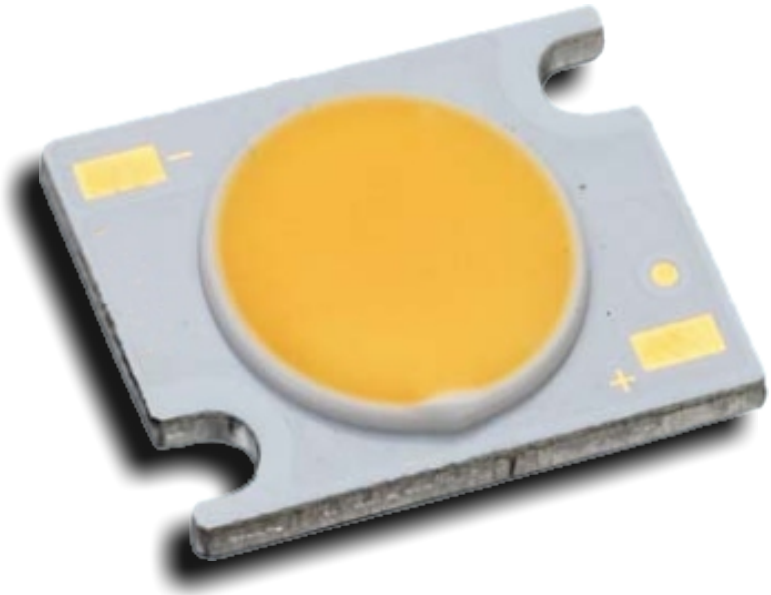
DATE OF ISSUE : 2012. 07. 20

SPECIFICATION

MODEL : ALD-CMW10-350D4

Aluminum D Serial



LED SMC SEMICONDUCTOR

KOREA

Part No. ：ALD-CMW10-350D4

Supplier name：
LED SMC Semicinductor

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 ☐ Unqualified ☐		Qualified ☐ Unqualified ☐	
Audit		Audit		Audit	
Approve		Approve		Approve	

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

Supply-side Address ： ,

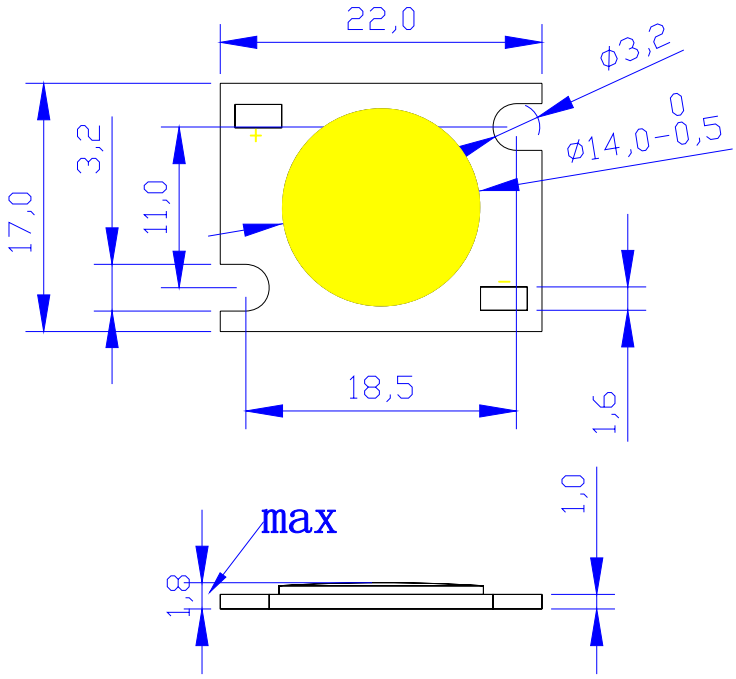
Part No. : ALD-CMW10-350D4

Features :

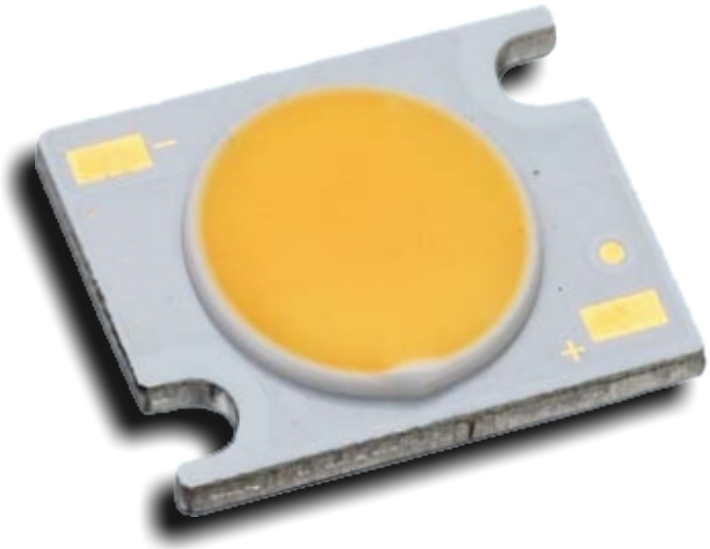
- High radiometric power per LED
- Very long operating life
- More Energy Efficient than Incandescent and most Halogen lamps
- Easy installation with Screws

