

SPECIFICATION

MODEL: GL-5730WEA-2



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■ **1. Features**

- 1.1 Package: 5.7*3.0*0.9mm
- 1.2 Emitted Color: White
- 1.3 Mono-color type
- 1.4 Soldering methods: All SMT assembly methods
- 1.5 Comply RoHS standard

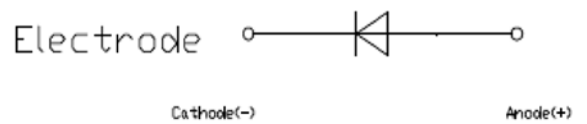
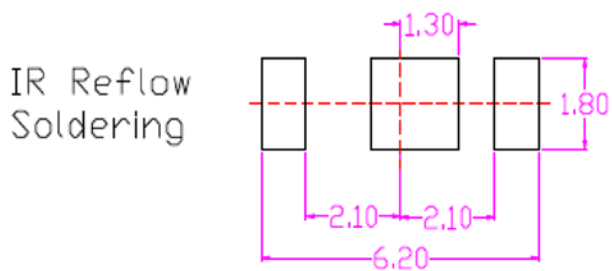
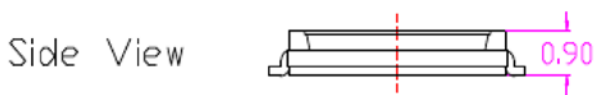
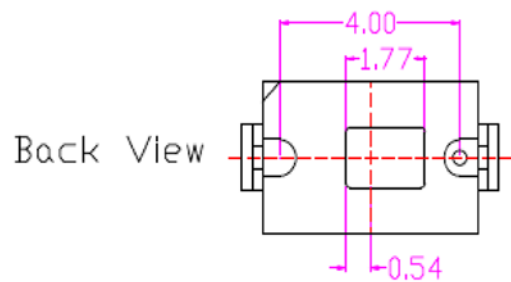
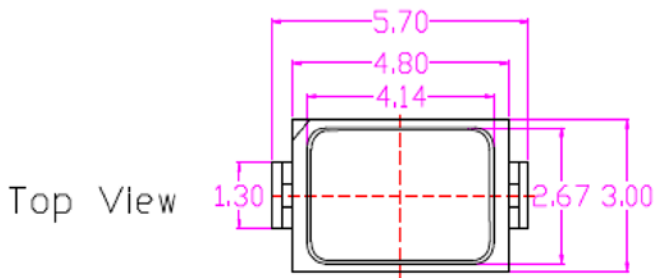
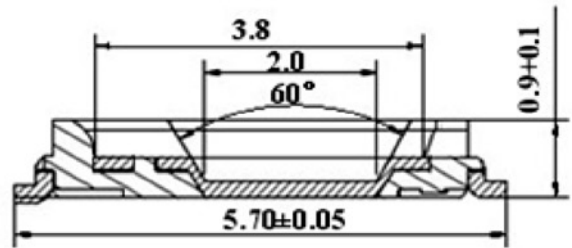
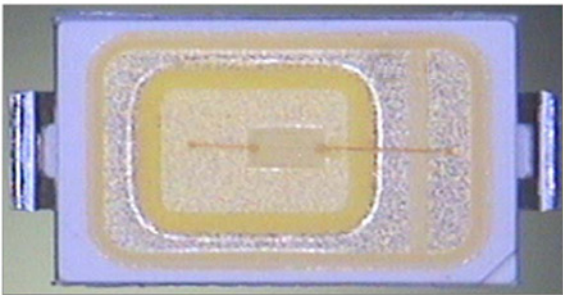
■ **2. Applications**

Apply to indoor lighting, outdoor lighting field

■ **3. Product Naming**

GL	5730	W	X	X	—	X
Company Name: Good Led	products model: 5730	LED Color Products: White	Chip manufacturers E-EPISTAR	Chip code: A+:(20*40) A:(20*38) B:(17*34)		Angle: 1:(140°C) 2:(120°C)

