



Part No.: SPL-NNW3-350G0

Supplier name:

Ningbo Sunpu Opto Semiconductor Co.,Ltd

Acknowledgment number:

Product Acknowledgment

Customer Name:

Customer Model:

Customer Part Number:

Supply-side model:

Acknowledgment Effective Date:

Manufacturers		Client Confirm (Quality)		Client Confirm (R & D)	
Prepared		Qualified ☐		Qualified ☐	
		Unqualified ☐		Unqualified ☐	
Audit		Audit		Audit	
Approve		Approve		Approve	

(After both sides confirmed the Acknowledgment qualified,must be signed and sealed)

Supply-side Address: No 150.XinHui Road, Hi-Tech Park,Ningbo,china

Tel: 0574-87740939

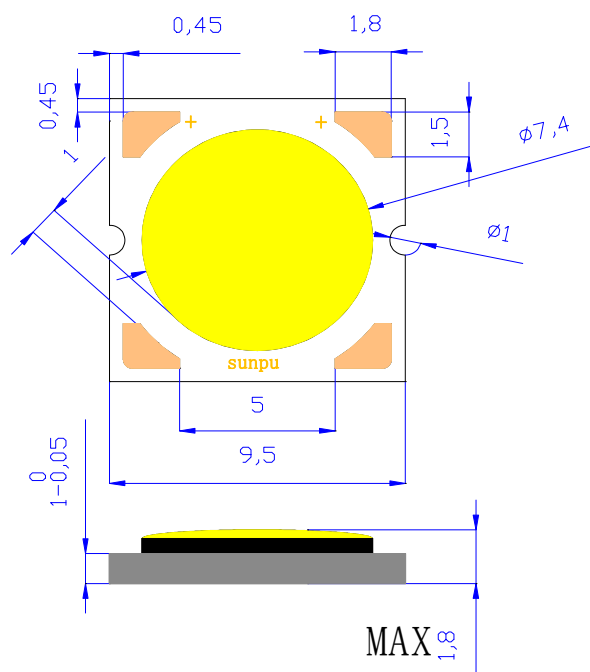
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Features:

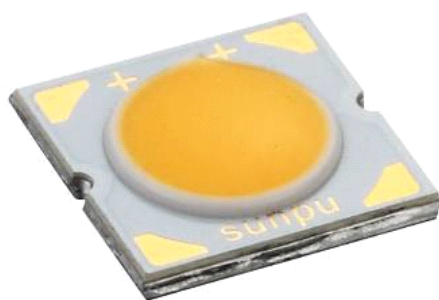
- ✧ High radiometric power per LED
- ✧ Very long operating life
- ✧ More Energy Efficient than Incandescent and most Halogen lamps
- ✧ Easy installation with Screws

Typical Applications:

- ✧ Spot light
- ✧ Bulb
- ✧ Down Light
- ✧ cornering lamp
- ✧ Panel Light
- ✧ Street Light



Product Picture:



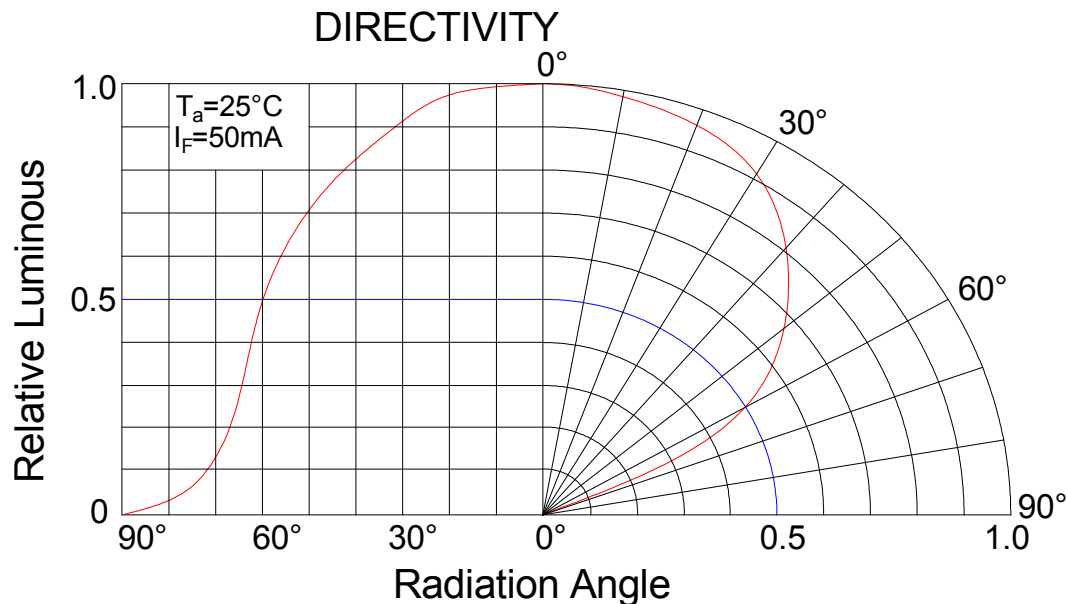
NOTES:

