

Our Ref. 6053022-02.50QS
Tel. +86 21 6056 7666
Fax. +86 21 6056 7555
E-mail info@dekra.com.cn

Test Report

Subject: Corrosion test for LED Street light

Product: LED Street light

Applicant: EVERLITE LED LIGHTING CO., LIMITED

Applicant address: Room 2015, Trend Centre, 29-31, Cheung Lee Street Chaiwan,
HONG KONG

Supplier name: NINGBO SKYZON ENERGY CO., LTD.

Supplier address: NO. 19 KESAN ROAD, NINGHAI, 315600, NINGBO, PEOPLE'S
REPUBLIC OF CHINA

Model Number: EL-SL68(L)-200W; EL-SL18MA-20W;EL-SL18MA-30W;EL-SL18MA-
40W, EL-SL18MA-50W;EL-SL18MA-60W, EL-SL18MA-70W;
EL-SL18MA-80W, EL-SL18MA-90W;EL-SL18LA-90W, EL-SL18LA-
100W;EL-SL18LA-120W, EL-SL18LA-150W;EL-SL18LA-160W

Requirement: Test according to the following standard:
ISO 9227 :2017 Corrosion tests in artificial atmospheres – Salt
spray tests(Only test for Model EL-SL68(L)-200W)

Sample Receiving Date: Dec 14,2018

Testing Period: Dec 14,2018 to Jan 04,2019

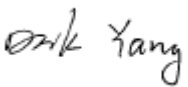
Conclusion: Pass

Signed for and on behalf of
DEKRA Testing and Certification (Shanghai) LTD.

Project Engineer:
Date:


Apr.28th2019

Approver:
Date:


Apr.28th2019

Attention: Please note that every statement made in this report is only valid for the samples tested and reported herein. This report shall not be reproduced except in full, without the written approval of the testing laboratory. If you have any comment on the test results, please contact us in writing in 15 days after the issuing of report.

Test Results

1. With reference to ISO 9227:2017 Corrosion tests in artificial atmospheres - Salt spray tests, the submitted sample was subjected to the following test

Number of sample tested: One piece

Testing condition:

1. Sodium chloride (NaCl) solution concentration = 50 g/L \pm 5 g/L
2. pH = 6.5 - 7.2
3. Chamber temperature = 33 - 37°C
4. Exposure period = 2500 hours

Initial inspection: No any damage was found

Client's Requirement: ISO 4628-2:2016 Rating = 0

ISO 4628-4:2016 Rating (Quantity of cracks) = 0

Rating (Size of cracks) = 0

Test Result: No blistering was found on the sample after 2500 hours.

No crack was found on the sample after 2500 hours.

Remark:

Test Model EL-SL68 (L)-200W and other models are the same surface coating from customer's declaration.

Blistering evaluation:

With reference to ISO 4628/2-2016: paints and varnishes-Evaluation of degradation of paint coatings-

Designation of quantity and size of defects, and of intensity of uniform changes in appearance – Part 2:

Assessment of degree of blistering. The tested submitted samples were evaluated as following:

Tested Specimens	Rating(ISO)
LED Street light	0

Remark:

The rating characterizing blisters in a coating in terms of quantity and size were listed as below:

Quantity(Density)		Size	
ASTM	ISO	ASTM	ISO
None	0	-	-
-	1	-	1
Few	2	8	2
Medium	3	6	3
Medium-dense	4	4	4
Dense	5	2	5

Cracking evaluation:

With reference to ISO 4628/4-2016: paints and varnishes-Evaluation of degradation of paint coatings- Designation of quantity and size of defects, and of intensity of uniform changes in appearance – Part 4: Assessment of degree of Cracking. The tested submitted samples were evaluated as following:

Tested Specimens	Rating	
	Quantity of cracks	Size of cracks
LED Street light	0	0

The rating scheme for designating the quantity of cracks was listed as below:

Rating	Quantity of cracks
0	None, i.e. no detectable cracks
1	Very few, i.e. small, barely significant number of cracks
2	Few, i.e. small but significant number of cracks
3	Moderate number of cracks
4	Considerable number of cracks
5	Dense pattern of cracks

The rating scheme for designating the size of cracks was listed as below:

