

Technical Report No.: 64140260449301

Date: 2026-08-03

Client: Name: Guangdong Yuchen Optoelectronic Technology Co. Ltd
Address: Building 1, No.71, Taian Liyuan Rd, Zhangmutou Town
523000 Dongguan City, Guangdong, People's Republic
of China
Contact person: Kevin
Manufacturer: Name: Same as client
Address: Same as client
Contact person: Same as client
Factory: Name: Same as client
Address: Same as client
Contact person: Same as client
Test object: Product: LED PU Neon Stip Light
Model: SF-*XXYYYZ
Trade mark: **EASTFINE**
Test specification: Artificial Sea Water Corrosion Test of Clause 18.6.1 & 18.6.2 of IEC
60598-2-18:2022

Purpose of examination:

- As specified by client, to determine Artificial Sea Water Corrosion Test for the submitted sample.

Test result: This report is only for test result, see item 3 of this report for details.

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1. Description of the test object

1.1 Picture(s)

See Appendix 1

1.2 Function

Manufacturer's specification for intended use:

According to user manual

1.3 Consideration of the foreseeable use

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

*

1.4 Technical Data

Model list

Model No.	LED Model	Colour	LEDs/M	Voltage (V)
SF-*XXYYYZ	*	XX	YYY	Z
Note: *= 2110, 2216, 2835, 3014, 3030, 3528, 3535, 5050, 5630, COB LED Model XX=TW, RG, RW, WR, RE, GR, BL, YE, UV, PI, OR, MC, 00-99 (TW means Double color, RG means RGB, RW means RGBW, WR means WRGBW, RE means Red, GR means Green, BL means Blue, YE means Yellow, UV means Purple, PI means Pink, OR means Orange, MC means Mixed color, other 00-99 means The white light color temperature 0-9900K, For example 20 means 2000K, 35 means 3500K and so on.) YYY=LED Quantity (For example 060 means 60 LEDs/m, 120 means 120 LEDs/m, and so on) Z=A, B, C, D or E ; (A means input voltage is 5VDC, B means input voltage is 12VDC, C means input voltage is 24VDC, D means input voltage is 36VDC, E means input voltage is 48VDC)				

2. Order

2.1 Date of Purchase Order, Customer's Reference

2026-07-10

2.2 Test Sample(s)

- Reception date(s): 2026-07-13

Report No.: 64140260449301

Rev.: 00

Date: 2026-08-03

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TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
5F&8F East, Communication Building, No.163 Pingyun Road, Huangpu
Ave. West, Guangzhou, Guangdong 510656

Tel: +86 020 38320668

- Location(s) of reception: TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
- Condition of test sample(s): Complete

2.3 Testing

- Testing date(s): 2026-07-13 to 2026-08-03
- Location(s) of testing: TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch

2.4 Points of Non-Compliance or Exceptions of the Test Procedure

- None

3. Test Results

3.1 Positive Test Results

All the models used the same shell. Below tests were carried out on model SF-C30140C.

Test method: Clause 18.6.1 & 18.6.2 of IEC 60598-2-18:2022

Test Conditions:

Concentration of solution collected:

Solution A:

28.0 g NaCl

5.0 g $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$

2.4 g $\text{CaCl}_2 \cdot \text{H}_2\text{O}$

Solution B:

7.0 g $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$

0.2 g NaHCO_3

Solution B is added to solution A slowly and well mixed. The mixture is allowed to stand for 24h and is then filtered. Finally the pH value of the mixture is adjusted to between 7 and 8 by adding additional sodium bicarbonate (NaHCO_3). It is convenient to pass air bubbles through the mixture during the stabilization of the pH value.

Chamber temperature: $(25 \pm 2)^\circ\text{C}$

pH of collected solution at $(25 \pm 2)^\circ\text{C}$: 7~8

Exposure period: 336h

18.7.2 (-)	Impact test with the energy 0,7 Nm of parts in contact with water	P
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18.7.3 (-)	Corrosion test of parts in contact with water	Immersed in artificial sea water at a temperature of (25±2) °C for a period of 14 days	P
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4. Test History

None.

5. Remarks

None.

6. Documentation

File	File name	Date
Photo documentation:	See Appendix 1	2026-08-03

7. Summary

This report is only for test result, without verdict.



