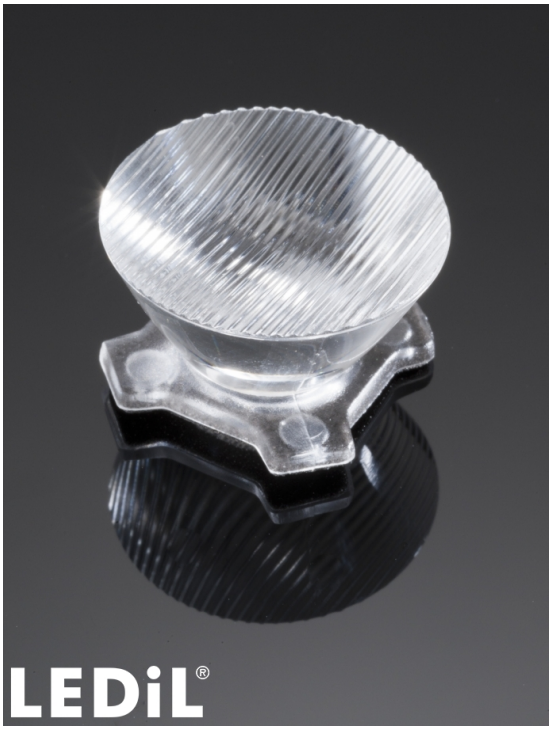
HEIDI-O-90

~13° x 45° oval beam optimized for Cree XP-G and XP-E. Variant with beam direction rotated 90°.



TECHNICAL SPECIFICATIONS:

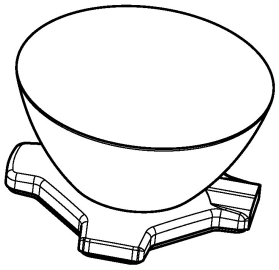
Dimensions	Ø 21.6 mm
Height	12.1 mm
Fastening	tape, pin
ROHS compliant	yes

MATERIAL SPECIFICATIONS:

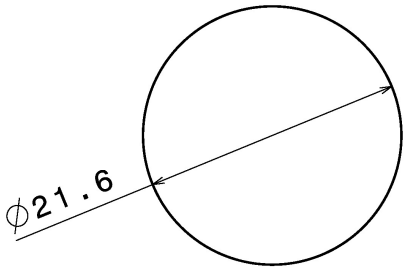
Component	Type	Material	Colour	Finish
HEIDI-O-90	Single lens	PMMA	clear	
HEIDI-TAPE	Tape	PU tape	black	

ORDERING INFORMATION:

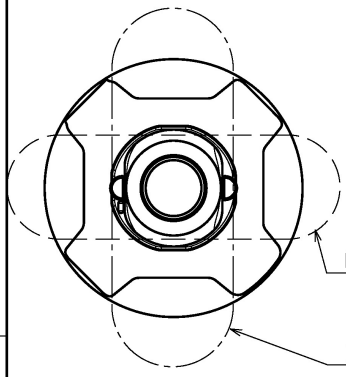
Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA11267_HEIDI-O-90 » Box size: 480 x 280 x 300 mm	Single lens	3264	204	204	10.4



