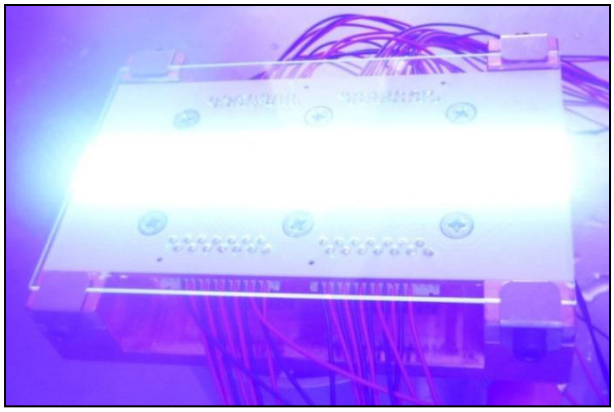
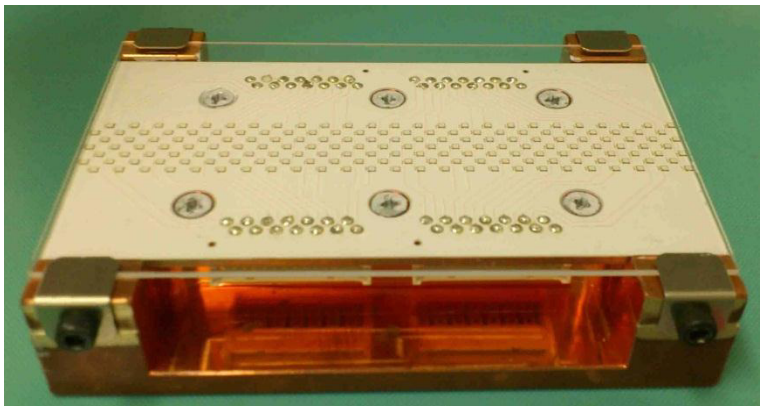
HU01C395V-175R-C

Ultra High Power UV Array

HU01C395V-175R-C is InGaN LED mounted on copper PCB with a Water Cooling Unit. These devices are available to be operated and 6.0W/cm² at 500mA.

Pictures





Specifications	
Product Name	Ultra High Power UV Array
Type No.	HU01C395V-175R-C
Chip Material	InGaN on Si Substrate
Chip Dimension	1.1mmx1.1mm
Chip Number	175pcs
Peak Wavelength	395nm typ.
Radiation Area	13mm(W)x100mm(L)
PCB	Copper (Thickness=2mm)
Cooling Way	Water
Cover Plate	Quartz Glass (t=1mm)
Gloss Weight	820g

Absolute Maximum Ratings				
Item	Symbol	Maximum Rated Value	Unit	Water Temperature
Power Dissipation	PD	350	W	Tw=25℃
Forward Current	IF	500/channel	mA	Tw=25℃
Cooling Water Temperature*	TCWT	+5 ~ +35	℃	
Storage Temperature	TSTG	-40 ~ +100	℃	

* Water Flow>1L/min at 20℃

RoHS Compliant

Marubeni America Corporation | 3945 Freedom Circle, Suite 1000, Santa Clara, CA95054
Tel: 408-330-0650 | Fax: 408-330-0655 | Email: sales@tech-led.com

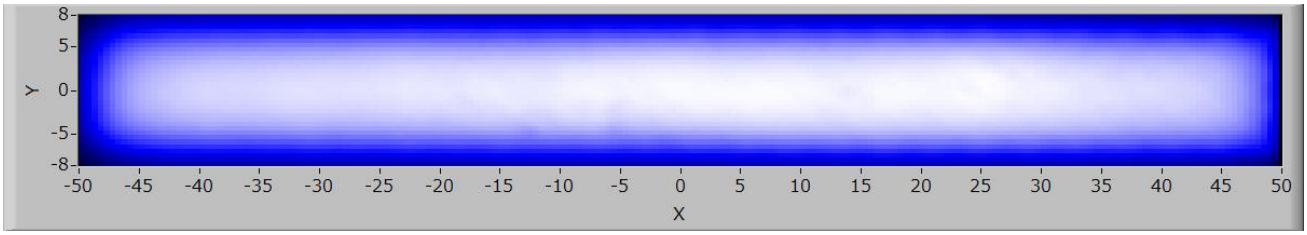
Electro-Optical Characteristics [Ta=25℃ typ.]							
Item	Symbol	Condition		Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=350mAx25ch			25	27	V
		IF=500mAx25ch			26		
Radiated Power*	PO	IF=350mAx25ch			70		W
		IF=500mAx25ch			95		
Radiant Intensity**	Ee	IF=500mA	D=2mm		4.8		W/cm²
			D=5mm		4.2		
			D=10mm		3.1		
Peak Wavelength	λP	IF=350mA			395		nm
Half Width	Δλ	IF=350mA			25		nm