Typical Applications :

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



Product Picture:

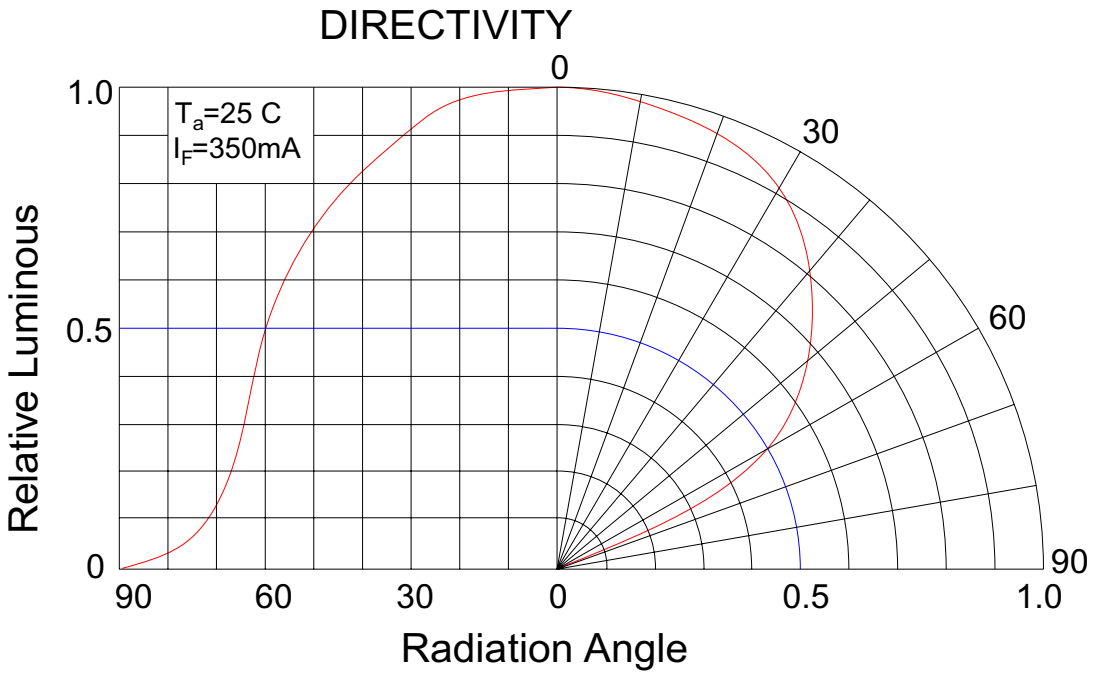


NOTES:

- All dimensions are millimeter.
- Tolerance is ±0.1mm unless otherwise noted.
- It is strongly recommend ed that the temperature of lead be not higher than 85℃.
- The appearance and specific ations of the product may be modified for improvement without notice.

Part No. : ALD-CMW10-350D4

Typical Radiation Pattern



Absolute maximum ratings（T_a = 25℃）

Parameter	Symbol	Test Condition	Value		Unit
			Min.	Max.	
DC Forward Current	I_F	----	----	480	mA
Peak Pulse Current	I_{peak}	Duty=1/10 1kHz	----	600	mA
Power Dissipation	P_d	----	----	13.8	W
LED Junction Temperature	T_J	----	----	125	℃
Operating Temperature	T_{opr}	----	-25	+85	℃
Storage Temperature	T_{str}	----	-40	+100	℃
ESD Sensitivity	----	HBM	8000	----	V
SolderingTemperature	----	----	220℃ for 5 Seconds max		