4. External Dimensions





5. The main optical and electrical properties (Ta=25°C)

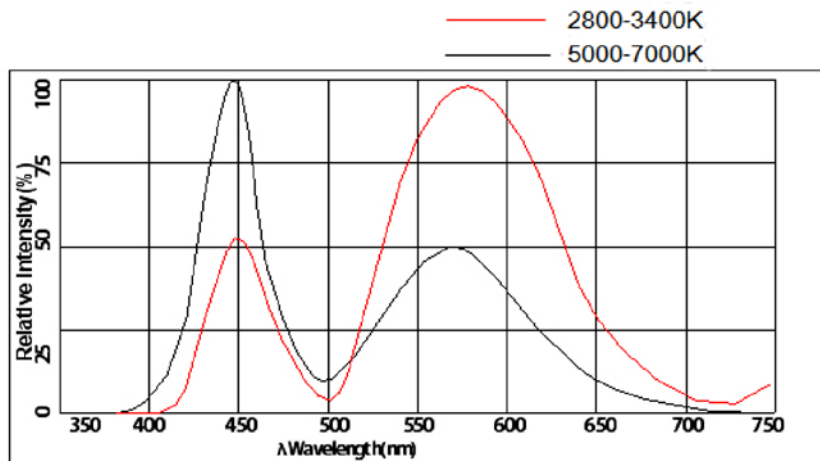
Project	Symbol	Conditions	Minimum	Average	Max.	Units
Forward Voltage	VF	IF=150mA		3,2		V
Reverse current	IR	VR=1.2V			5	μA
Flux	Φ	IF=150mA	55		65	Lm
Color Temperature	CCT	IF=150mA	6000		6500	K
Color Rendering Index	Ra	IF=150mA	60		85	

6. Absolute Maximum Rating (Ta=25°C)

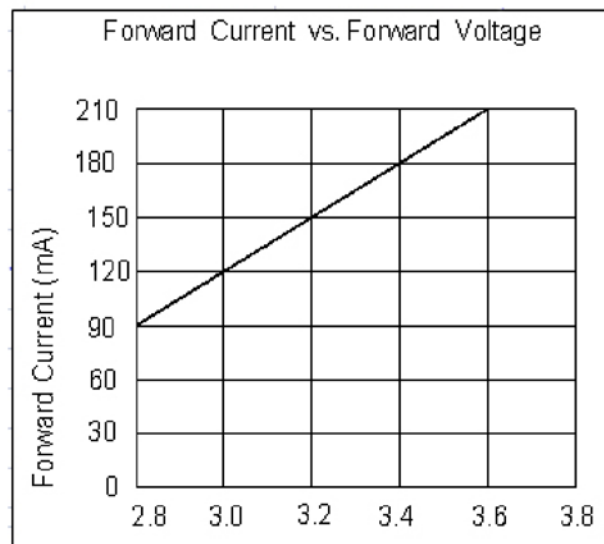
Project	Symbol	Limit parameter	Units
Forward Current	IF	150	mA
Recommended Current	IF	≤120	mA
Pulse peak current	IFP	500	mA
Reverse Voltage	VR	5	V
Power	PD	0,5	W
Operating temperature	Topr	(-30~+85)	°C
Storage Temperature	Tstg	(-40~+100)	°C
Soldering temperature	Tsol	reflow soldering: 250°C/10(Seconds0); Hand soldering: 300°C/3(Seconds)	
ESD Sensitivity	ESD	2000V HBM	

