

PRODUCT SPECIFICATION



Part No.: WL-P300EP4242DR140-660
High Power LED

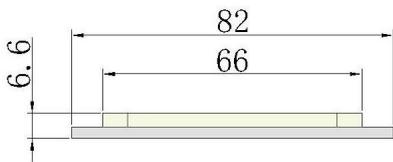
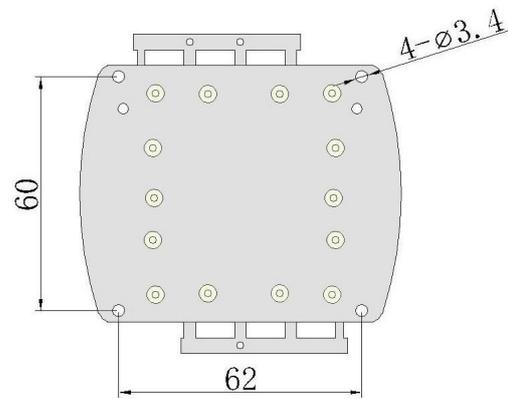
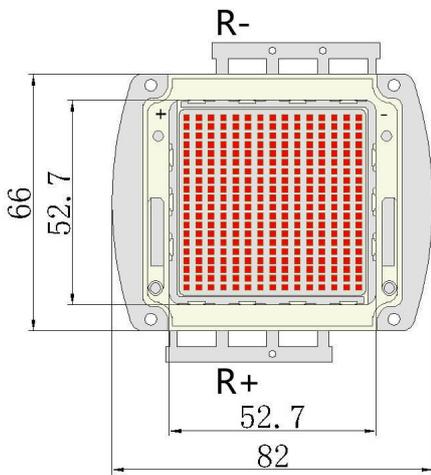
Catalog

1.Product Features	P2
2.Dimensions	P2
3.Absolute Maximum Rating	P3
4.Optical Character	P3
5.Optical Character Curves	P4
6.Spectrum Curves	P5
7.Viewing Angle Curves	P5
8.Cautions	P6

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 ± 0.1 mm unless otherwise noted.

3. Absolute Maximum Rating @ Ta=25° C

Parameter	Symbol	Maximum Rating	Unit
Continuous Forward Current	IF	7000	mA
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	IFp	7500	mA
Reverse Voltage	VR	36	V
Power Dissipation	PD	300	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	32	34	36	V	IF=7000mA
Luminous Flux	Φ	R	7500	9000	10000	Lm	IF=7000mA
Peak Wavelength	WLP	R	660	662.5	665	nm	IF=7000mA
Reverse Current	IR		0		10	μA	VR=36V
Viewing Angle	2θ1/2				140	deg	IF=7000mA
Recommend Forward Current	IF(rec)	R			7000	mA	

Notes:

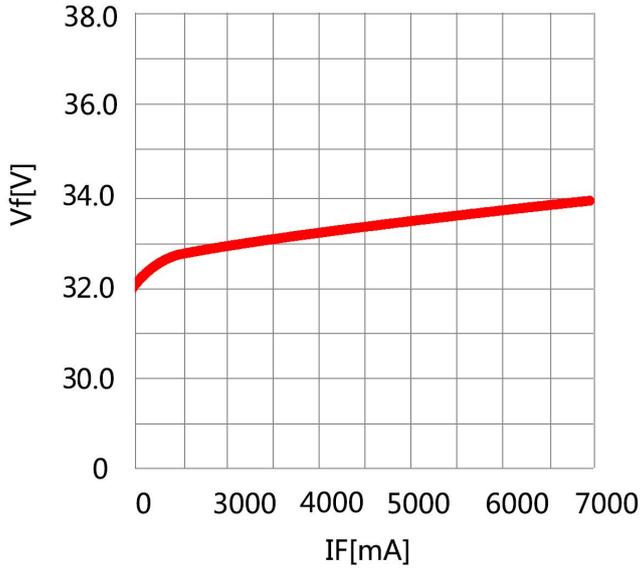
Measurement tolerance of forward voltage ±0.1V

