

# PRODUCT SPECIFICATION



Part No.: WL-P300EP4242R140-630

High Power LED

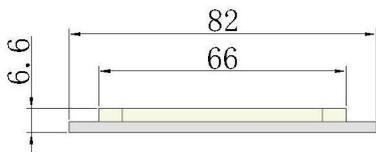
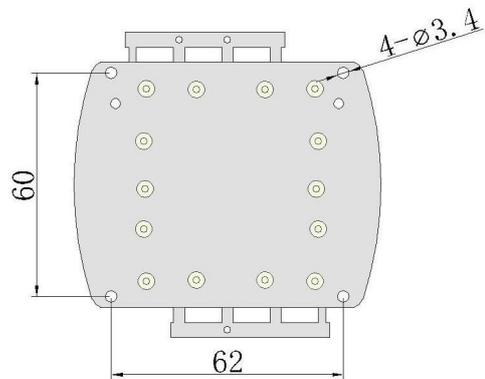
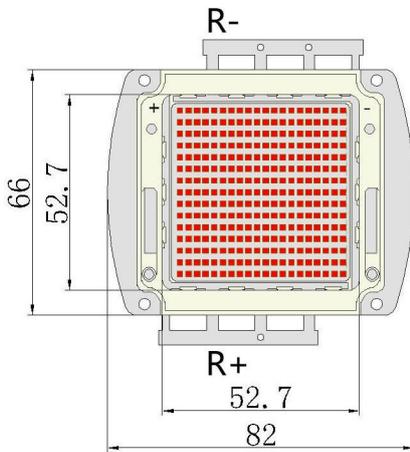
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## 1. Product Features

- High Brightness Red LED Plane
- Chip Material: AlGaInP
- Package
- RoHS Compliant
- Viewing Angle 140 Degree

## 2. Dimensions



### Notes:

1. All dimensions are in millimeters.
2. Tolerance is  $\pm 0.1$ mm unless otherwise noted.

### 3. Absolute Maximum Rating @ Ta=25° C

Parameter	Symbol	Maximum Rating	Unit
Continuous Forward Current	IF	5250	mA
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	IFp	5500	mA
Reverse Voltage	VR	58	V
Power Dissipation	PD	230	W
Electrostatic Discharge	ESD	1000	V
Operating Temperature Range	TOPR	-25°C to +80°C	
Storage Temperature Range	TSTG	-35°C to +100°C	
Soldering iron welding temperature (reflow welding is not allowed)	TSOL	350°C	

### 4. Optical Character @ Ta=25° C

Parameter	Symbol	Color	Min.	Typ.	Max.	Unit	Test Condition
Forward Voltage	VF	R	42	43	44	V	IF=5250mA
Luminous Flux	Φ	R	15000	17500	20000	Lm	IF=5250mA
Peak Wavelength	WIP	R	630	633	635	nm	IF=5250mA
Reverse Current	IR		0		10	μA	VR=65V
Viewing Angle	2θ1/2				140	deg	IF=5250mA
Recommend Forward Current	IF(rec)	R			5250	mA	

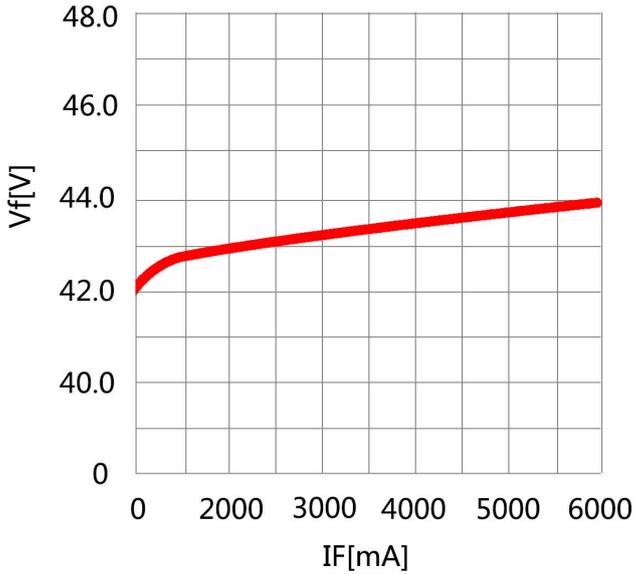
#### Notes:

