

Product Guide for NCSU334A Specifications

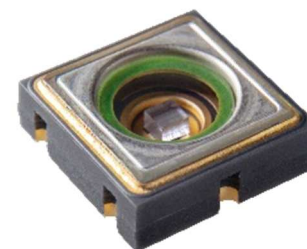
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$T_A=25^{\circ}\text{C}$, $I_F=350\text{mA}$
(Max. $I_F=500\text{mA}$)

Peak Wavelength	nm
Radiant Flux	mW
Efficacy	%
Forward Voltage	V
Directivity	deg.
Absolute Maximum Junction Temperature	$^{\circ}\text{C}$
Feature	-

NCSU334A



6.8×6.8×2.1mm

280
55
3.0
5.2
120
110
Hermetic Package

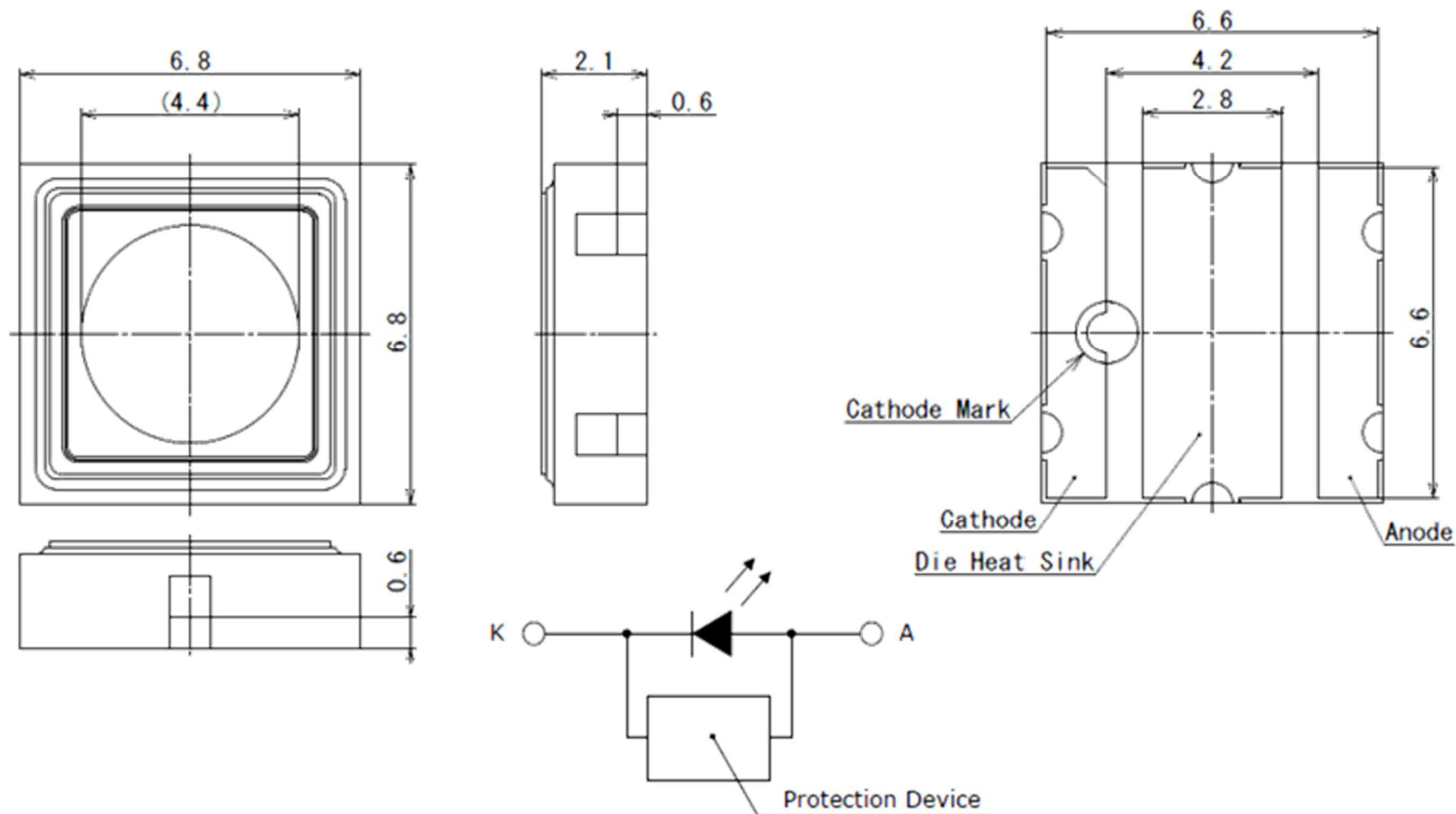
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Outline Dimensions