Rating	Size of cracks
0	Not visible under x 10 magnification
1	Only visible under magnification up to x 10
2	Just visible with normal corrected vision (up to 0.2mm)
3	Clearly visible with normal corrected vision (larger than 0.2mm up to 0.5mm)
4	Large cracks, larger than 0.5mm up to 1mm wide
5	Very large cracks generally more than 1mm wide

***** To be continue *****

Sample Photos



Photo No.1: Sample as received & Test sample
(EL-SL68(L)-200W)



Photo No.2: Sample as received & Test sample
(EL-SL68(L)-200W)



Photo No.3: After test

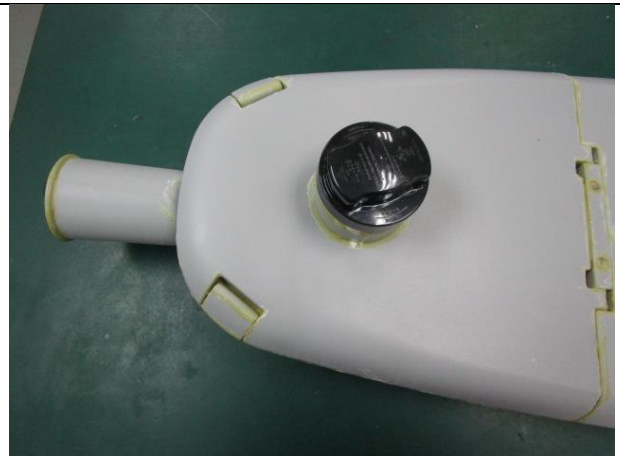


