

VIOLET-12X1-RS

~14° wide beam

SPECIFICATION:

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

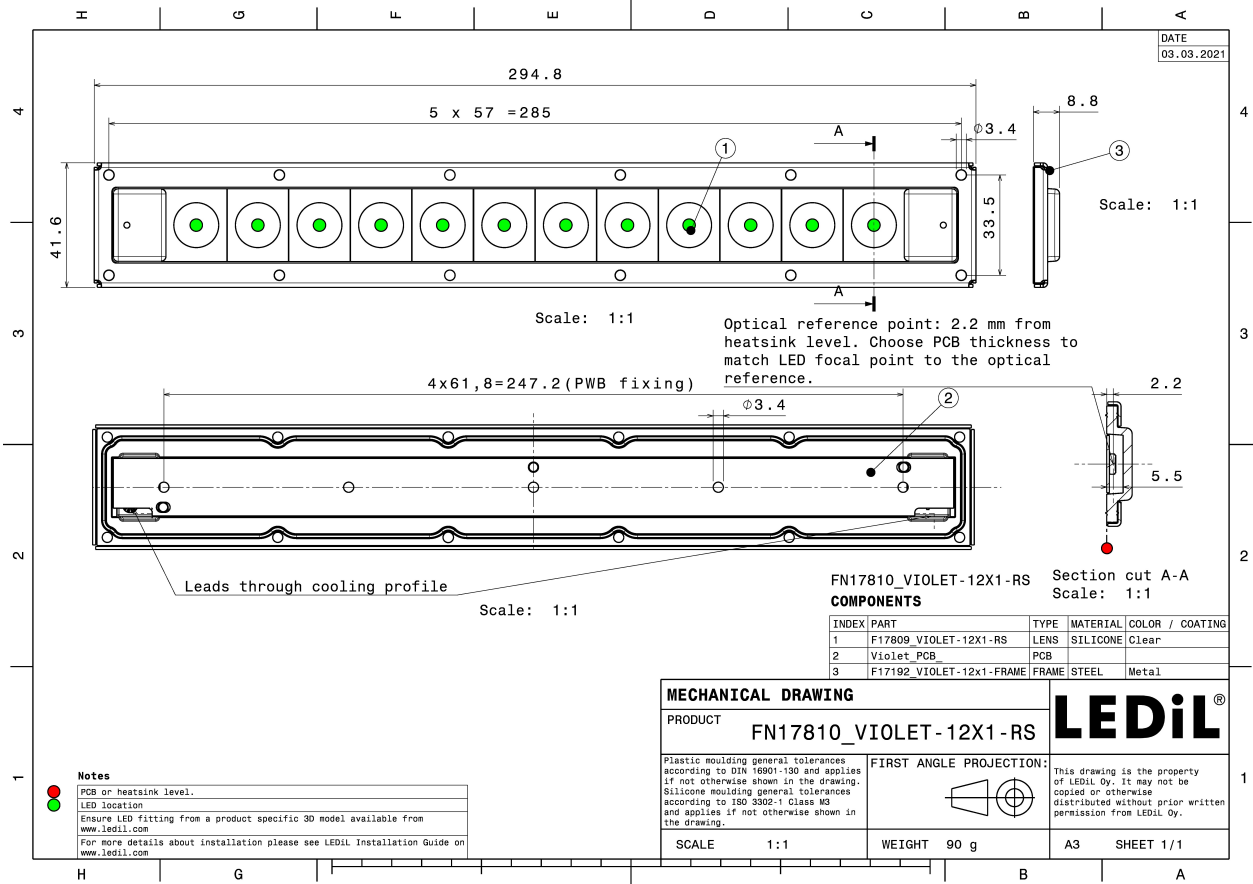
MATERIALS:

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



ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
FN17810_VIOLET-12X1-RS » Box size: 398 x 298 x 150 mm	Multi-lens	78	26	26	8.0



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

OPTICAL RESULTS (MEASURED):



LED LIGHT ENGINE VIOLET UVC 281x19.2mm (KL265-50V-SM-WD)
FWHM / FWTM 18.0° / 38.0°
Efficiency 64 %
LEDs/each optic 1
Light colour UV-C
Required components:

The UVC LED result tolerance is ± 10 %



LED CLH-N3S
FWHM / FWTM 15.0° / 38.0°
Efficiency 67 %
LEDs/each optic 1
Light colour UV-C
Required components:

The UVC LED result tolerance is ± 10 %



LED KL265-50V-SM-WD
FWHM / FWTM 13.0° / 29.0°
Efficiency 60 %
LEDs/each optic 1
Light colour UV-C
Required components:

The UVC LED result tolerance is ± 10 %



LED 110384-GC VIOLET
FWHM / FWTM 12.0° / 24.0°
Efficiency 68 %
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 14.0° / 30.0°
Efficiency 68 %
LEDs/each optic 1
Light colour UV-C
Required components:

The UVC LED result tolerance is ± 10 %



LED LTPL-G35UV275GC-E
FWHM / FWTM 12.0° / 20.0°
Efficiency 65 %
LEDs/each optic 1
Light colour UV-C
Required components:

The UVC LED result tolerance is ± 10 %



LED LTPL-G35UV275GR-E
FWHM / FWTM 13.0° / 27.0°
Efficiency 64 %
LEDs/each optic 1
Light colour UV-C
Required components:

The UVC LED result tolerance is ± 10 %



LED LTPL-G35UVC275GH
FWHM / FWTM 14.0° / 32.0°
Efficiency 65 %
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 14.0° / 32.0°
Efficiency 65 %
LEDs/each optic 1
Light colour UV-C
Required components:

The UVC LED result tolerance is ± 10 %

LUMINUS

LED XBT-3535-UV
FWHM / FWTM 12.0° / 29.0°
Efficiency 68 %
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 19.0° / 41.0°
Efficiency 60 %
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 23.0° / 46.0°
Efficiency 62 %
LEDs/each optic 1
Light colour UV-C
Required components:

The UVC LED result tolerance is ± 10 %

OPTICAL RESULTS (MEASURED):



LED XFM-5050 3 Die
FWHM / FWTM 24.0° / 47.0°
Efficiency 58 %
LEDs/each optic 1
Light colour UV-C

