



Technical Report No. 68.140.17.127.01

Dated 2017-02-15

Client: Name: Photon-L (Dongguan) Manufacturing Asia LTD
Address: No. 2, 2nd Beizong Road, Techno-industrial Park, Qishi, 523519
Dongguan, PEOPLE'S REPUBLIC OF CHINA
Contact person: Ms. Maria Shibalova

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: LED Street Light
Type: Model 28/20W; Model 28/30W; Model 28/40W; Model 28/50W;
Model 49/60W; Model 49/80W; Model 49/100W; Model 49/120W;
Model 91/140W; Model 91/160W; Model 91/180W; Model 91/200W
Trade mark: **PHOTON-L**

Test specification: Mechanical strength test (IK08) for transparent cover and enclosure of LED street light according to IEC 62262:2002 and EN 62262:2002.

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: See section 3 for details.

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1 Description of the test subject

1.1 Function

- Manufacturer's specification for intended use:
LED Street Light for indoor and outdoor use.
- Manufacturer's specification for predictive misuse:
Nil

1.2 Consideration of the foreseeable misuse

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

1.3 Technical Data

Nil.

2 Order

2.1 Date of Purchase Order, Customer's Reference

2016-12-21

2.2 Receipt of Test Sample, Location

3pcs samples were recieved on 2016-12-21; EnE Department, Shenzhen

2.3 Date of Testing

2016-12-21 to 2017-02-15

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

Nil

3 Test Results

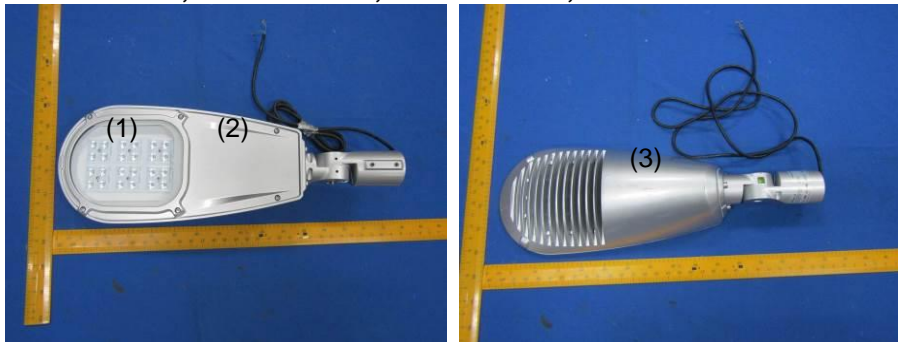
3.1 Mechanical strength test (IK08) for transparent cover and enclosure (clause 6 of IEC 62262:2002 and EN 62262:2002)

Test condition:

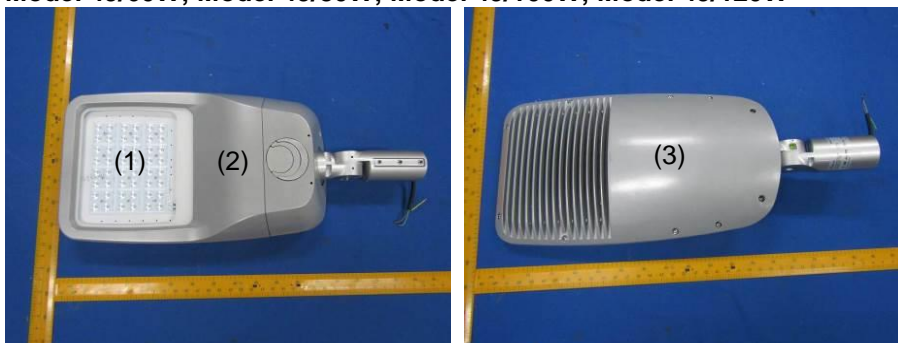
- a) Impact energy: 5J.
- b) Number of Impacts: 5 times.
- c) Type of test apparatus: the vertical hammer.
- d) Method of mounting: on a rigid plane support.

Test location: (1), (2), (3) indicated in the following pictures.

Model 28/20W; Model 28/30W; Model 28/40W; Model 28/50W



Model 49/60W; Model 49/80W; Model 49/100W; Model 49/120W



Model 91/140W; Model 91/160W; Model 91/180W; Model 91/200W



Test Result: Pass. After test, there was no damage and broken for transparent cover and enclosure.



- 4 **Remark**
 - 4.1 Annex 1: photo document.
- 5 **Documentation**

Nil
- 6 **Summary**

The test specifications are met.

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

Engineer: 

Sadie Jiang
Project Handler

Technical Report checked: 

David Zhao
Designated Reviewer

Annex 1: Photo document

Details of: Outlook for Model 28/20W, Model 28/30W, Model 28/40W and Model 28/50W
(representative model: Model 28/50W)



Details of: Back view for Model 28/20W, Model 28/30W, Model 28/40W and Model 28/50W
(representative model: Model 28/50W)



Details of: Outlook for Model 49/60W, Model 49/80W, Model 49/100W and Model 49/120W
(representative model: Model 49/120W)



Details of: Back view for Model 49/60W, Model 49/80W, Model 49/100W and Model 49/120W
(representative model: Model 49/120W)



Details of: Outlook for Model 91/140W, Model 91/160W, Model 91/180W and Model 91/200W
(representative model: Model 91/200W)



Details of: Back view for Model 91/140W, Model 91/160W, Model 91/180W
and Model 91/200W (representative model: Model 91/200W)

