VIOLET-12X1-W

~60° wide beam

SPECIFICATION:

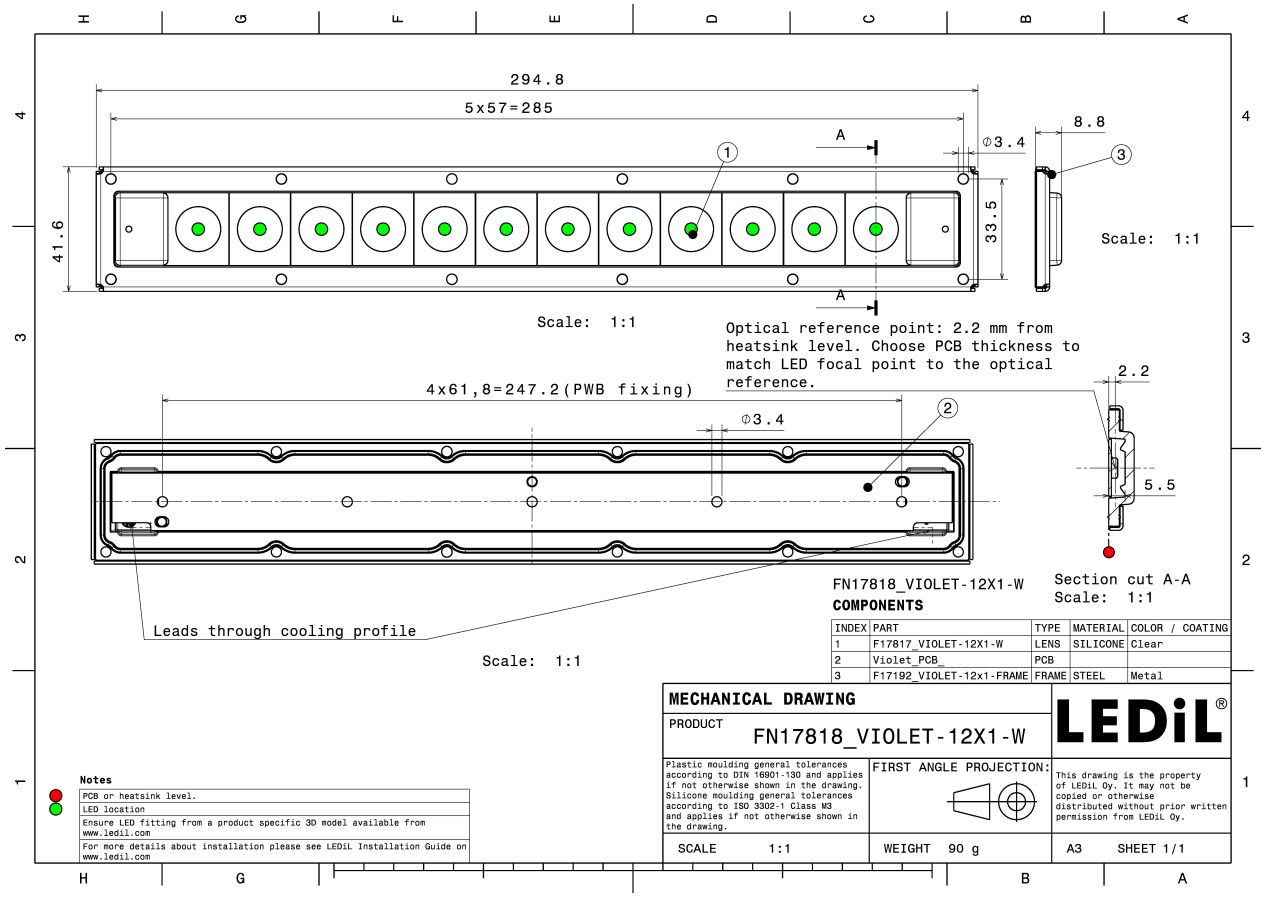
Dimensions	294.8 x 41.6 mm
Height	8.8 mm
Fastening	screw
Ingress protection classes	IP66, IP67
ROHS compliant	yes

MATERIALS:

Component	Type	Material	Colour	Finish
VIOLET-12X1-W	Multi-lens	Silicone	clear	
VIOLET-12X1-FRAME	Accessory	Stainless steel	metal	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FN17818_VIOLET-12X1-W » Box size: 398 x 298 x 150 mm	Multi-lens	78	26	26	7.8