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

Tested by: Elvis Xie, Project Handler

printed name, function & signature

Approved by: Kenny Chen, Designated Reviewer

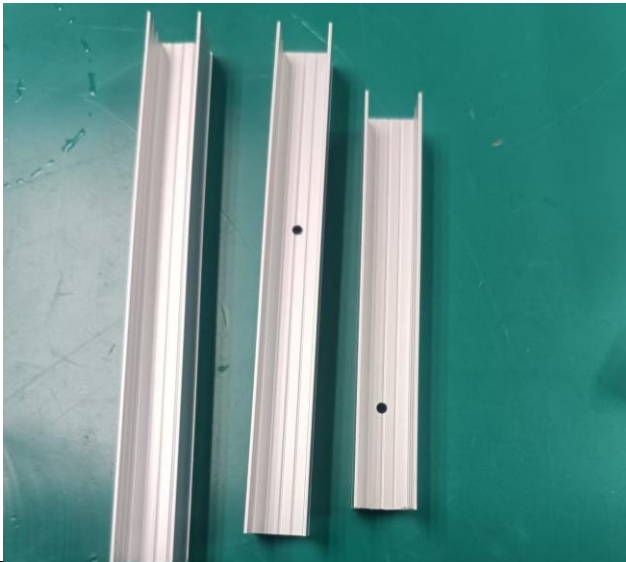
printed name, function & signature



Appendix 1: Photos

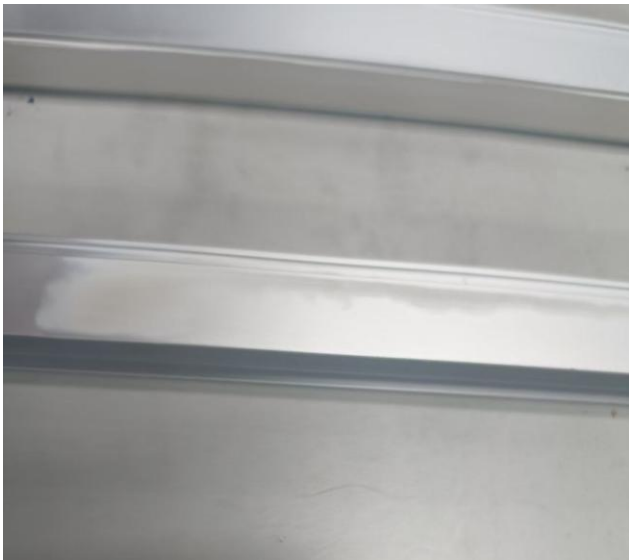
Details of:	General view for model SF-C30140C before test	
View:		
☐ General ☐ Front ☐ Rear ☐ Right ☐ Left ☐ Top ☐ Bottom		

Details of:	General view for model SF-C30140C before test	
View:		
☐ General ☐ Front ☐ Rear ☐ Right ☐ Left ☐ Top ☐ Bottom		

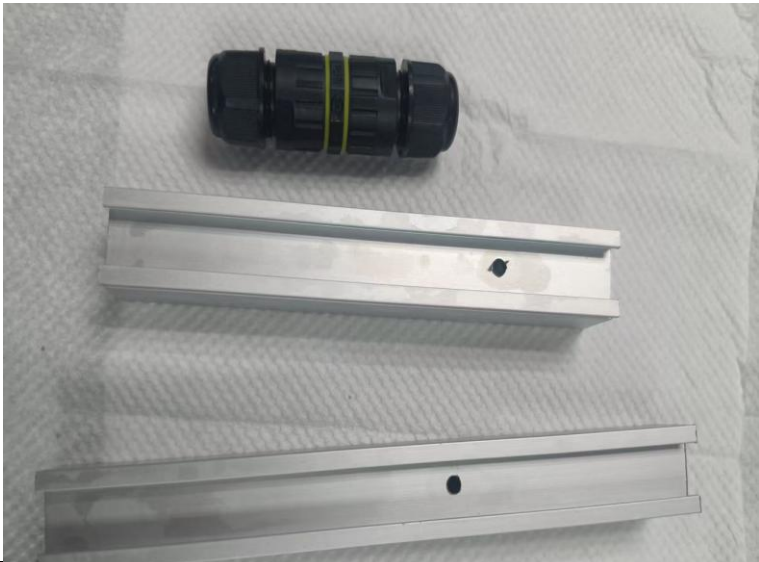
Details of:	General view for model SF-C30140C before test	
View: ☐ General ☐ Front ☐ Rear ☐ Right ☐ Left ☐ Top ☐ Bottom		

