

## 1W high power led



Item No	Len s Col or	Emitti ng Color	Forward Current( mA)	Forward Voltage(V )	Viewing angle(de g.)	Dominant Wavelength( nm)	Lumino us flux(lm )
FZ-P001SWDX-XXP	Wat er clea r	Pure white	350	3 . 00-4 . 00	1. 120	5500-8000	90-140
FZ-P001WWDX-XXXXP	Wat er clea r	warm white	350	3. 00-4. 0	120	2300-5500	90-140
FZ-P001BHX-XXXP	Wat er clea r	blue	350	300-4. 20	120	450-475	20-30
FZ-P001GHX-XXP	Wat er clea r	Green	350	3 . 00-4 . 20	120	490-530	60-70
FZ-P001AYDX-X	Wat	Yello	350	2 . 00-2	120	585-595	30-40

XXP	er clea r	w		. 80			
FZ-P001ORDX-XXP	Wat er clea r	Red	350	2 . 00-2 . 80	120	620-630	30-40
FZ-P001IRX-XXX P	Wat er clea r	infrare d	350	1 . 20-2 . 20	120	835-945	/
FZ-P001ALDX-XXP	Wat er clea r	RGB	350	R : 2 . 00-2. 60 G : 3 . 20-4. 00 B : 3 . 20-4. 00	120	R: 620-630 G: 490-530 B: 460-475	R : 30-40 G : 60-70 B : 20-30

## 1. AbsoluteMaximumRatings

(Ta=25°C)

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	IF	350	mA
Pulse Forward Current	IFP	700	mA
Allowable Reverse Current	IR	10	uA
Power Dissipation	PD	1	W
Operating Temperature	Topr	-30~+85	°C
Dice Temperature	Tstg	-40~+100	°C
Soldering Temperature	Tsod	260	°C

✧ IFP Conditions : Pulse Width ≤10msec. and Duty ≤1/10

✧ Soldering Time : ≤5 sec.

## 2. Electrical/OpticalCharacteristics

(Ta=25°C)

Item	Symbol	Condition	Min	Typ	Max	Unit
Forward Voltage	VF	IF=350[mA]	3.0		3.6	V
Allowable Reverse Current	IR	VR=5[V]	0		10	uA
Luminous Flux	Φv	IF=350[mA]		70		lm
Temperature Color	TC	IF=350[mA]	6500		7500	K
Chromaticity Coordinate	x	-	IF=350[mA]	0.45		
	y	-	IF=350[mA]	0.40		
Viewing Angle	2θ1/2	IF=350[mA]		120		

✧ Please refer to CIE 1931 chromaticity diagram

✧ Viewing Angle Measurement allowance is ±5%

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- ✧ Please refer to CIE 1931 chromaticity diagram
- ✧ Viewing Angle Measurement allowance is ±5%

### 3. Typical Electrical Optical Characteristics Curves ((Ta=25°C Unless Otherwise Notes)

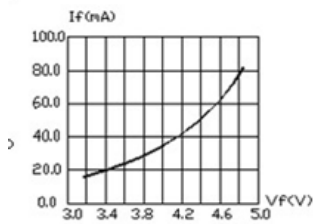


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE

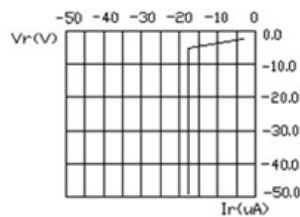


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE

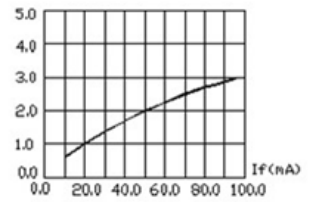


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

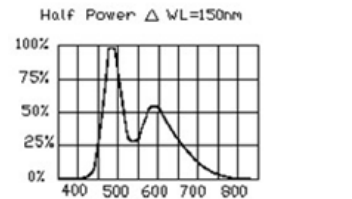


FIG.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.