FN17818_VIOLET-12X1-W

COMPONENTS

INDEX	PART	TYPE	MATERIAL	COLOR / COATING
1	F17817_VIOLET-12X1-W	LENS	SILICONE	Clear
2	Violet_PCB_	PCB		
3	F17192_VIOLET-12x1-FRAME	FRAME	STEEL	Metal

Notes

PCB or heatsink level.
LED location
Ensure LED fitting from a product specific 3D model available from www.ledil.com
For more details about installation please see LEDiL Installation Guide on www.ledil.com

MECHANICAL DRAWING

PRODUCT FN17818_VIOLET-12X1-W

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:

SCALE 1:1 | WEIGHT 90 g | A3 SHEET 1/1

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

OPTICAL RESULTS (MEASURED):

AUDAX ELECTRONICS

LED	LIGHT ENGINE VIOLET UVC 281x19.2mm (KL265-50V-SM-WD)
FWHM / FWTM	46.0° / 67.0°
Efficiency	74 %
LEDs/each optic	1
Light colour	UV-C

Required components:

The UVC LED result tolerance is ±10 %

CrayoNano

LED	CLH-N3S
FWHM / FWTM	60.0° / 79.0°
Efficiency	74 %
LEDs/each optic	1
Light colour	UV-C

Required components:

The UVC LED result tolerance is ±10 %

Crystal IS

LED	KL265-50V-SM-WD
FWHM / FWTM	55.0° / 73.0°
Efficiency	67 %
LEDs/each optic	1
Light colour	UV-C

Required components:

The UVC LED result tolerance is ±10 %

LED	110384-GC VIOLET
FWHM / FWTM	63.0° / 84.0°
Efficiency	74 %
LEDs/each optic	1
Light colour	UV-C

Required components:

The UVC LED result tolerance is ±10 %

OPTICAL RESULTS (MEASURED):

LED	110384-GM VIOLET
FWHM / FWTM	64.0° / 85.0°
Efficiency	75 %
LEDs/each optic	1
Light colour	UV-C

Required components:

The UVC LED result tolerance is ±10 %

LED	LTPL-G35UV275GC-E
FWHM / FWTM	51.0° / 71.0°
Efficiency	76 %
LEDs/each optic	1
Light colour	UV-C

Required components:

The UVC LED result tolerance is ±10 %

LED	LTPL-G35UV275GR-E
FWHM / FWTM	54.0° / 73.0°
Efficiency	75 %
LEDs/each optic	1
Light colour	UV-C

Required components:

The UVC LED result tolerance is ±10 %

LED	LTPL-G35UVC275GH
FWHM / FWTM	55.0° / 73.0°
Efficiency	75 %
LEDs/each optic	1
Light colour	UV-C

Required components:

The UVC LED result tolerance is ±10 %

OPTICAL RESULTS (MEASURED):

LITEON

LED	LTPL-G35UVC275GZ
FWHM / FWTM	53.0° / 73.0°
Efficiency	74 %
LEDs/each optic	1
Light colour	UV-C

Required components:

The UVC LED result tolerance is ±10 %

LUMINUS

LED	XBT-3535-UV
FWHM / FWTM	56.0° / 75.0°
Efficiency	75 %
LEDs/each optic	1
Light colour	UV-C

Required components:

The UVC LED result tolerance is ±10 %

LUMINUS

LED	XFM-5050 2 Die
FWHM / FWTM	56.0° / 76.0°
Efficiency	67 %
LEDs/each optic	1
Light colour	UV-C

Required components:

The UVC LED result tolerance is ±10 %

LUMINUS

LED	XFM-5050 3 Die
FWHM / FWTM	54.0° / 77.0°
Efficiency	65 %
LEDs/each optic	1
Light colour	UV-C

Required components:

The UVC LED result tolerance is ±10 %

OPTICAL RESULTS (MEASURED):

LUMINUS

LED	XST-3535-UV
FWHM / FWTM	37.0° / 58.0°
Efficiency	77 %
LEDs/each optic	1
Light colour	UV-C

Required components:

The UVC LED result tolerance is ±10 %

LUMITRONIX® High-Performance LED-Technologies & Solutions

LED	Violet UVC LED-Modul 280nm
FWHM / FWTM	59.0° / 78.0°
Efficiency	76 %
LEDs/each optic	1
Light colour	UV-C

Required components:

The UVC LED result tolerance is ±10 %

NICHIA

LED	NCSU334A
FWHM / FWTM	52.0° / 73.0°
Efficiency	79 %
LEDs/each optic	1
Light colour	UV-C

