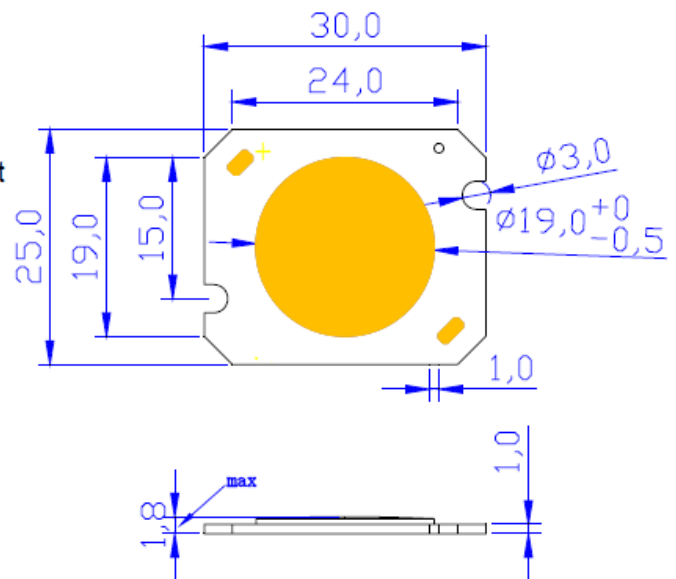


Features:

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

Typical Applications:

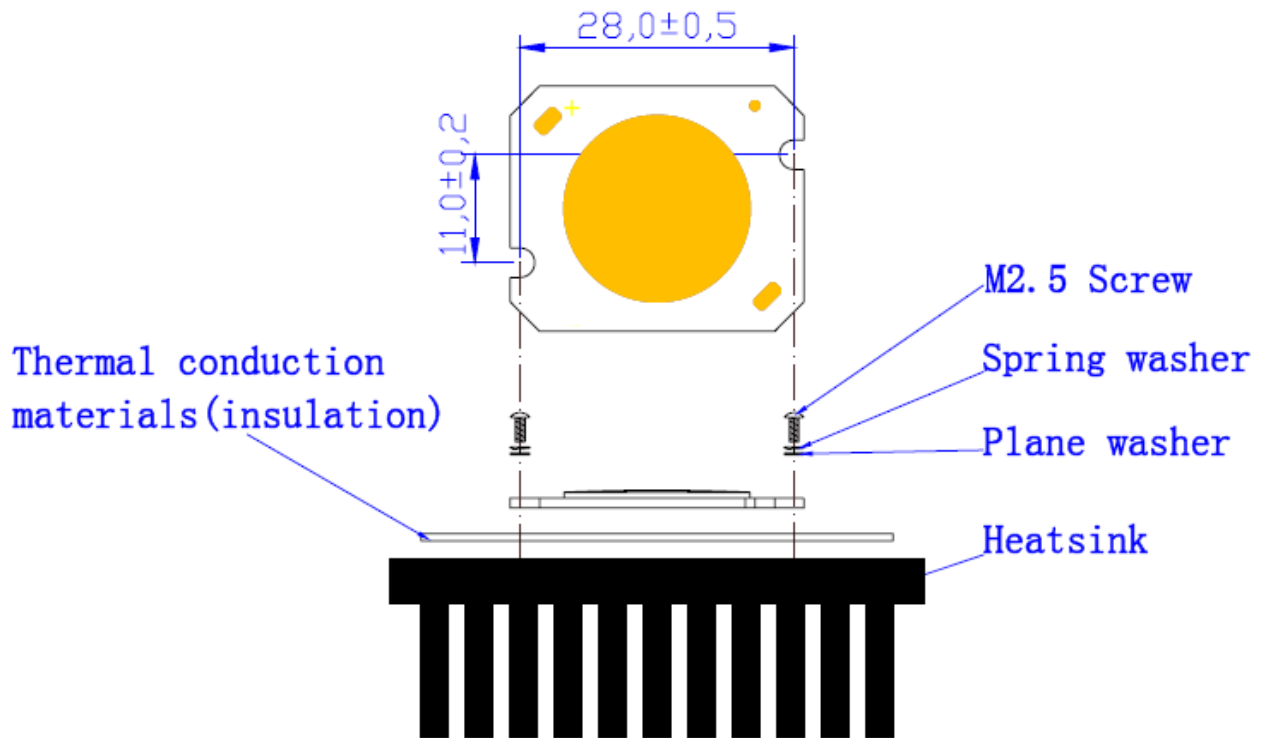
- ✧ Spot light
- ✧ Bulb
- ✧ Down Light
- ✧ cornering lamp
- ✧ Panel Light
- ✧ Street Light



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.