* Measured by S3584-08

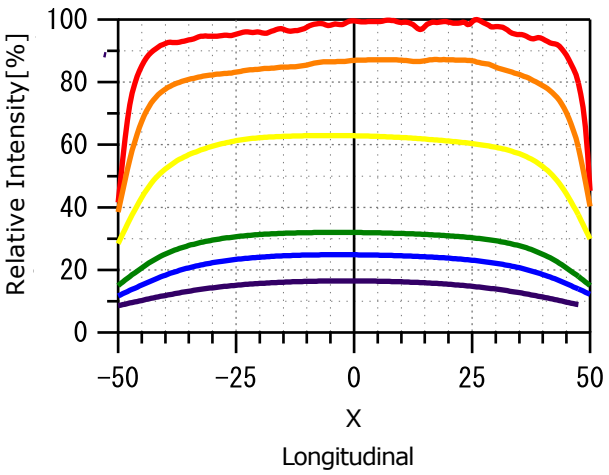
** Measured by USHIO UTI-150-A.

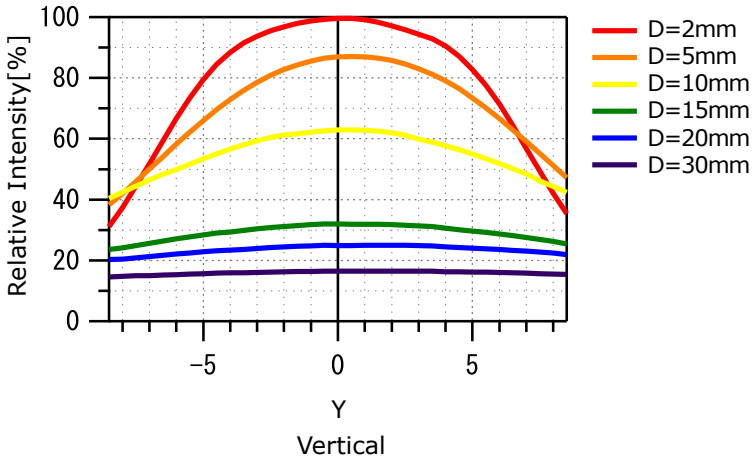
Uniformity of Radiated Intensity (typical)

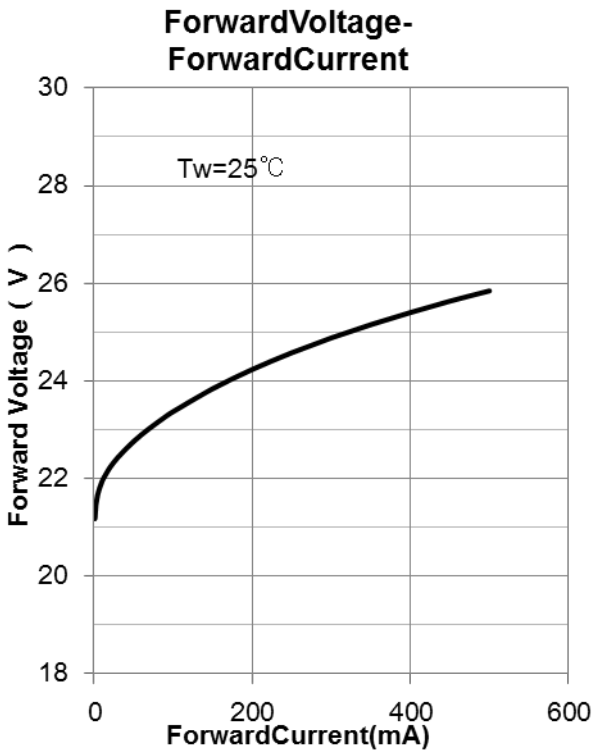
The Picture illustrates at D=2mm (D: the distance from the quartz glass.)