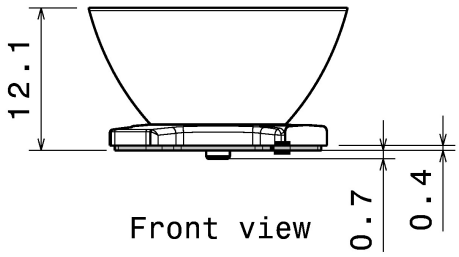
Isometric view



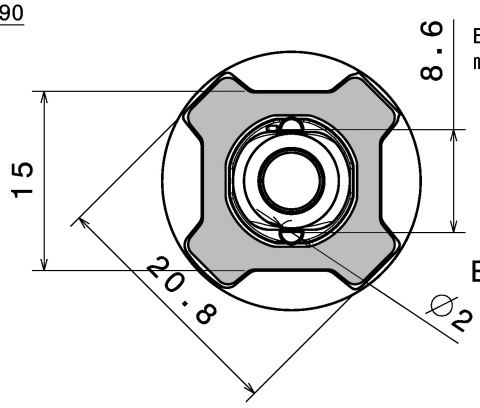
Top view



Bottom view



Front view



Bottom view

Material:
Lens PMMA
Tape PU Foam

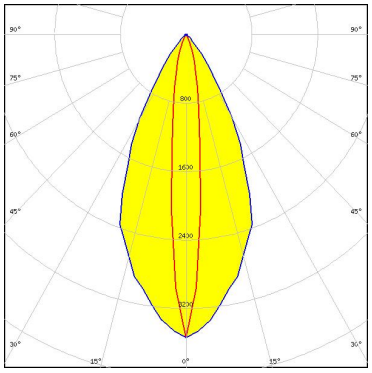
Ledil Oy
Salorankatu 10
FIN-24100 SALO
Finland

DRAWN BY: jp	DATE: 3.9.2013	DRAWING TITLE: Datasheet Heidi-O assy		
CHECKED BY	DATE	SIZE: A4	DRAWING NUMBER	REV: 001
DESIGNED BY	DATE	SCALE: 2:1	WEIGHT(g)	SHEET: 1/1

PHOTOMETRIC DATA (MEASURED):

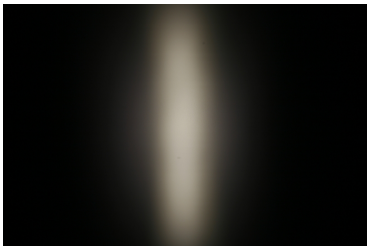
CREE

LED	XB-D
FWHM	12.0 + 49.0°
Efficiency	87 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



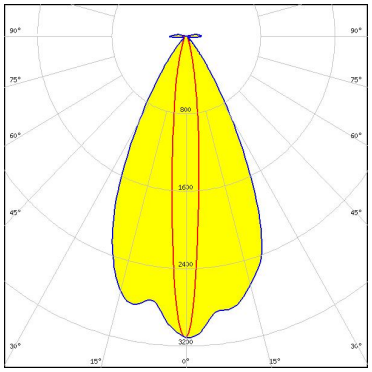
CREE

LED	XB-H
FWHM	11.0 + 52.0°
Efficiency	80 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



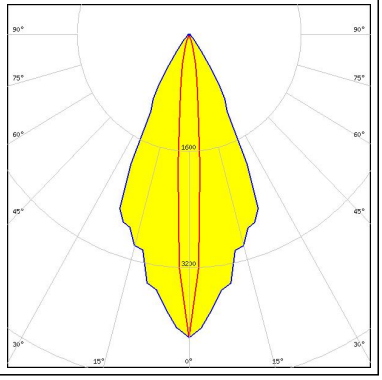
CREE

LED	XD16
FWHM	11.0 + 52.0°
Efficiency	88 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



CREE

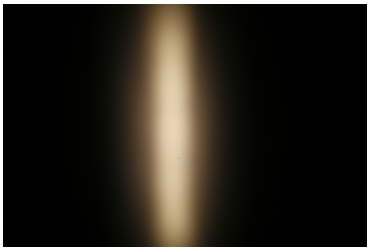
LED	XP-E
FWHM	9.0 + 50.0°
Efficiency	87 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

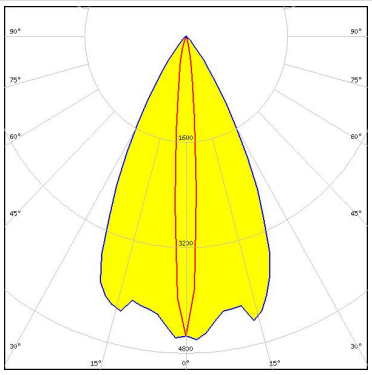


PHOTOMETRIC DATA (MEASURED):