Recommended installation screw pitch

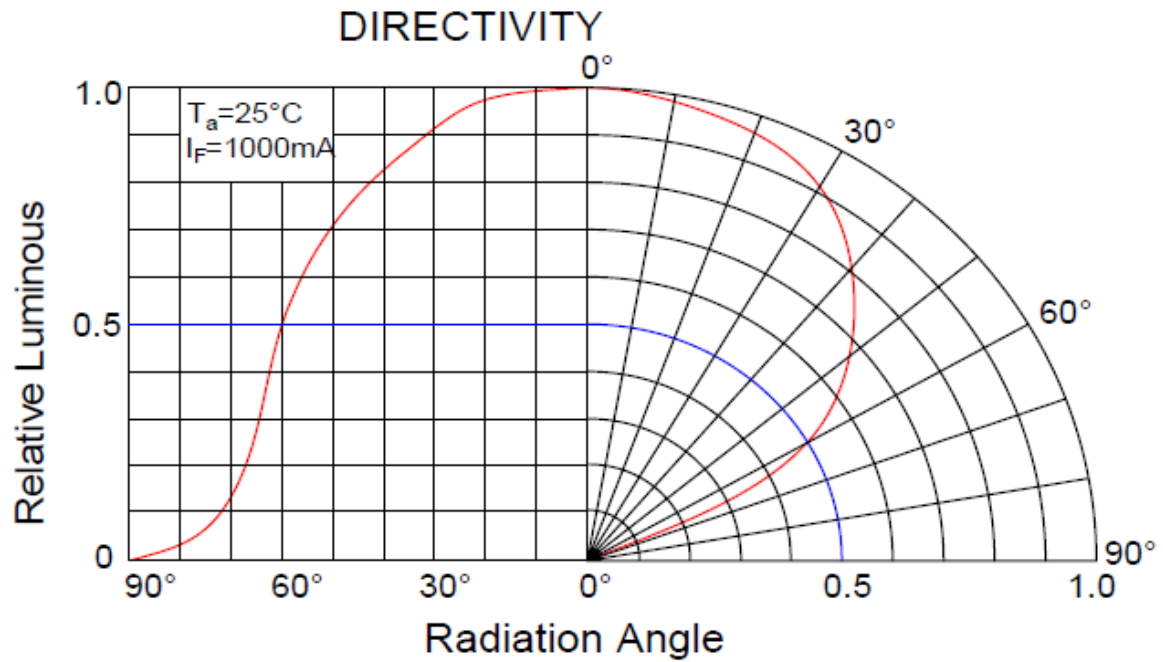


If you can not solve the heat problem, the product will destroy easily. Suggest that the surface of the heat sink is $35\text{cm}^2/\text{W}$

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

Parameter	Symbol	Test Condition	Value		Unit
			Min.	Max.	
DC Forward Current	I_F	----	----	1200	mA
Peak Pulse Current	I_{peak}	Duty=1/10 1kHz	----	1400	mA
Power Dissipation	P_d	----	----	37	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		

Typical Radiation Pattern



Electrical and optical characteristics ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Test Condition	Value			Unit	
			Min.	Typ.	Max.		
Forward Voltage	V_F	$I_F = 1000\text{mA}$		30		V	
Luminous Flux	Φ_v			2800	----	lm	
Viewing Angle	$2\theta_{1/2}$			----	120	----	Deg.
Color Temperature	CCT			2500	-----	3500	K
Color Rendering	R_a		80			--	
	R_9		5				
Thermal Resistance	R_J	-----		0.8		$^\circ\text{C/W}$	

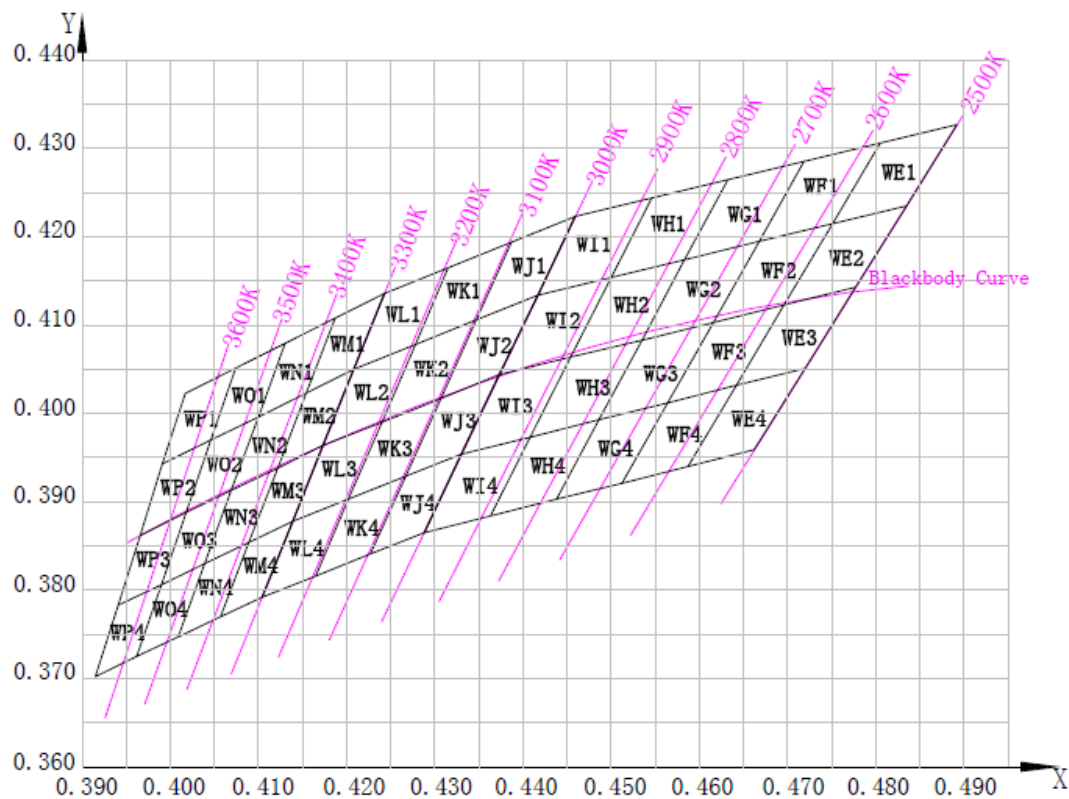
Luminous Flux Bins ($T_a = 25^\circ\text{C}$)