- ✧ All dimensions are millimeter.
- ✧ Tolerance is ± 0.1 mm unless otherwise noted.
- ✧ It is strongly recommended that the temperature of lead be not higher than 85°C.
- ✧ The appearance and specifications of the product may be modified for improvement without notice.



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Typical Radiation Pattern



Absolute maximum ratings ($T_a = 25^{\circ}\text{C}$)

Parameter	Symbol	Test Condition	Value		Unit
			Min.	Max.	
DC Forward Current	I_F	----	----	600	mA
Peak Pulse Current	I_{peak}	Duty=1/10 1kHz	----	720	mA
Power Dissipation	P_d	----	----	5.58	W
LED Junction Temperature	T_J	----	----	125	$^{\circ}\text{C}$
Operating Temperature	T_{opr}	----	-25	+85	$^{\circ}\text{C}$
Storage Temperature	T_{str}	----	-40	+100	$^{\circ}\text{C}$
ESD Sensitivity	----	HBM	8000	----	V
Soldering Temperature	----	----	220 $^{\circ}\text{C}$ for 5 Seconds max		

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Electrical and optical characteristics (T_a = 25°C)

Parameter	Symbol	Test Condition	Value			Unit
			Min.	Typ.	Max.	
Forward Voltage	V _F	I _F = 350mA		9.3		V
Luminous Flux	Φ _v			320	----	lm
Viewing Angle	2θ 1/2		----	120	----	Deg.
Color Temperature	CCT		3500	-----	5000	K
Color Rendering	R _a		80			--
Thermal Resistance	R _J	-----		8		°C/W

Luminous Flux Bins (T_a = 25°C)

Unit: lm

Bin	V	W	X
Min	280	320	360
Max	320	360	400

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Chromaticity Coordinates Ranks($I_F=350\text{mA}$ $T_a=25^\circ\text{C}$)

