TEST REPORT

Kunde: *Client:*	Shenzhen Glitter Optoelectronic Technology Co.,Ltd
Adresse: *Address:*	Room502, No.1, Yangchong 3rd Road, Yangchong Industrial Area, Tangxiayong Community, Yanluo Town, Bao'an District, 518000 Shenzhen, China
Hersteller: *Manufacturer:*	Shenzhen Glitter Optoelectronic Technology Co.,Ltd
Adresse: *Address:*	Room502, No.1, Yangchong 3rd Road, Yangchong Industrial Area, Tangxiayong Community, Yanluo Town, Bao'an District, 518000 Shenzhen, China
Name der Marke: *Brand Name:*	Glitter
Beschreibungdes Produkts: *Product Description:*	LED Street Light
Modelle: *Models:*	See model list on page 2
Bewertung: *Rating:*	N/A
Verfahren: *Method:*	Clause 9 of IEC 60598-1:2020
Prüfergebnis*: *Test result*:*	Pass

Digitally signed by Ciobanu Mircea
Date: 2022.04.26 02:38:41 EEST
Reason: MoldSign Signature
Location: Moldova

Datum der Prüfung: *Date of Test:*	**Datum der Emission:** *Date of Issue:*	**Klassifizierung:** *Classification:*	**Gegenstand der Prüfung:** *Test item:*
2021-09-16~2021-09-17	2021-09-17	Commission Test	IP66 Test

Prüflabor (Testlabor) / Testing Laboratory:
Shenzhen Southern LCS Compliance Testing Laboratory Ltd.

Test von/Test by:	**Check von**/Check by:	**Genehmigt von**/Approved by:
Anther Ruan	Torres He	Jesse Liu
Anther Ruan/ Project Engineer	Torres He/ Director	Jesse Liu/ Manager

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.

Remark: The duplication of this report or parts of it and its use for advertising purposes is only allowed with permission of the testing laboratory.This report contains the result of examination of the product sample submitted by the appliance. A general statement concerning the quality of the products from the series manufacturer cannot be derived therefore.

General product information:

Unless otherwise specified, the model RL-S7-320W and RL-S8-200W was chosen as representative model to perform all test.

Ratings: AC 100-240V, 50/60Hz, Class I, IP66, ta45°C

Model No.	Power (W)	LED driver model No.	Dimension (LxWxH mm)/ Weight (kg)
RL-S7-25W	25	SS-30VA-56B	568x200x109; 4
RL-S7-30W	30	SS-30VA-56B	
RL-S7-40W	40	SS-50VA-56B	
RL-S7-50W	50	SS-50VA-56B	
RL-S7-60W	60	SS-75VA-56B	
RL-S7-75W	75	SS-75VA-56B	
RL-S7-80W	80	SS-75VA-56B	613x240x109; 4.92
RL-S7-90W	90	SS-100VA-56B	
RL-S7-100W	100	SS-100VA-56B	
RL-S7-120W	120	SS-150VA-56B	
RL-S7-150W	150	SS-150VA-56B	683x260x109; 5.86
RL-S7-180W	180	SS-200VA-56B	
RL-S7-200W	200	SS-200VA-56B	693x300x109; 6.47
RL-S7-240W	240	SS-240VA-56B	
RL-S7-300W	300	SS-320VP-56BH	793x300x109; 7.7
RL-S7-320W	320	SS-320VP-56BH	
RL-S8-25W	25	SS-30VA-56B	463x173x87; 2.54
RL-S8-30W	30	SS-30VA-56B	
RL-S8-40W	40	SS-50VA-56B	
RL-S8-50W	50	SS-50VA-56B	
RL-S8-60W	60	SS-75VA-56B	570x200x88; 3.3
RL-S8-75W	75	SS-75VA-56B	
RL-S8-80W	80	SS-75VA-56B	611x240x89; 4.2
RL-S8-90W	90	SS-100VA-56B	
RL-S8-100W	100	SS-100VA-56B	
RL-S8-120W	120	SS-150VA-56B	
RL-S8-150W	150	SS-150VA-56B	680x260x89; 5.0
RL-S8-180W	180	SS-200VA-56B	
RL-S8-200W	200	SS-200VA-56B	

Equipment used during test:

ID Number	Instrument	Model/ Type	Calibration Date
SLCS-S-031	Sand and dust test box	SG-500	2021/5/13
SLCS-S-034	IPX5, IPX6 waterproof equipment	JL-1/2	2021/5/13
SLCS-S-135	Digital hygrometer thermometer	HTC-1	2021/5/17