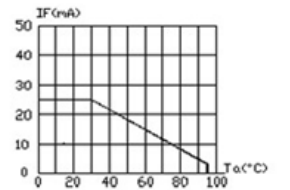
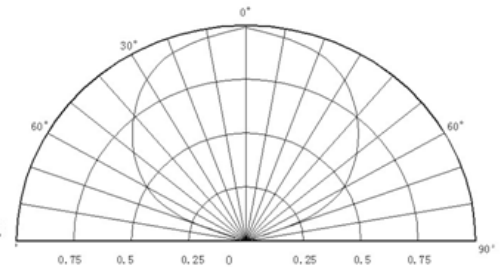
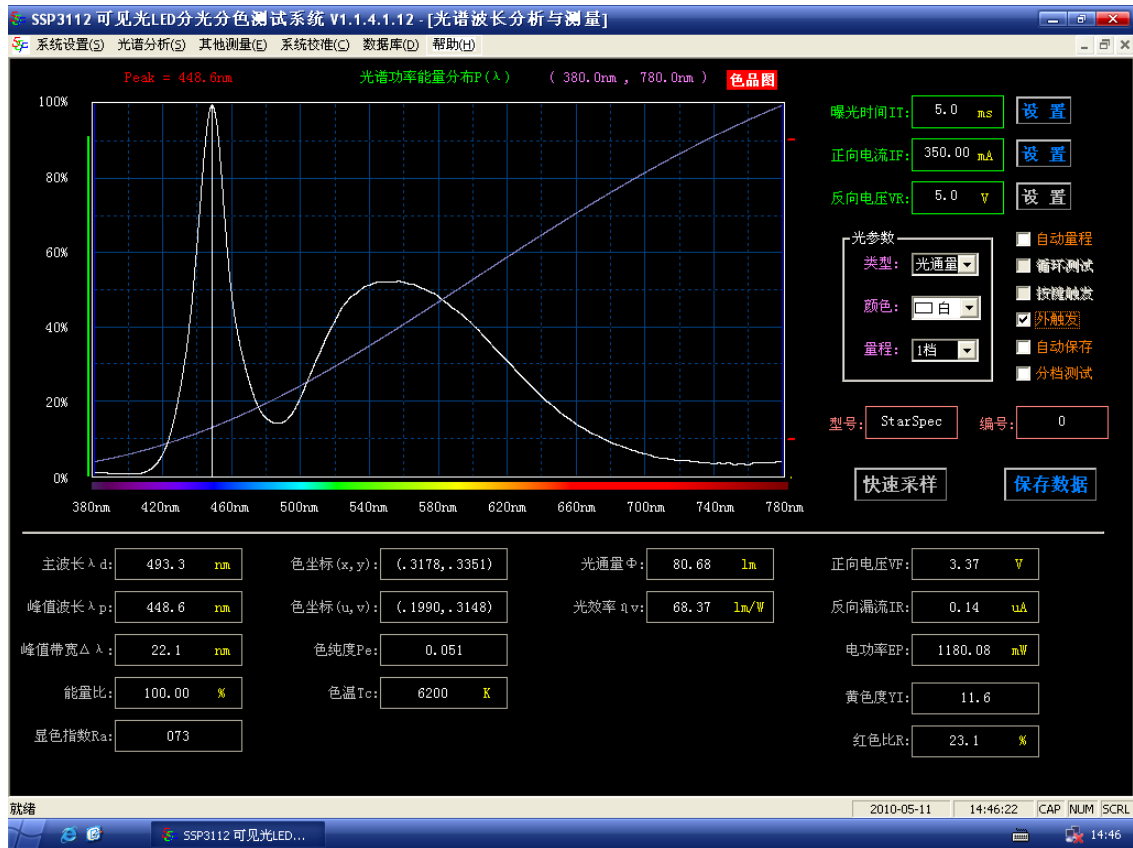


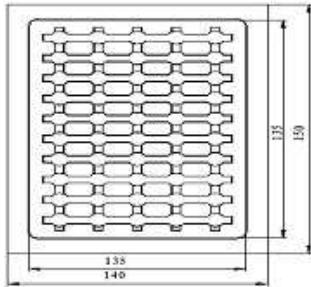
FIG.5 MAXIMUM FORWARD CURRENT VS. AMBIENT TEMPERATURE (Tjmax=105°C)



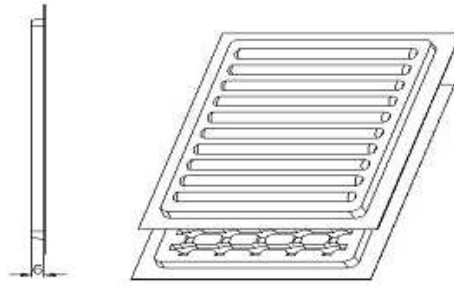
### 3. Tested Lumens Data



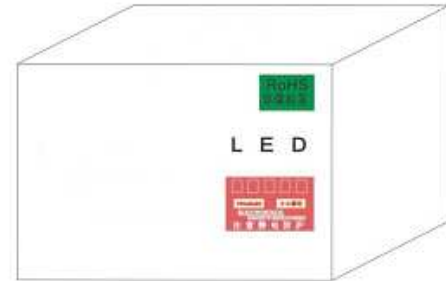
#### 4. Packing Measurement



Inner Cardboard



Carton Packing



#### NOTES:

1. All Dimensions are in mm.
2. There are 50pcs emitters in a inner cardboard.
3. There are three kind of cartons: 0.5k,1k,2k

5. Application: Very suitable for street lamp,high power led spot light and globe lamp,led wall washer and so on