- 7. Typical electro-optical characteristics curves

Spectrum Distribution TA=25°C

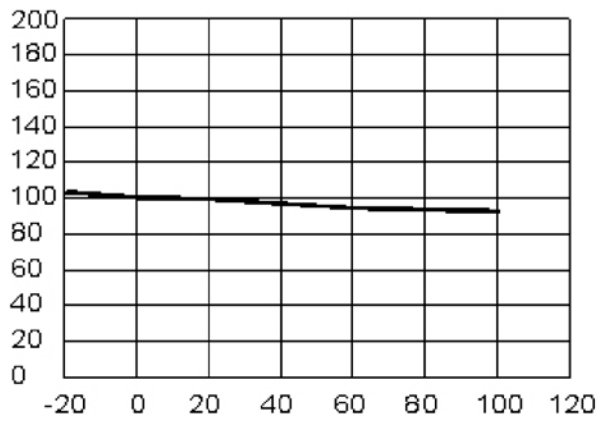


Forward voltage and forward current curves TA=25°C



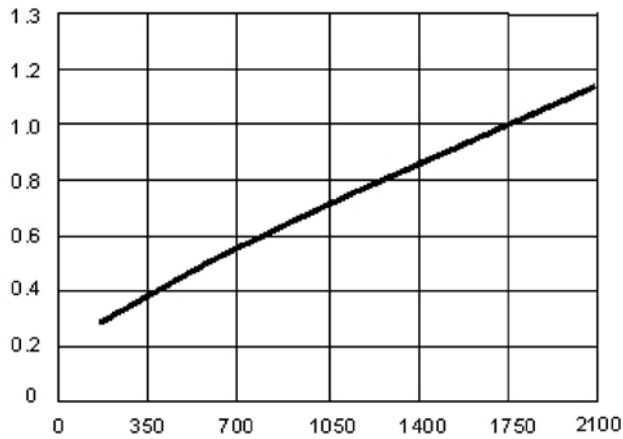


Relative Luminous Intensity (%)

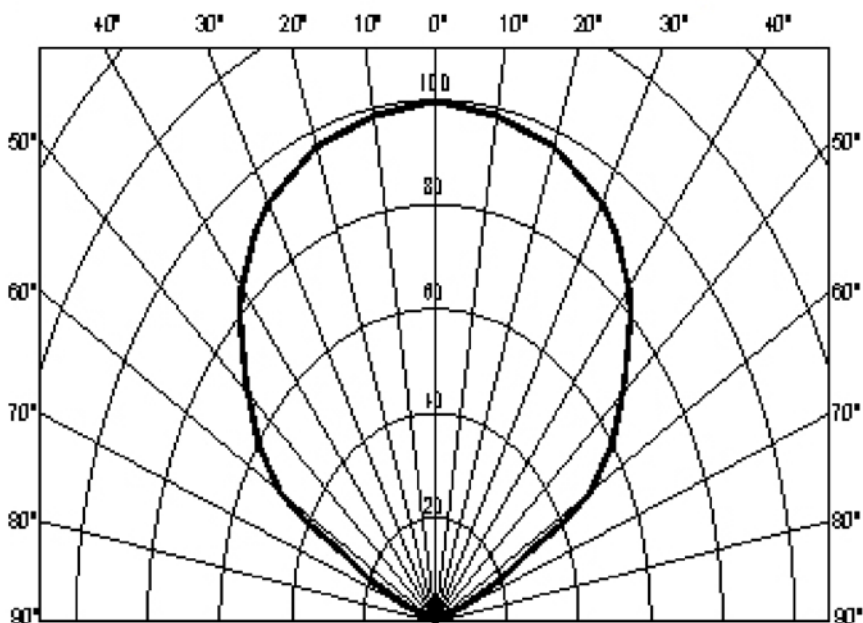


Ambient Temperature Ta (°C)

Normalized Relative Luminous Flux



Forward Current (mA)