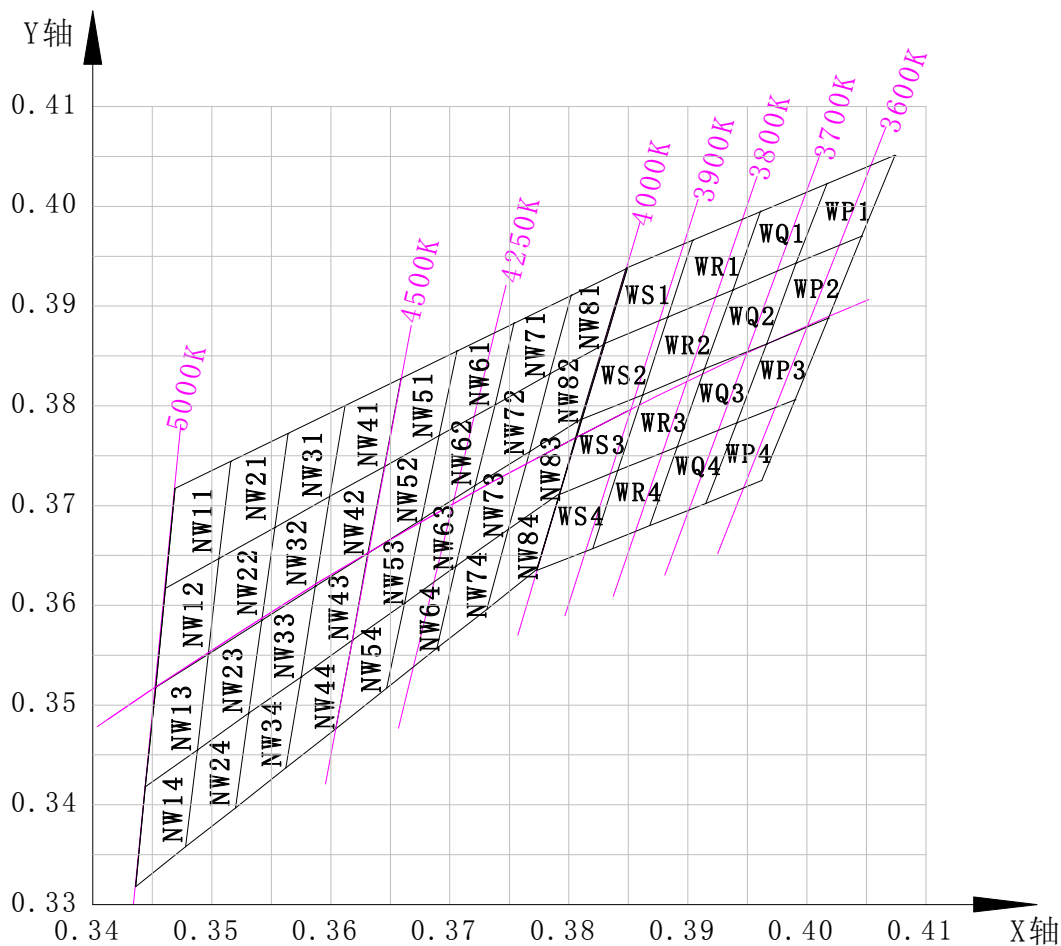
Bin	x1	y1	x2	y2	x3	y3	x4	y4
WE1	0.4805	0.4306	0.4751	0.4215	0.4835	0.4235	0.4892	0.4327
WE2	0.4751	0.4215	0.4696	0.4123	0.4777	0.4143	0.4835	0.4235
WE3	0.4696	0.4123	0.4642	0.4032	0.4720	0.4051	0.4777	0.4143
WE4	0.4642	0.4032	0.4587	0.3940	0.4662	0.3959	0.4720	0.4051
WF1	0.4719	0.4286	0.4668	0.4195	0.4751	0.4215	0.4805	0.4306
WF2	0.4668	0.4195	0.4616	0.4103	0.4696	0.4123	0.4751	0.4215
WF3	0.4616	0.4103	0.4564	0.4012	0.4642	0.4032	0.4696	0.4123
WF4	0.4564	0.4012	0.4512	0.3921	0.4587	0.3940	0.4642	0.4032
WG1	0.4632	0.4264	0.4583	0.4174	0.4668	0.4195	0.4719	0.4286
WG2	0.4583	0.4174	0.4535	0.4083	0.4616	0.4103	0.4668	0.4195
WG3	0.4535	0.4083	0.4486	0.3993	0.4564	0.4012	0.4616	0.4103
WG4	0.4486	0.3993	0.4438	0.3903	0.4512	0.3921	0.4564	0.4012
WH1	0.4546	0.4244	0.4500	0.4154	0.4583	0.4174	0.4632	0.4264
WH2	0.4500	0.4154	0.4454	0.4064	0.4535	0.4083	0.4583	0.4174
WH3	0.4454	0.4064	0.4408	0.3973	0.4486	0.3993	0.4535	0.4083
WH4	0.4408	0.3973	0.4363	0.3884	0.4438	0.3903	0.4486	0.3993
WI1	0.4459	0.4223	0.4417	0.4134	0.4500	0.4154	0.4546	0.4244
WI2	0.4417	0.4134	0.4373	0.4044	0.4454	0.4064	0.4500	0.4154
WI3	0.4373	0.4044	0.4330	0.3954	0.4408	0.3973	0.4454	0.4064
WI4	0.4330	0.3954	0.4288	0.3865	0.4363	0.3884	0.4408	0.3973
WJ1	0.4387	0.4194	0.4347	0.4106	0.4417	0.4134	0.4459	0.4223
WJ2	0.4347	0.4106	0.4307	0.4017	0.4373	0.4044	0.4417	0.4134
WJ3	0.4307	0.4017	0.4267	0.3929	0.4330	0.3954	0.4373	0.4044
WJ4	0.4267	0.3929	0.4227	0.3841	0.4288	0.3865	0.4330	0.3954
WK1	0.4315	0.4165	0.4278	0.4078	0.4347	0.4106	0.4387	0.4194
WK2	0.4278	0.4078	0.4240	0.3990	0.4307	0.4017	0.4347	0.4106
WK3	0.4240	0.3990	0.4202	0.3903	0.4267	0.3929	0.4307	0.4017
WK4	0.4202	0.3903	0.4165	0.3816	0.4227	0.3841	0.4267	0.3929
WL1	0.4243	0.4136	0.4208	0.4050	0.4278	0.4078	0.4315	0.4165
WL2	0.4208	0.4050	0.4173	0.3964	0.4240	0.3990	0.4278	0.4078
WL3	0.4173	0.3964	0.4139	0.3878	0.4202	0.3903	0.4240	0.3990
WL4	0.4139	0.3878	0.4104	0.3792	0.4165	0.3816	0.4202	0.3903

