



Spec. No.	PS-U71HYL4-A0R
Rev.	A

PRODUCT SPECIFICATION

Model No: CSPR-U71HYL4-A0R

Descriptions:
<ul style="list-style-type: none"> • LED Type : Superbright Lamp • LED Package : Piranha LED Lamp • Emitting Color : Yellow • Viewing Angle : 130° • Stopper



CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

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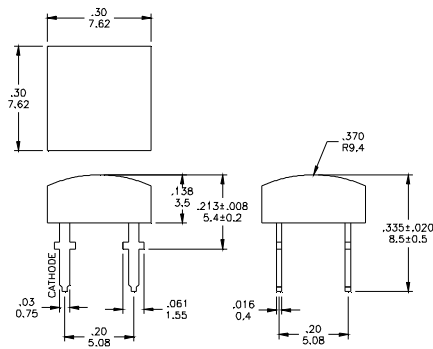
Features -

1. High Current Operation
2. High Luminous Output
3. High Reliability and Solid
4. Optimal Optical/Mechanical Design
5. Packaged in Tubes for Use with Automatic Pick and Place Equipment
6. Rohs Compliant

Device Selection Guide -

Part No.	Chip		LED Lens
	Material	Emitted Color	
CSPR-U71HYL4-A0R	AllnGaP	Yellow	Water Transparent

Package Outline Dimensions -



* Tolerance : ± 0.25 [0.01] Unit : \pm mm[inch]



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■ Absolute Maximum Rating -

(Ta=25°C)

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	200	mW
Forward Current (DC)	IF	70	mA
Peak Forward Current *	IFP	120	mA
Reverse Voltage	VR	5	V
Operating Temp.	Topr	-30 ~ +80	°C
Storage Temp.	Tstg	-40 ~ +100	°C
Lead Soldering Temperature	Tsol	Max. 260 °C for 5 sec Max. (3mm from the epoxy bulb)	

* Pulse width ≤ 0.1 msec. duty $\leq 1/10$

■ Electro-optical Characteristics -

(Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage	VF	-----	2.6	3.2	V	IF=70mA
Luminous Flux	Φv	3000	5000	-----	mlm	
Dominant Wavelength	λd	-----	590	-----		
Viewing Angle	2θ 1/2	-----	130	-----	deg	
Reverse Current	IR	-----	-----	50	μA	VR=5V



■ Luminous Flux Rank Limits ($I_F = 70\text{mA}$)

unit : mlm

Part No. Code	CSPR-U71HYL4-A0R	
	min.	max.
F	3000	3500
G	3500	4000
H	4000	5000
J	5000	6000
K	6000	7000

■ Dominant Wavelength Rank Limits ($I_F = 70\text{mA}$)

unit : nm

Part No. Code	CSPR-U71HYL4-A0R	
	min.	max.
Y6	586.5	588
Y7	588	590
Y8	590	592
Y9	592	594
Y10	594	596

■ Forward Voltage Rank Limits ($I_F = 70\text{mA}$)

unit : V

Part No. Code	CSPR-U71HYL4-A0R	
	min.	max.
E	2.2	2.4
F	2.4	2.6
G	2.6	2.8
H	2.8	3.0
J	3.0	3.2

Notes:

1. Tolerance of measurement of luminous Flux :±15 %
2. Tolerance of measurement of dominant wavelength :±2nm
3. Tolerance of measurement of forward voltage :±0.05v
4. All data are measured by CSC's test equipment.
5. One delivery will include several color rank, VF rank and Iv ranks of the products.
6. The quantity-ratio of the ranks is decided by CSC.
7. Please confirm with CSC salesman,if your request different form standard specification.



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Typical Electrical / Optical Characteristics Curves -

(Ta = 25°C Unless Otherwise Noted)

