



DEGREES OF PROTECTION PROVIDED BY ENCLOSURES IP Testing Report



Testing Laboratory
1888

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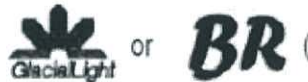


DEGREES OF PROTECTION PROVIDED BY ENCLOSURES TESTING

Applicant : GlacialTech Inc.

Applicant Address : 9F1., No. 352, sec. 2, Jung Shan Rd., Jung He City, Taipei 235, Taiwan

Sample : LED Flood Light



Model / Logo : GL-FL100-CW /

Ballast type : Glacial Power/GP-LS100P-36 1E × 1PCS

Load Type : COB 100W × 1PCS

Rated Voltage/Frequency : AC 100~240V/50/60Hz

Tested Voltage/Frequency : AC 240V/50Hz

Dimensions : L 283 mm × W 160 mm × H 248 mm

Standard : IEC 60598-1(Edition 7.0: 2008-04) 、 IEC 60529(Edition 2.1: 2001)

Sampling procedure : Sent by applicant

Date of receipt : Feb. 25, 2015

Testing date : Mar. 02, 2015 ~ Mar. 20, 2015

Testing Engineer : Peng-Tai Huang

Laboratory : Jing Hong Examine Technology Co., Ltd.

Result of test : IP66, Result of test see page 3~4.



Report signee :

Chen Chang-Lung



1. Test result : Pass
2. Environmental conditions during testing :

Ambient temperature : (25±5)°C

Humidity : (50±25)%RH

Ambient air pressure : (960±100)mbar

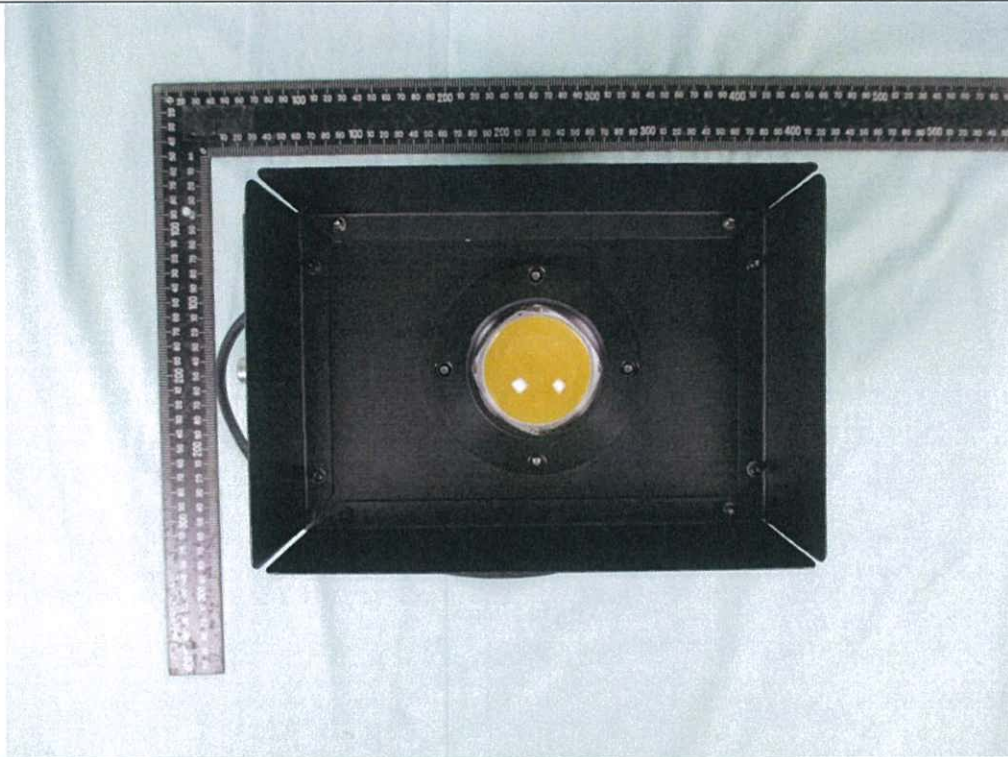
3. Description of test :