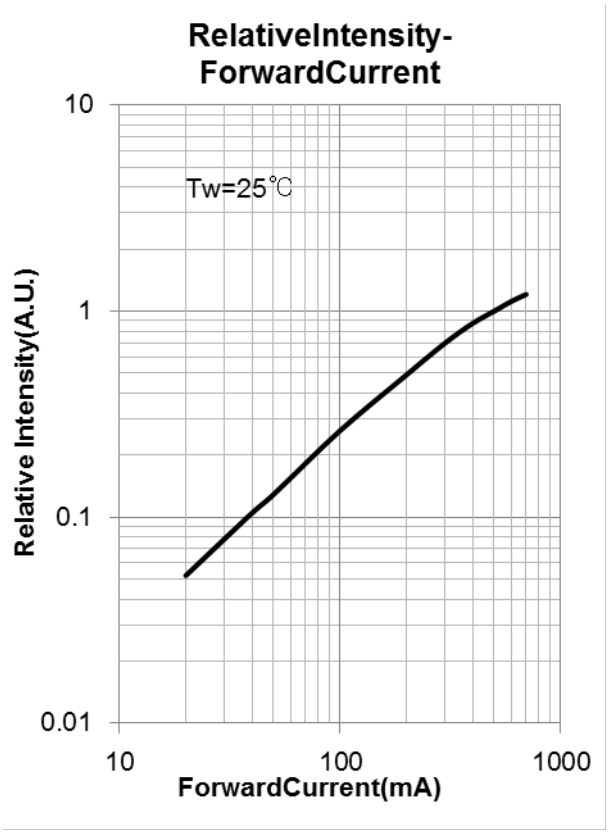


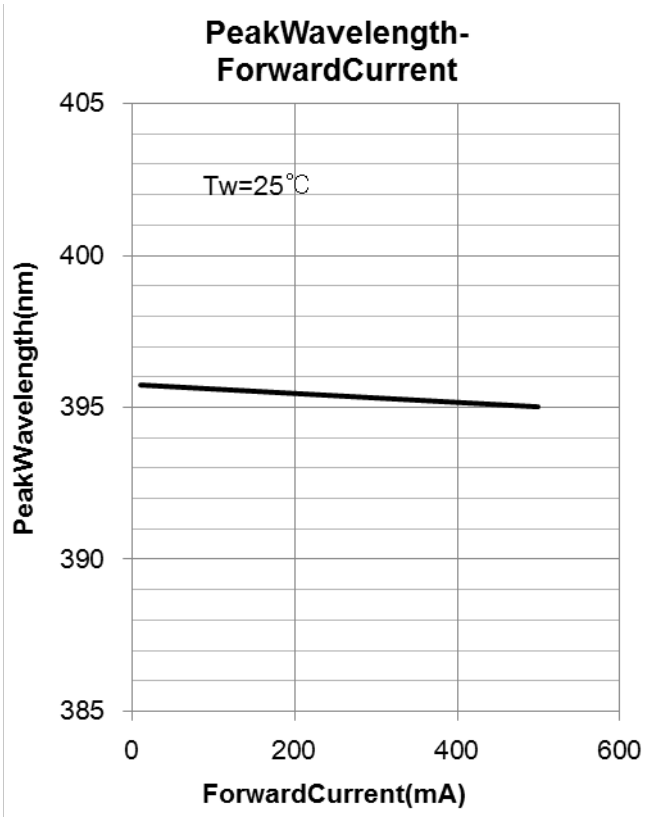
The distribution at each distance are shown;