Test Item:

Dust test for first characteristic numerals 6

Atmospheric conditions for water or dust tests:

Air pressure: 86 kPa to 106 kPa

Temperature range: 15℃ to 35℃

Relative humidity: 25 %RH to 75 %RH

Test samples:

Clean and new sample were be tested

Test Method:

The test is made using a dust chamber incorporating the basic principles shown in figure 2 whereby the powder circulation pump may be replaced by other means suitable to maintain the talcum powder in suspension in a closed test chamber. The talcum powder used shall be able to pass through a square-meshed sieve the nominal wire diameter of which is 50 um and the nominal width of a gap between wires 75 um. The amount of talcum powder to be used is 2 kg per cubic metre of the test chamber volume. It shall not have been used for more than 20 tests.

Category 1 enclosures:

The enclosure under test is supported inside the test chamber and the pressure inside the enclosure is maintained below the surrounding atmospheric pressure by a vacuum pump.

The suction connection shall be made to a hole specially provided for this test. If not otherwise specified in the relevant product standard, this hole shall be in the vicinity of the vulnerable parts If it is impracticable to make a special hole, the suction connection shall be made to the cable inlet hole. If there are other holes (for example, more cable inlet holes or drain-holes) these shall be treated as intended for normal use on site.

The object of the test is to draw into the enclosure, by means of depression, a volume of air 80 times the volume of the sample enclosure tested without exceeding the extraction rate of 60 volumes per hour. In no event shall the depression exceed 2 kPa (20 mbar) on the manometer shown in figure 2.

If an extraction rate of 40 to 60 volumes per hour is obtained the duration of the test is 2 h.

If, with a maximum depression of 2 kPa (20 mbar), the extraction rate is less than 40 volumes per hour, the test is continued until 80 volumes have been drawn through, or a period of 8 h has elapsed.

Category 2 enclosures

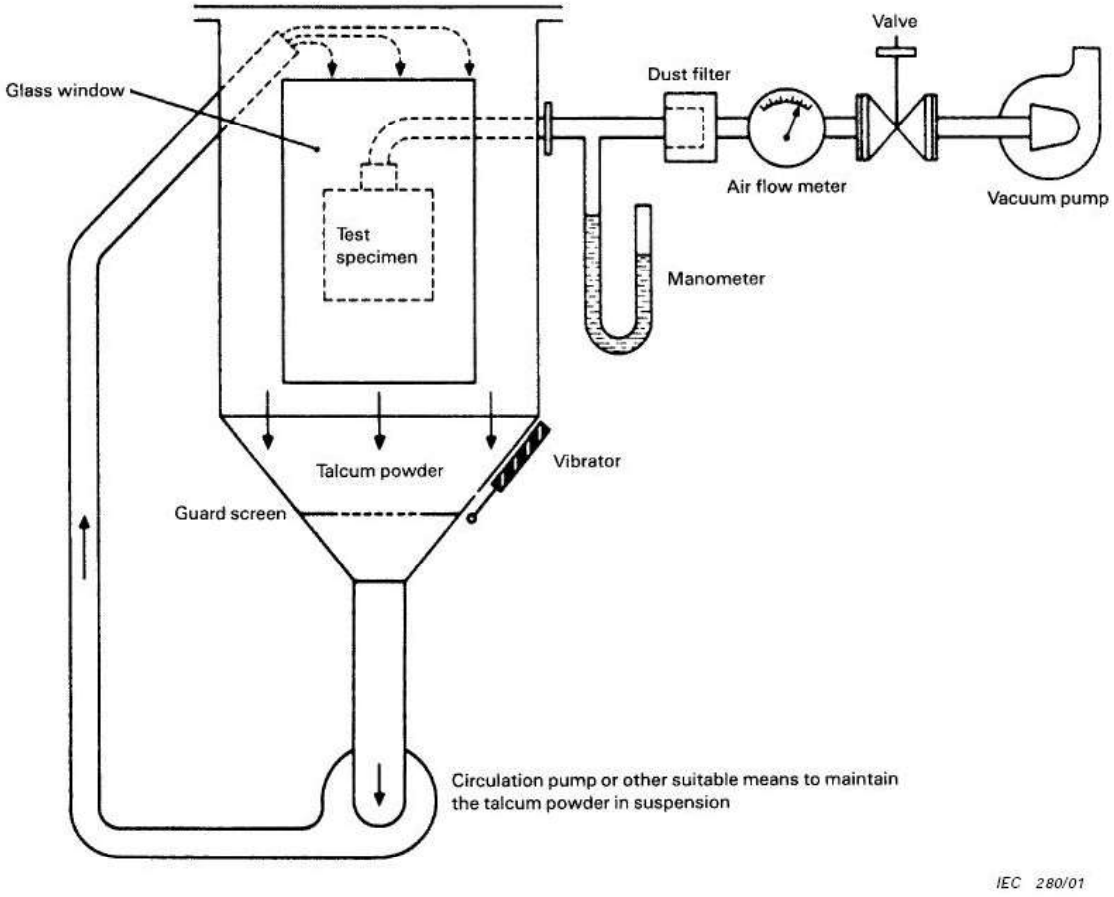
The enclosure under test is supported in its normal operating position inside the test chamber, but is not connected to a vacuum pump. Any drain-hole normally open shall be left open for the duration of the test. The test shall be continued for a period of 8 h.