Test items		Standards of test	Result of test
1.Degrees of protection against access to hazardous parts.	IP6X	Test Standard : IEC 60598-1 【sec.9】 IEC 60529 【sec.11.4】 【sec.12.2】 【sec.12.3】 Test Method : a) The sample is tested with an access probe of 1,0 mm ϕ ; b) The access probe is pushed against or inserted through any openings of the enclosure with a force of 1.0N±10%; c) The test probe shall not penetrate and adequate clearance shall be kept.	The protection is satisfactory, for adequate clearance is kept between the access probe and hazardous parts.
2.Degrees of protection against solid foreign objects.		Test Standard : IEC 60598-1 【sec.9】 IEC 60529 【sec.11.4】 【sec.13.1】 【sec.13.4】 【sec.13.6】 Test Method : a) The luminaire is placed outside the dust chamber and operated at rated supply voltage, until its operation temperature is achieved; b) The luminaire, whilst still operating, is placed in the dust chamber with cautiousness; c) The door of the dust chamber is closed; d) The fan/blower causing the talcum powder to diffuse is switched on; e) After 1 min, the luminaire is switched off and allowed to cool for 3 h whilst the talcum powder remains in suspension.	The protection is satisfactory, for no deposit is observable inside the enclosure.

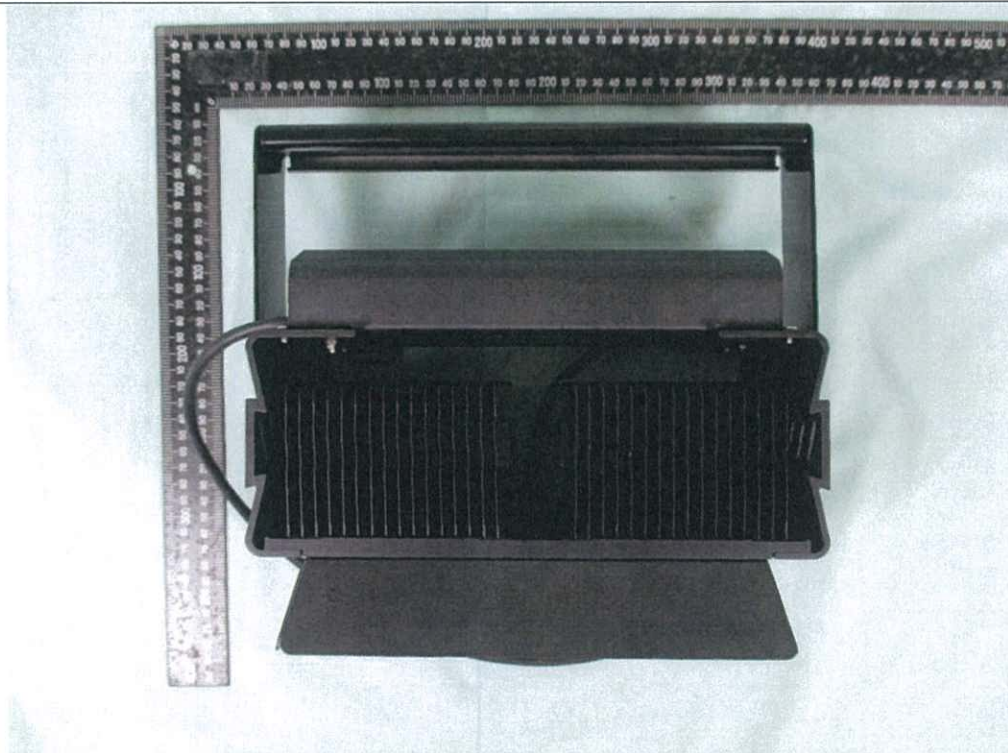


