

# LUMINAIRES-PART 1 : GENERAL REQUIREMENTS AND TEST REPORT ( RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE )

Test Standard : IEC 60598-1(2001)

Date of Receipt: 2016 / 06 / 24

Test Date: 2016 / 07 / 07 ~ 2016 / 07 / 12

Result of determination this subclass type experiment : **PASS(IP67)**

1. Issue date for test report : 2016 / 07 / 14
2. Report No : 16062440
3. Total pages : 7
4. Test report without steel stamp is not valid, and shall not be reproduced except in full.
5. Test sample is not sampling by laboratory, test result relate only to the items tested.
6. Test report is not responsible for advertisement or promotion for products.
7. This test is only an excerpt [IEC 60598-1 General requirements and tests for luminaires] test standard.

Approved Signatory:



## Test Report

### Information for test items

Applicant : Solar New Power Corp.

Applicant's address : 5F.-3, No.83, Sec. 2, Gongdao 5th Rd., East Dist., Hsinchu  
City 300, Taiwan (R.O.C.)

Manufacturer : Solar New Power Corp.

Manufacturer's address : 5F.-3, No.83, Sec. 2, Gongdao 5th Rd., East Dist.,  
Hsinchu City 300, Taiwan (R.O.C.)

Trademark : CoolLED

Model No. : F3250C-001

Series model : F3150C-001 、 F3150N-001 、 F3150W-001 、 F3250N-001 、  
F3250W-001

Dimensions : L 365 mm 、 W 298 mm 、 H 187 mm

Uses the place : in door    out door

Test Standard : IEC 60529    IEC 60598

Application test rank : IP67

### Test content

Test Levels	Test standard (IEC 60598-1)	Result of test	Determination
	Temperature : 24.5 °C Humidity : 55.2%RH		
6	Degrees of protection against solid foreign objects indicated by the first characteristic numeral		
	The test shall proceed as follows: (a)The luminaire is suspended outside the dust chamber and operated at rated supply voltage until operating temperature is achieved. (b)The luminaire, whilst still operating, is placed with the minimum disturbance in the dust chamber. (c)After 1 min, the luminaire is switched off and allowed to cool for 3 h whilst the talcum power remains in suspension.	No dust into the enclosure.	PASS
7	Degrees of protection against water indicated by the second characteristic numeral		
	Watertight luminaires are switched off and immediately immersed for 30min in water, so that there is at least 150mm of water above the top of the luminaire and the lowest portion is subjected to at least 1m head of water	No water into the enclosure.	PASS

### Photo of test items

The appearance of photo



The appearance of photo



**Photo of test items**

IP6X after the test



IPX7 after the test



**Equipment list and testing engineer for test**

Item	Equipment No	Equipment	Manufacturer / Type / Series No
1	99S-04	Bears the dust testing machine class dust + Floating dust	TAICHY TECHNOLOGY LTD DT-1500CF
3	99S-20	Bears the rain water testing machine	TAICHY TECHNOLOGY LTD RT-IEC-IPX7.8
			Testing engineers : Chun-Ting Liu

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### **Differential analysis explain**

Entrust bodies	Solar New Power Corp.
Model No.	F3080C-001
Series model	F3070C-001 、 F3070N-001 、 F3070W-001 、 F3085N-001 、 F3085W-001

#### Luminaires of the difference contents

Series model F3070C-001 、 F3070N-001 、 F3070W-001 、 F3085N-001 、 F3085W-001 and model No. F3080C-001 besides color temperature are different, its lamps and lanterns external structure are all the same, therefore does not have the influence dustproof waterproofing rank.

F3080C-001 : color temperature 3000K

F3070C-001 : color temperature 3000K

F3070N-001 : color temperature 4000K

F3070W-001 : color temperature 5000K

F3085N-001 : color temperature 4000K

F3085W-001 : color temperature 5000K

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