Required components:

The UVC LED result tolerance is ±10 %

NICHIA

LED	NCSU334B
FWHM / FWTM	53.0° / 73.0°
Efficiency	75 %
LEDs/each optic	1
Light colour	UV-C

Required components:

The UVC LED result tolerance is ±10 %

OPTICAL RESULTS (MEASURED):

OSRAM

LED	CLE LED module with UV-C (SU CULCN1.VC)
FWHM / FWTM	55.0° / 74.0°
Efficiency	58 %
LEDs/each optic	1
Light colour	UV-C

Required components:

The UVC LED result tolerance is ±10 %

OSRAM
Opto Semiconductors

LED	OSLON UV 6060 (SU CZHPF1.VC)
FWHM / FWTM	56.0° / 75.0°
Efficiency	67 %
LEDs/each optic	1
Light colour	UV-C

Required components:

The UVC LED result tolerance is ±10 %

SAMSUNG

LED	UV351A
FWHM / FWTM	62.0° / 79.0°
Efficiency	77 %
LEDs/each optic	1
Light colour	UV-C

Required components:

The UVC LED result tolerance is ±10 %

SAMSUNG

LED	UV353B
FWHM / FWTM	65.0° / 82.0°
Efficiency	70 %
LEDs/each optic	1
Light colour	UV-C

Required components:

The UVC LED result tolerance is ±10 %

OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

LED	CUD7GF1B
FWHM / FWTM	48.0° / 68.0°
Efficiency	70 %
LEDs/each optic	1
Light colour	UV-C

Required components:

The UVC LED result tolerance is ±10 %

SEOUL SEMICONDUCTOR

LED	CUD7QF1A
FWHM / FWTM	43.0° / 66.0°
Efficiency	69 %
LEDs/each optic	1
Light colour	UV-C

Required components:

The UVC LED result tolerance is ±10 %

SEOUL SEMICONDUCTOR

LED	XMD-FBC-LLCA
FWHM / FWTM	51.0° / 72.0°
Efficiency	68 %
LEDs/each optic	1
Light colour	UV-C

Required components:

The UVC LED result tolerance is ±10 %

SEOUL SEMICONDUCTOR

LED	XMD-FBC-LLOA
FWHM / FWTM	50.0° / 75.0°
Efficiency	73 %
LEDs/each optic	2
Light colour	UV-C

Required components:

The UVC LED result tolerance is ±10 %

OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

LED	XMD-FBC-LLVA
FWHM / FWTM	53.0° / 76.0°
Efficiency	70 %
LEDs/each optic	4
Light colour	UV-C

Required components:

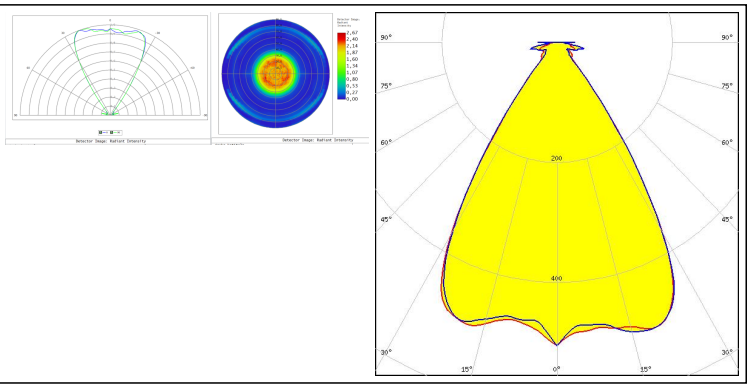
The UVC LED result tolerance is ±10 %

OPTICAL RESULTS (SIMULATED):

BOLB

LED	Bolb UV-C 6060 SMD
FWHM / FWTM	65.0° / 82.0°
Efficiency	69 %
LEDs/each optic	1
Light colour	UV-C
Required components:	

