TINA2-O

~35° + 15° oval beam optimized for CREE XP-E. Assembly with holder, installation tape and location pins.

TECHNICAL SPECIFICATIONS:

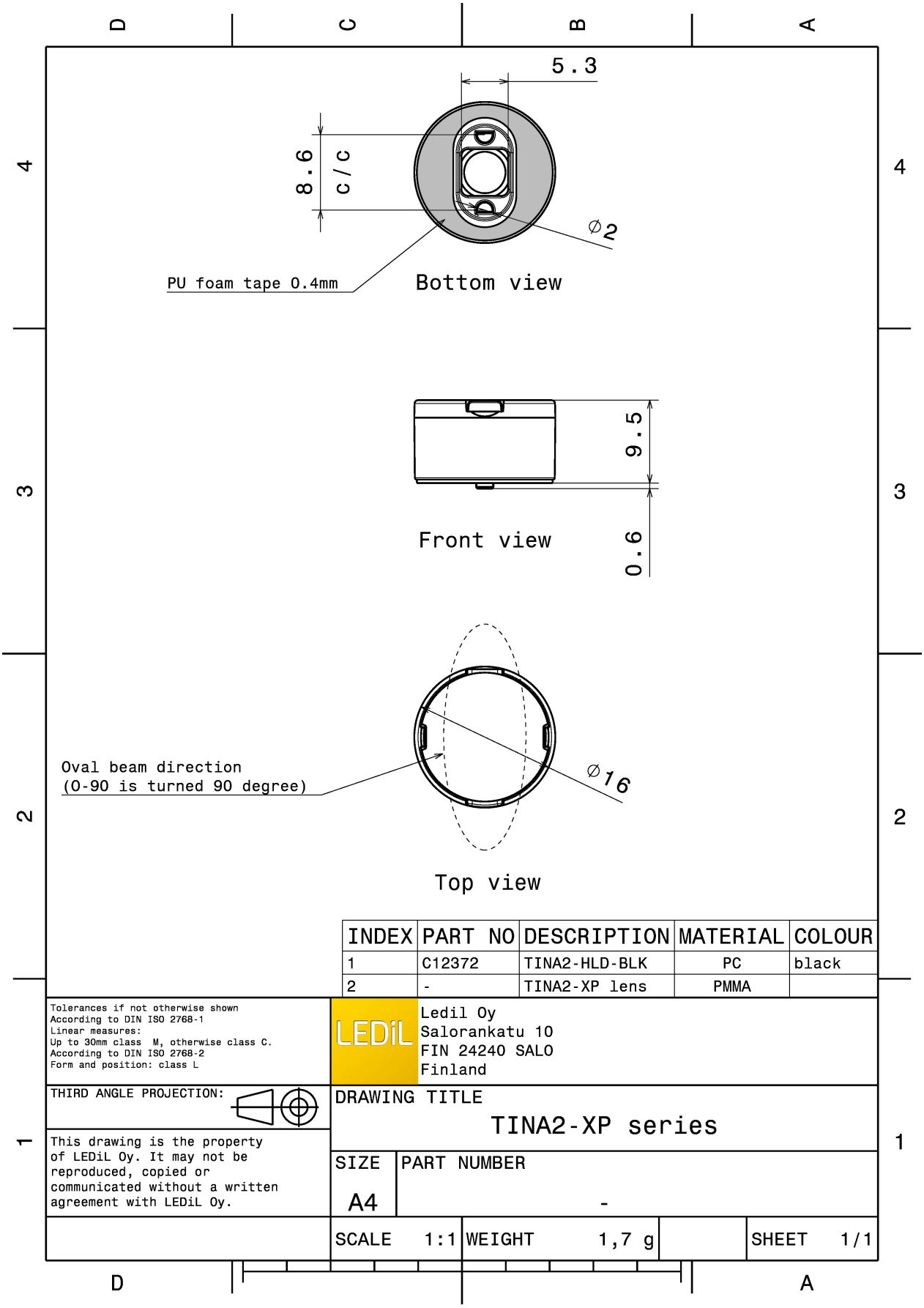
Dimensions	Ø 16.0 mm
Height	9.5 mm
Fastening	tape, pin
ROHS compliant	yes

MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
TINA2-XP-O	Single lens	PMMA	clear	
TINA2-HLD-BLK	Holder	PC	black	
TINA-TAPE3	Tape	PU tape	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA12379_TINA2-O » Box size: 451 x 241 x 298 mm	Single lens	4140	230	230	8.5



INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C12372	TINA2-HLD-BLK	PC	black
2	-	TINA2-XP lens	PMMA	