5. Optical Character Curves

(25 ° Ambient Temperature Unless Otherwise Noted)

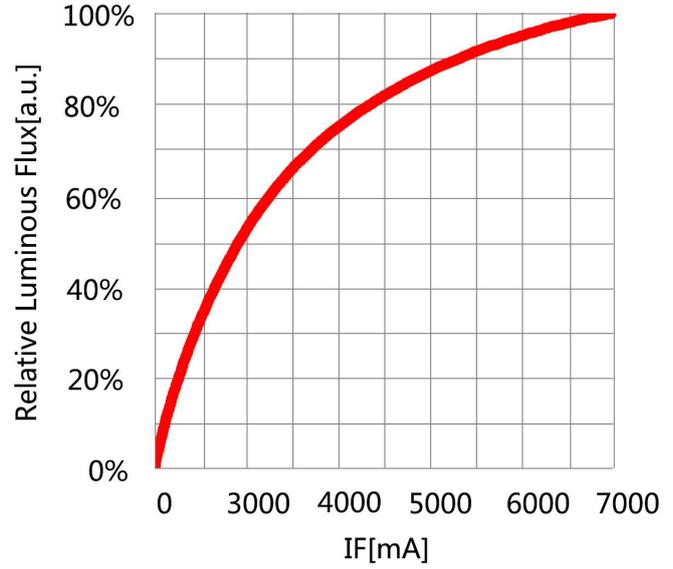
Forward Current vs. Forward Voltage

Tc=25C



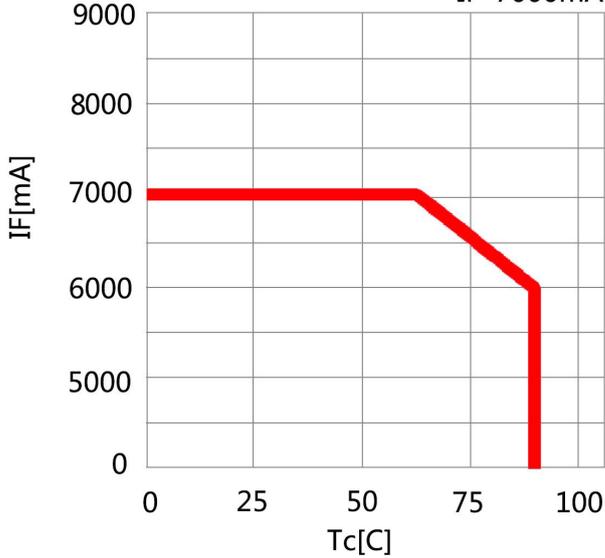
Forward Current vs. Relative Luminous Flux