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Bin	x1	y1	x2	y2	x3	y3	x4	y4
WM1	0.4187	0.4108	0.4154	0.4023	0.4208	0.4050	0.4243	0.4136
WM2	0.4154	0.4023	0.4122	0.3938	0.4173	0.3964	0.4208	0.4050
WM3	0.4122	0.3938	0.4089	0.3854	0.4139	0.3878	0.4173	0.3964
WM4	0.4089	0.3854	0.4057	0.3770	0.4104	0.3792	0.4139	0.3878
WN1	0.4130	0.4079	0.4100	0.3996	0.4154	0.4023	0.4187	0.4108
WN2	0.4100	0.3996	0.4069	0.3913	0.4122	0.3938	0.4154	0.4023
WN3	0.4069	0.3913	0.4039	0.3830	0.4089	0.3854	0.4122	0.3938
WN4	0.4039	0.3830	0.4009	0.3747	0.4057	0.3770	0.4089	0.3854
WO1	0.4074	0.4051	0.4046	0.3970	0.4100	0.3996	0.4130	0.4079
WO2	0.4046	0.3970	0.4018	0.3888	0.4069	0.3913	0.4100	0.3996
WO3	0.4018	0.3888	0.3990	0.3806	0.4039	0.3830	0.4069	0.3913
WO4	0.3990	0.3806	0.3962	0.3725	0.4009	0.3747	0.4039	0.3830
WP1	0.4017	0.4023	0.3991	0.3943	0.4046	0.3970	0.4074	0.4051
WP2	0.3991	0.3943	0.3966	0.3862	0.4018	0.3888	0.4046	0.3970
WP3	0.3966	0.3862	0.3941	0.3783	0.3990	0.3806	0.4018	0.3888
WP4	0.3941	0.3783	0.3915	0.3702	0.3962	0.3725	0.3990	0.3806