Part No. : ALD-CMW10-350D4

Electrical and optical characteristics （T_a = 25℃ ）

Parameter	Symbol	Test Condition	Value			Unit
			Min.	Typ.	Max.	
Forward Voltage	V_F	I_F = 350mA		30		V
Luminous Flux	Φ_v			1200	----	lm
Viewing Angle	2θ 1/2		----	120	----	Deg.
Color Temperature	CCT		5000	-----	6500	K
Color Rendening	R_a		70			--
Thermal Resistance	R_J	-----		2.5		℃/W

Luminous Flux Bins （T_a = 25℃ ） Unit:lm

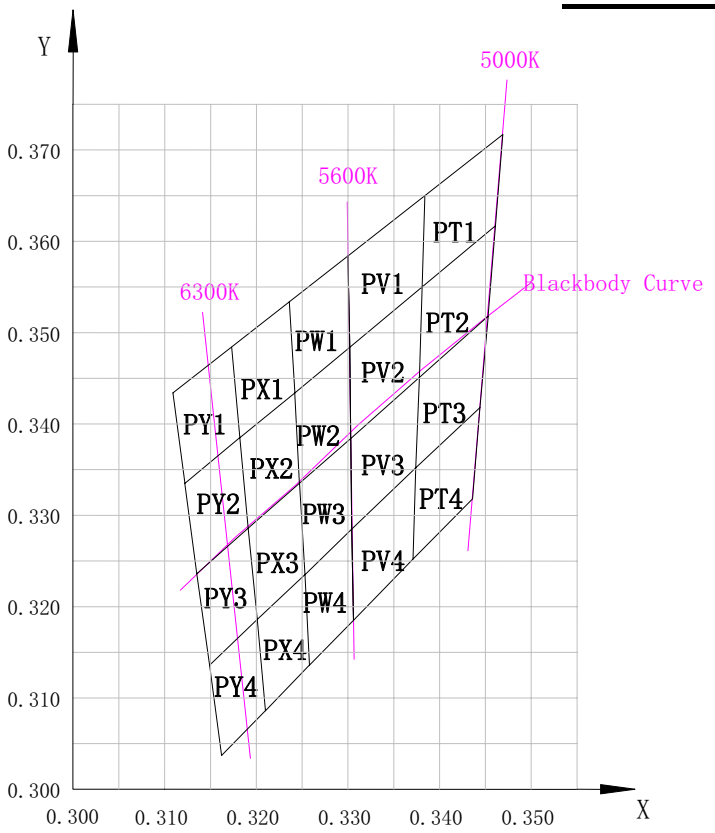
Bin	G2	H2	J2
Min	1200	1400	1600
Max	1400	1600	1800

Part No. : ALD-CMW10-350D4

Chromaticity Coordinates Ranks(I_F=350mA T_a=25℃)

Bin	x1	y1	x2	y2	x3	y3	x4	y4
PT1	0.3384	0.3650	0.3381	0.3550	0.3461	0.3617	0.3469	0.3717
PT2	0.3381	0.3550	0.3378	0.3451	0.3453	0.3518	0.3461	0.3617
PT3	0.3378	0.3451	0.3374	0.3352	0.3444	0.3418	0.3453	0.3518
PT4	0.3374	0.3352	0.3371	0.3252	0.3436	0.3318	0.3444	0.3418
PV1	0.3300	0.3584	0.3302	0.3484	0.3381	0.3550	0.3384	0.3650
PV2	0.3302	0.3484	0.3303	0.3384	0.3378	0.3451	0.3381	0.3550
PV3	0.3303	0.3384	0.3304	0.3285	0.3374	0.3352	0.3378	0.3451
PV4	0.3304	0.3285	0.3306	0.3185	0.3371	0.3252	0.3374	0.3352
PW1	0.3236	0.3534	0.3242	0.3434	0.3302	0.3484	0.3300	0.3584
PW2	0.3242	0.3434	0.3247	0.3335	0.3303	0.3384	0.3302	0.3484
PW3	0.3247	0.3335	0.3253	0.3235	0.3304	0.3285	0.3303	0.3384
PW4	0.3253	0.3235	0.3258	0.3136	0.3306	0.3185	0.3304	0.3285
PX1	0.3173	0.3484	0.3182	0.3385	0.3242	0.3434	0.3236	0.3534
PX2	0.3182	0.3385	0.3191	0.3286	0.3247	0.3335	0.3242	0.3434
PX3	0.3191	0.3286	0.3201	0.3186	0.3253	0.3235	0.3247	0.3335
PX4	0.3201	0.3186	0.3210	0.3086	0.3258	0.3136	0.3253	0.3235
PY1	0.3109	0.3434	0.3122	0.3335	0.3182	0.3385	0.3173	0.3484
PY2	0.3122	0.3335	0.3135	0.3236	0.3191	0.3286	0.3182	0.3385
PY3	0.3135	0.3236	0.3149	0.3136	0.3201	0.3186	0.3191	0.3286
PY4	0.3149	0.3136	0.3162	0.3037	0.3210	0.3086	0.3201	0.3186