Required components:

The UVC LED result tolerance is ± 10 %



LED XST-3535-UV
FWHM / FWTM 22.0° / 42.0°
Efficiency 64 %
LEDs/each optic 1
Light colour UV-C

Required components:

The UVC LED result tolerance is ± 10 %



LED Violet UVC LED-Modul 280nm
FWHM / FWTM 14.0° / 31.0°
Efficiency 68 %
LEDs/each optic 1
Light colour UV-C

Required components:

The UVC LED result tolerance is ± 10 %



LED NCSU334B
FWHM / FWTM 17.0° / 36.0°
Efficiency 66 %
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 13.0° / 29.0°
Efficiency 65 %
LEDs/each optic 1
Light colour UV-C
Required components:

The UVC LED result tolerance is ± 10 %

OSRAM

Opto Semiconductors

LED OSLOM UV 6060 (SU CZHPF1.VC)
FWHM / FWTM 16.0° / 37.0°
Efficiency 62 %
LEDs/each optic 1
Light colour UV-C
Required components:

The UVC LED result tolerance is ± 10 %

SAMSUNG

LED UV351A
FWHM / FWTM 8.0° / 19.0°
Efficiency 70 %
LEDs/each optic 1
Light colour UV-C
Required components:

The UVC LED result tolerance is ± 10 %

SAMSUNG

LED UV351B
FWHM / FWTM 9.0° / 21.0°
Efficiency 67 %
LEDs/each optic 1
Light colour UV-C
Required components:

The UVC LED result tolerance is ± 10 %

OPTICAL RESULTS (MEASURED):

SAMSUNG

LED UV352B
FWHM / FWTM 8.0° / 20.0°
Efficiency 65 %
LEDs/each optic 1
Light colour UV-C
Required components:

The UVC LED result tolerance is ± 10 %

SAMSUNG

LED UV353B
FWHM / FWTM 12.0° / 25.0°
Efficiency 63 %
LEDs/each optic 1
Light colour UV-C
Required components:

The UVC LED result tolerance is ± 10 %



SEOUL SEMICONDUCTOR

LED CUD7GF1B
FWHM / FWTM 15.0° / 30.0°
Efficiency 61 %
LEDs/each optic 1
Light colour UV-C
Required components:

The UVC LED result tolerance is ± 10 %



SEOUL SEMICONDUCTOR

LED CUD7QF1A
FWHM / FWTM 14.0° / 28.0°
Efficiency 69 %
LEDs/each optic 1
Light colour UV-C
Required components:

The UVC LED result tolerance is ± 10 %

OPTICAL RESULTS (MEASURED):

SEOL SEMICONDUCTOR	
LED	XMD-FBC-LLCA
FWHM / FWTM	16.0° / 34.0°
Efficiency	55 %
LEDs/each optic	1
Light colour	UV-C
Required components:	
The UVC LED result tolerance is ± 10 %	

SEOL SEMICONDUCTOR	
LED	XMD-FBC-LLOA
FWHM / FWTM	31.0° / 51.0°
Efficiency	67 %
LEDs/each optic	2
Light colour	UV-C
Required components:	
The UVC LED result tolerance is ± 10 %	

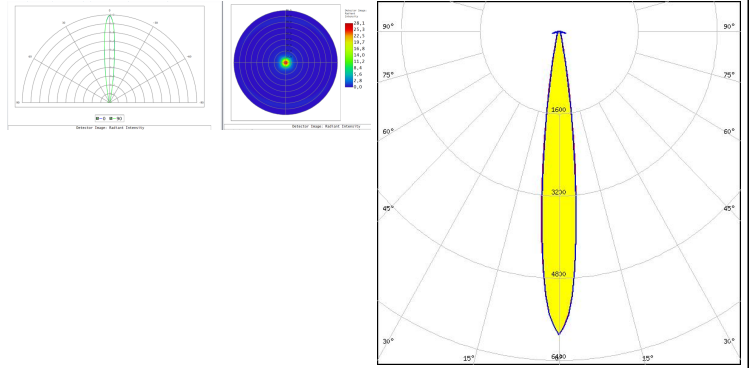
SEOL SEMICONDUCTOR	
LED	XMD-FBC-LLVA
FWHM / FWTM	31.0° / 63.0°
Efficiency	63 %
LEDs/each optic	4
Light colour	UV-C
Required components:	
The UVC LED result tolerance is ± 10 %	

OPTICAL RESULTS (SIMULATED):



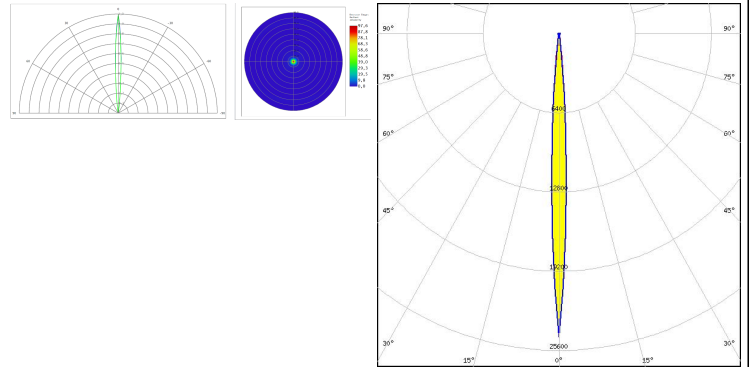
LED Bolb UV-C 6060 SMD
 FWHM / FWTM 14.0° / 24.0°
 Efficiency 71 %
 LEDs/each optic 1
 Light colour UV-C
 Required components:

The UVC LED result tolerance is ± 10 %



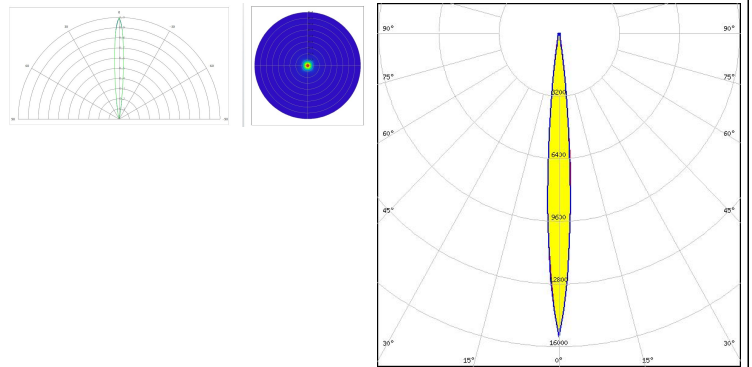
LED XBT-1313
 FWHM / FWTM 7.0° / 13.0°
 Efficiency 72 %
 LEDs/each optic 1
 Light colour UV-C
 Required components:

The UVC LED result tolerance is ± 10 %



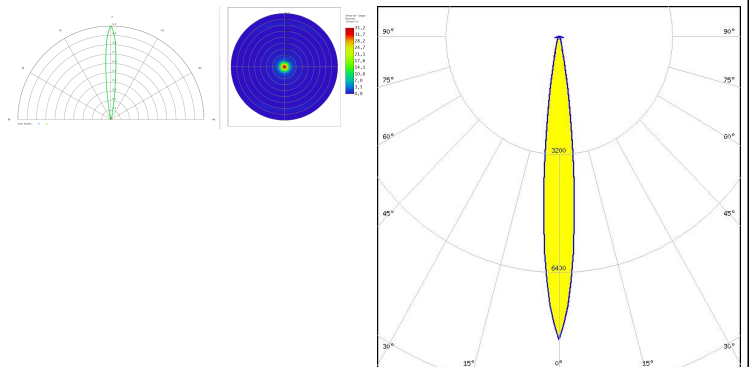
LED XBT-3535-UV
 FWHM / FWTM 10.0° / 19.0°
 Efficiency 80 %
 LEDs/each optic 1
 Light colour UV-C
 Required components:

The UVC LED result tolerance is ± 10 %

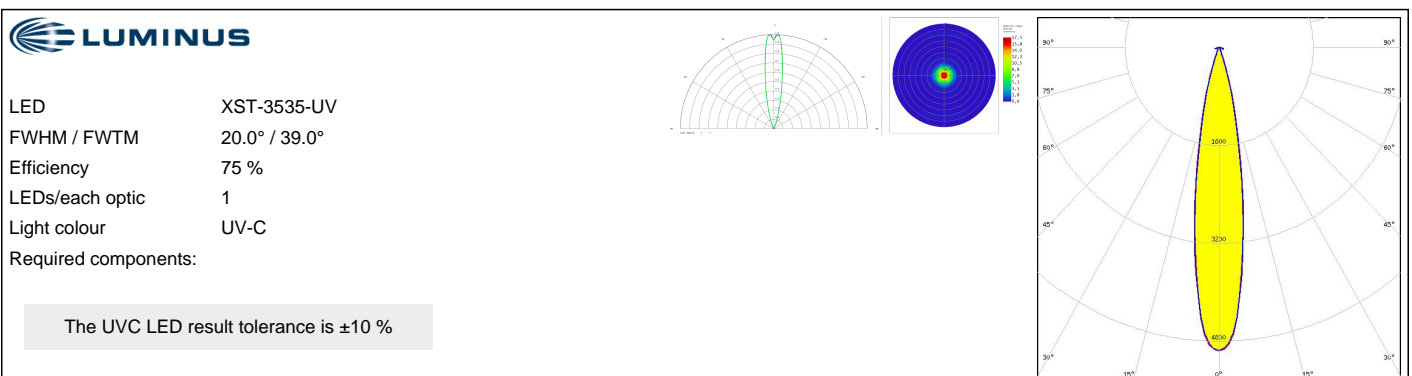
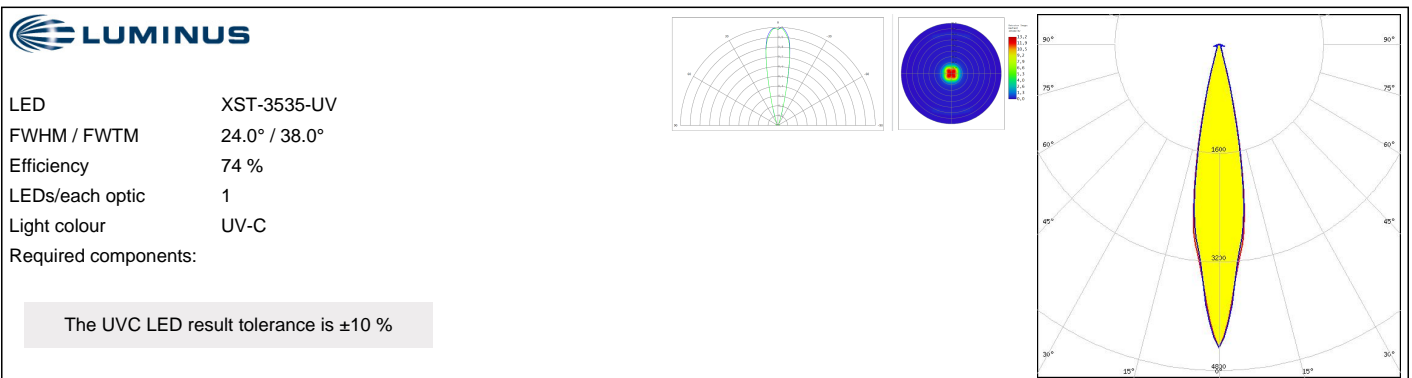
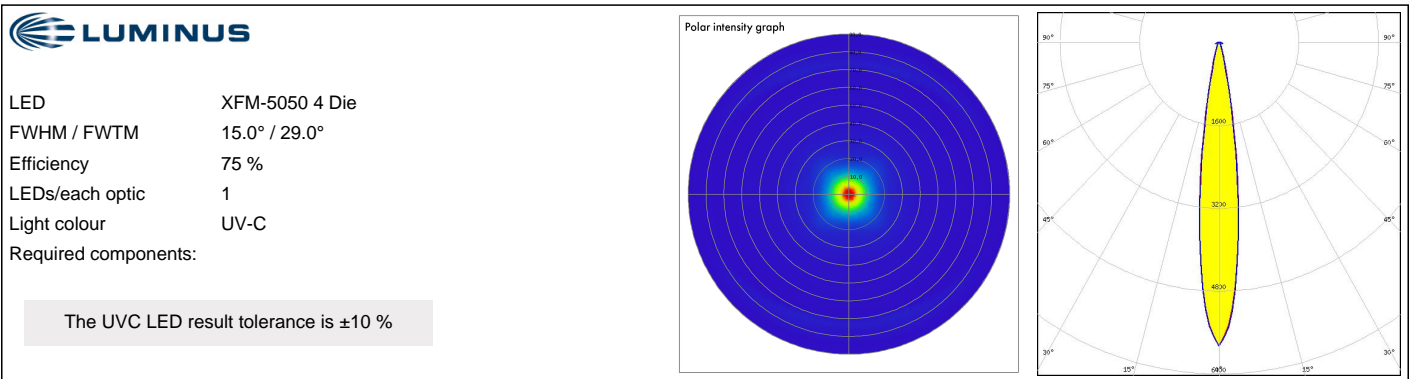
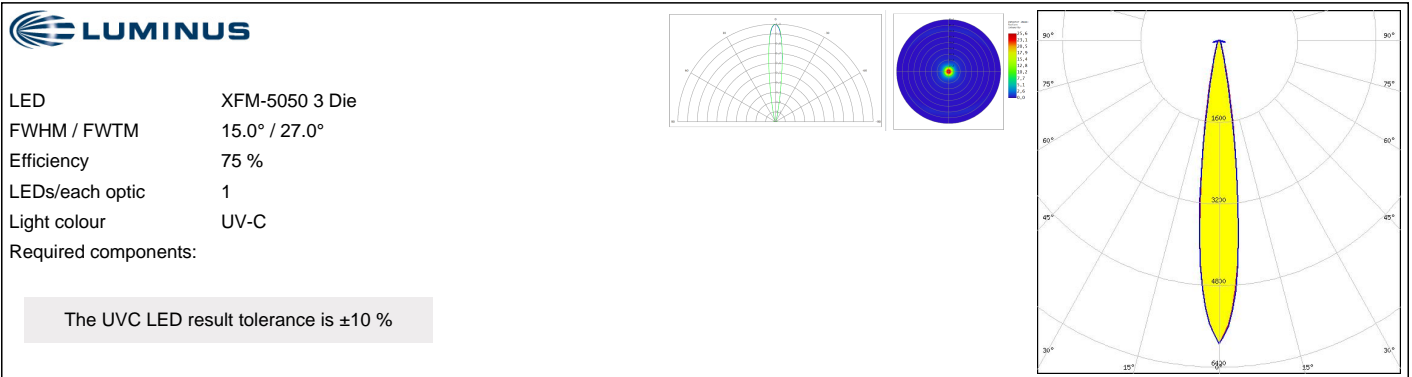