Measurement tolerance of forward voltage ±0.1V

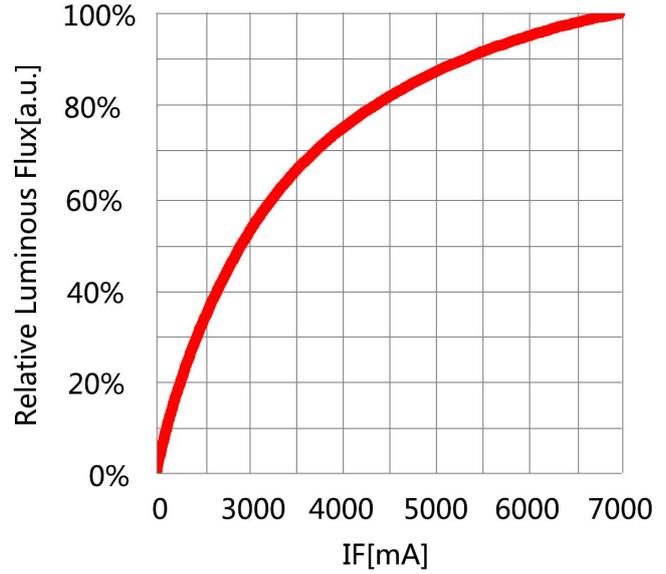
## 5. Optical Character Curves

( 25 ° Ambient Temperature Unless Otherwise Noted )

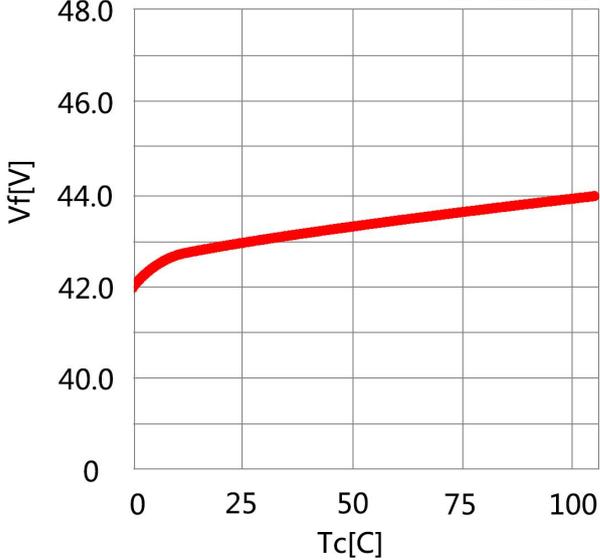
Forward Current vs. Forward Voltage  
Tc=25C



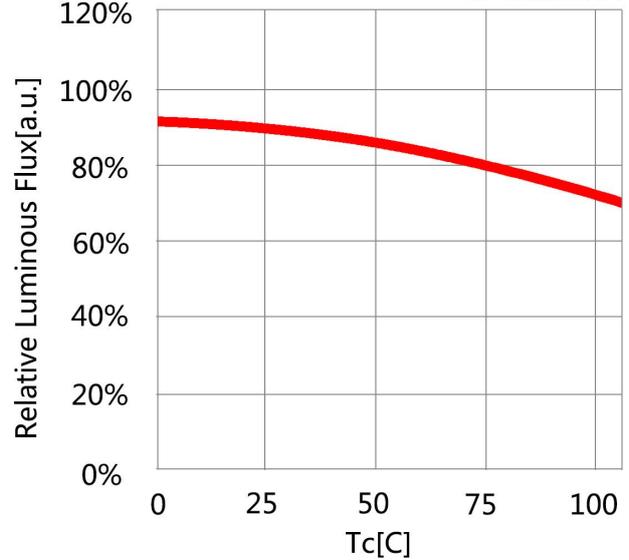
Forward Current vs. Relative Luminous Flux  
Tc=25C