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Unit: mm

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Directivity

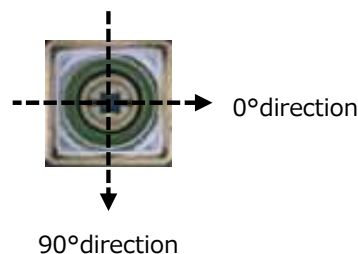
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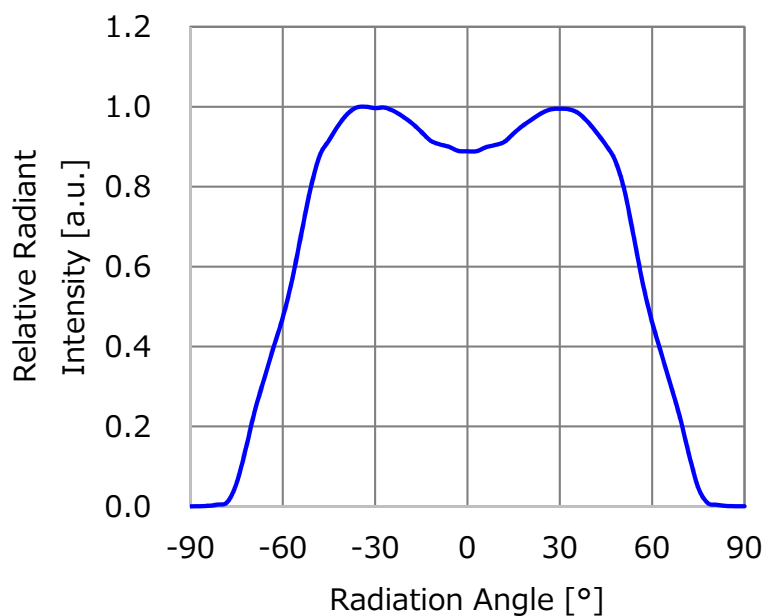
U280

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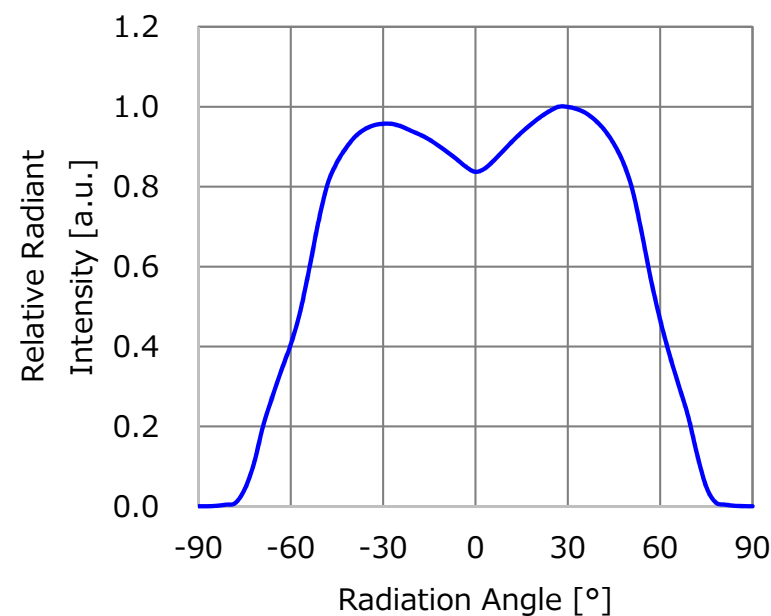
Measurement Conditions: $T_A=25^{\circ}\text{C}$, $I_{FP}=350\text{mA}$