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
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
TINA2-XP series

SIZE A4 | PART NUMBER -

SCALE 1:1 | WEIGHT 1,7 g | SHEET 1/1

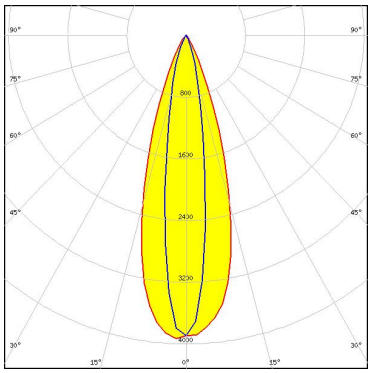
See also our general installation guide: www.ledil.com/installation_guide

PHOTOMETRIC DATA (MEASURED):

CREE

LED	XB-H
FWHM	34.0 + 17.0°
Efficiency	84 %
Peak intensity	3.9 cd/lm
LEDs/each optic	1
Light colour	White

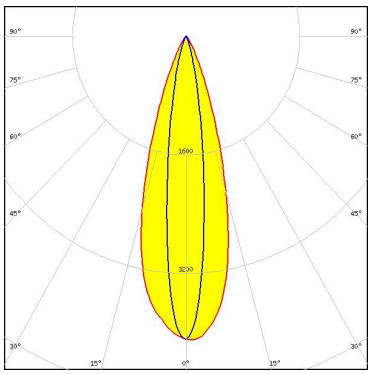
Required components:



CREE

LED	XD16
FWHM	32.0 + 15.0°
Efficiency	80 %
Peak intensity	4.1 cd/lm
LEDs/each optic	1
Light colour	White

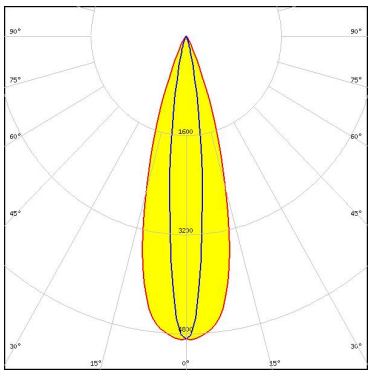
Required components:



CREE

LED	XQ-E HI
FWHM	33.0 + 13.0°
Efficiency	80 %
Peak intensity	5 cd/lm
LEDs/each optic	1
Light colour	White

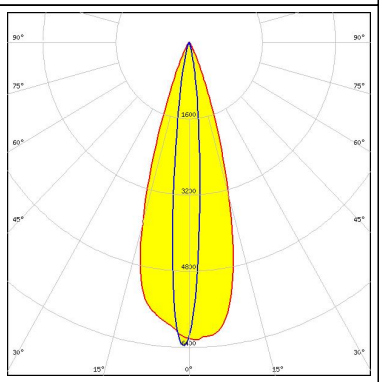
Required components:



LUMILEDS

LED	LUXEON CZ
FWHM	32.0 + 10.0°
Efficiency	88 %
Peak intensity	6.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

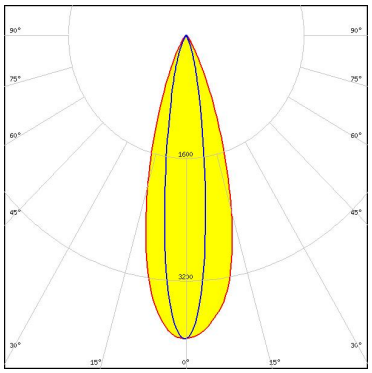


PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON TX
FWHM	32.0 + 16.0°
Efficiency	85 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour	White

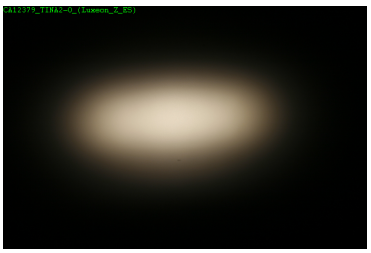
Required components:

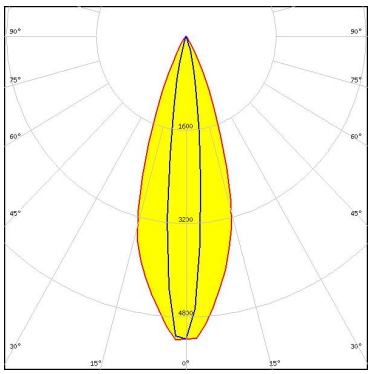


LUMILEDS

LED	LUXEON Z ES
FWHM	36.0 + 13.0°
Efficiency	85 %
Peak intensity	5.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

