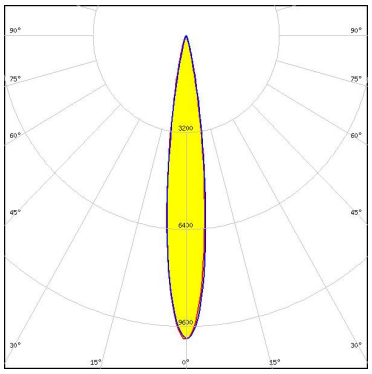


LUMILEDS

LED	LUXEON 3030 2D (Round LES)
FWHM / FWTM	15.0° / 27.0°
Efficiency	82 %
Peak intensity	10 cd/lm
LEDs/each optic	1
Light colour	White

Required components:





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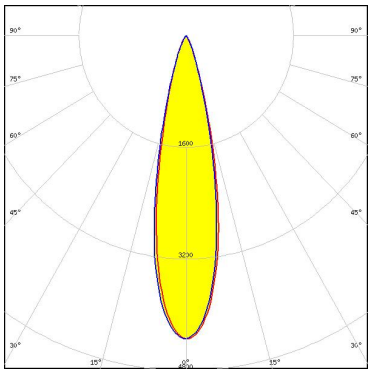
OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON 5050 Round LES
FWHM / FWTM	23.0° / 42.0°
Efficiency	83 %
Peak intensity	4.4 cd/lm
LEDs/each optic	1
Light colour	White

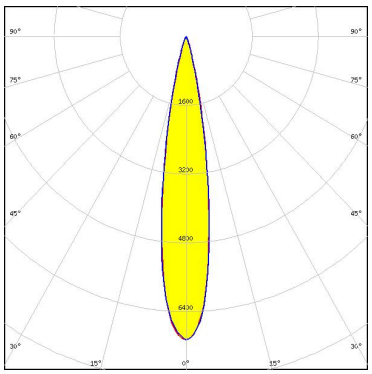
Required components:
C15427_FLORENTINA-1-SHD-60



LUMILEDS

LED	LUXEON TX
FWHM / FWTM	18.0° / 32.0°
Efficiency	80 %
Peak intensity	7.1 cd/lm
LEDs/each optic	1
Light colour	White

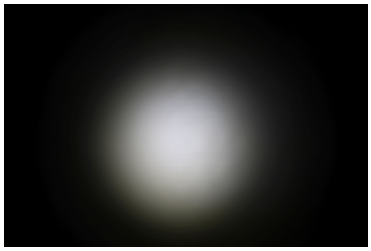
Required components:
C15427_FLORENTINA-1-SHD-60

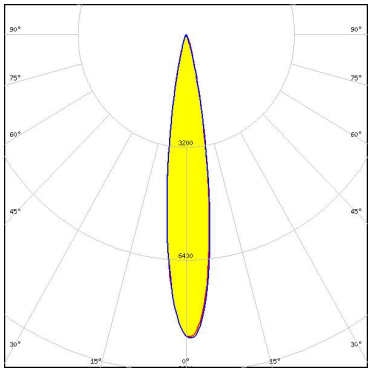


NICHIA

LED	NF2x757G
FWHM / FWTM	16.0° / 30.0°
Efficiency	85 %
Peak intensity	8.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C16701_FLORENTINA-1-SHD-60-WHT

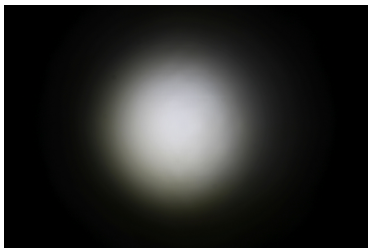


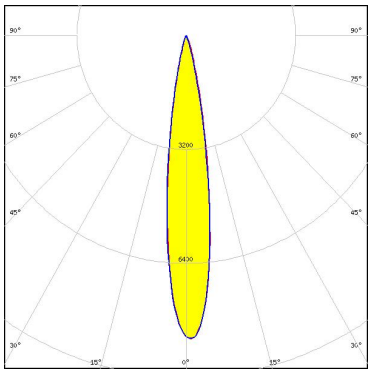


NICHIA

LED	NF2x757G
FWHM / FWTM	16.0° / 30.0°
Efficiency	84 %
Peak intensity	8.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C15427_FLORENTINA-1-SHD-60





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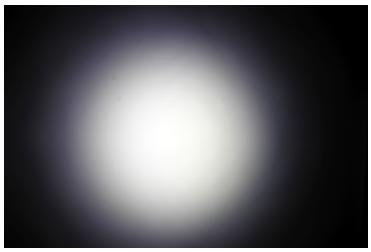
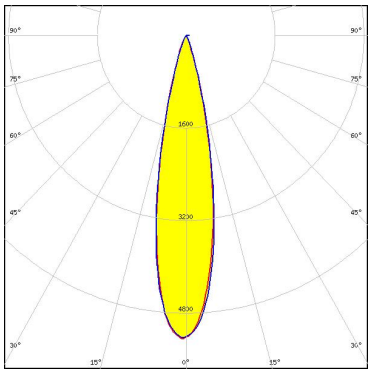
OPTICAL RESULTS (MEASURED):

