

## Technical data LED panel 7 W and 10 W LUFTOMET Lumen

10 W:

### Features:

RoHS complian

Extremely wide viewing angle

### Characteristics:

Voltage:	12 V	
In put power:	10 W / 7 W	
Numbe of SMD:	24 pcs on the panel	
Polarity:	From the perspective of connecting cables to electrical polarity, it does not matter.	
Viewing Angle	2θ1/2	120Deg Typ.
Color Rendering Index:	Ra	80
Luminous Flux:	10W: 900 lm	7 W: 650 lm

Note:

1. 2θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. The above luminous flux measurement allowance tolerance ±10%.
3. The above Color Rendering Index measurement allowance tolerance is±2

### Conditions:

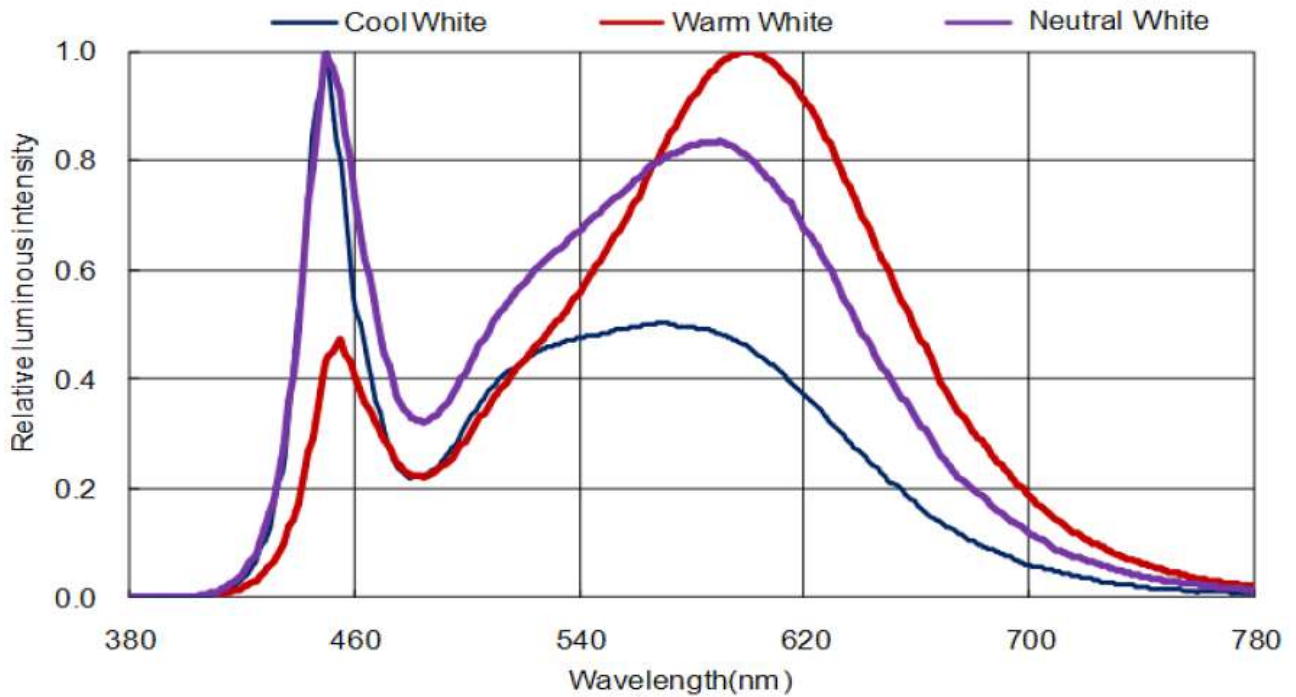
Operating Temperature	Topr	-40 ~ +85 °C
Storage Temperature	Tstg	-40 ~ +100 °C
Junction Temperature	Tj	115 °C