LED XFM-5050 2 Die
 FWHM / FWTM 12.0° / 23.0°
 Efficiency 74 %
 LEDs/each optic 1
 Light colour UV-C
 Required components:

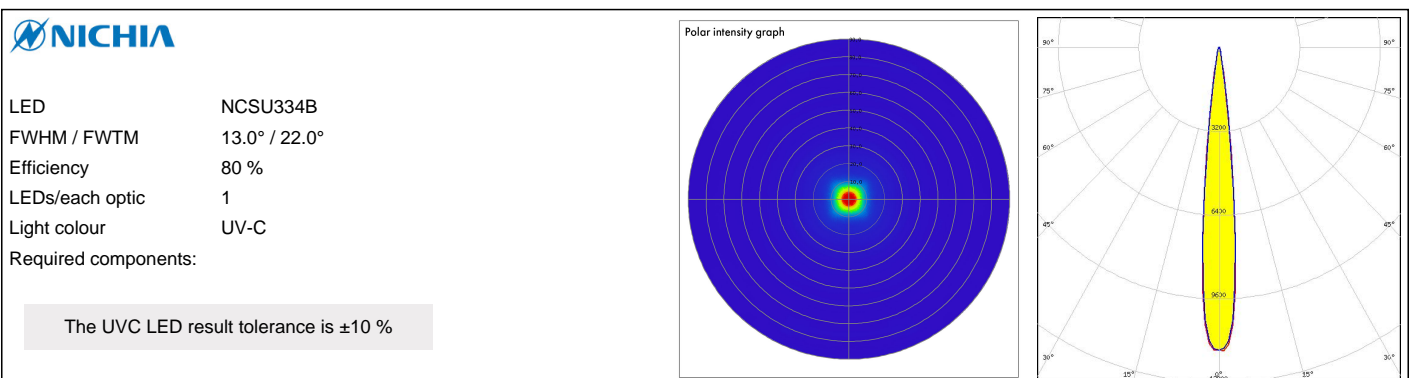
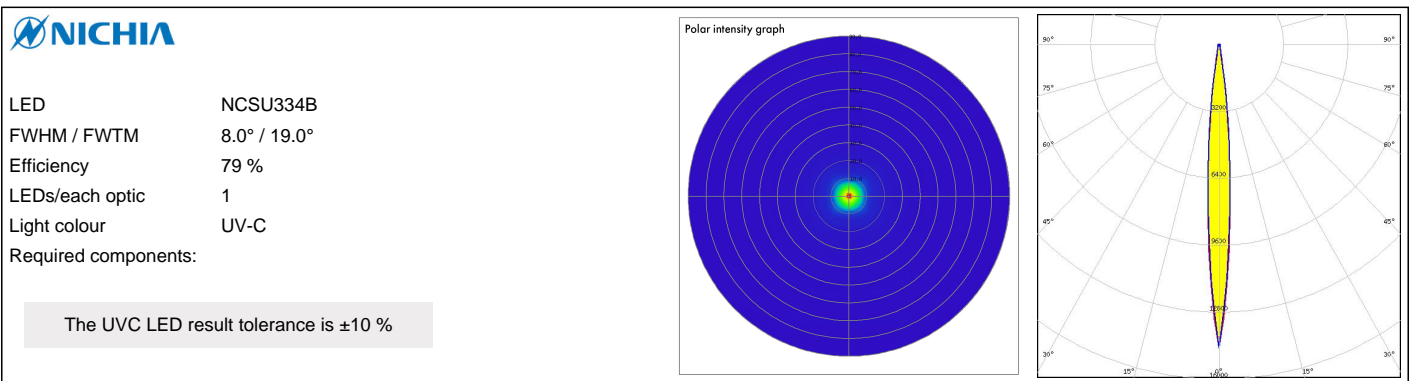
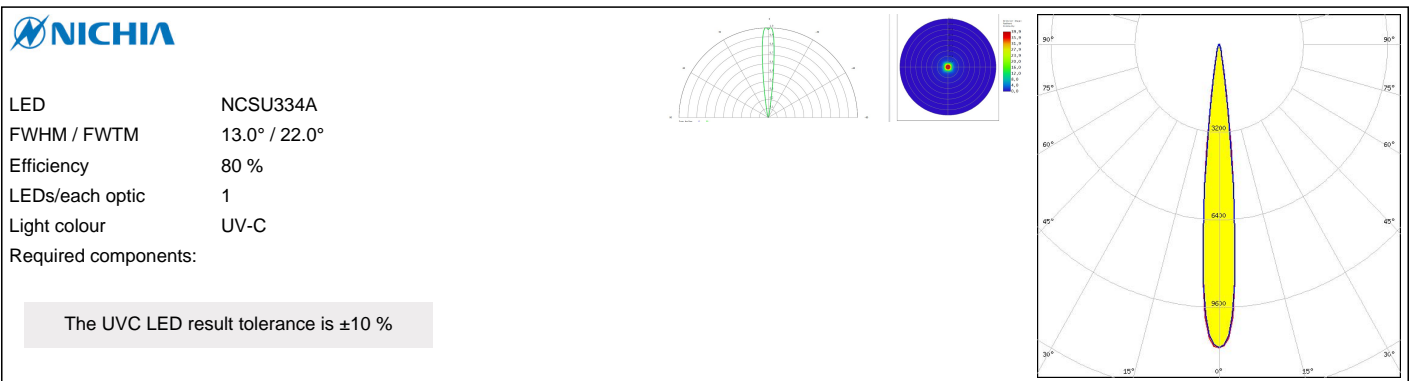
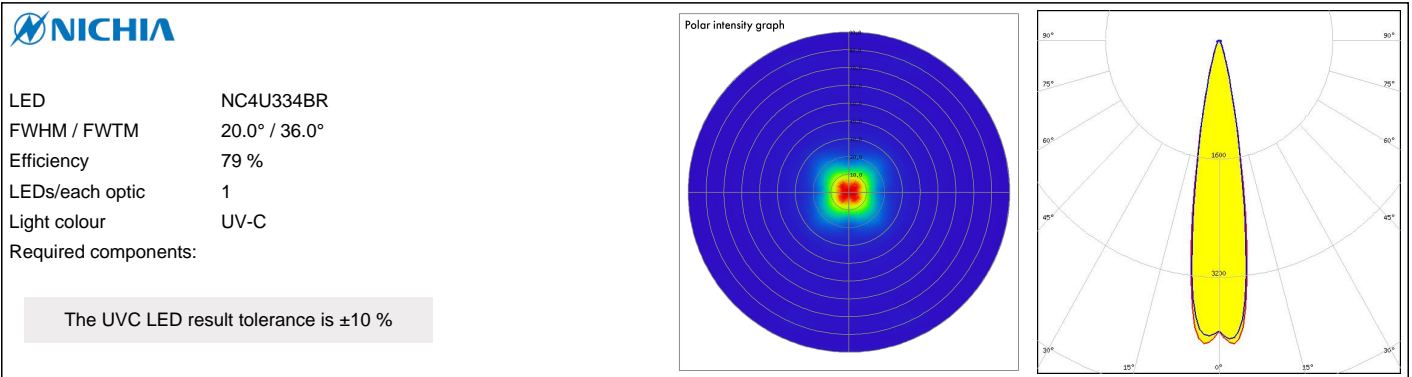
The UVC LED result tolerance is ± 10 %