0°direction



90°direction

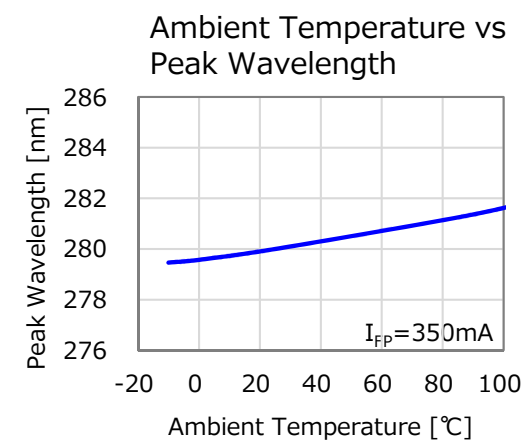
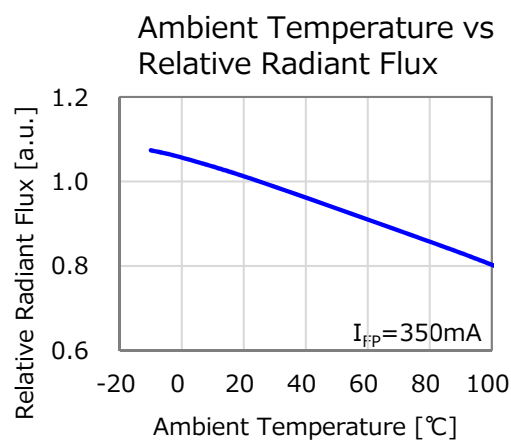
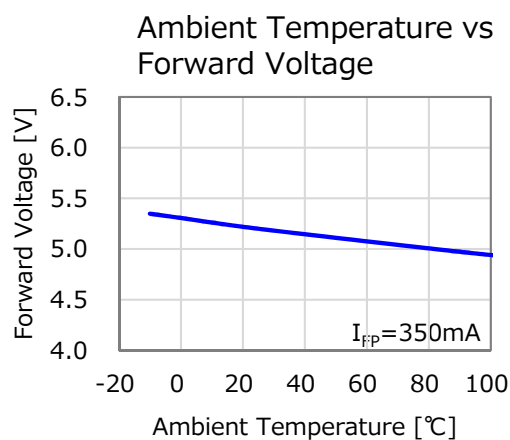
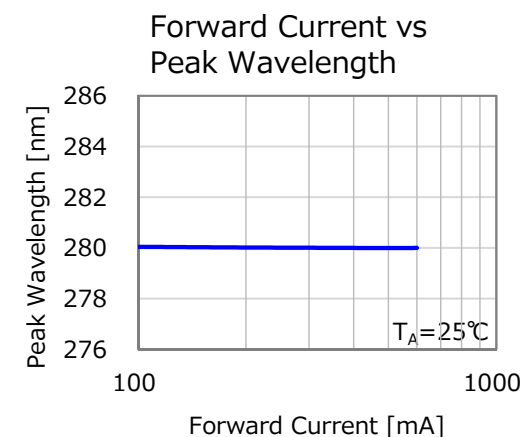
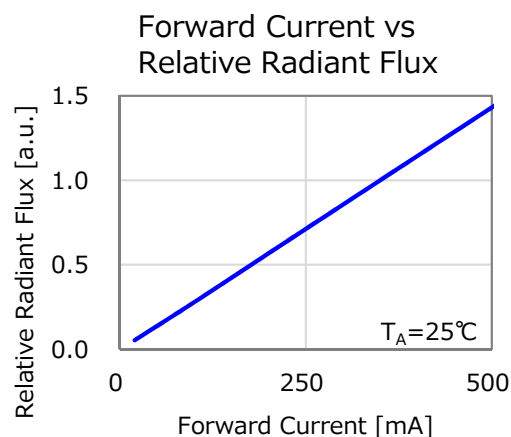
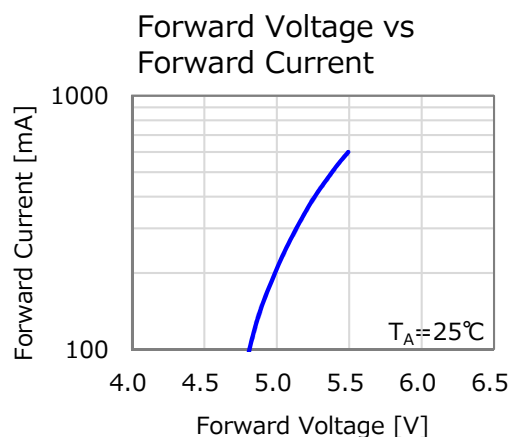