### CCT:

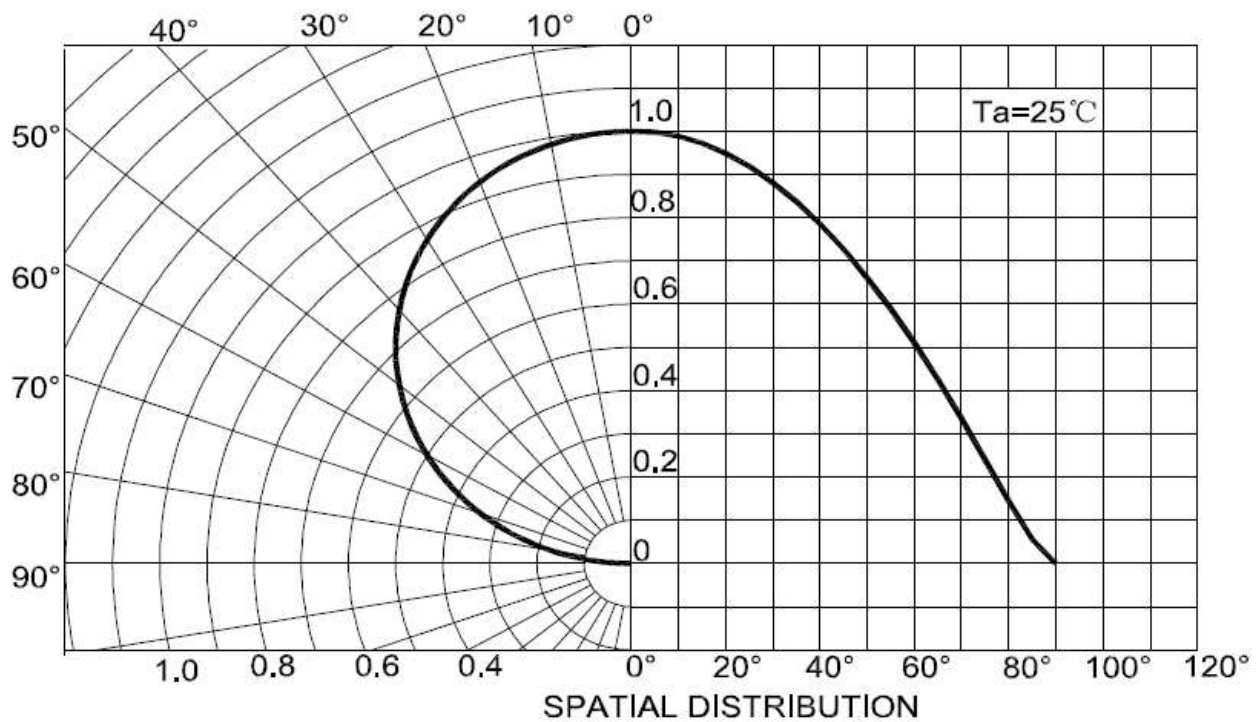
Cold:	6 500 K: min 6 000 K- max 7 000 K
Neutral:	5 000 K: min 4 750 K- max 5 300 K
Warm:	3 000 K: min 2 800 K- max 3 100 K