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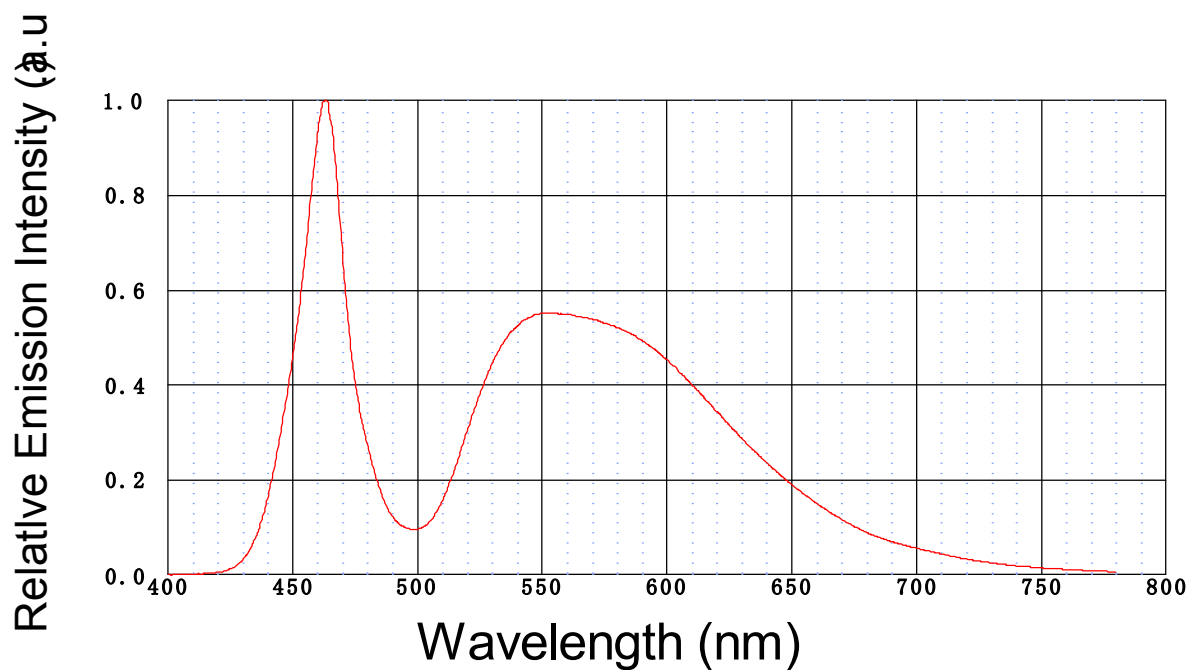


Notes:

1. * Ranking at $T_c=25^{\circ}\text{C}$
2. * It is strongly recommended that the temperature of lead be not higher than 85°C
3. * Tolerance of measurements of the Forward Voltage is $\pm 2\%V$
4. * Tolerance of measurements of the Luminous Flux is $\pm 10\%$
5. * Tolerance of measurements of the Color Rendering R_a is ± 3
6. * Chromaticity Coordinates (x,y) is measured with an accuracy of ± 0.01

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Characteristic spectrum : $T_J=25^{\circ}\text{C}$





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Typical electrical/optical characteristic curves:

Fig.1 Forward Current(mA) Vs. Forward Voltage(V)

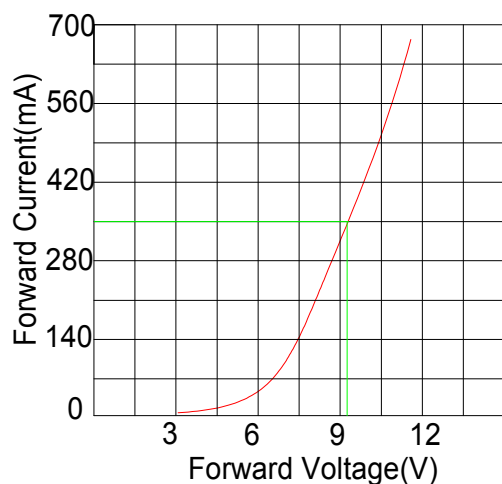


Fig.2 Relative Intensity Vs Forward Current (mA)