CREE

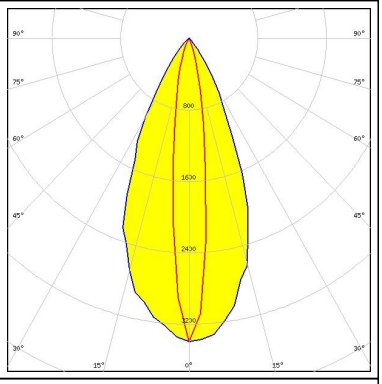
LED	XP-E2
FWHM	9.0 + 55.0°
Efficiency	84 %
Peak intensity	4.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





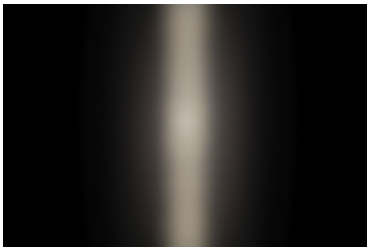
CREE

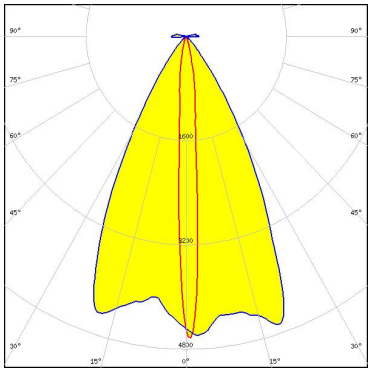
LED	XP-G
FWHM	14.0 + 44.0°
Efficiency	87 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



CREE

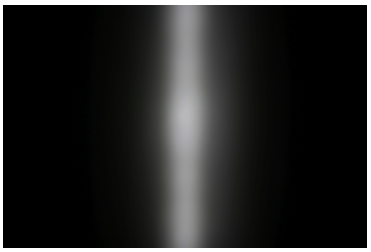
LED	XQ-E HD
FWHM	7.0 + 56.0°
Efficiency	94 %
Peak intensity	4.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

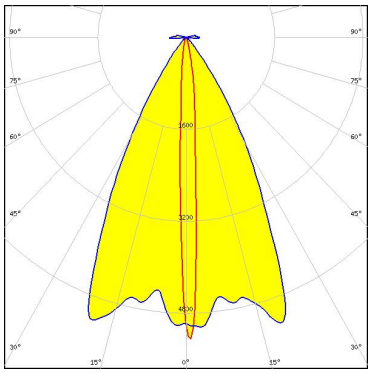




CREE

LED	XQ-E HI
FWHM	6.0 + 57.0°
Efficiency	94 %
Peak intensity	5.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

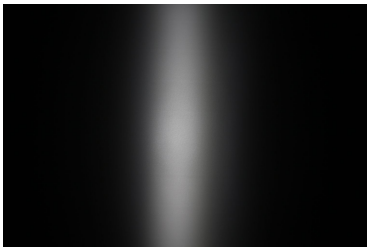


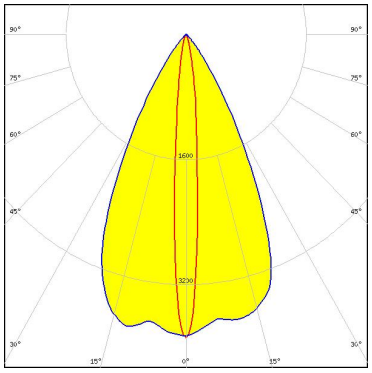


PHOTOMETRIC DATA (MEASURED):

LUMILEDS

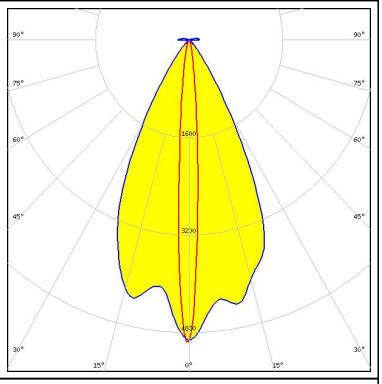
LED	LUXEON C
FWHM	9.0 + 54.0°
Efficiency	79 %
Peak intensity	3.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