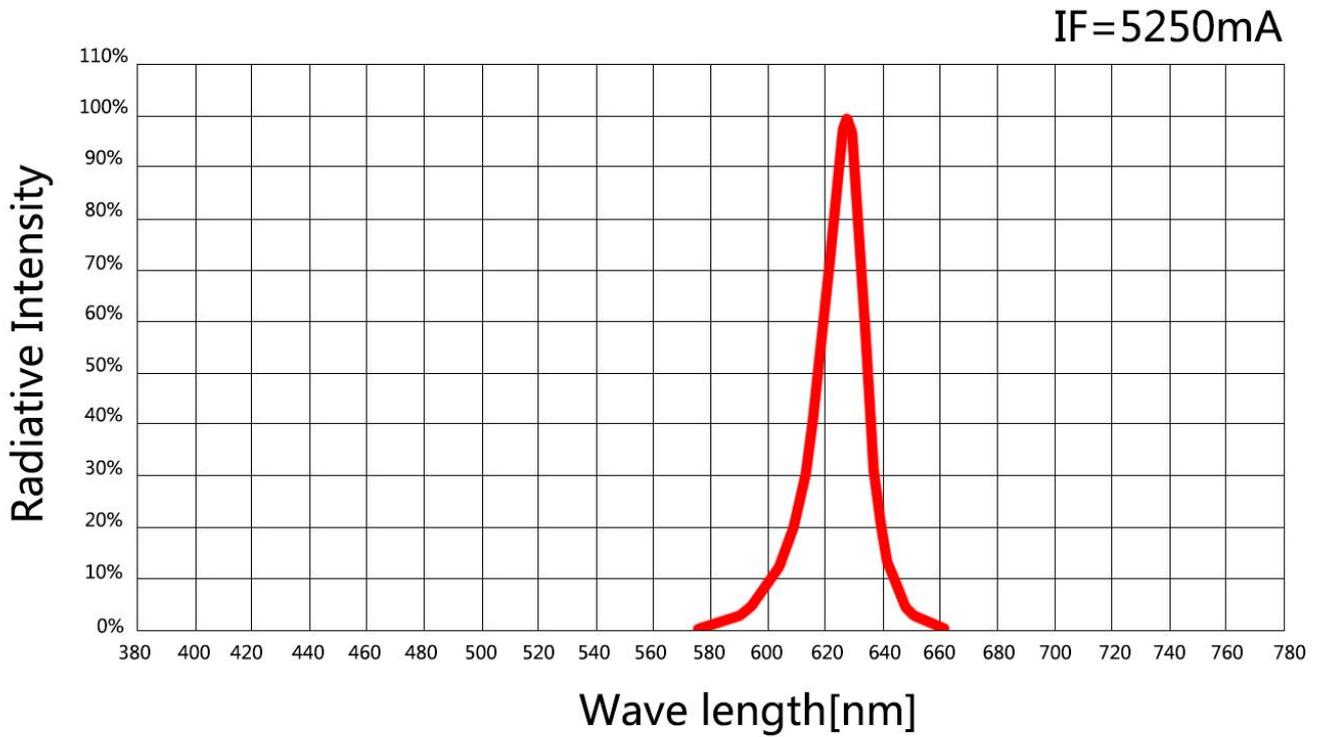
Case Temperature vs. Forward Voltage  
If=5250mA