Tc=25C



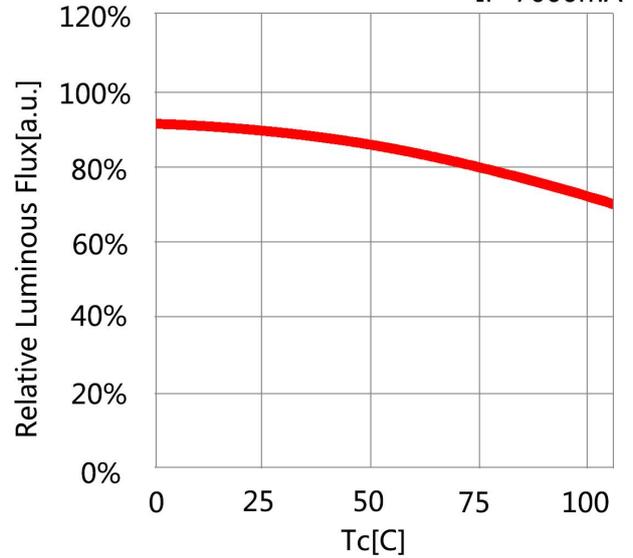
Case Temperature vs. Forward Current

If=7000mA

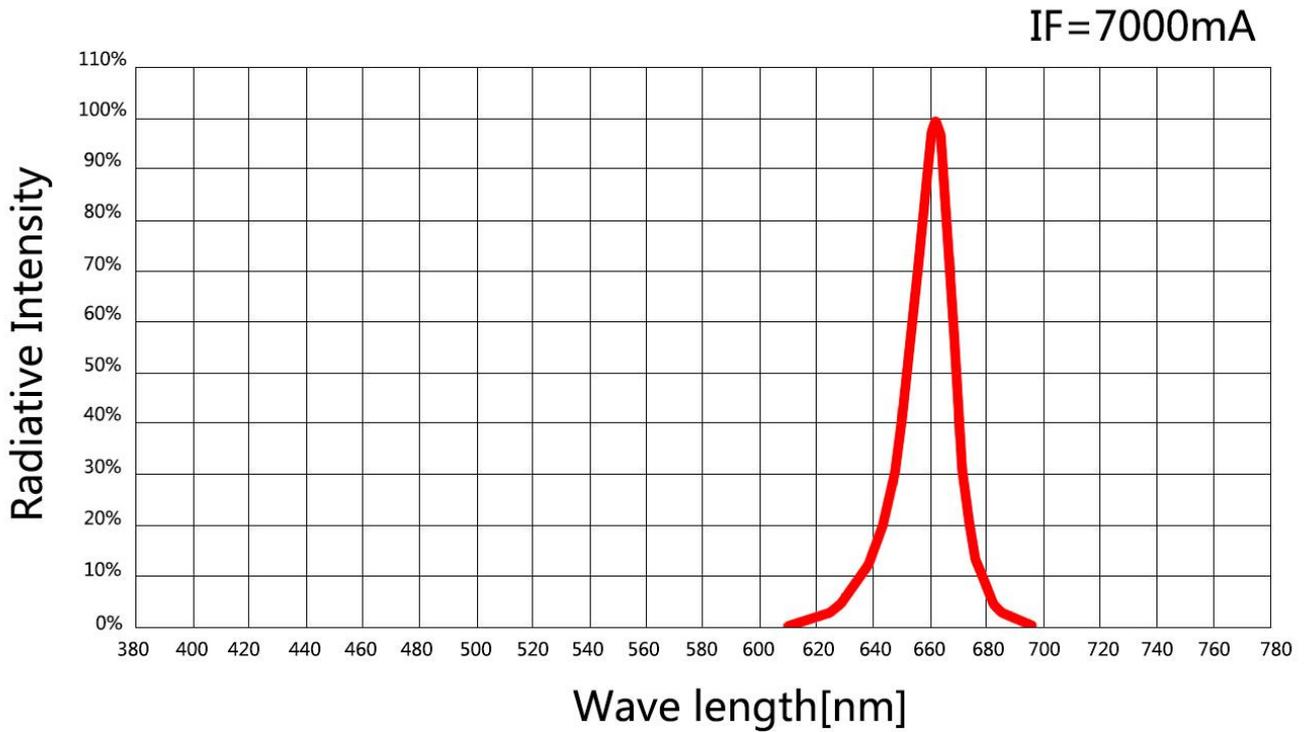


Case Temperature vs. Relative Luminous Flux

If=7000mA



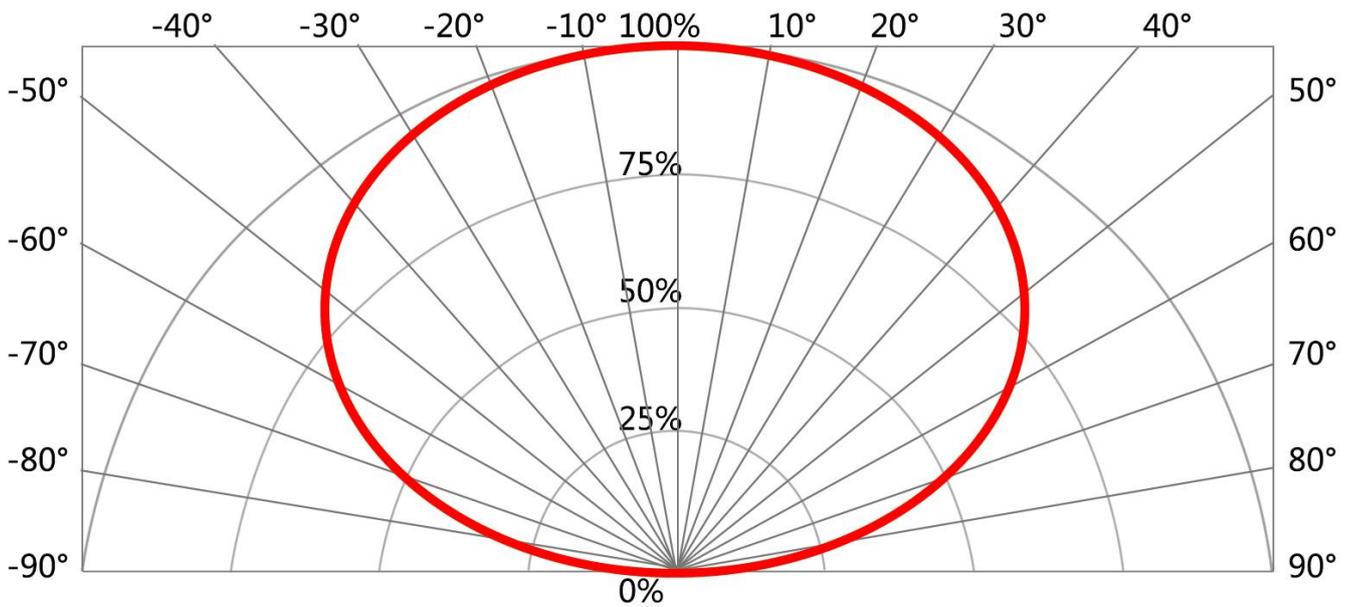