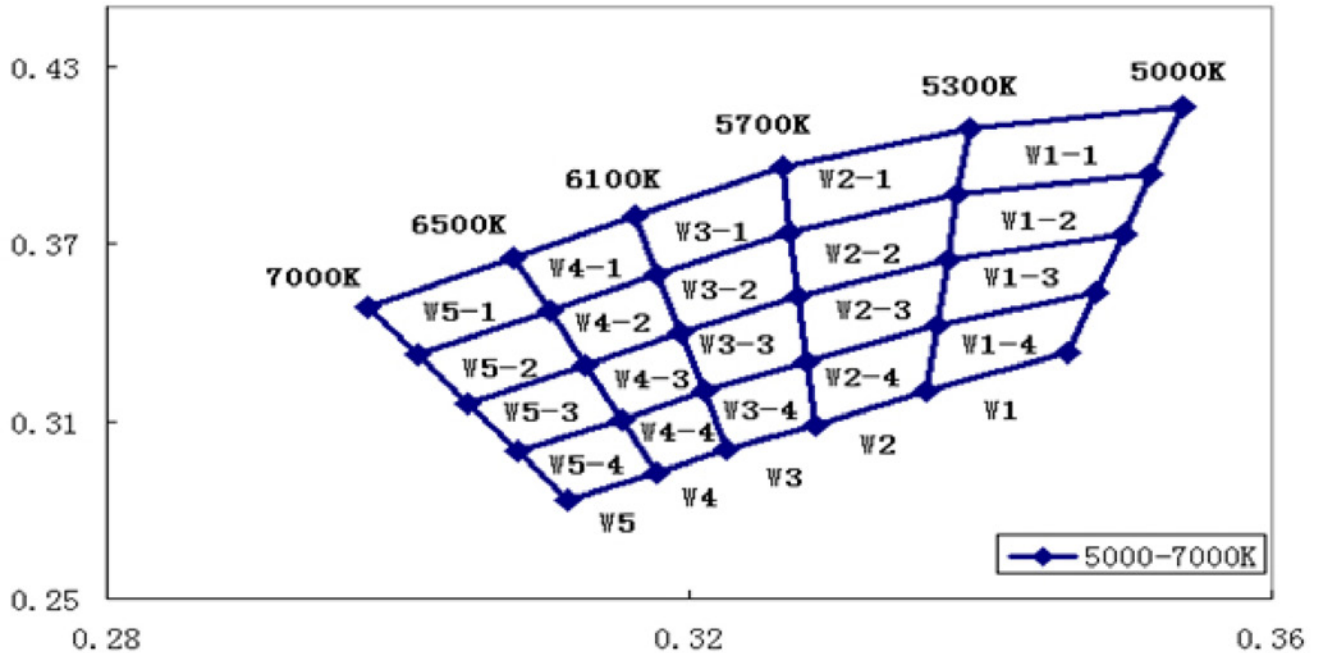


8. Reliability Test Standards

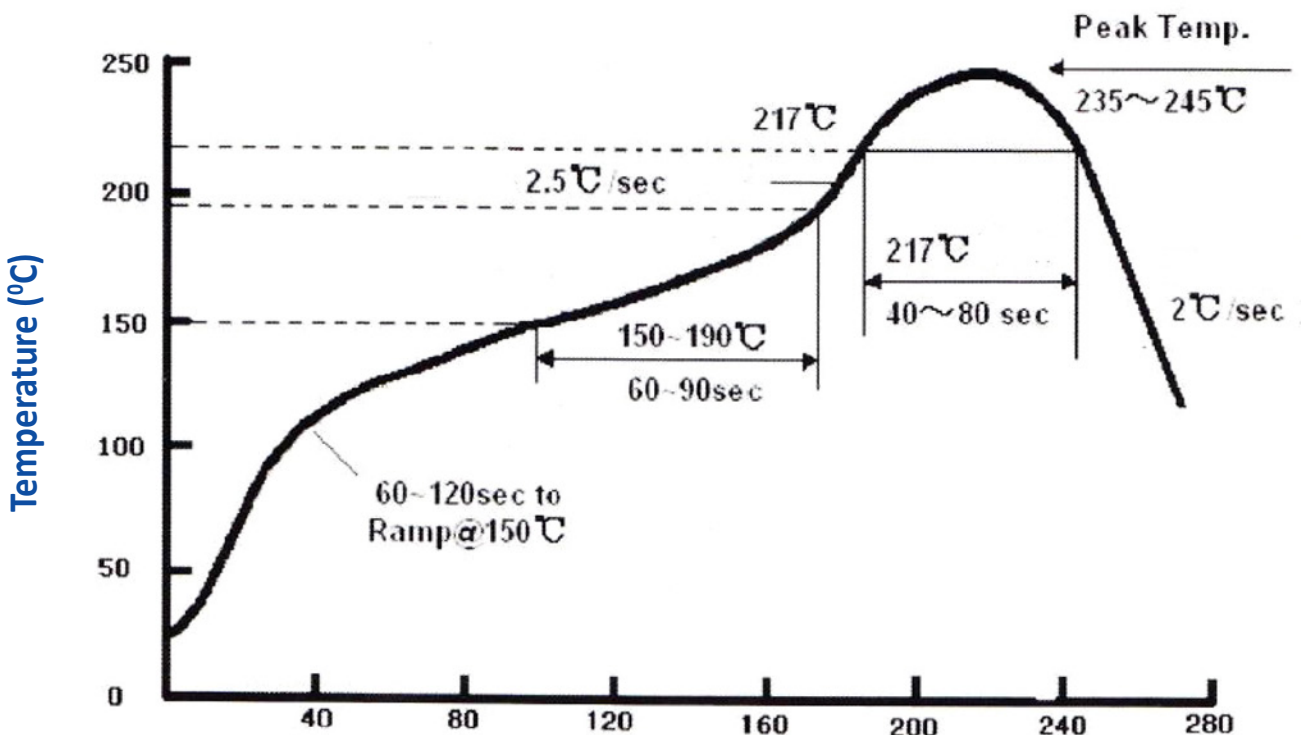
Type	Pilot project	Test conditions	Duration	The number of samples	Charge level
Environmental testing	Temperature cycling	45°C(30Min)~25°C(5Min) ~100°C(30Min)~25°C(5Min)	Cycle 100 Round	30	0/30
	Thermal Shock	-40°C(15Min) ~100°C(15Min)	Cycle 300 Round	30	0/30
	Humidity cycle	30°C~65°C RH=90% 24H/1Round	Cycle 50 Round	30	0/30
	High Temperature Storage	T _a =100°C	1000H	30	0/30
	Cryogenic storage	T _a =-40°C	1000H	30	0/30
	High temperature and humidity storage	T _a =60°C RH=90%	1000H	30	0/30
Life test	Life test at room temperature	T _a =25°C IF=150mA	1000H	30	0/30
	High temperature and humidity life test	T _a =60°C RH=90% IF=150mA	1000H	30	0/30
	Low-temperature life test	T _a =-30°C IF=150mA	1000H	30	0/30
Destructive test	Resistance to soldering heat	T _{sol} =360°C±5°C,10S	Welding time	5	0/5
	Solderability	T _{sol} =350°C±5°C,5S Using flux	Welding time	5	0/5
Mechanical test	Vibration test	20G 20-2000HZ 4Min X, Y, Z	Loop 4 times in each direction	5	0/5
	Drop test	75mm	Cycle 3 Round	5	0/5

