

Technical Report No. 68.140.15.456.01

Dated 2015-10-30

Client: Name: Shenzhen GK Lighting Co., LTD
Address: 5F, Building D, Xinyongfeng-tianxin Industrial Park, Kengwei Road, Shangwu Community, Shiyan Town, Baoan District, Shenzhen, Guangdong Province, China
contact person: Mr. Yuan

Manufacturing place: Manufacturer's name: same as client
Address: same as client
Factory's name: same as client
Address: same as client

Test subject: Product: Hi Voltage LED injection module
Type: MFW897D; MFW898D; MFW899D

Test specification: IP68 (1m) test according to EN 60598-1:2015 clause 9.2.2 and clause 9.2.9

Purpose of examination:

- ☐ inspection according to specified requirements to realize the conformity with the Produktsicherheitsgesetz –ProdSG, version Nov 08, 2011
- ☐ inspection according to specified requirements to realize the observance of the protection aims of the following EC directives:
 - ☐ LVD directive 2014/35/EU
 - ☐ EMC directive 2014/30/EU
- ☒ Test according to the test specification

Test result: The test results show that the presented products are in compliance with the specified requirements

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1 Description of the test subject

1.1 Function

☒ Manufacturer's specification for intended use:
LED module for indoor and outdoor use.

☐ Manufacturer's specification for predictive misuse:

1.2 Consideration of the foreseeable misuse

- ☐ Not applicable
- ☒ Covered through the applied standard
- ☐ Covered by the following comment
- ☐ Covered by attached risk analysis

2 Order

2.1 Date of Purchase Order, Customer's Reference

2015-10-14

2.2 Receipt of Test Sample, Location

1 sample was received on 2015-10-14; 1 sample was received on 2015-10-26;
EnE Department, Shenzhen.

2.3 Date of Testing

2015-10-14 to 2015-10-30

2.4 Location of Testing

Building 12&13, Zhiheng Wisdomland Business Park Nantou Checkpoint Road 2, Nanshan District 518052 Shenzhen CHINA

2.5 Points of Non-compliance or Exceptions of the Test Procedure

None

3 Test Results

3.1 Dust-tight luminaires (IP6X), 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) The door of the dust chamber is closed.
- d) The fan / blower causing the talcum powder to be in suspension 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.

Test result: After test, there was no deposit of talcum powder inside enclosures of sample, and the sample comply with clause 10.2.2 electric strength test (test voltage 2880V).

3.2 Pressure watertight luminaires (IPX8 (1m)) are heated either by Switching on the lamp or by other suitable means, so that the temperature of the luminaire enclosure exceeds that of the water in the test tank by between 5°C and 10°C.

The luminaire shall then be switched off and subjected to a water pressure of 1,3 times that pressure which corresponds to the rated maximum immersion depth for a period of 30 min.

Test condition: 1m x 1.3=1.3m; test time: 30min.

Test result: there was no water entry, and the sample comply with clause 10.2.2 electric strength test (test voltage 2880V).

Remark: all models have same construction, Unless otherwise specified, model MFW897D was selected as representative model to perform all tests.

4 Remark

Nil

5 Documentation

Nil

6 Summary

The test specifications are met.

**TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
TÜV SÜD Group**

Engineer:



Arthur Chen
Project Handler

Technical Report checked:



David Zhao
Designated Reviewer

Photo documentation

Details of: Over view



End of the photo documentation