Part No. : ALD-CMW10-350D4



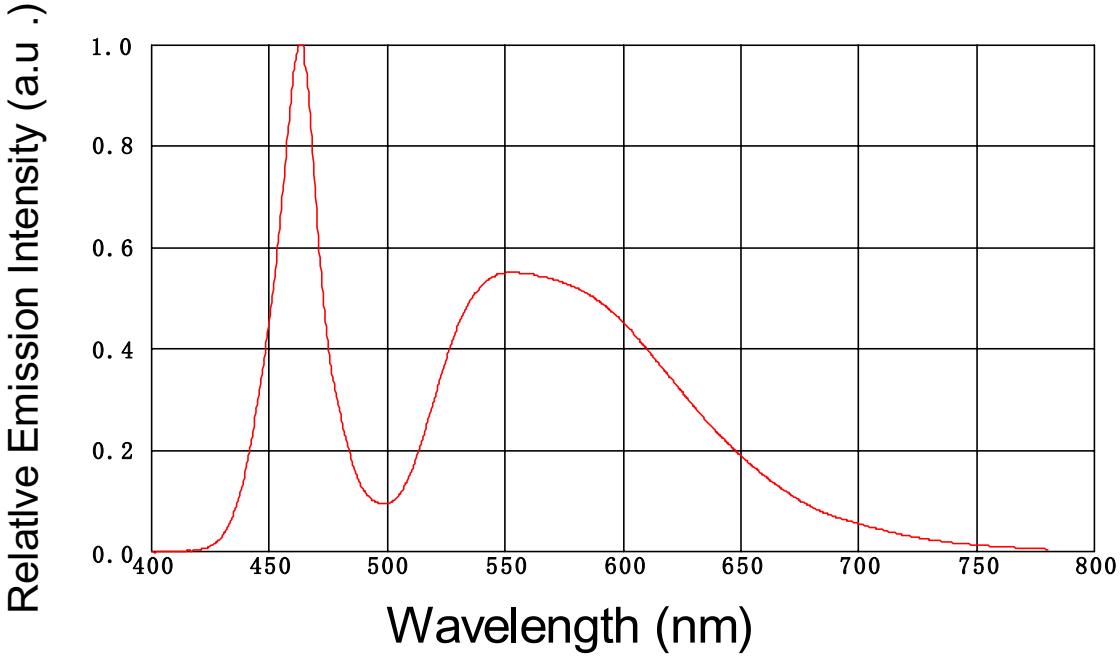
Notes :

1. * Ranking at T_C=25℃
2. * It is strongly recommended that the temperature of lead be not higher than 85℃
3. * Tolerance of measurements of the Forward Voltage is ±2%V
4. * Tolerance of measurements of the Luminous Flux is ±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

Part No. : ALD-CMW10-350D4

Characteristic spectrum : T_J=25°C

White



Part No. : ALD-CMW10-350D4

Typical electrical/optical characteristic curves :

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

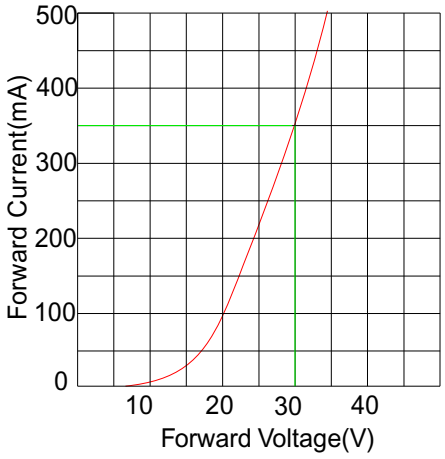


Fig.2 Relative Intensity Vs Forward Current (mA)