NICHIA

LED	NVSW319B
FWHM / FWTM	22.0° / 37.0°
Efficiency	84 %
Peak intensity	5.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C15427_FLORENTINA-1-SHD-60

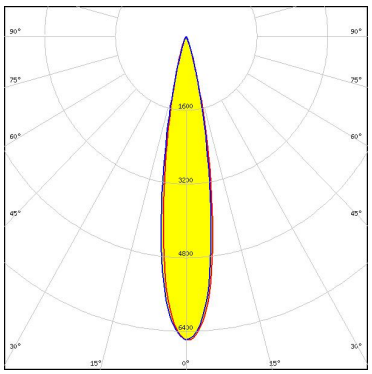




NICHIA

LED	NVSxx19B/NVSxx19C
FWHM / FWTM	19.0° / 33.0°
Efficiency	81 %
Peak intensity	6.6 cd/lm
LEDs/each optic	1
Light colour	White

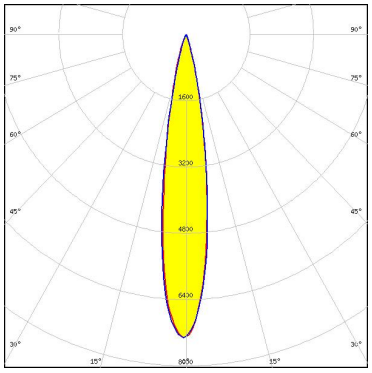
Required components:
C15427_FLORENTINA-1-SHD-60



OSRAM
Opto Semiconductors

LED	OSLON Square EC
FWHM / FWTM	17.0° / 33.0°
Efficiency	81 %
Peak intensity	7.3 cd/lm
LEDs/each optic	1
Light colour	White

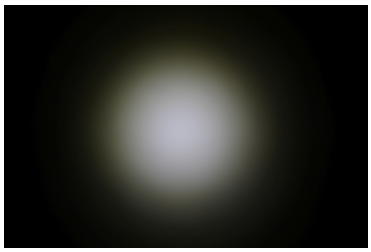
Required components:
C15427_FLORENTINA-1-SHD-60

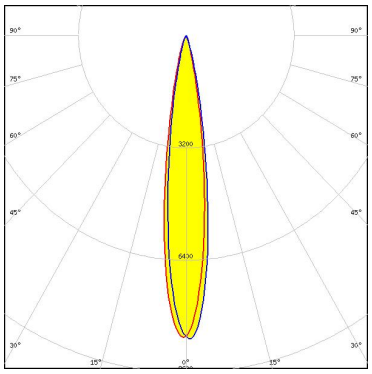


SAMSUNG

LED	LM561B
FWHM / FWTM	15.0° / 30.0°
Efficiency	84 %
Peak intensity	8.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C15427_FLORENTINA-1-SHD-60





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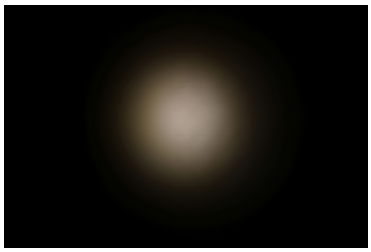
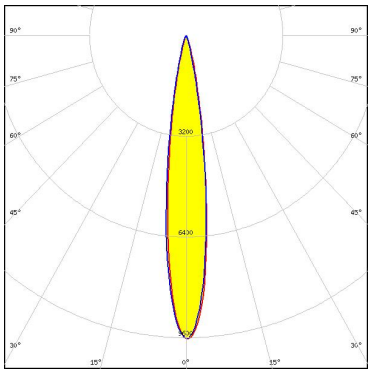
OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

LED	SEOUL 5630
FWHM / FWTM	15.0° / 29.0°
Efficiency	86 %
Peak intensity	9.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



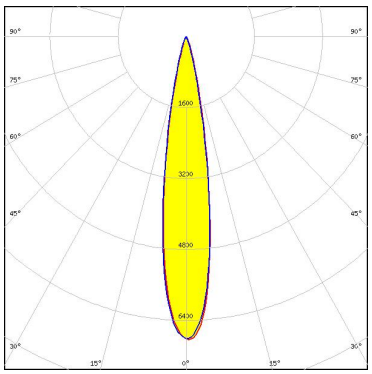


SEOUL SEMICONDUCTOR

LED	Z8Y22P
FWHM / FWTM	18.0° / 32.0°
Efficiency	77 %
Peak intensity	6.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C15427_FLORENTINA-1-SHD-60



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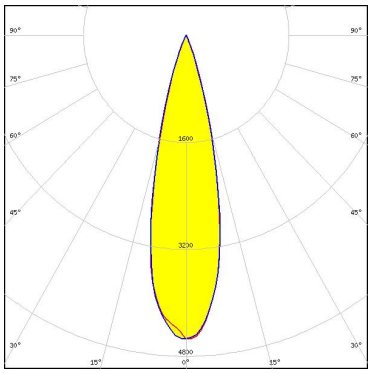
OPTICAL RESULTS (SIMULATED):

CREE LEDs

LED	XP-G2 HE
FWHM / FWTM	25.0° / 42.0°
Efficiency	90 %
Peak intensity	4.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C15427_FLORENTINA-1-SHD-60



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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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