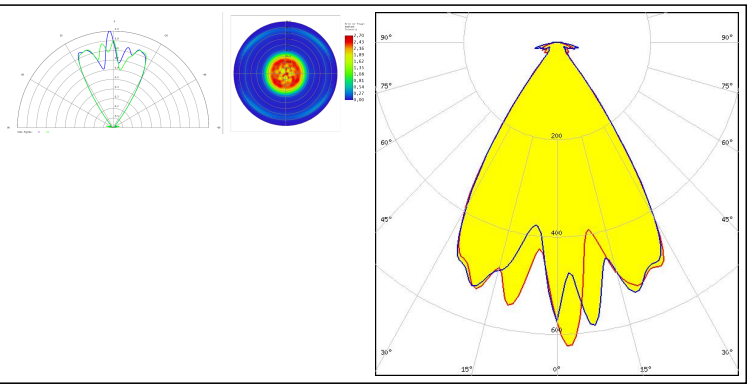
The UVC LED result tolerance is ±10 %



LUMINUS

LED	XBT-1313
FWHM / FWTM	63.0° / 78.0°
Efficiency	71 %
LEDs/each optic	1
Light colour	UV-C
Required components:	

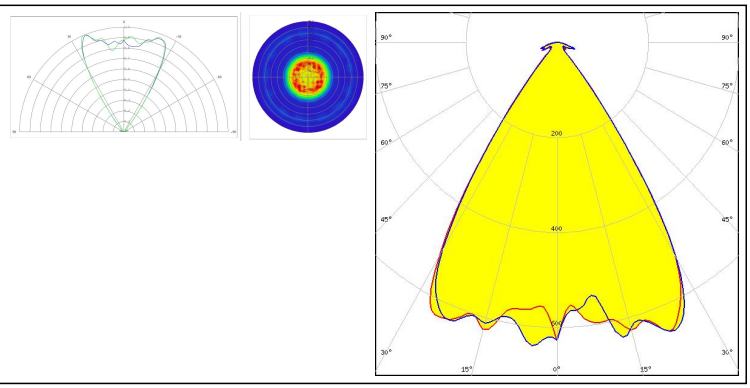
The UVC LED result tolerance is ±10 %



LUMINUS

LED	XBT-3535-UV
FWHM / FWTM	65.0° / 78.0°
Efficiency	80 %
LEDs/each optic	1
Light colour	UV-C
Required components:	

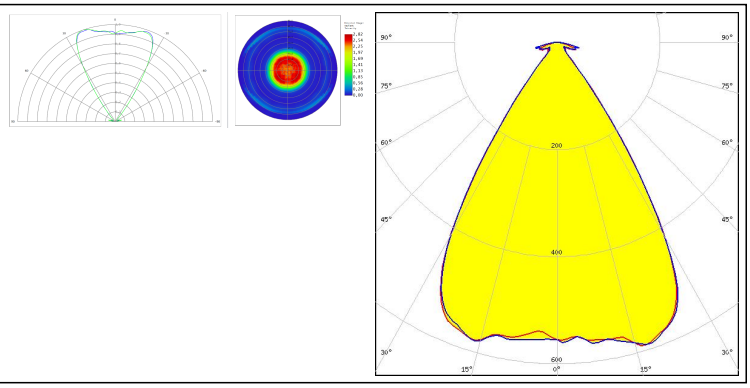
The UVC LED result tolerance is ±10 %



LUMINUS

LED	XFM-5050 2 Die
FWHM / FWTM	64.0° / 79.0°
Efficiency	74 %
LEDs/each optic	1
Light colour	UV-C
Required components:	

The UVC LED result tolerance is ±10 %

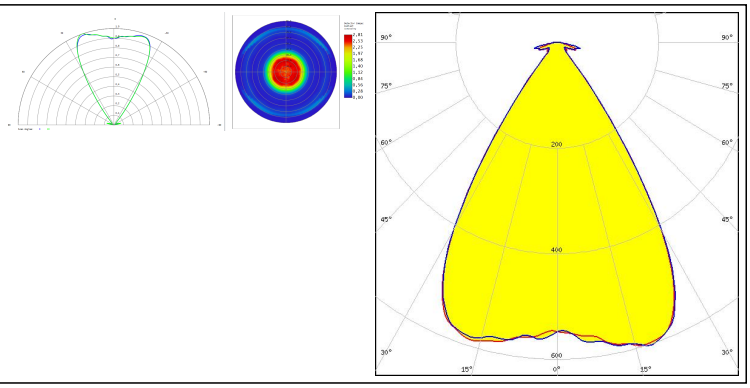


OPTICAL RESULTS (SIMULATED):

LUMINUS

LED	XFM-5050 3 Die
FWHM / FWTM	62.0° / 79.0°
Efficiency	75 %
LEDs/each optic	1
Light colour	UV-C
Required components:	