6. Spectrum Curves



7. Viewing Angle Curves

Radiation Characteristic

IF=7000mA



8.Cautions

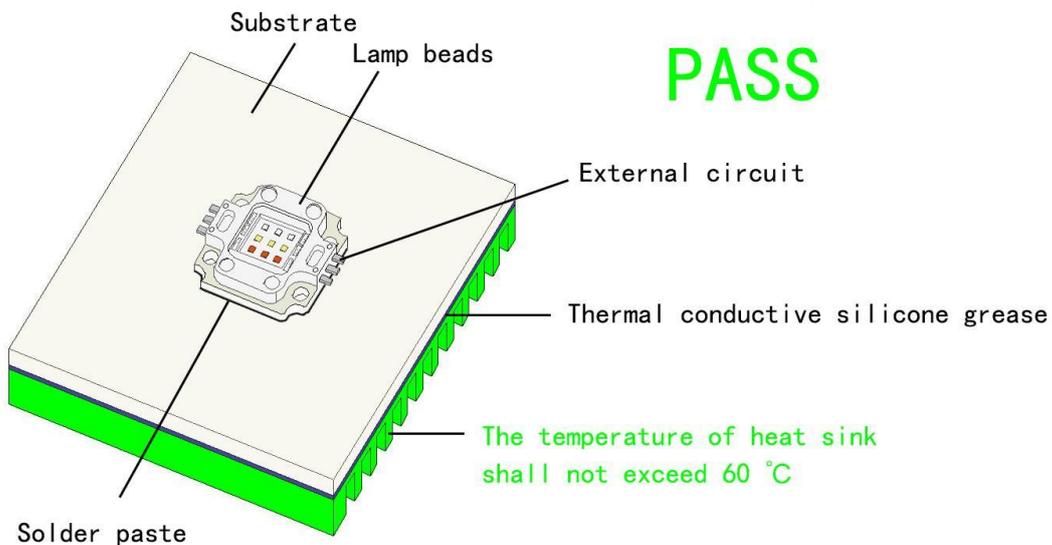
1. Electrostatic Treatment

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

