

Temperature test

版本: R&D-PTR-V1.2

Product name	LWW-PZT-W38A-L12-DMX					
Temperature test						
Ambient temperature	30 °C		Test environment	Night test in the sample room on the fifth floor		
Driving current	R: 86mA G: 86mA B: 86mA W/A: 86mA			Power	38.5 W	Operating voltage 220VAC
Test item selected	☐ Lamp bead ☐ Low voltage drive and control ☐ Lamp board ☐ Lamp body ☐ Switching power supply (high voltage constant current drive)					
Lamp bead	4 in 1 lamp pin temperature 1	50	Red light foot temperature 2		50.6	
Low pressure drive and control	Driver chip temperature 1	53.3	Driver chip temperature 2			
	75Ω temperature 1	50	Capacitor temperature 2			
	Inductance temperature 1		Inductance temperature 2			
	Continuous current diode temperature 1		Continuous current diode temperature 2			
	Control chip 1		Control chip 2			
Light board	Light board temperature 1		Light board temperature 2			
Modulator body	Outside temperature of lamp body 1	Light panel side light body 46.7	Light body ground side temperature 2		Bottom of power box 45	
Switching power supply	Power Transformer 1		Power Transformer 2			
	Power MOS tube 1		Power MOS Tube 2			
	Output Diode 1		Output diode 2			
	Power supply housing temperature 1	53.3	Power supply housing temperature 2			
Test Conclusion						
Test items		criterion		Determination of conformity		Rectification plan
Red light bead chip temperature determination		Lamp pin temperature + thermal resistance X power <85°C		Qualified		
Green light bead chip temperature determination		Lamp foot temperature + thermal resistance X power <85°C		Qualified		
Blue light bead chip temperature determination		Lamp foot temperature + thermal resistance X power <85°C		Qualified		
White lamp bead chip temperature determination		Lamp pin temperature + thermal resistance X power <85°C		Qualified		
Driver chip temperature determination		< 100 °C		Qualified		
Capacitance temperature determination		< 105 °C				
Inductance temperature determination		< 100 °C				
Continuous current diode temperature determination		< 100 °C				
Control chip decision		< 85 °C				
Lamp body temperature determination		< 70 °C		Qualified		

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Power supply temperature determination	< 100 °C	Qualified	
MOS tube temperature determination	< 100 °C		
Output diode temperature determination	< 100 °C		

Test time: 2022/10/12 Signature of Project engineer: Signature of tester: Wen Rusheng