9. White color coordinates map

5000-7000K

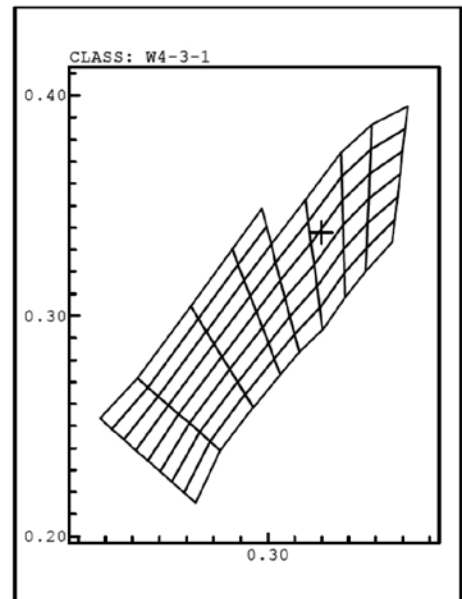
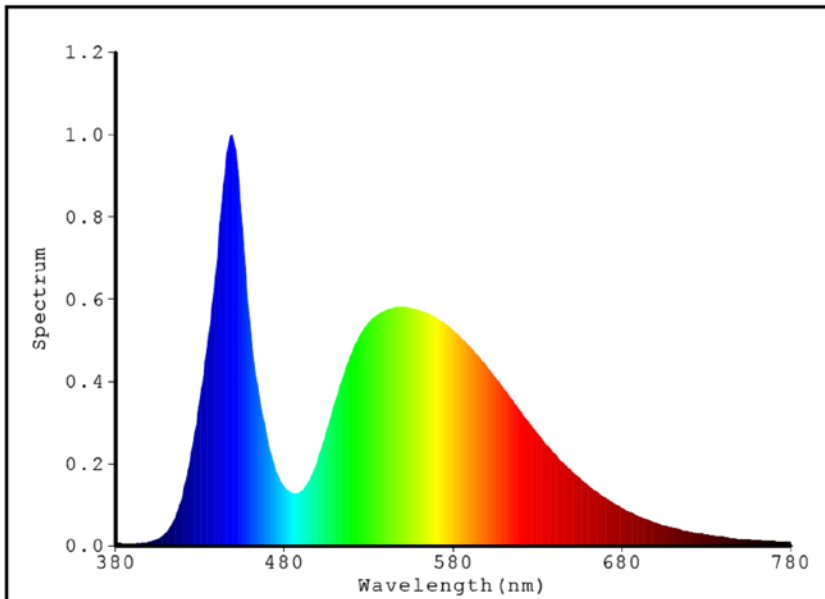