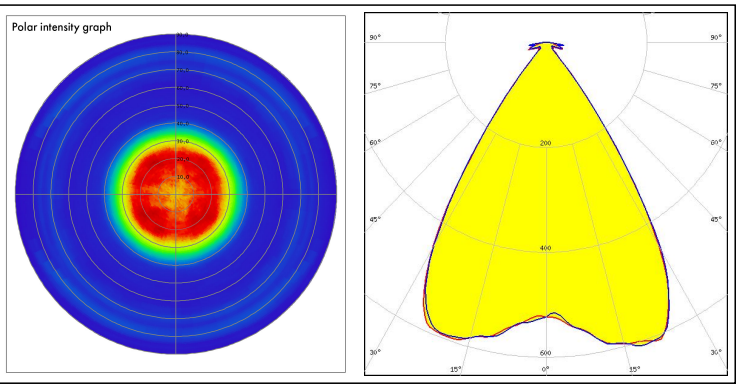
The UVC LED result tolerance is ±10 %



LUMINUS

LED	XFM-5050 4 Die
FWHM / FWTM	65.0° / 79.0°
Efficiency	76 %
LEDs/each optic	1
Light colour	UV-C
Required components:	

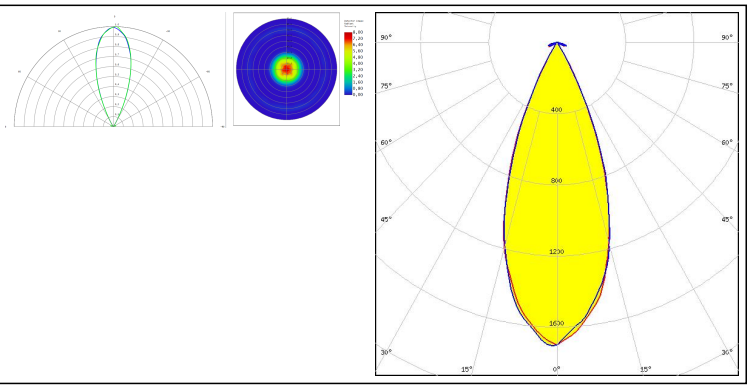
The UVC LED result tolerance is ±10 %



LUMINUS

LED	XST-3535-UV
FWHM / FWTM	39.0° / 58.0°
Efficiency	82 %
LEDs/each optic	1
Light colour	UV-C
Required components:	

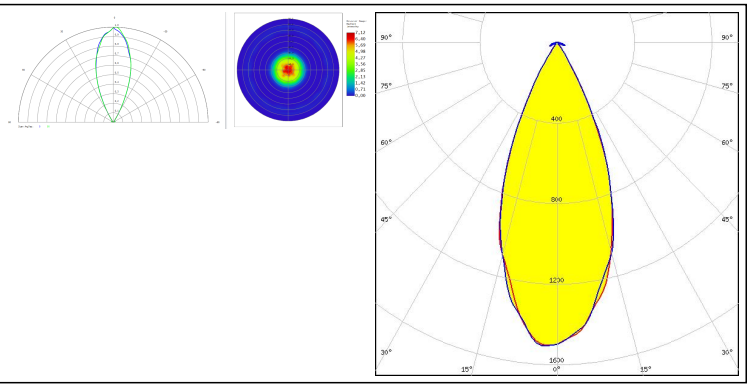
The UVC LED result tolerance is ±10 %



LUMINUS

LED	XST-3535-UV
FWHM / FWTM	41.0° / 62.0°
Efficiency	82 %
LEDs/each optic	1
Light colour	UV-C
Required components:	

The UVC LED result tolerance is ±10 %

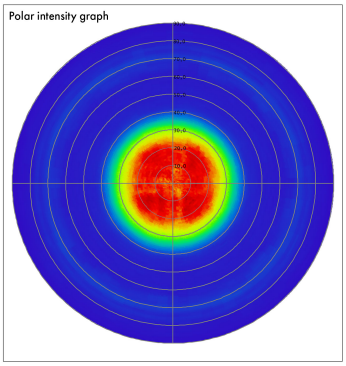


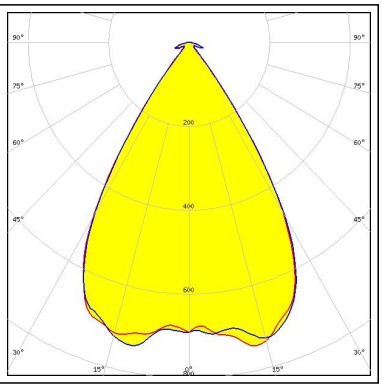
OPTICAL RESULTS (SIMULATED):