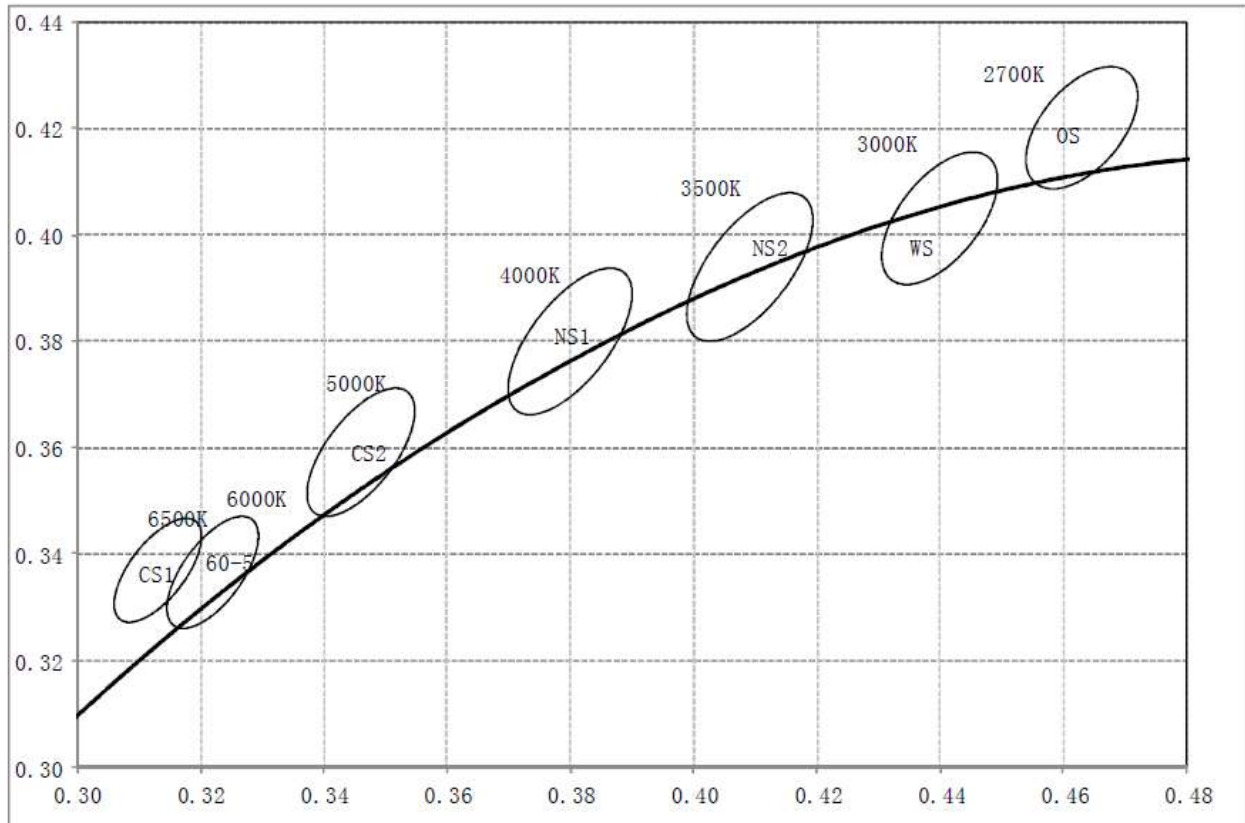
## Typical optical characteristics curves

### Relative spectral emission



### Radiation diagram





### Bin Range of Chromaticity Coordinate

Nominal CCT	Bin Code	Target Center Point (cx,cy)	Major Axis, a	Major Axis, b	Ellipse Rotation Angle, $\theta$	Color Space
6500K	CS1	0.313,0.337	0.01115	0.00475	58.23°	Sing 5-step
6000K	60-5	0.3220,0.3365	0.01179	0.00504	59.21	Sing 5-step
5000K	CS2	0.346,0.359	0.01370	0.00590	59.37°	Sing 5-step
4040K	NS1	0.380,0.380	0.01565	0.00670	54.00°	Sing 5-step
3450K	NS2	0.409,0.394	0.01585	0.00695	52.58°	Sing 5-step
2940K	WS	0.440,0.403	0.01390	0.00680	53.10°	Sing 5-step
2720K	OS	0.463,0.420	0.01290	0.00685	53.17°	Sing 5-step

## Reliability Test Items and Conditions

Test Item 项目	Ref. Standard 参考标准	Test Condition 测试条件	Time 时间	Quantity 数量	Ac/Re 接收/拒收
Reflow Soldering 回流焊	JESD22-B106	Temp:260°Cmax T=10 sec	3 times	22Pcs	0/1
Temperature Cycle 温度循环	JESD22-A104	120°C±5°C 30 min. ↑↓5 min -40°C±5°C 30 min.	100 Cycles	22Pcs	0/1
High Temperature Storage 高温保存	JESD22-A103	Temp:100°C±5°C	1000Hrs	11Pcs	0/1
Low Temperature Storage 低温保存	JESD22-A119	Temp:-40°C±5°C	1000Hrs	11Pcs	0/1
Room Temperature Life Test 常温通电	JESD22-A108	Ta=25°C±5°C IF=150mA	1000Hrs	11Pcs	0/1
High Temperature High Humidity Life Test 高温高湿通电	JESD22-A101	85°C±5°C/ 85%RH IF=70mA	1000Hrs	11Pcs	0/1

## Failure Criteria

Test Items 项目	Symbol 符号	Test Condition 测试条件	Failure Criteria 判定标准	
			Min. 最小	Max. 最大
Forward Voltage 正向电压	VF	IF=150mA	--	U.S.L*)x1.1
Reverse Current 反向电流	IR	VR = 5V	--	10µA
Luminous Flux 光通量	Lm	IF=150mA	L.S.L*)x0.7	--

\*The technical information shown in the data sheets is limited to the typical characteristics and circuit examples of the referenced products. It does not constitute the warranting of industrial property nor the granting of any license.

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