10. Solder conditions



■ 11. Test Report (EVERFINE LEDspec)

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3197$ $y=0.3379$ / $u'=0.1993$ $v'=0.4740$ $duv=5.259e-003$

Tc=6097K Dominant WL:Ld=496.0nm Purity=4.4%

Ratio:R=13.3% G=83.3% B=3.5% Peak WL:Lp=449.0nm HWL:25.7nm

Render Index:Ra=71.3 [None]

R1 =69 R2 =74 R3 =77 R4 =73 R5 =70 R6 =66 R7 =81

R8 =61 R9 =-29 R10=38 R11=70 R12=42 R13=69 R14=87 R15=64

Photo Parameters:

Flux = 63.06 lm Eff. : 126.65 lm/W Fe = 159.6 mW

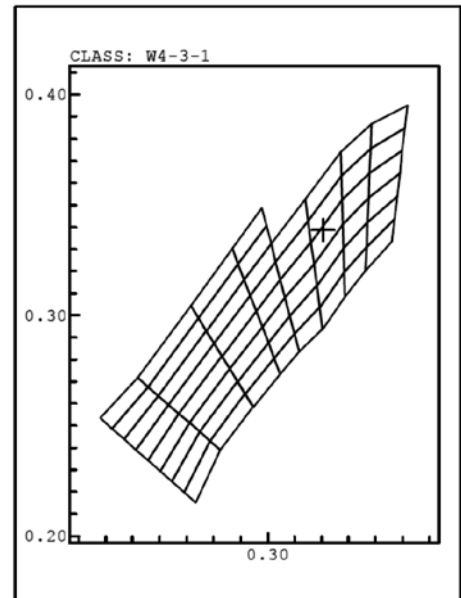
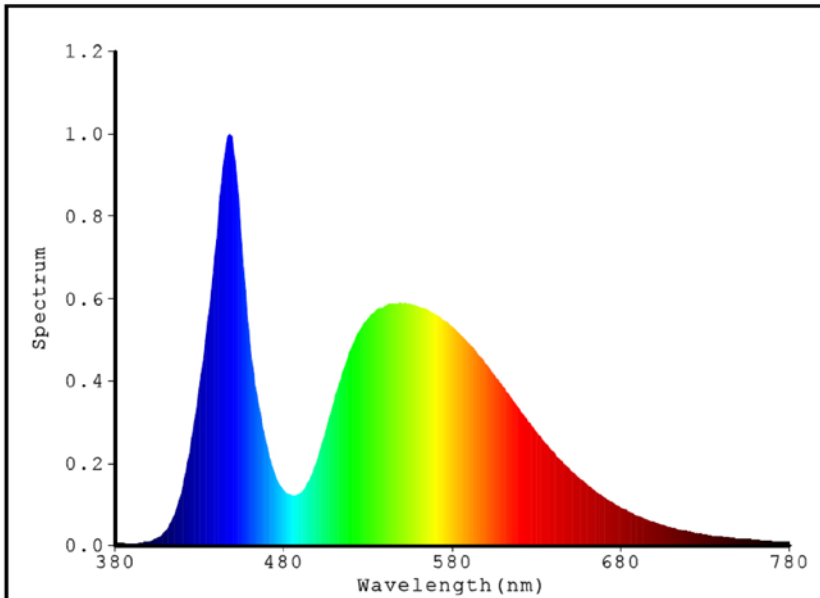
Electrical parameters:

VF = 3.318 V IF = 150.0 mA P = 497.9 mW

LEVEL:519 WHITE:W4-3-1

Status: T=1806.00ms Ip=53036 (81%) [HAAS2000_V1_USB] V2.00.167

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3204$ $y=0.3388$ / $u'=0.1995$ $v'=0.4746$ $duv=5.332e-003$

Tc=6056K Dominant WL:Ld=497.2nm Purity=4.1%

Ratio:R=13.3% G=83.4% B=3.3% Peak WL:Lp=447.8nm HWL:26.0nm

Render Index:Ra=70.6 [None]