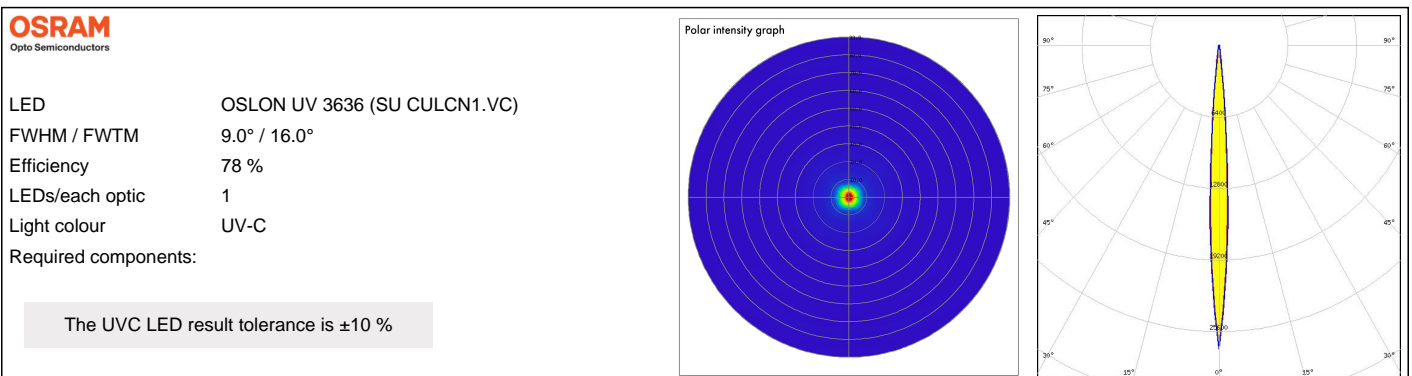
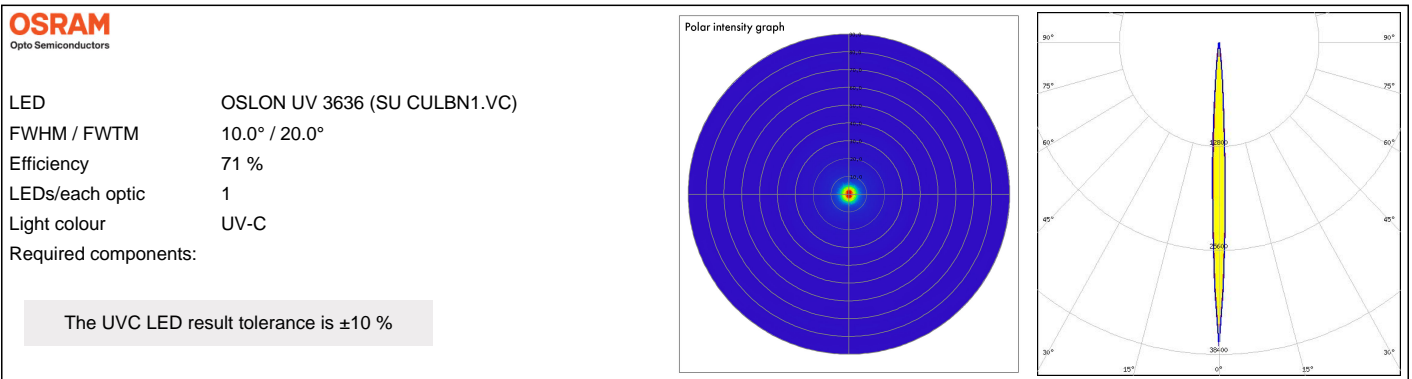
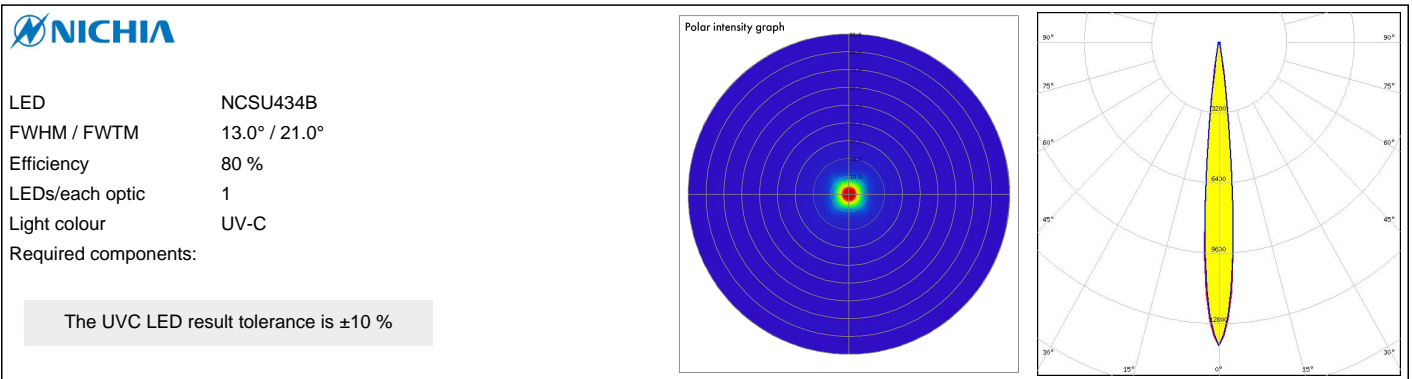
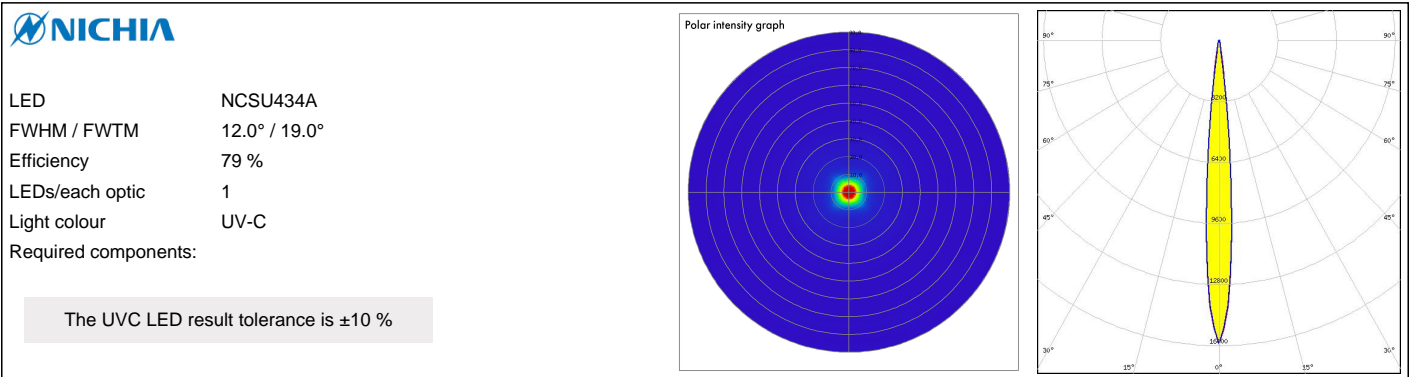
OPTICAL RESULTS (SIMULATED):



OPTICAL RESULTS (SIMULATED):



OPTICAL RESULTS (SIMULATED):

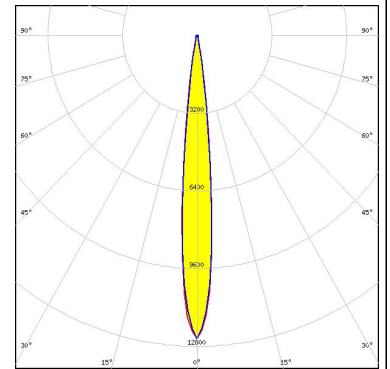
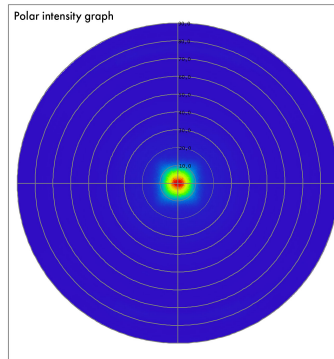


OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

LED OSLO[®] UV 3636 (SU CULDN1.VC)
 FWHM / FW_{TM} 12.0° / 22.0°
 Efficiency 78 %
 LEDs/each optic 1
 Light colour UV-C
 Required components:

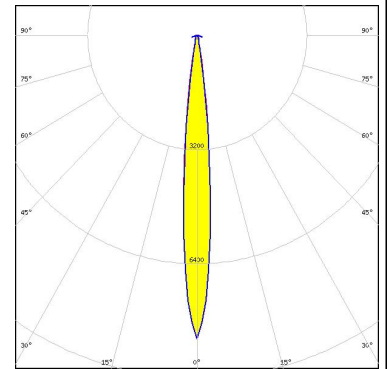
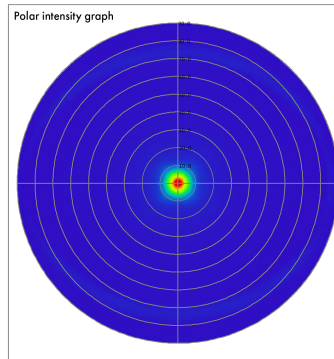
The UVC LED result tolerance is ±10 %



OSRAM
Opto Semiconductors

LED OSLO[®] UV 6060 (SU CZHEF1.VC)
 FWHM / FW_{TM} 11.0° / 20.0°
 Efficiency 68 %
 LEDs/each optic 1
 Light colour UV-C
 Required components:

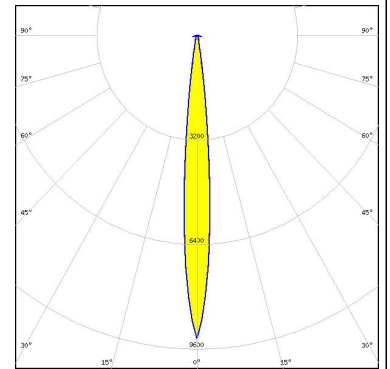
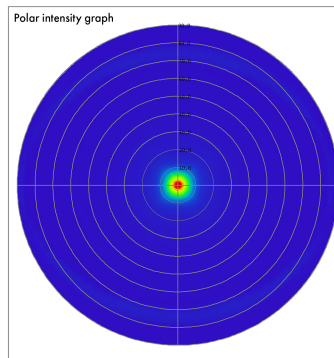
The UVC LED result tolerance is ±10 %



OSRAM
Opto Semiconductors

LED OSLO[®] UV 6060 (SU CZHPF1.VC)
 FWHM / FW_{TM} 10.0° / 20.0°
 Efficiency 71 %
 LEDs/each optic 1
 Light colour UV-C
 Required components:

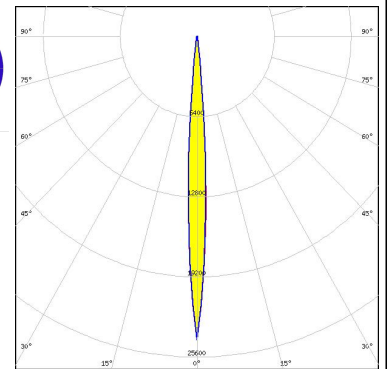
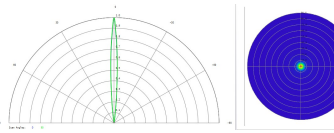
The UVC LED result tolerance is ±10 %



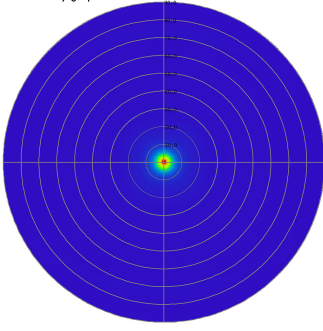
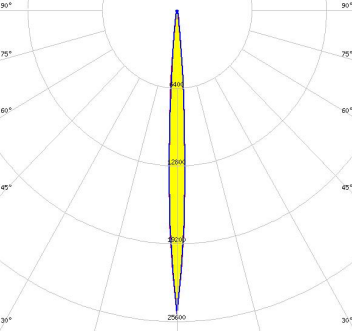
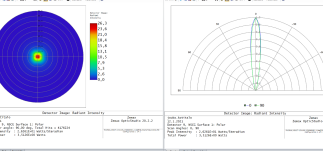
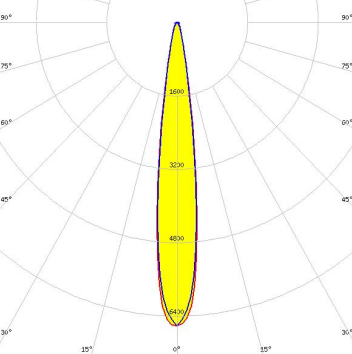
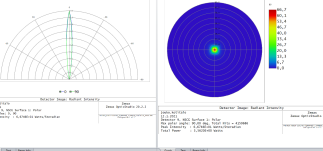
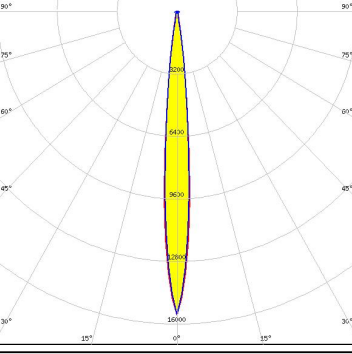
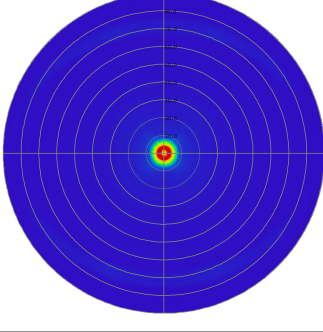

SEOL
SEOUL SEMICONDUCTOR

LED CUD7GF1A
 FWHM / FW_{TM} 7.0° / 14.0°
 Efficiency 73 %
 LEDs/each optic 1
 Light colour UV-C
 Required components:

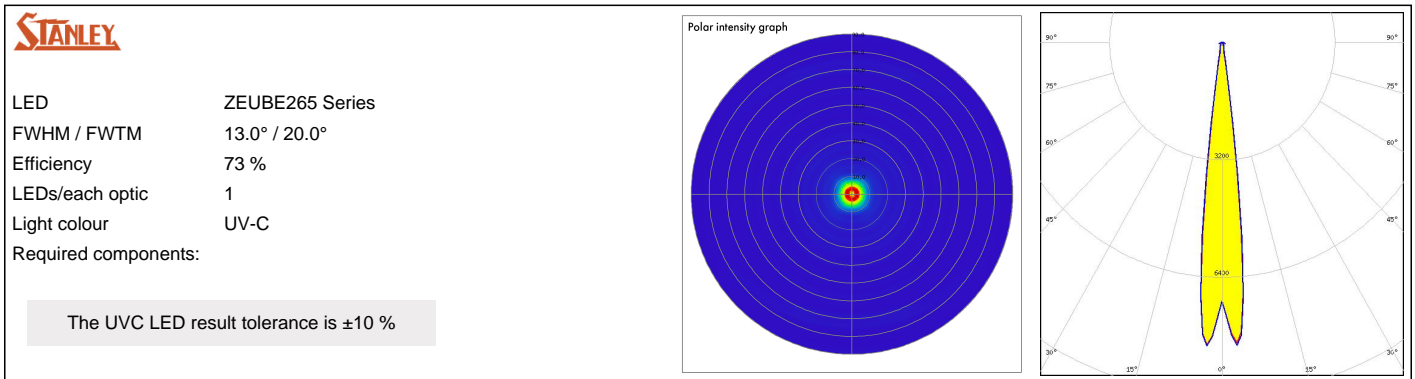
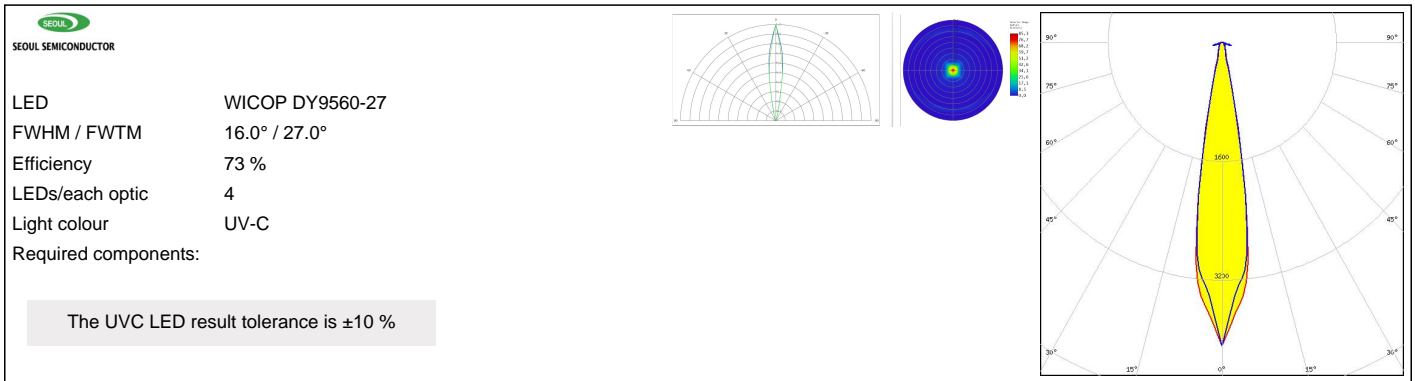
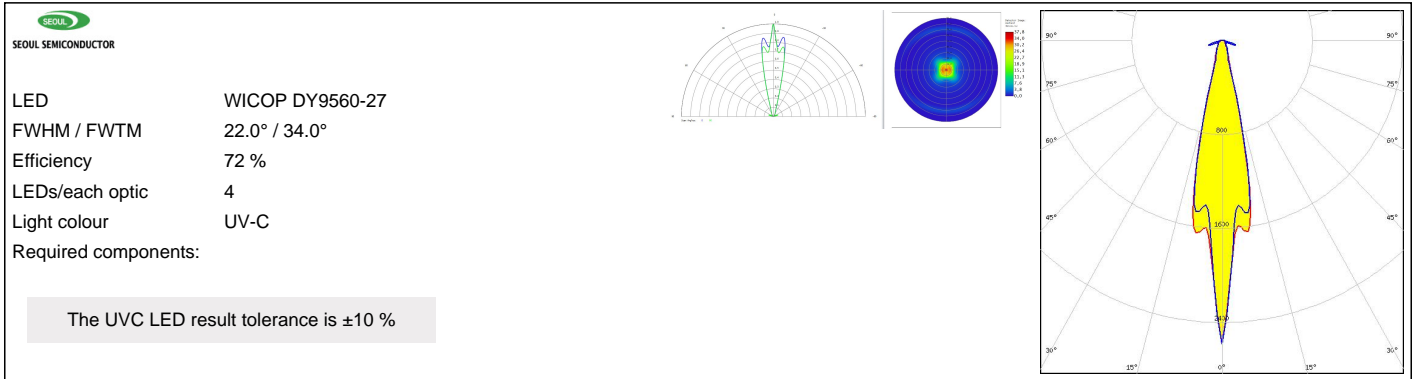
The UVC LED result tolerance is ±10 %



OPTICAL RESULTS (SIMULATED):

<p>SEOL SEMICONDUCTOR</p> <p>LED CUD7QF1A FWHM / FWTM 7.0° / 15.0° Efficiency 77 % LEDs/each optic 1 Light colour UV-C Required components:</p> <p>The UVC LED result tolerance is ±10 %</p>	<p>Polar intensity graph</p> 	
<p>SEOL SEMICONDUCTOR</p> <p>LED CUD8AF4D FWHM / FWTM 14.0° / 28.0° Efficiency 88 % LEDs/each optic 1 Light colour UV-B Required components:</p>		
<p>SEOL SEMICONDUCTOR</p> <p>LED CUN66A1B FWHM / FWTM 9.0° / 18.0° Efficiency 89 % LEDs/each optic 1 Light colour UV-A Required components:</p>		
<p>SEOL SEMICONDUCTOR</p> <p>LED WICOP DY9560-27 FWHM / FWTM 13.0° / 18.0° Efficiency 77 % LEDs/each optic 1 Light colour UV-C Required components:</p> <p>The UVC LED result tolerance is ±10 %</p>	<p>Polar intensity graph</p> 	

OPTICAL RESULTS (SIMULATED):



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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