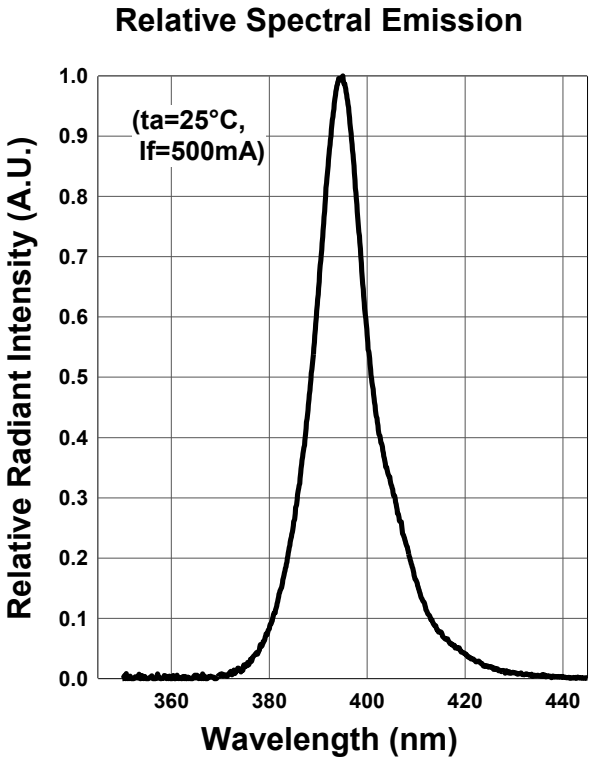


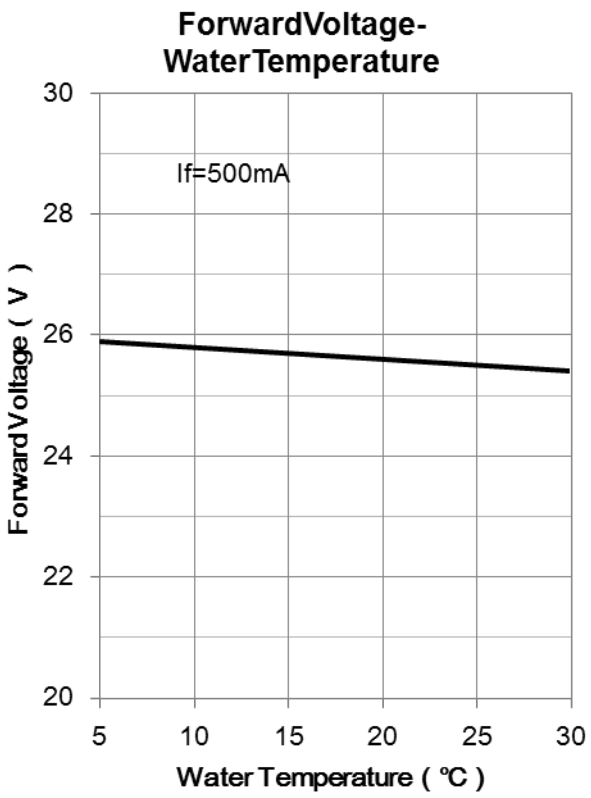


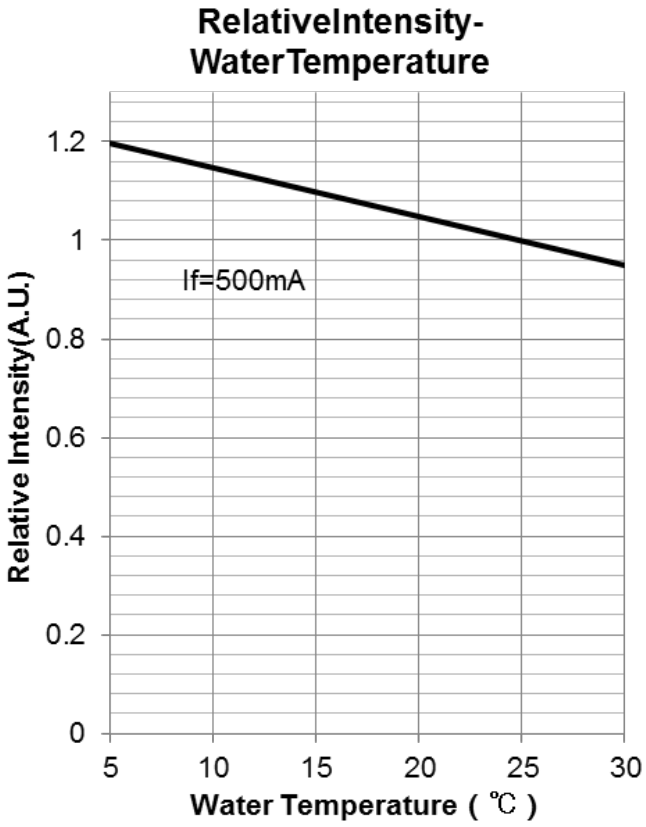

ForwardVoltage-
ForwardCurrent
Tw=25℃
Forward Voltage (V)
30
28
26
24
22
20
18
0
200
400
600
ForwardCurrent(mA)

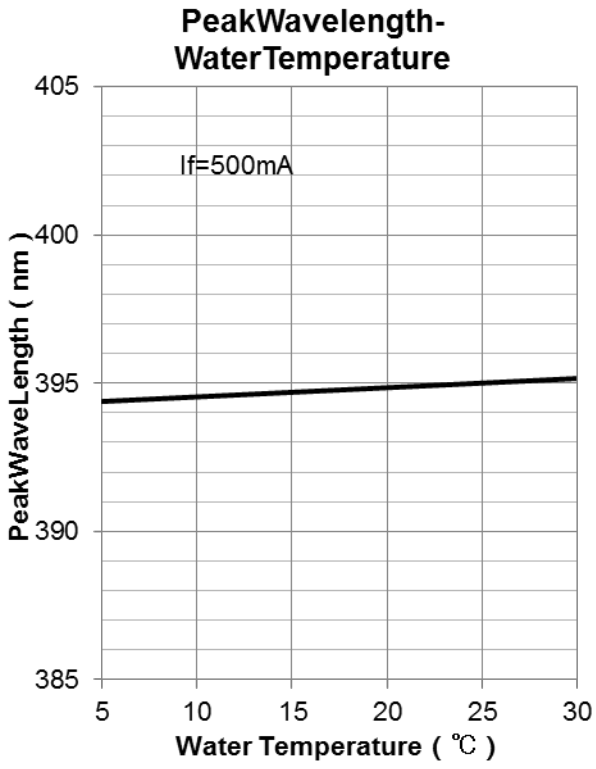

RelativeIntensity-
ForwardCurrent
Tw=25℃
Relative Intensity(A.U.)
10
1
0.1
0.01
10
100
1000
ForwardCurrent(mA)


PeakWavelength-
ForwardCurrent
Tw=25℃
PeakWavelength(nm)
405
400
395
390
385
0
200
400
600
ForwardCurrent(mA)


Relative Spectral Emission
(ta=25°C,
If=500mA)
Relative Radiant Intensity (A.U.)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
360
380
400
420
440
Wavelength (nm)


ForwardVoltage-
WaterTemperature
If=500mA
ForwardVoltage (V)
30
28
26
24
22
20
5
10
15
20
25
30
Water Temperature (℃)


RelativeIntensity-
WaterTemperature
If=500mA
Relative Intensity(A.U.)
1.2
1
0.8
0.6
0.4
0.2
0
5
10
15
20
25
30
Water Temperature (℃)


PeakWavelength-
WaterTemperature
If=500mA
PeakWaveLength (nm)
405
400
395
390
385
5
10
15
20
25
30
Water Temperature (℃)

Disclaimer

Product specifications and data shown in this product catalog are subject to change without notice for the purposes of improving product performance, reliability, design, or otherwise.

Product data and parameters in this catalog are typical values based on reasonably up-to-date measurements. Product data and parameters may vary by user application and over time.

Products shown in this catalog are intended to be used for general electronic equipment. Products are not guaranteed for applications where product malfunction or failure may cause personal injury or death, including but not limited to life-supporting / saving devices, medical devices, safety devices, airplanes, aerospace equipment, automobiles, traffic control systems, and nuclear reactor control systems.

2013.01

Marubeni America Corporation | 3945 Freedom Circle, Suite 1000, Santa Clara, CA95054
Tel: 408-330-0650 | Fax: 408-330-0655 | Email: sales@tech-led.com