Degrees of protection against water.	IPX6	<p>Test Standard :</p> <p>IEC 60598-1 【sec.9】</p> <p>IEC 60529 【sec.14.1】</p> <p>【sec.14.2.6】</p> <p>【sec.14.3】</p> <p>Test Method :</p> <p>a) Internal diameter of the nozzle : 12.5mm;</p> <p>b) Delivery rate : 100 l/min \pm5% (approximately 100 kN/m²);</p> <p>c) Water pressure : to be adjusted to achieve the specified delivery rate;</p> <p>d) Core of the substantial stream : circle of approximately 120mm diameter at 2.5m distance from nozzle;</p> <p>e) Minimum test duration : 3 min;</p> <p>f) Distance from nozzle to enclosure surface : 3m;</p> <p>g) The ingress of water shall not impair safety;</p> <p>h) The luminaire is placed in general environment and operated at rated supply voltage; Until its operation temperature is achieved, it is switched off to be tested.</p>	The protection is satisfactory, for no water ingress is observed.
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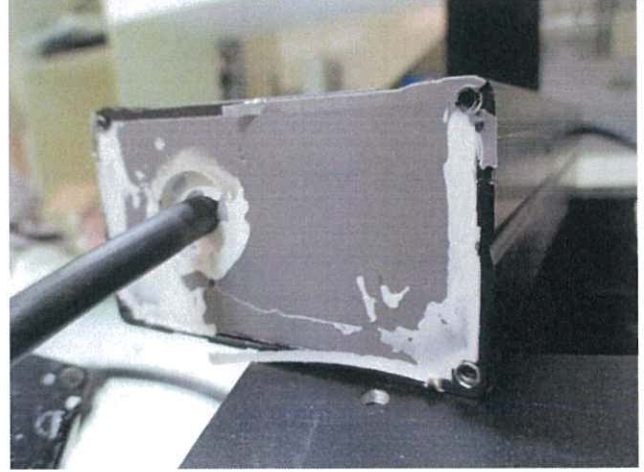
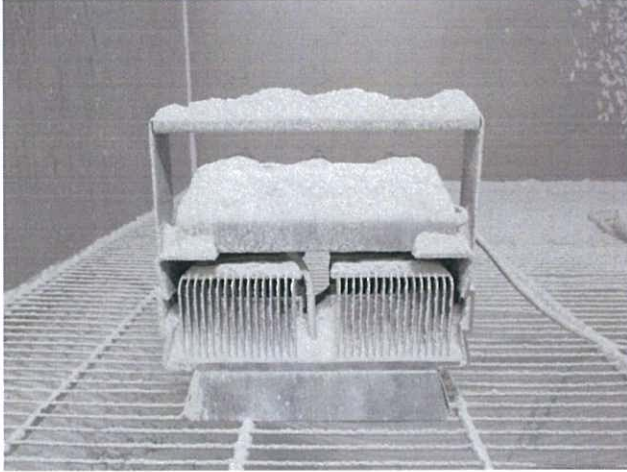




Front

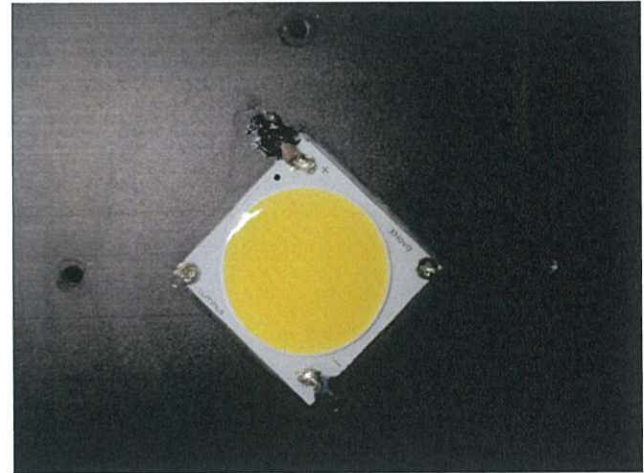


Side



IP6X Testing

Result



IPX6 Testing

Result



Equipment list :

No.	Test apparatus name	Model / Logo	Apparatus No.	Effective date of calibration	Remarks
1	Temperature and humidity barometer	ISUZU / THB-36-MN7	GH-001	2016/01/04	
2	Dust testing machine	NEW-FLOW / DT-3375	GH-005	2015/10/02	
3	Waterproof Tester	CHTEK	GH-006	No Calibration needed	
4	IP flow meter (1)	HWA KEE / W-12Z	GH-006-05	2015/05/13	
5	IP flow meter (2)	HWA KEE / W-124	GH-006-06	2015/05/13	
6	IP flow meter (3)	HWA KEE / TW-162	GH-006-07	2015/05/13	

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