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Characteristics

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U280**NCSU334A**

Reference Data: 280nm LED Sterilization Test (E.coli)

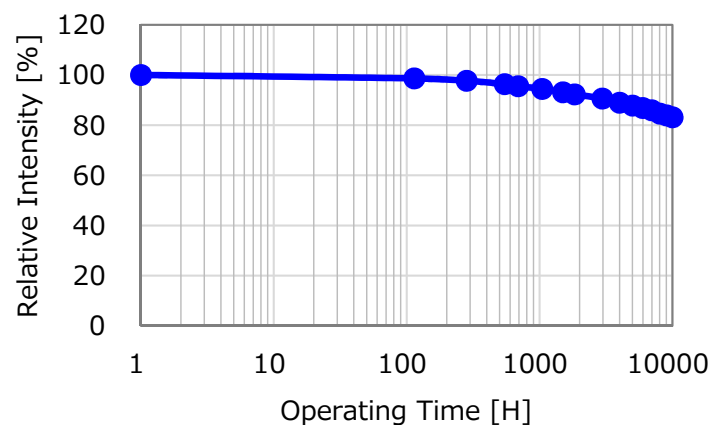
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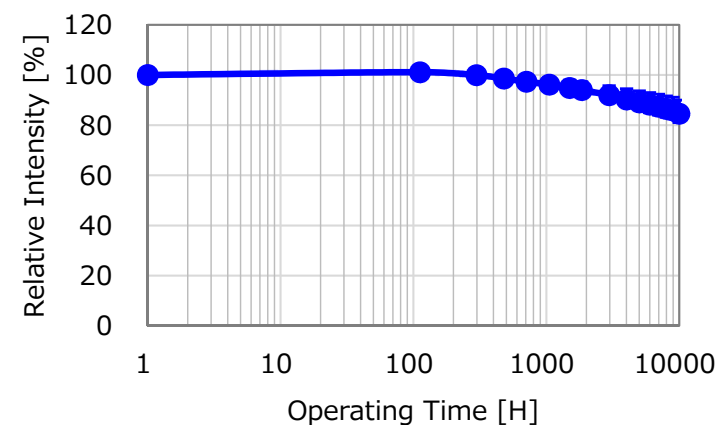
U280

Prototype (with Hermetic Package)

Test Condition: $T_A=25^{\circ}\text{C}$, $I_F=500\text{mA}$ ($T_J\approx 85^{\circ}\text{C}$)



Test Condition: $T_A=60^{\circ}\text{C}$, 90%RH, $I_F=350\text{mA}$ ($T_J\approx 102^{\circ}\text{C}$)



Note:

Nichia cannot make a guarantee these results. Please treat this data as the reference.