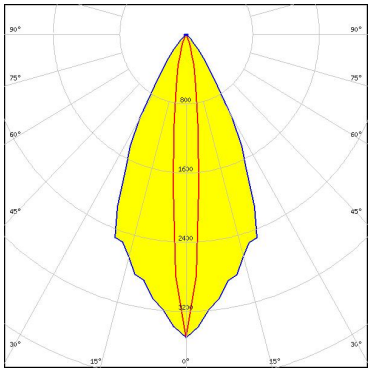
LUMILEDS

LED	LUXEON CZ
FWHM	8.0 + 52.0°
Efficiency	92 %
Peak intensity	5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



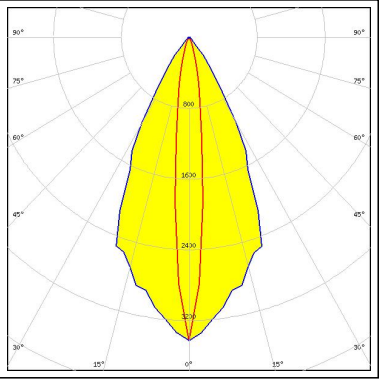
NICHIA

LED	NCSxx19A
FWHM	10.0 + 50.0°
Efficiency	82 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



NICHIA

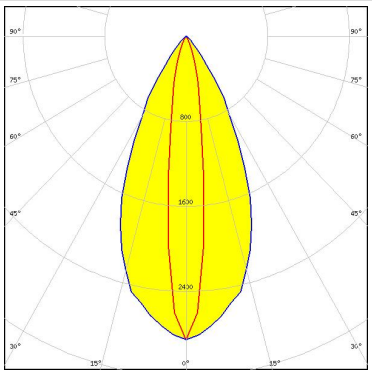
LED	NVSxx19A
FWHM	10.0 + 49.0°
Efficiency	82 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



PHOTOMETRIC DATA (MEASURED):

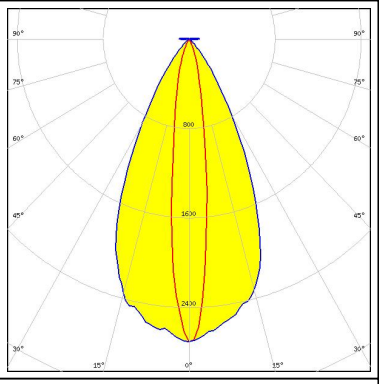
NICHIA

LED	NVSxx19B/NVSxx19C
FWHM	14.0 + 48.0°
Efficiency	85 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



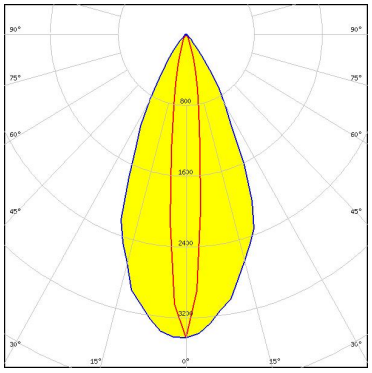
OSRAM
Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM	15.0 + 51.0°
Efficiency	78 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



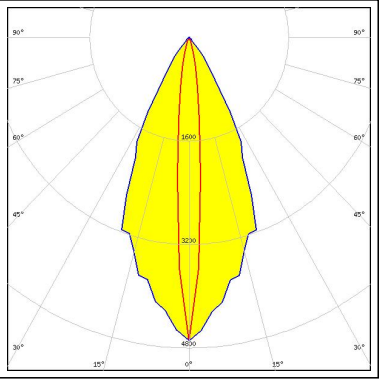
OSRAM
Opto Semiconductors

LED	OSLON Square EC
FWHM	12.0 + 48.0°
Efficiency	86 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

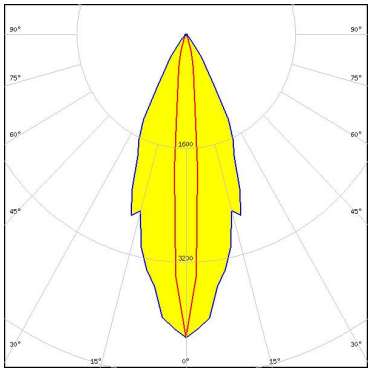
LED	OSLON SSL 150
FWHM	9.0 + 48.0°
Efficiency	86 %
Peak intensity	4.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



