

TEST REPORT

Product Name: Fixed LED (spot light)

Product Model: SP-F310A

Test Category: water resistance rating Test

Customer: TPK OPTOELECTRONIC TECH CO., LTD

Tested by: Huang Wenliang

Checked by: Chen Hairui

report time: July 5, 2019

广东泰然实业有限公司
TPK OPTOELECTRONIC TECH CO., LTD

Inspection report

Test items	IP67 water resistance rating
Test Object	SP-R310A
Detection Purposes	Whether SP-310A can achieve IP67 water resistance rating.
Test Time	From July 4, 2019 to July 5, 2019

Experimental methods and procedures:

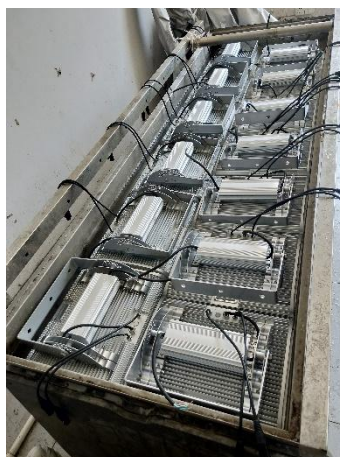
1. Light up the lamp for 4 hours to preheat.
2. After preheating, soak the lamp in water for 0.5 hours.
3. After soaking in water, light up the lamp for 4 hours to see if there is any moisture inside the glass.

Test data:

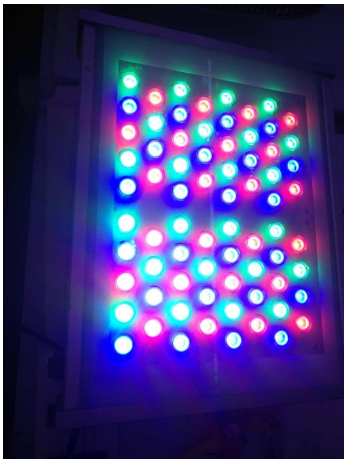
1. Preheat the lamp before the waterproof test



2. Lamps soaked in water



3. After soaking in water and baking, there is no water vapor or mist on the surface of the glass.



Baking water vapor

IP XX 等级防护要求表			
第一位数(防尘)		第二位数(防水)	
0	无防护	0	无防护
1	防止 > 50mm 的物体入侵	1	防止滴水侵入
2	防止 > 12mm 的物体入侵	2	倾斜 15 度仍可防上滴水侵入
3	防止 > 2.5mm 的物体入侵	3	防止喷洒的水入侵
4	防止 > 1.0mm 的物体入侵	4	防止飞溅的水入侵
5	防尘(但无法完全防止灰尘入侵)	5	防止喷射的水入侵
6	防尘(完全防止灰尘入侵)	6	防止大浪的水入侵
		7	防止浸水的水入侵
		8	防止沉没的影响

Test results: No water vapor or mist in the glass when SP-F310A is immersed in water for 0.5 hours and exposed to steam.

Final test conclusion: After testing, the SP-F310A was rated ip67 for water resistance.