Case Temperature vs. Relative Luminous Flux  
If=5250mA



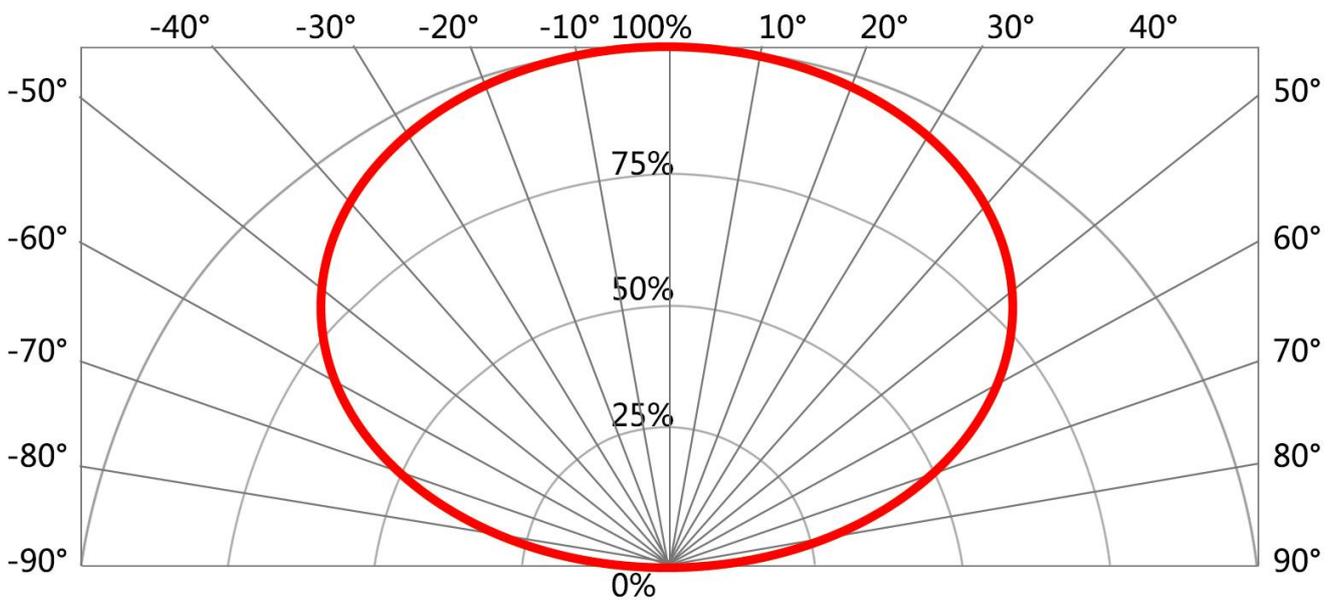
## 6. Spectrum Curves



## 7. Viewing Angle Curves

Radiation Characteristic

IF=5250mA



## 8.Cautions

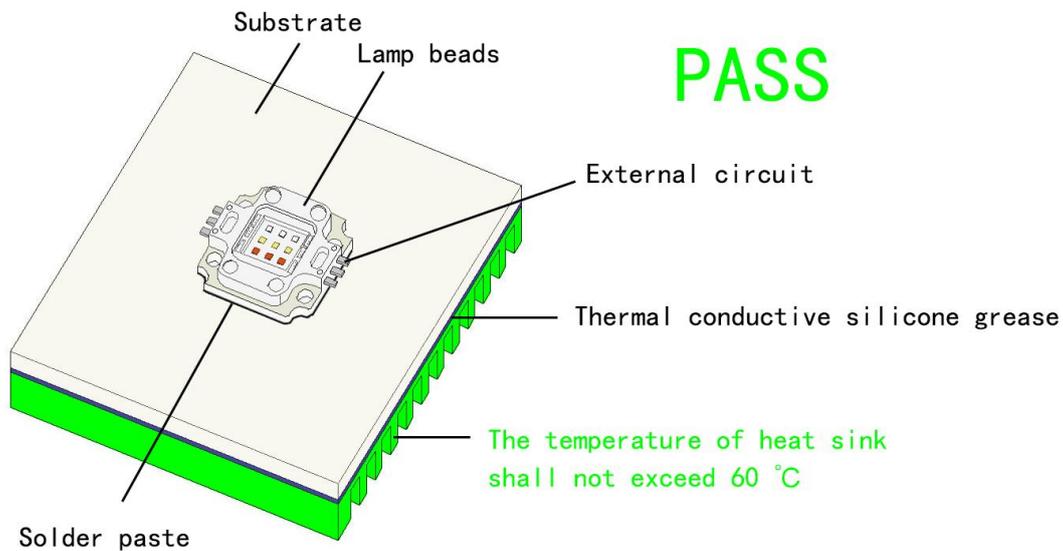
### 1. Electrostatic Treatment

Do a full range of anti-static measures (such as: anti-static ring, anti-static clothes, machine, equipment grounding wire, etc.)



### 2. Heat Dissipation

- A、 It is recommend to configure reasonable heat dissipation device for the product.
- B、 The best working temperature range of the product is 40-60°. It is recommended to control the working temperature of the product within a reasonable range.



**OK**