PHOTOMETRIC DATA (MEASURED):

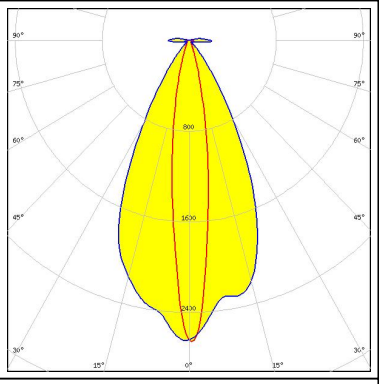
OSRAM
Opto Semiconductors

LED	OSLON SSL 80
FWHM	9.0 + 42.0°
Efficiency	83 %
Peak intensity	4.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



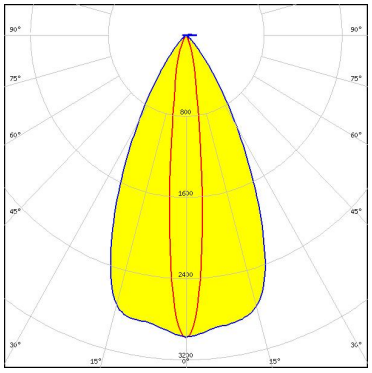
SAMSUNG

LED	LH181B
FWHM	14.0 + 51.0°
Efficiency	89 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



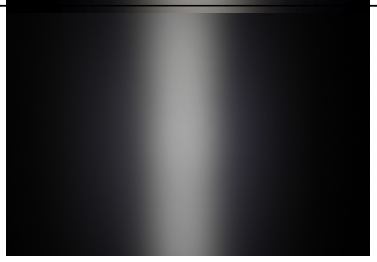
SAMSUNG

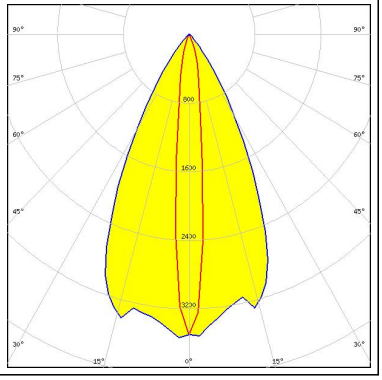
LED	LH351B
FWHM	13.0 + 52.0°
Efficiency	83 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SAMSUNG

LED	LH351Z
FWHM	11.0 + 54.0°
Efficiency	82 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

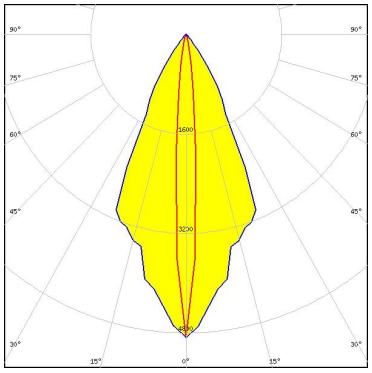




PHOTOMETRIC DATA (MEASURED):

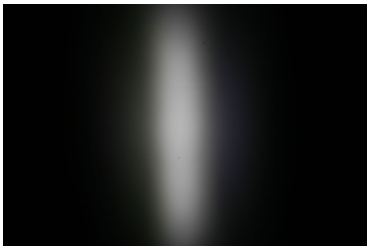
SEOUL SEMICONDUCTOR

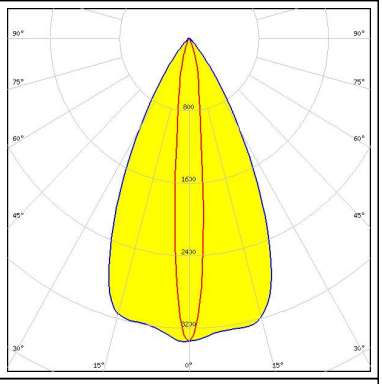
LED	Z5
FWHM	8.0 + 50.0°
Efficiency	86 %
Peak intensity	4.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SEOUL SEMICONDUCTOR