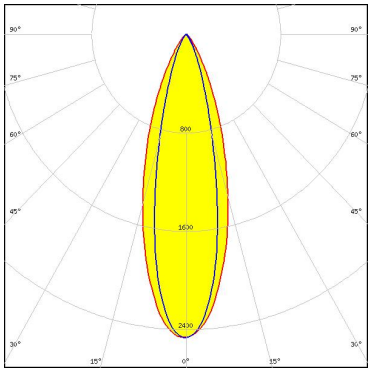




NICHIA

LED	NWSx229A
FWHM	33.0 + 24.0°
Efficiency	82 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White

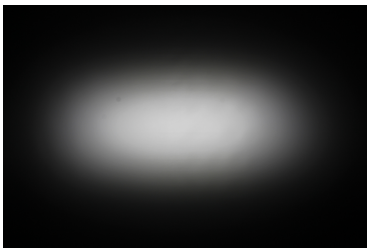
Required components:

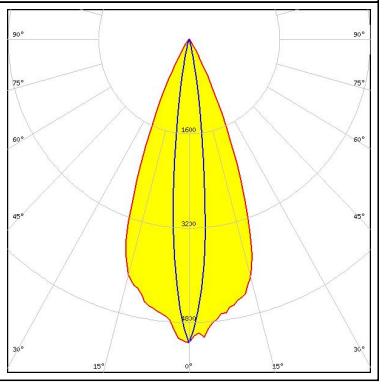


OSRAM
Opto Semiconductors

LED	OSLON Black Flat
FWHM	31.0 + 12.0°
Efficiency	87 %
Peak intensity	6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



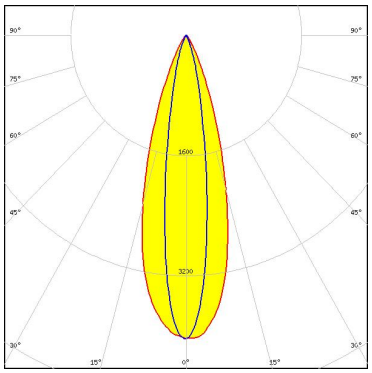


PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM	32.0 + 16.0°
Efficiency	87 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour	White

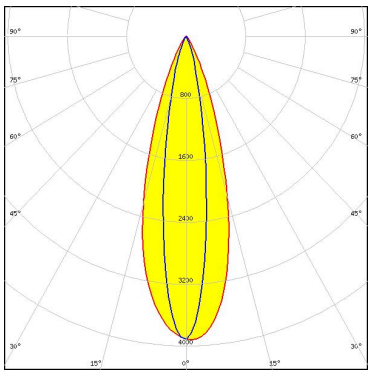
Required components:



OSRAM
Opto Semiconductors

LED	OSLON Square EC
FWHM	33.0 + 17.0°
Efficiency	84 %
Peak intensity	3.9 cd/lm
LEDs/each optic	1
Light colour	White

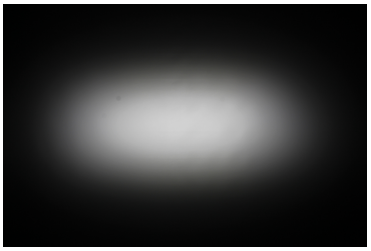
Required components:

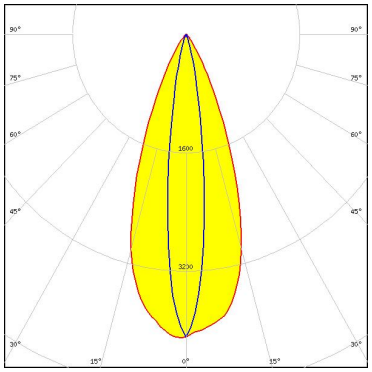


OSRAM
Opto Semiconductors

LED	OSLON Square Flat
FWHM	31.0 + 12.0°
Efficiency	87 %
Peak intensity	5.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:





OSRAM
Opto Semiconductors

LED	OSLON Square PC
FWHM	33.0 + 13.0°
Efficiency	87 %
Peak intensity	3.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

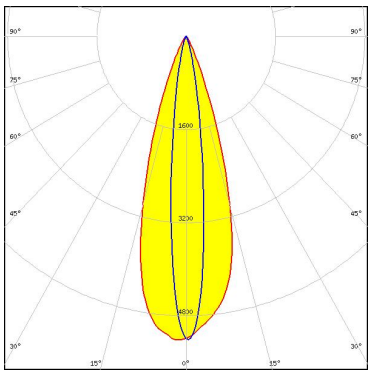
LED	OSLON SSL 150
FWHM	38.0 + 13.0°
Efficiency	87 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