Note: This data is the results of the prototype.

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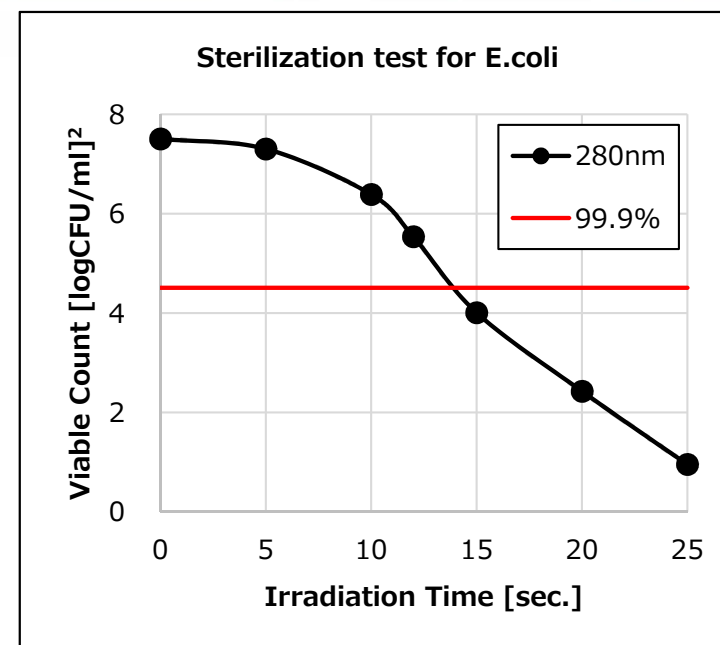
Reference Data: Sterilization Test (E.coli)

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Part No.		NCSU334A	Unit
Wavelength Rank		280	nm
Test Condition	Number of LED	1	pc.
	Forward Current	350	mA
	Peak Wavelength	280	nm
	Radiant Flux	59	mW
	Working Distance	50	mm
Irradiation ¹ Time	Gram Negative Bacteria	E.coli	14
		P.aeruginosa	6
	Gram Positive Bacteria	S.aureus	11

¹ Irradiation time for 99.9% sterilization.



² log = Logarithm
CFU = Colony Forming Unit

Irradiation Time	0 sec. (10,000 dilution)	5 sec. (10,000 dilution)	10 sec. (10,000 dilution)	15 sec. (10,000 dilution)	20 sec. (10,000 dilution)
E.coli Peak Wavelength 280nm Radiant Flux 59mW					

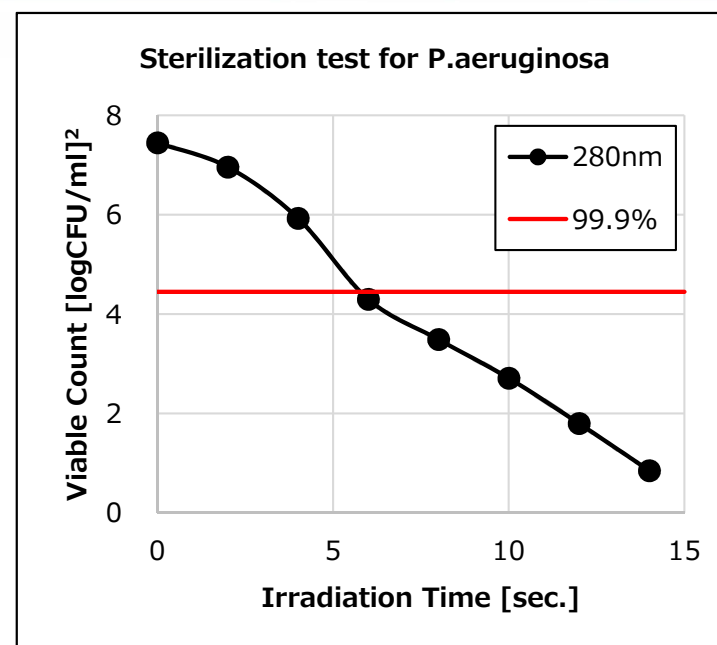
Note: This data is a reference value, hence Nichia cannot make guarantee these results. Please treat this data the as reference.