Photo No.4: After test



Photo No.5: After test



Photo No.6: After test

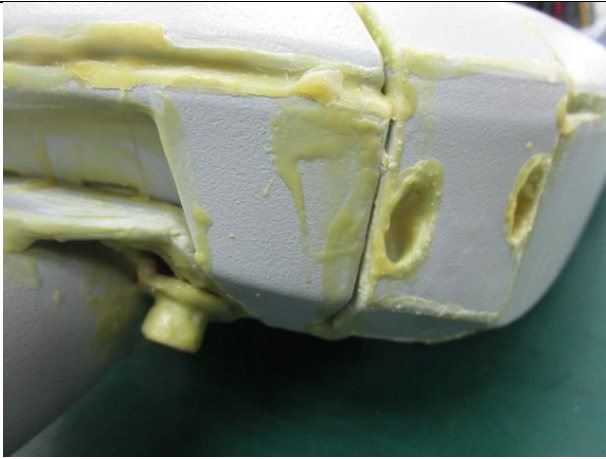


Photo No.7: After test

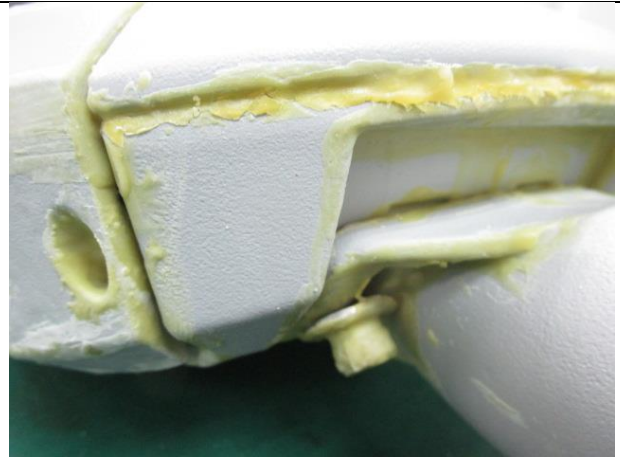


Photo No.8: After test

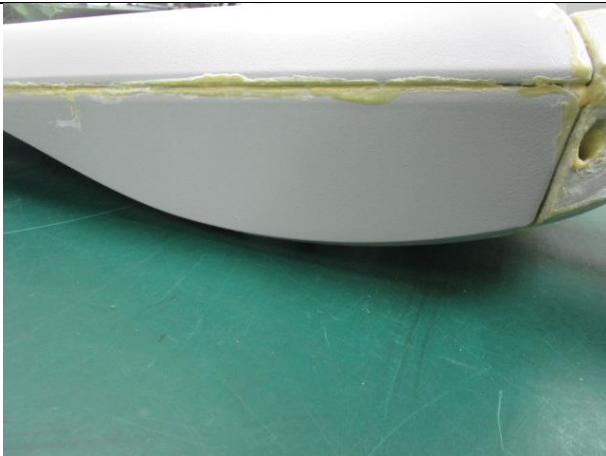


Photo No.9: After test

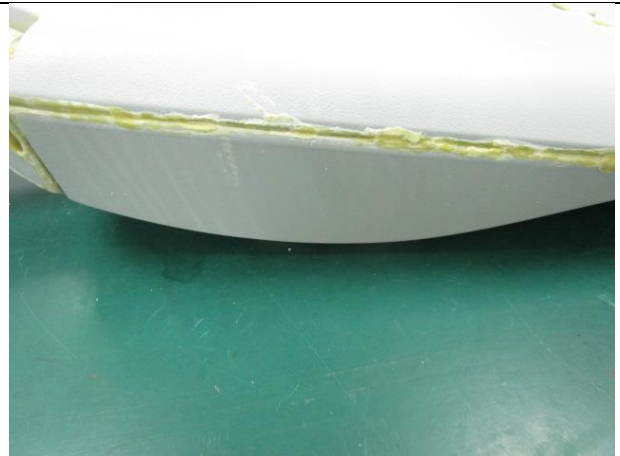


Photo No.10: After test



Photo No.11: After test

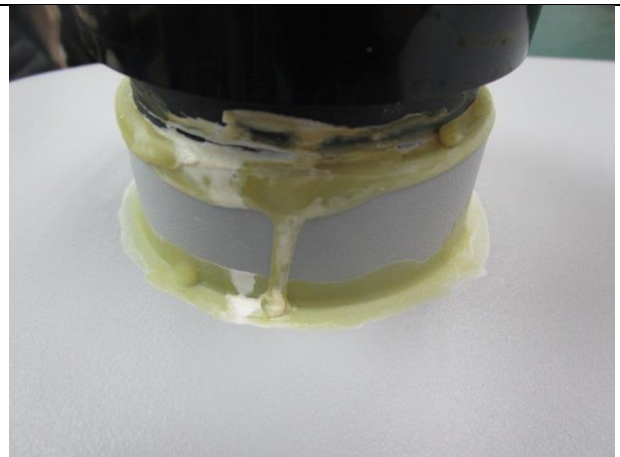


Photo No.12: After test

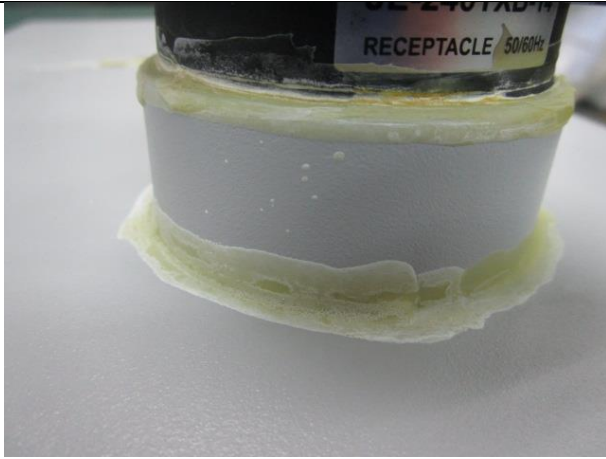


Photo No.13: After test

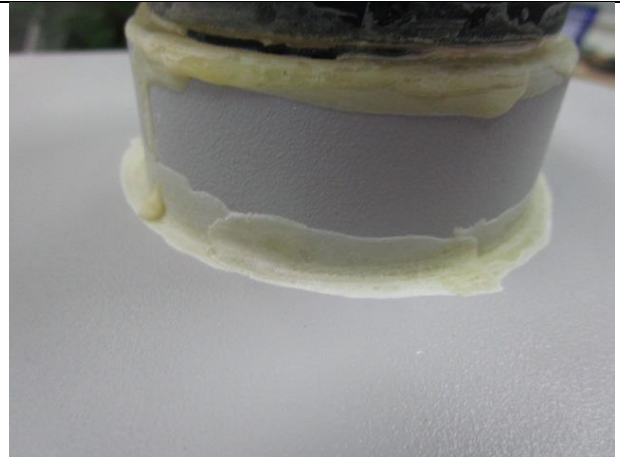


Photo No.14: After test



Photo No.15: After test