R1 =68 R2 =73 R3 =76 R4 =72 R5 =70 R6 =65 R7 =80

R8 =60 R9 =-31 R10=36 R11=69 R12=42 R13=68 R14=86 R15=64

Photo Parameters:

Flux = 63.14 lm Eff. : 127.21 lm/W Fe = 159.5 mW

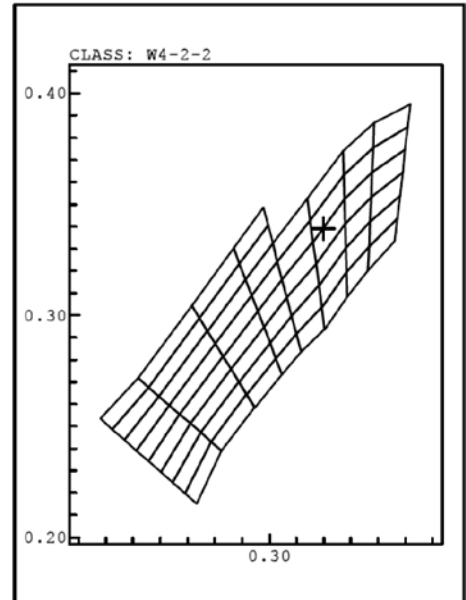
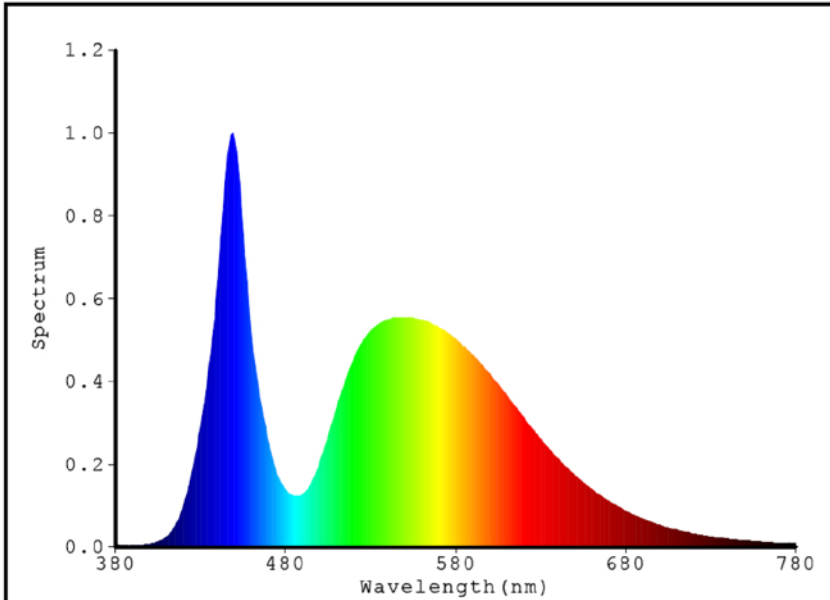
Electrical parameters:

VF = 3.309 V IF = 149.9 mA P = 496.3 mW

LEVEL:519 WHITE:W4-3-1

Status: T=1806.00ms Ip=53257 (81%) [HAAS2000_V1_USB] V2.00.167

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3198$ $y=0.3391$ / $u'=0.1989$ $v'=0.4747$ $duv=5.813e-003$

Tc=6087K Dominant WL:Ld=497.3nm Purity=4.3%

Ratio:R=13.3% G=83.3% B=3.5% Peak WL:Lp=448.4nm HWL:23.4nm

Render Index:Ra=71.4 [None]

R1 =69 R2 =75 R3 =78 R4 =73 R5 =70 R6 =66 R7 =81

R8 =60 R9 =-30 R10=39 R11=69 R12=41 R13=69 R14=87 R15=64

Photo Parameters:

Flux = 65.18 lm Eff. : 132.95 lm/W Fe = 163.9 mW

Electrical parameters:

VF = 3.268 V IF = 149.9 mA P = 490.2 mW

LEVEL:519 WHITE:W4-2-2

Status: T=1806.00ms Ip=54768 (84%) [HAAS2000_V1_USB] V2.00.167