OSRAM
Opto Semiconductors

LED	OSLON SSL 150
FWHM	33.0 + 13.0°
Efficiency	86 %
Peak intensity	5.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



OSRAM
Opto Semiconductors

LED	OSLON SSL 80
FWHM	35.0 + 12.0°
Efficiency	86 %
Peak intensity	3.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

OSRAM
Opto Semiconductors

LED	SFH 4170S
FWHM	30.0 + 10.0°
Efficiency	%
LEDs/each optic	1
Light colour	IR

Required components:

PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

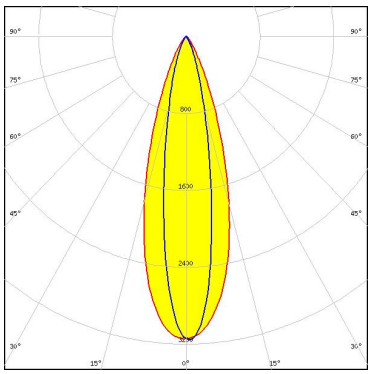
LED	SFH 4180S
FWHM	31.0 + 10.0°
Efficiency	%
LEDs/each optic	1
Light colour	IR

Required components:

SEOUL SEMICONDUCTOR

LED	Z5M3
FWHM	33.0 + 19.0°
Efficiency	82 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour	White

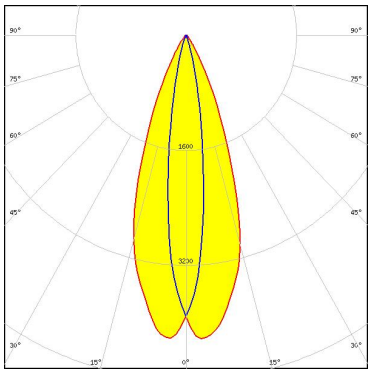
Required components:



PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

LED	LUXEON C
FWHM	14.0 + 37.0°
Efficiency	93 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

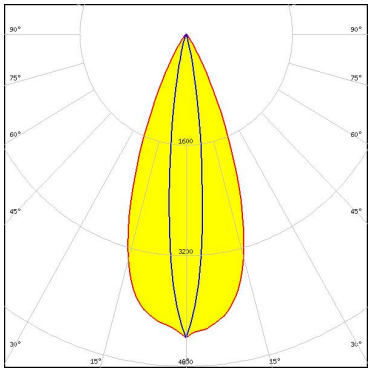


LUMILEDS

LED	LUXEON IR Compact
FWHM	37.0 + 13.0°
Efficiency	82 %
LEDs/each optic	1
Light colour	White
Required components:	

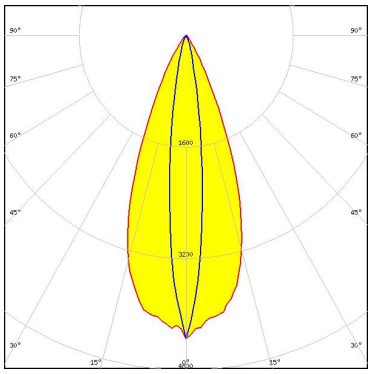
NICHIA

LED	NCSxE17A
FWHM	42.0 + 13.0°
Efficiency	87 %
Peak intensity	4.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



NICHIA

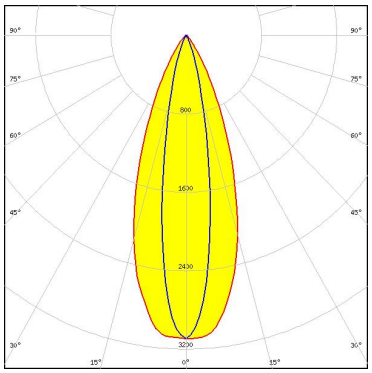
LED	NFSx757G
FWHM	41.0 + 13.0°
Efficiency	90 %
Peak intensity	4.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



PHOTOMETRIC DATA (SIMULATED):

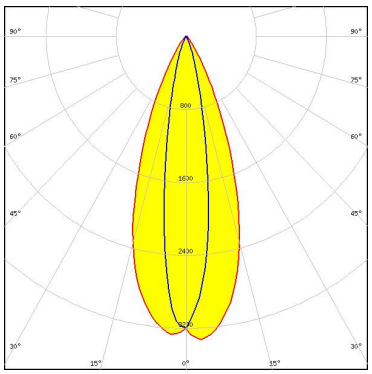
NICHIA

LED	NVSxx19B/NVSxx19C
FWHM	39.0 + 18.0°
Efficiency	85 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