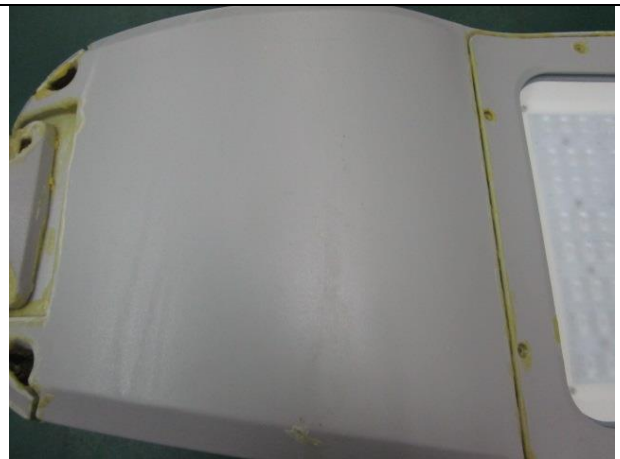


Photo No.16: After test

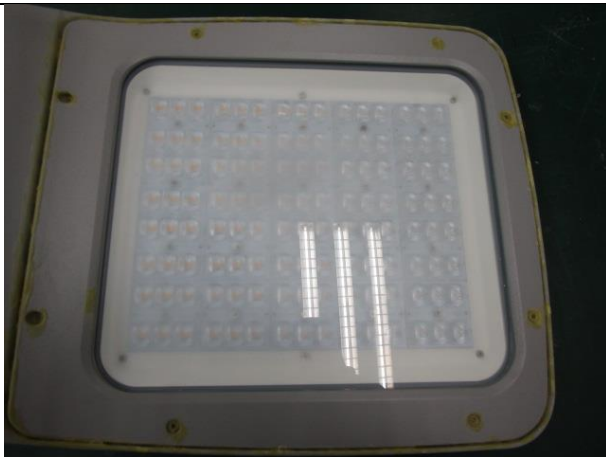


Photo No.17: After test



Photo No.18: After test

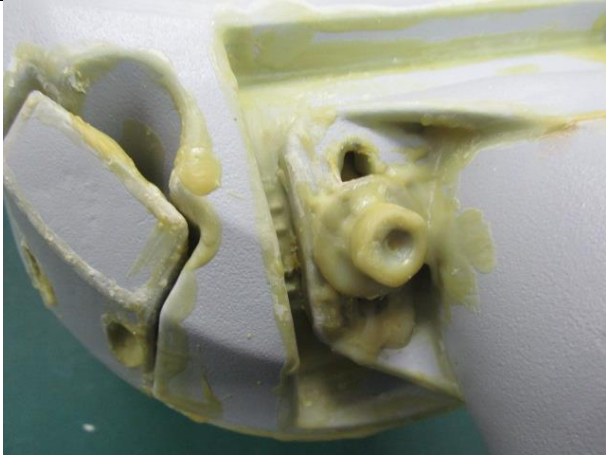


Photo No.19: After test



Photo No.20: After test



Photo No.21: After test



Photo No.22: After test

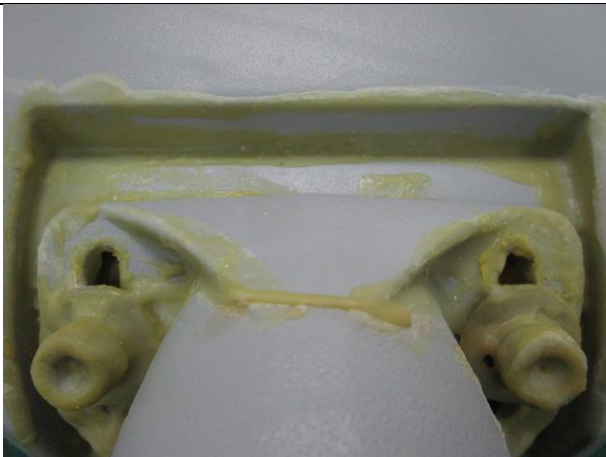


Photo No.23: After test



Photo No.24: Display photo(EL-SL18LA-160W)



Photo No.25: Display photo(EL-SL18LA-160W)



Photo No.26: Display photo (EL-SL18MA-90W)



Photo No.27: Display photo (EL-SL18MA-90W)

*******End of Report*******