NICHIA

LED	NC4U334BR
FWHM / FWTM	64.0° / 77.0°
Efficiency	82 %
LEDs/each optic	1
Light colour	UV-C
Required components:	

The UVC LED result tolerance is ±10 %

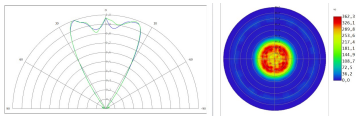


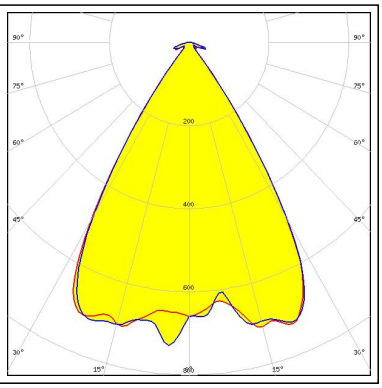


NICHIA

LED	NCSU334B
FWHM / FWTM	62.0° / 76.0°
Efficiency	82 %
LEDs/each optic	1
Light colour	UV-C
Required components:	

The UVC LED result tolerance is ±10 %

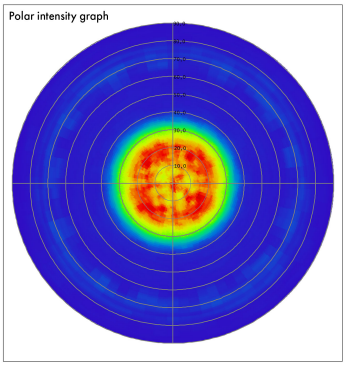


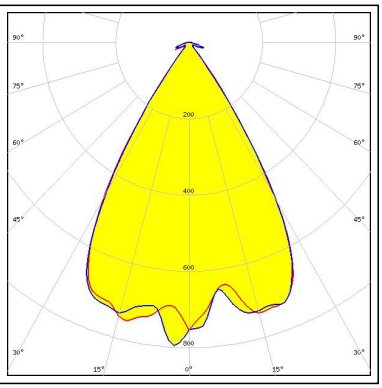


NICHIA

LED	NCSU434A
FWHM / FWTM	60.0° / 74.0°
Efficiency	82 %
LEDs/each optic	1
Light colour	UV-C
Required components:	

The UVC LED result tolerance is ±10 %

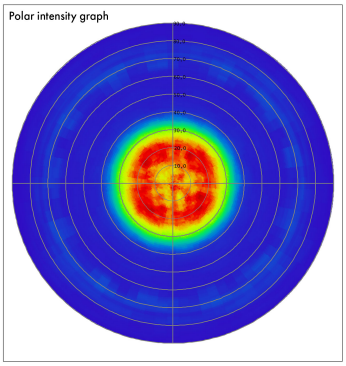


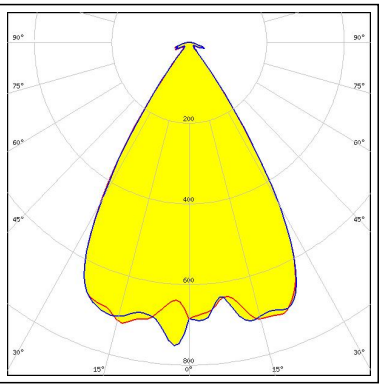


NICHIA

LED	NCSU434B
FWHM / FWTM	61.0° / 76.0°
Efficiency	81 %
LEDs/each optic	1
Light colour	UV-C
Required components:	

The UVC LED result tolerance is ±10 %



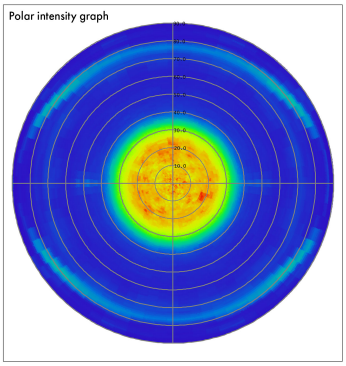


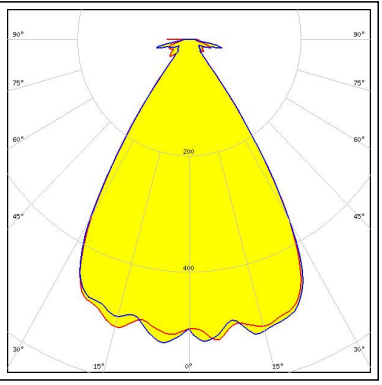
OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

