

Test Report

Customer: Jibe Lighting b.v.

Address: Hogebrinkerweg 14-V, NL-3871 KN Hoevelaken, Nederland



Trade Mark:

Production desperation: LED Backlit Panel Light

Models: PL-6060-BL-26S-CCT

Rating: 220-240V~, 50/60Hz, 26W

Issued date: March 12, 2021

1. Testing standards:

LM-80-08: Measuring Lumen Maintenance of LED Light Sources

TM-21-11: The Estimation of Lumen Maintenance Life of LED

2. Test conditions:

25°C (0~+5°C)

3. Judgment criteria:

Calculate L90 depending on the highest value of the LEDs temperature, it is qualified if more than 50,000 hours

4. Test Equipment:

Equipment name	Equipment number	Cal. Date	Specification data
VHP precision inverter test power supply	1903034	2021/3/24	0-300V, 0-4.6A
LXI Data Acquisition	MY59000931	2021/10/15	34972A

5. LEDs Information:


Supplier:	Jufei	Dimension:	2835 white SMD
Parameter:	9V/100mA 1W	LM-80 Report No.:	BTR66.181.18.0010.18

6. Test location and environmental conditions:

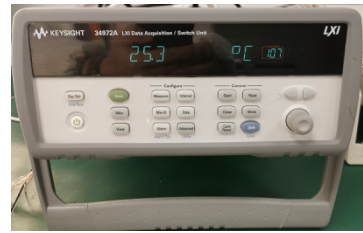
Ambient temperature: 25°C

Relative humidity: 50%RH

7. Testing process:

<p>1. LED Panel is powered on to confirm that there is no abnormality and remains lit.</p>	
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2. The instrument is powered on to confirm no abnormalities.



3. Dismantle the LED Panel, connect the temperature measurement line with the pad, PCB, housing respectively, and record the corresponding line channel and the initial temperature.



4. The panel light will be installed and put into a stable room temperature environment to light up the operation, record the temperature of each solder joint after power on 4H stability.

6060 LED Backlit Panel (°C) - 4H after the stable temperature					
Chan nel	Test joint	3000K	5000K	3000K+5000K	Max
1	Solder plate 1	33	32.1	32.2	35
2	Solder plate 2	32.5	32.6	32.3	
3	Solder plate 3	32.7	32.3	32.3	
4	Solder plate 4	32.9	34	33.2	
5	Solder plate 5	33.9	32.9	33.1	
6	Solder plate 6	33.4	34	33.4	
7	Solder plate 7	34.4	32.4	33.2	
8	Solder plate 8	33.6	35	34.1	

5. Based on the test results, the L70 is deduced from the formula.	6060 LED Backlit Panel	
	Drive current	DC30-38V 650mA
	LED string parallel	4S12P*2
	Each LED Current	54.1mA/54.1mA、 27.1mA
	Case Temperature	35°C
	B	2.043E-06
	a	1.002
	Projection of Lp (hours)	$\text{Ln}(100*B/p)/a$
	Projection of Lp L90 (hours)	> 53000 hours
Report: L90 (hours) > 53000		
Judgment	L90 is qualified if it is longer than 50,000 hours.	

8. Testing result:

25°C, 30-60%RH			
Test item	Nominal value	Actual value	Judgment
Temperature rise	L90 > 50000H	L90 > 53000H	Qualified
Conclusion: The Backlit LED Panel temperature rise test results is qualified.			