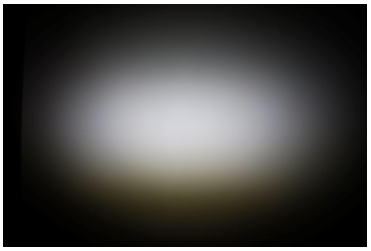
NICHIA

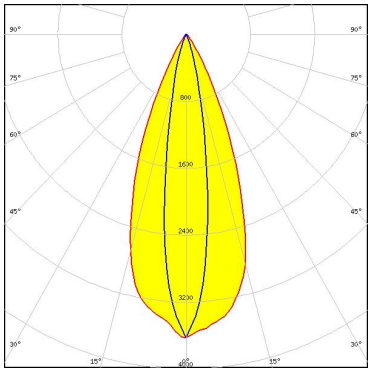
LED	NVSxx19B/NVSxx19C
FWHM	39.0 + 17.0°
Efficiency	86 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

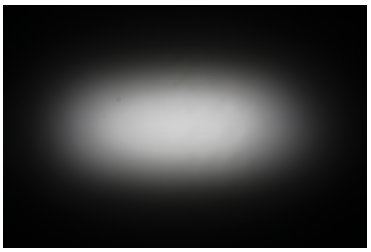
LED	Duris S5 (2 chip)
FWHM	41.0 + 17.0°
Efficiency	91 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

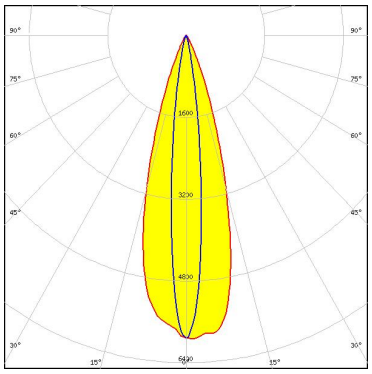




OSRAM
Opto Semiconductors

LED	OSLON Black Flat
FWHM	31.0 + 12.0°
Efficiency	87 %
Peak intensity	6.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





PHOTOMETRIC DATA (SIMULATED):

OSRAM
Opto Semiconductors

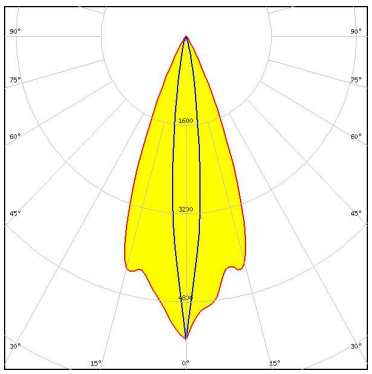
LED	SFH 4770S
FWHM	41.0 + 16.0°
Efficiency	85 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

OSRAM
Opto Semiconductors

LED	Synios P2720 1 mm
FWHM	41.0 + 11.0°
Efficiency	91 %
Peak intensity	5.5 cd/lm
LEDs/each optic	1
Light colour	White

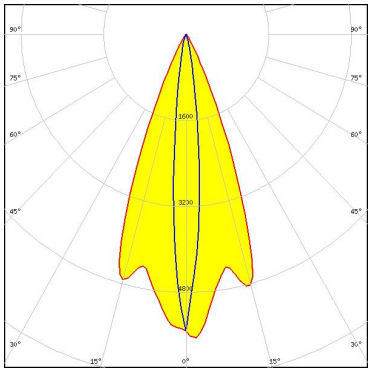
Required components:



OSRAM
Opto Semiconductors

LED	Synios P2720 1/2 mm
FWHM	41.0 + 10.0°
Efficiency	91 %
Peak intensity	5.7 cd/lm
LEDs/each optic	1
Light colour	White

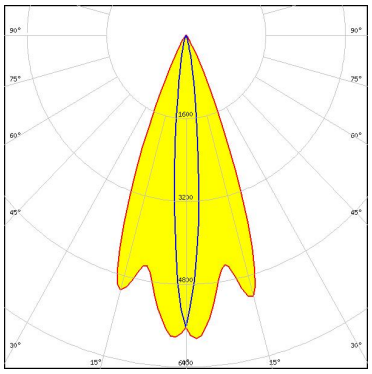
Required components:



OSRAM
Opto Semiconductors

LED	Synios P2720 1/4 mm
FWHM	41.0 + 9.0°
Efficiency	91 %
Peak intensity	6 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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