Fig 1. Forward Current vs. Forward Voltage

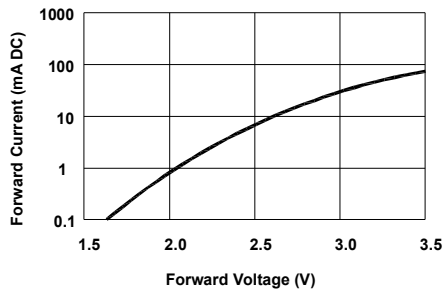


Fig 2. Relative Intensity vs. Forward Current

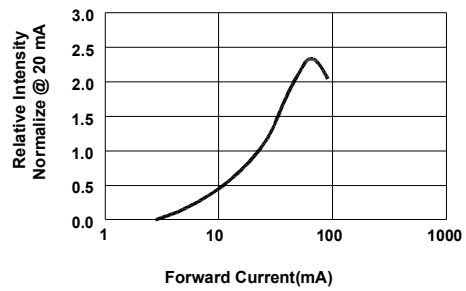


Fig 3. Forward Voltage vs. Temperature

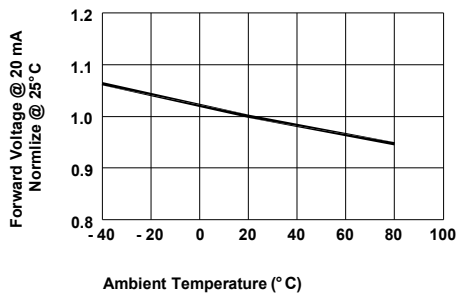


Fig 4. Relative Intensity vs. Temperature

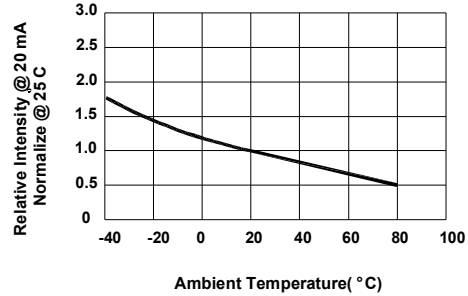


Fig 5. Relative Intensity vs. Wavelength

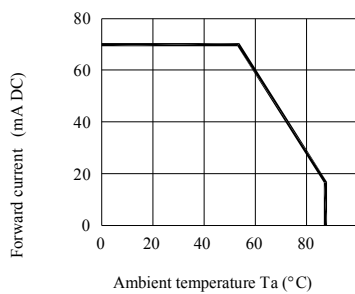


Fig 6. Radiation Diagram

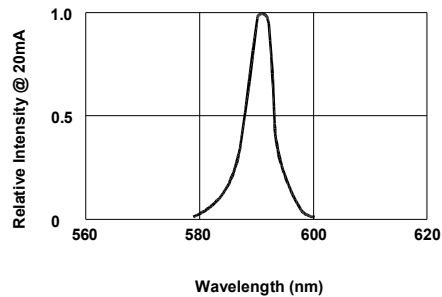
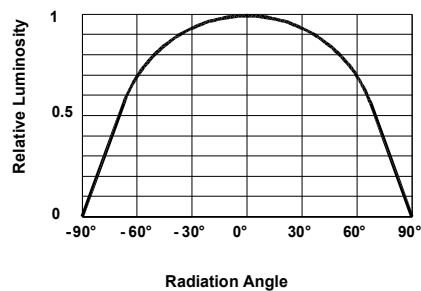


Fig 7. Radiation Diagram



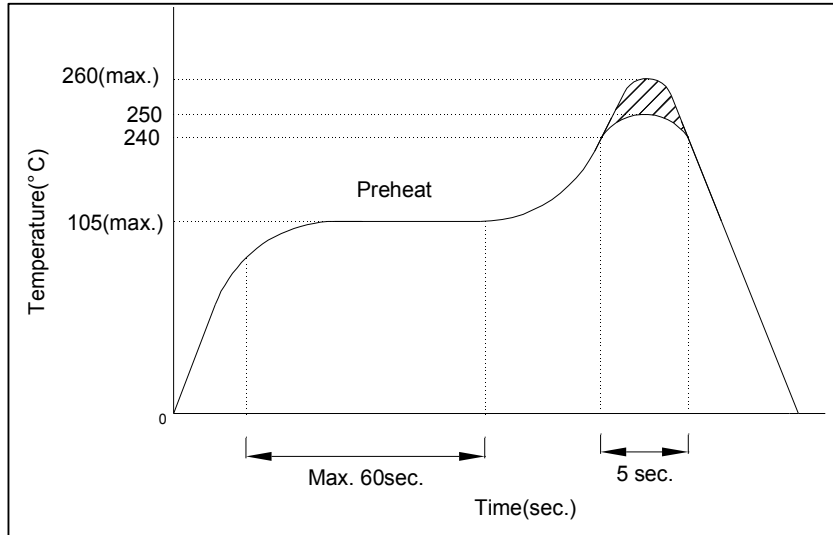


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■ Precautions For Use -

1. Recommended Soldering conditions

Wave Soldering



2. Soldering Iron

Basic SPEC. is $\leq 5\text{sec.}$ When 260°C . If temperature is higher, time should be shorter ($+10^{\circ}\text{C} \rightarrow -1\text{sec.}$). Power dissipation of iron should be smaller than 15W, and temperature should be controllable. Surface temperature of the device should be under 230°C .

3. Static Electricity

- a. Static electricity or surge voltage damages LEDs..
It is recommended that a wrist band or an anit-electrostatic glove be used when handling the LEDs.
- b. All devices, equipment and machinery must be properly grounded. It is recommended that mesures be taken against surge voltage to the equipment that mounts the LEDs.

■ Revision History

Rev. NO	Date	Change Description
A	2009-7-28	

CSC has the right to updata the information without notice,
Please confirm with CSC salesman for the latest version.