Unit: lm

Bin	P2	Q2	R2
Min	2600	2800	3000
Max	2800	3000	3500

Chromaticity Coordinates Ranks ($I_F=1000\text{mA}$ $T_a=25^\circ\text{C}$)

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



Notes:

- * Ranking at $T_c=25^\circ\text{C}$
- * It is strongly recommended that the temperature of lead be not higher than 85°C
- * Tolerance of measurements of the Forward Voltage is $\pm 2\%V$
- * Tolerance of measurements of the Luminous Flux is $\pm 10\%$
- * Tolerance of measurements of the Color Rendering R_a is ± 3
- * Tolerance of measurements of the Color Rendering R_9 is ± 5
- * The R_9 value for the above rank shall be greater than 0
- * Chromaticity Coordinates (x,y) is measured with an accuracy of ± 0.01

Typical electrical/optical characteristic curves:

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

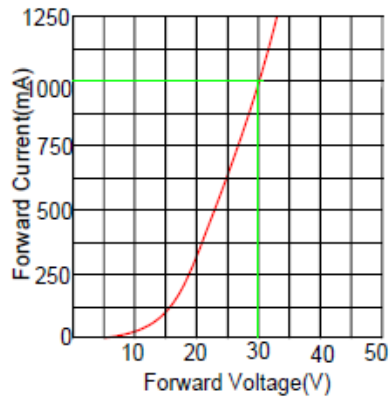


Fig.2 Relative Intensity Vs Forward Current (mA)

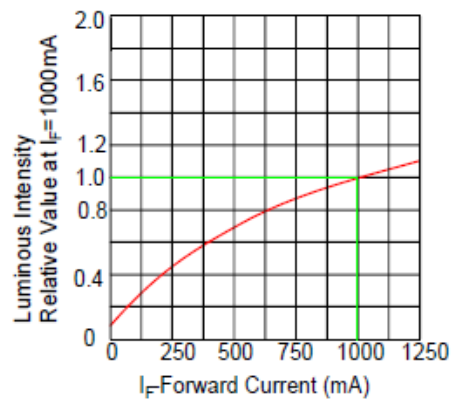


Fig.3 Forward Current Vs Ambient Temperature

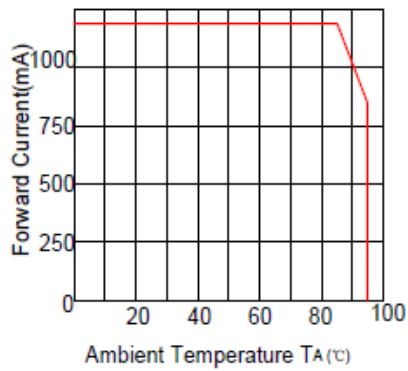
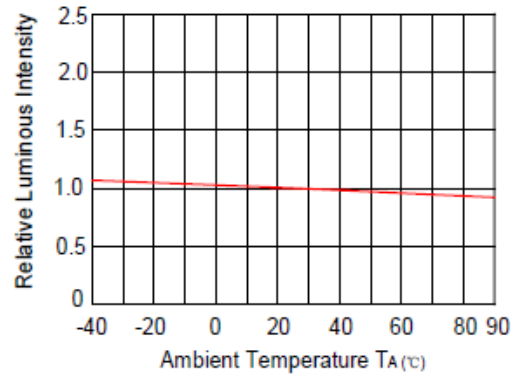


Fig.4 Relative Intensity Vs. Ambient Temperature



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

Warm White