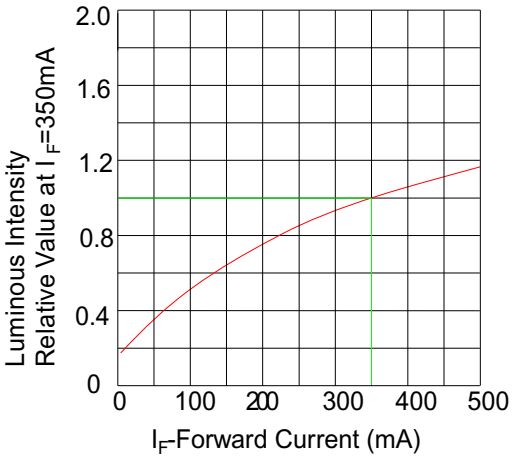


Fig.3 Forward Current Vs Ambient Temperature

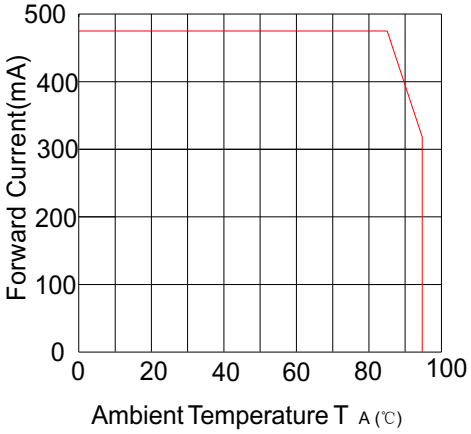
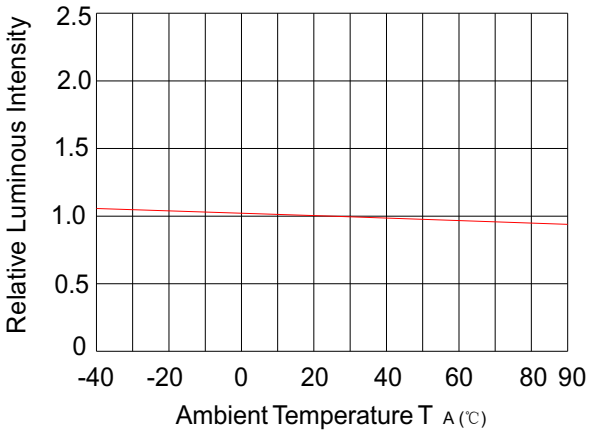
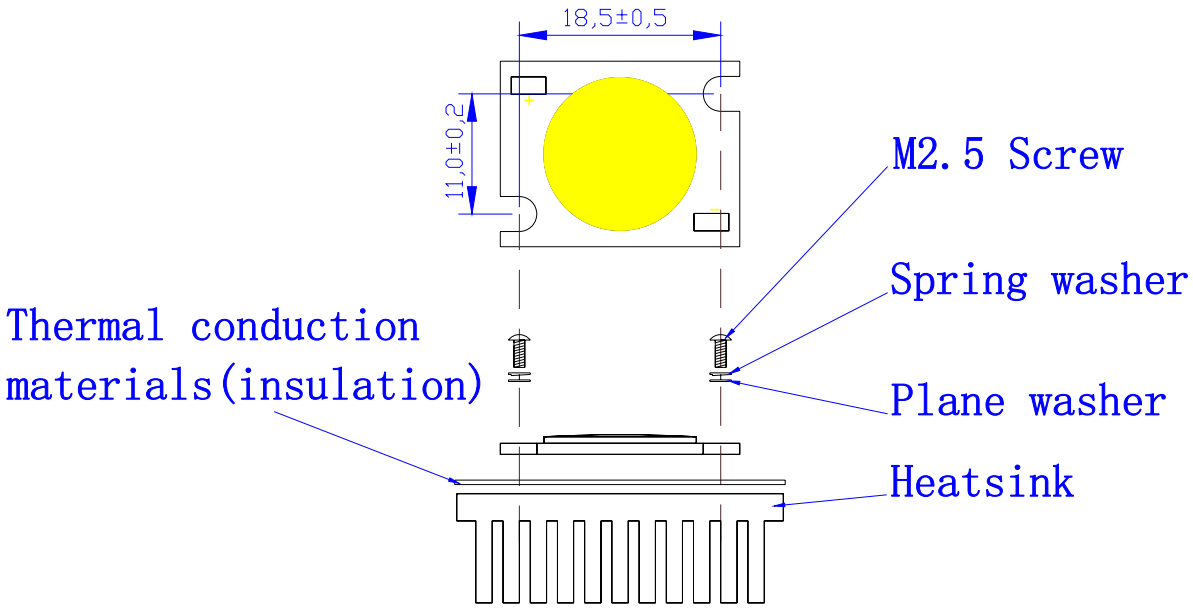


Fig.4 Relative Intensity Vs. Ambient Temperature



Part No. : ALD-CMW10-350D4

Recommended installation screw pitch



If you can not slove the heat problem,the product will distroy easily.Suggest that the surface of the heat sink is 35cm^2/W