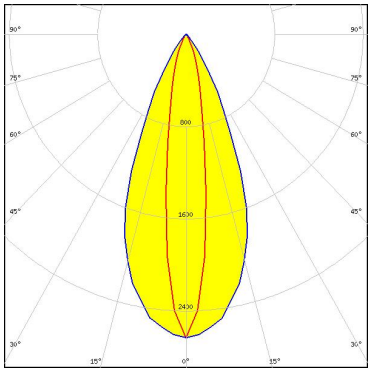
LED	Z5M1/Z5M2
FWHM	11.0 + 53.0°
Efficiency	84 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





SHARP

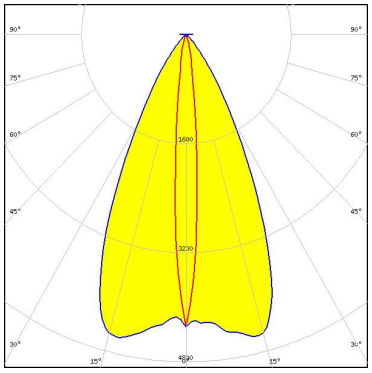
LED	Double Dome (GM2BB)
FWHM	16.0 + 44.0°
Efficiency	82 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



PHOTOMETRIC DATA (SIMULATED):

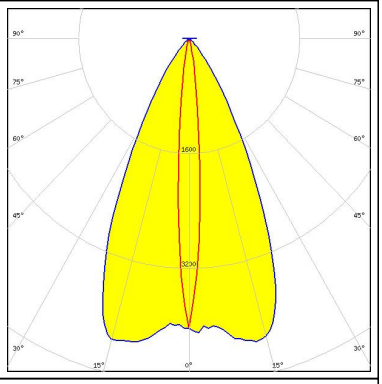
LUMILEDS

LED	LUXEON SunPlus 20 Line (120 deg)
FWHM	9.0 + 52.0°
Efficiency	91 %
Peak intensity	4.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



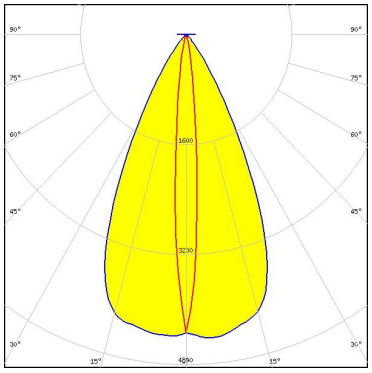
LUMILEDS

LED	LUXEON SunPlus 20 Line (150 deg)
FWHM	9.0 + 52.0°
Efficiency	87 %
Peak intensity	4.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



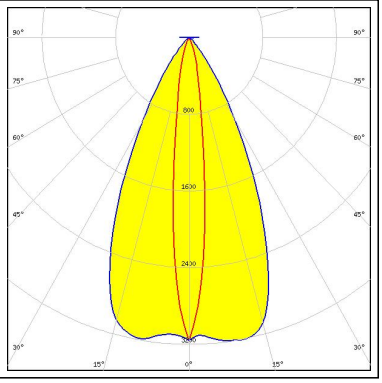
LUMILEDS

LED	LUXEON Z ES
FWHM	8.7 + 52.0°
Efficiency	92 %
Peak intensity	4.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



NICHIA

LED	NVSxx19B/NVSxx19C
FWHM	12.0 + 52.0°
Efficiency	90 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

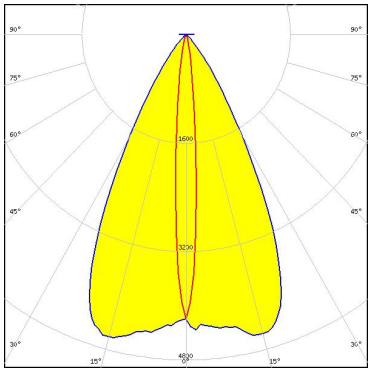


PHOTOMETRIC DATA (SIMULATED):

OSRAM
Opto Semiconductors

LED	OSCONIQ P 3030
FWHM	7.9 + 55.0°
Efficiency	93 %
Peak intensity	4.6 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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