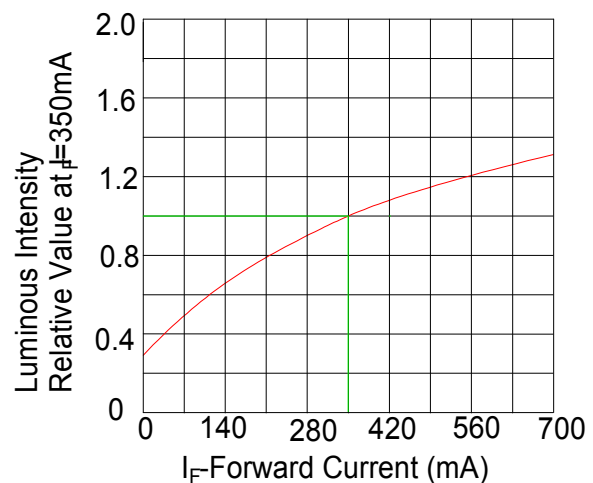


Fig.3 Forward Current Vs Ambient Temperature

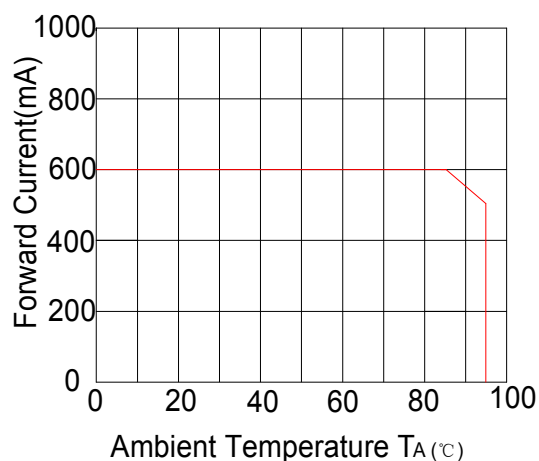
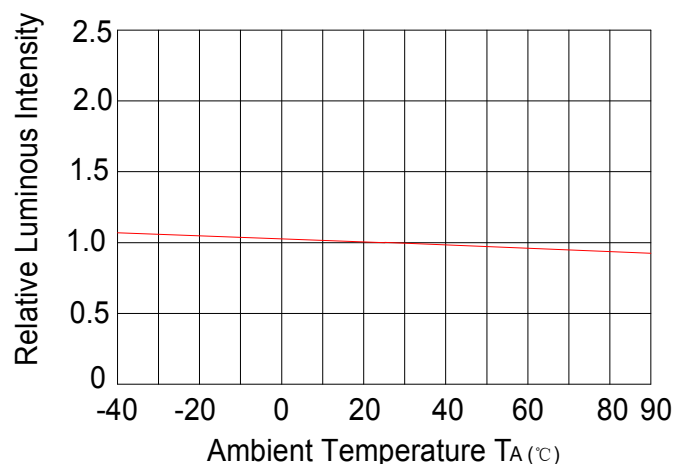


Fig.4 Relative Intensity Vs. Ambient Temperature

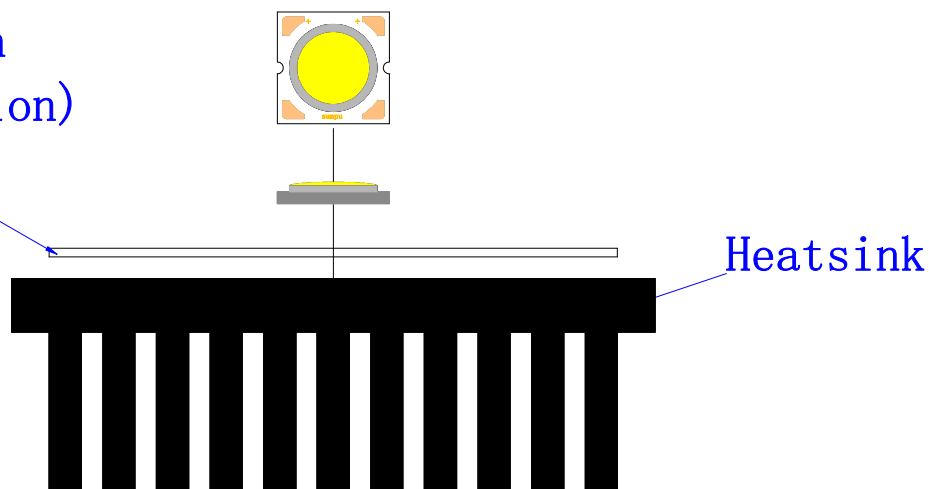




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Recommended installation screw pitch

Thermal conduction
materials(insulation)



If you can not solve the heat problem, the product will destroy easily. Suggest that the surface of the heat sink is $35\text{cm}^2/\text{W}$