LED	OSLON UV 6060 (SU CZHEF1.VC)
FWHM / FWTM	64.0° / 79.0°
Efficiency	67 %
LEDs/each optic	1
Light colour	UV-C
Required components:	

The UVC LED result tolerance is ±10 %

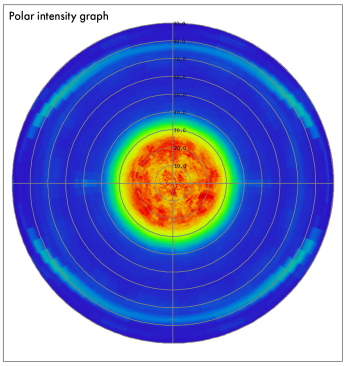


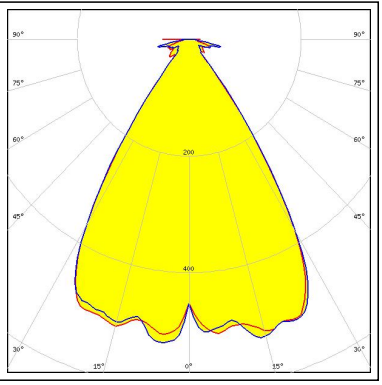


OSRAM
Opto Semiconductors

LED	OSLON UV 6060 (SU CZHPF1.VC)
FWHM / FWTM	62.0° / 79.0°
Efficiency	69 %
LEDs/each optic	1
Light colour	UV-C
Required components:	

The UVC LED result tolerance is ±10 %

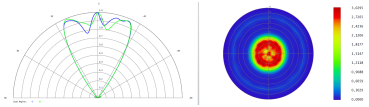


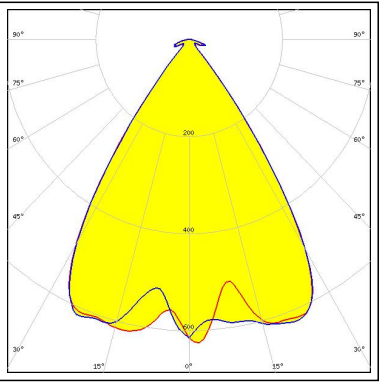


SEOUL SEMICONDUCTOR

LED	CUD7GF1B
FWHM / FWTM	65.0° / 79.0°
Efficiency	78 %
LEDs/each optic	1
Light colour	UV-C
Required components:	

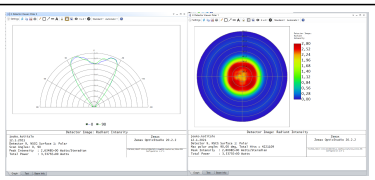
The UVC LED result tolerance is ±10 %

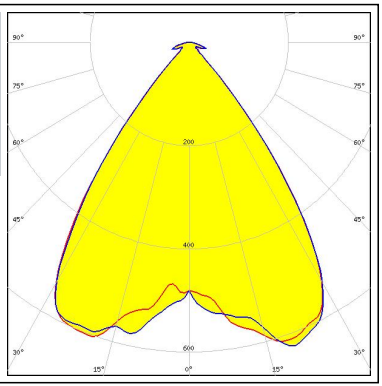




SEOUL SEMICONDUCTOR

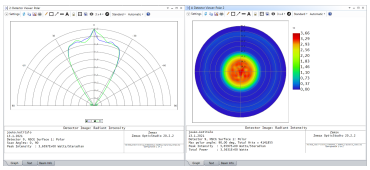
LED	CUD8AF4D
FWHM / FWTM	71.0° / 87.0°
Efficiency	88 %
LEDs/each optic	1
Light colour	UV-B
Required components:	

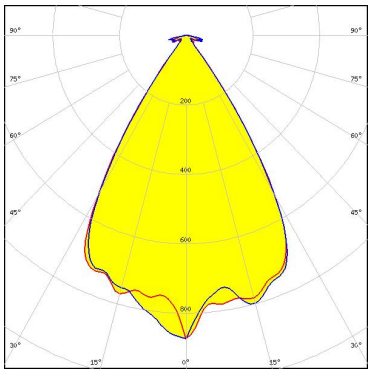




OPTICAL RESULTS (SIMULATED):