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Reference Data: Sterilization Test (*P.aeruginosa*)

Part No.		NCSU334A	Unit
Wavelength Rank		280	nm
Test Condition	Number of LED	1	pc.
	Forward Current	350	mA
	Peak Wavelength	280	nm
	Radiant Flux	59	mW
	Working Distance	50	mm
Irradiation ¹ Time	Gram Negative Bacteria	E.coli	14
		P.aeruginosa	6
	Gram Positive Bacteria	S.aureus	11

¹ Irradiation time for 99.9% sterilization.



² log = Logarithm
CFU = Colony Forming Unit

Irradiation Time	0 sec. (10,000 dilution)	2 sec. (10,000 dilution)	4 sec. (10,000 dilution)	6 sec. (10,000 dilution)	8 sec. (10,000 dilution)
<i>P.aeruginosa</i> Peak Wavelength 280nm Radiant Flux 59mW					

Note: This data is a reference value, hence Nichia cannot make guarantee these results. Please treat this data the as reference.

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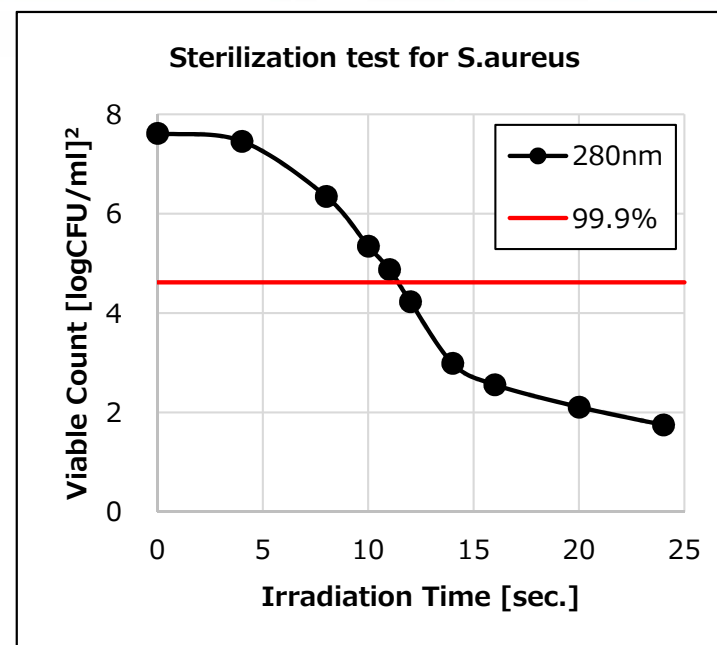
Reference Data: Sterilization Test (S.aureus)

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Part No.		NCSU334A	Unit
Wavelength Rank		280	nm
Test Condition	Number of LED	1	pc.
	Forward Current	350	mA
	Peak Wavelength	280	nm
	Radiant Flux	59	mW
	Working Distance	50	mm
Irradiation ¹ Time	Gram Negative Bacteria	E.coli	14
		P.aeruginosa	6
	Gram Positive Bacteria	S.aureus	11

¹ Irradiation time for 99.9% sterilization.



² log = Logarithm
CFU = Colony Forming Unit

Irradiation Time	0 sec. (10,000 dilution)	4 sec. (10,000 dilution)	8 sec. (10,000 dilution)	11 sec. (10,000 dilution)	14 sec. (10,000 dilution)
S.aureus Peak Wavelength 280nm Radiant Flux 59mW					

Note: This data is a reference value, hence Nichia cannot make guarantee these results. Please treat this data the as reference.

Below is Part No.
- NCSU334A