LUFTOMET
czech design

Technical data LED panel 10 W
LUFTOMET Lumen

Features:
RoHS complian
Extremely wide viewing angle

Characteristics:

Voltage:	12 V	
In put power:	10 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

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 ℃
Storage Temperature	Tstg	-40 ~ +100 ℃
Junction Temperature	Tj	115 ℃

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,θ	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℃max T=10 sec	3 times	22Pcs	0/1
Temperature Cycle 温度循环	JESD22-A104	120℃±5℃ 30 min. ↑↓5 min -40℃±5℃ 30 min.	100 Cycles	22Pcs	0/1
High Temperature Storage 高温保存	JESD22-A103	Temp:100℃±5℃	1000Hrs	11Pcs	0/1
Low Temperature Storage 低温保存	JESD22-A119	Temp:-40℃±5℃	1000Hrs	11Pcs	0/1
Room Temperature Life Test 常温通电	JESD22-A108	Ta=25℃±5℃ IF=150mA	1000Hrs	11Pcs	0/1
High Temperature High Humidity Life Test 高温高湿通电	JESD22-A101	85℃±5℃/ 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	- -

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