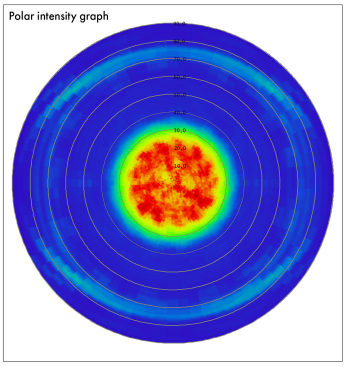
SEOUL SEMICONDUCTOR

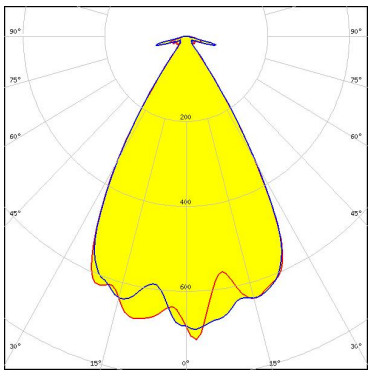




LED	CUN66A1B
FWHM / FWTM	62.0° / 77.0°
Efficiency	89 %
LEDs/each optic	1
Light colour	UV-A
Required components:	

SEOUL SEMICONDUCTOR

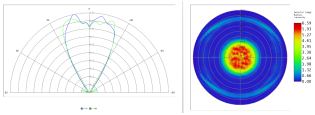


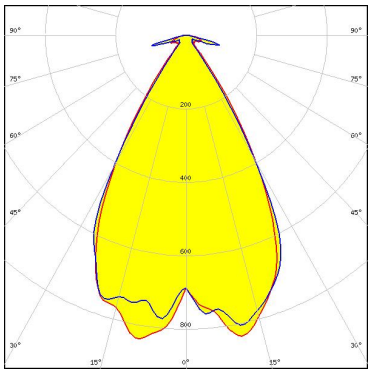


LED	WICOP DY9560-27
FWHM / FWTM	59.0° / 73.0°
Efficiency	74 %
LEDs/each optic	1
Light colour	UV-C
Required components:	

The UVC LED result tolerance is ±10 %

SEOUL SEMICONDUCTOR

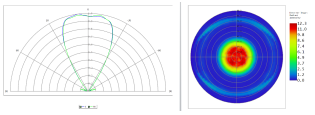


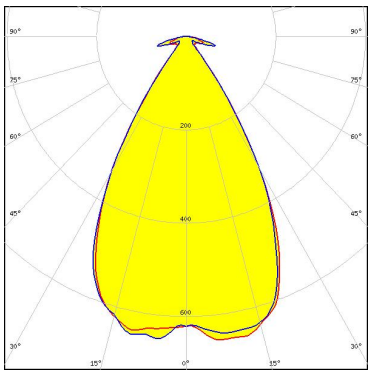


LED	WICOP DY9560-27
FWHM / FWTM	57.0 + 59.0° / 72.0 + 76.0°
Efficiency	73 %
LEDs/each optic	2
Light colour	UV-C
Required components:	

The UVC LED result tolerance is ±10 %

SEOUL SEMICONDUCTOR





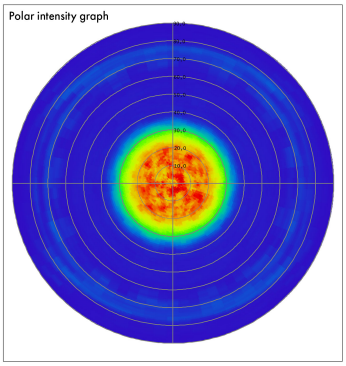
LED	WICOP DY9560-27
FWHM / FWTM	59.0° / 77.0°
Efficiency	73 %
LEDs/each optic	4
Light colour	UV-C
Required components:	

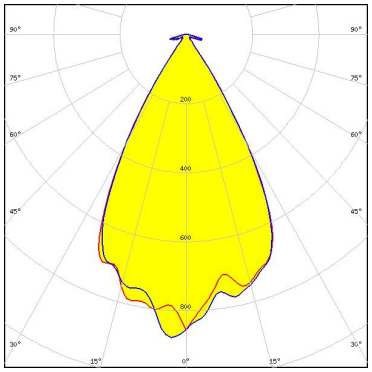
The UVC LED result tolerance is ±10 %

OPTICAL RESULTS (SIMULATED):

LED	ZEUBE265 Series
FWHM / FWTM	57.0° / 71.0°
Efficiency	75 %
LEDs/each optic	1
Light colour	UV-C
Required components:	

The UVC LED result tolerance is ±10 %





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.

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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
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