Acceptance Conditions:

The protection is satisfactory if no deposit of dust is observable inside the enclosure at the end of the test.

Test Result:

☒ **Pass** ☐ **Fail**



NOTE See IEC 60068-2-68, figure 2 valid for La2 only.

Figure 2 – Test device to verify protection against dust (dust chamber)

Test Item:

Test for second characteristic numeral 6 with the 12,5 mm nozzle

Atmospheric conditions for water or dust tests:

Air pressure: 86 kPa to 106 kPa

Temperature range: 20℃ to 30℃

Relative humidity: 25 %RH to 75 %RH

Test samples:

Clean and new sample were be tested

Test Method:

The test is made by spraying the enclosure from all practicable directions with a stream of water from a standard test nozzle as shown in figure 6.

The conditions to be observed are as follows:

– internal diameter of the nozzle: 12,5 mm;

– delivery rate: 100 l/min ± 5 %;

– water pressure: to be adjusted to achieve the specified delivery rate;

– core of the substantial stream: circle of approximately 120 mm diameter at 2,5 m distance from nozzle;

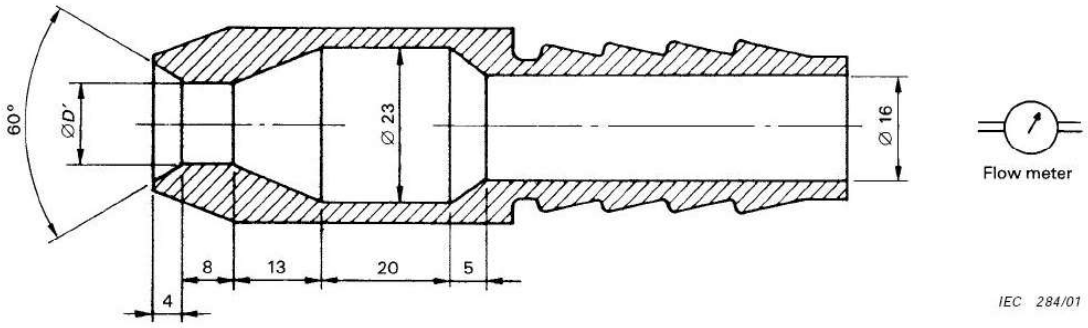
– test duration per square metre of enclosure surface area likely to be sprayed: 1 min;

– minimum test duration: 3 min;

– distance from nozzle to enclosure surface: between 2,5 m and 3 m.

Test Result:

☒ **Pass** ☐ **Fail**



Dimensions in millimetres

D′ = 6,3 for the test of 14.2.5 (second characteristic numeral 5)

D′ = 12,5 for the test of 14.2.6 (second characteristic numeral 6)

Figure 6 – Test device to verify protection against water jets (hose nozzle)

Photo Documentation:

Photo 1: Overall view of model RL-S7-320W

Photo 2: Overall view of model RL-S7-320W

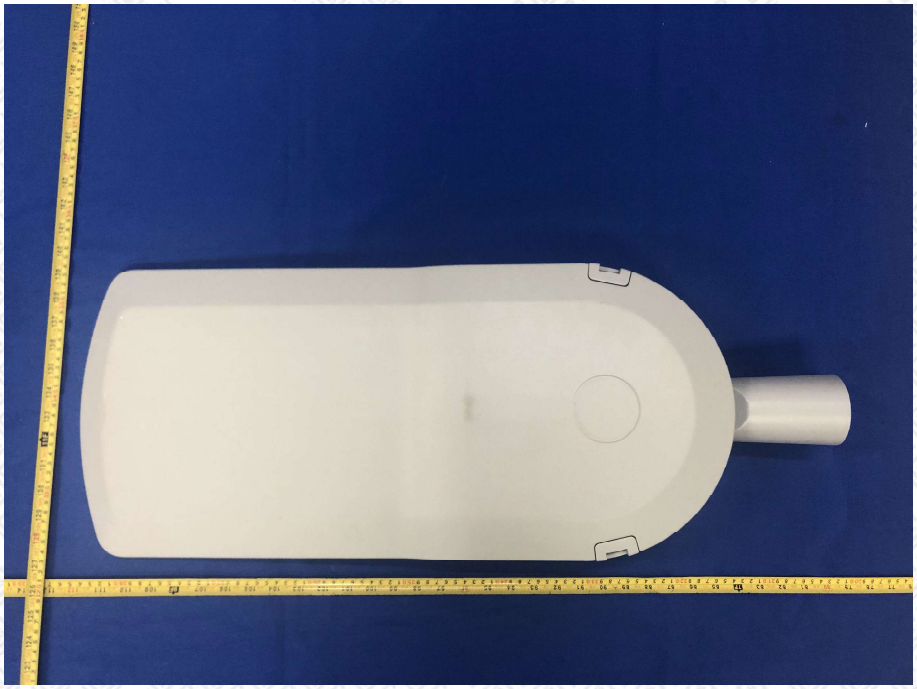


Photo Documentation:

Photo 3: IP6X test of model RL-S7-320W

Photo 4: IPX6 test of model RL-S7-320W

Photo Documentation:

Photo 5: Test result of IP6X and IPX6 test for model RL-S7-320W

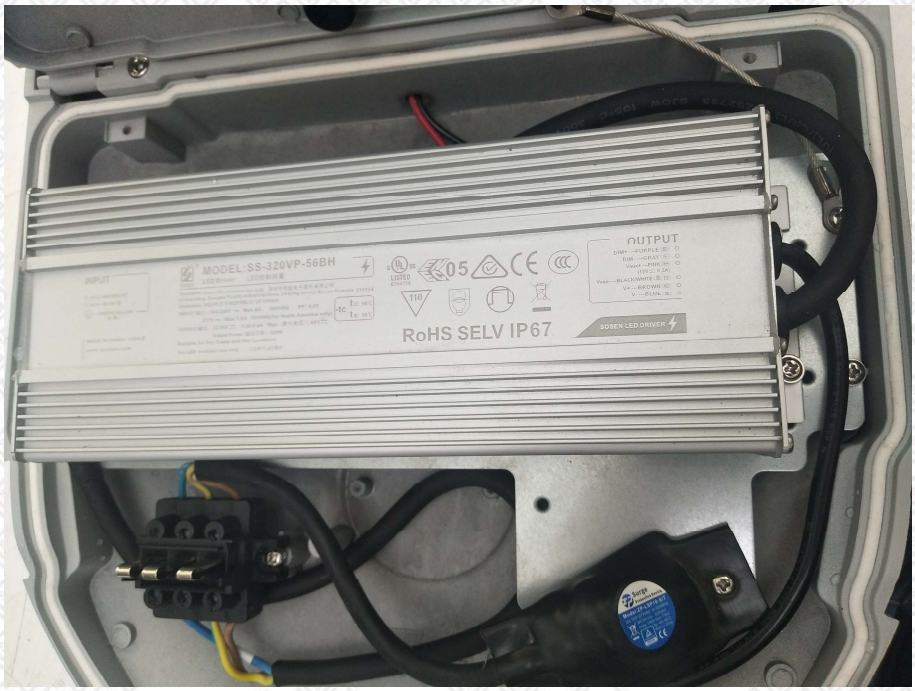


Photo Documentation:

Photo 1: Overall view of model RL-S8-200W

Photo 2: Overall view of model RL-S8-200W

Photo Documentation:

Photo 6: IP6X test of model RL-S8-200W

Photo 7 IPX6 test of model RL-S8-200W

Photo Documentation:

Photo 5: Test result of IP6X and IPX6 test for model RL-S8-200W

----- End of Test Report-----