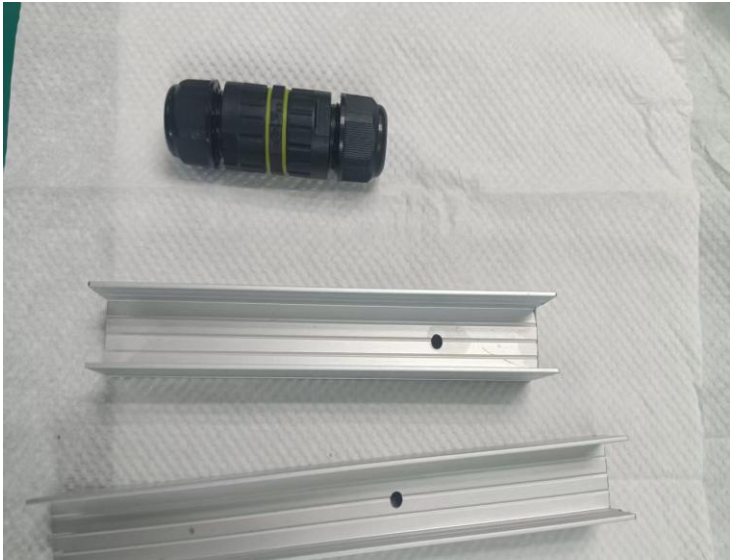
Details of:	Scratch view for model SF-C30140C before test	
View: ☐ General ☐ Front ☐ Rear ☐ Right ☐ Left ☐ Top ☐ Bottom		

Details of:	General view for model SF-C30140C after test	
View: ☐ General ☐ Front ☐ Rear ☐ Right ☐ Left ☐ Top ☐ Bottom		

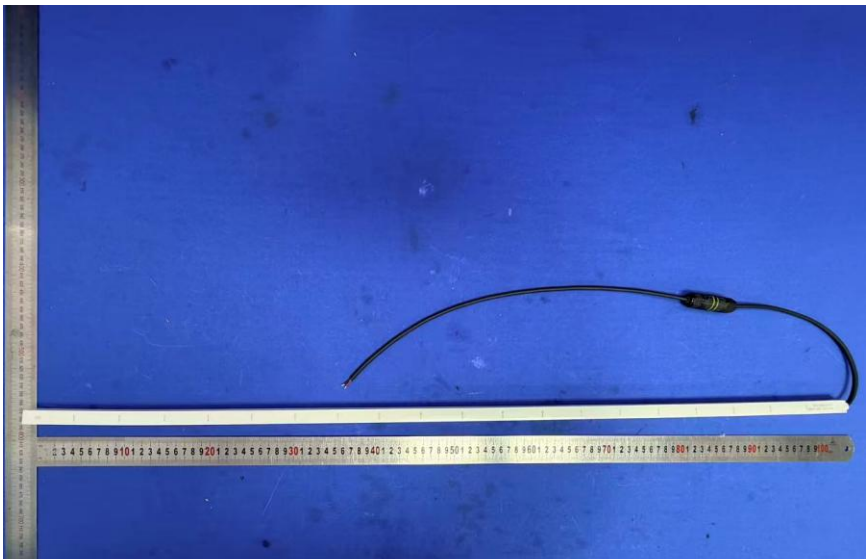
Details of:	General view for model SF-C30140C after test	
View: ☐ General ☐ Front ☐ Rear ☐ Right ☐ Left ☐ Top ☐ Bottom		



Details of:	General view for model SF-C30140C after test	
View: ☐ General ☐ Front ☐ Rear ☐ Right ☐ Left ☐ Top ☐ Bottom		

Details of:	General view for model SF-C30140C after test	
View: ☐ General ☐ Front ☐ Rear ☐ Right ☐ Left ☐ Top ☐ Bottom		

ID: 2270 Doc No.: ITC-TTW0902.02E - Rev. 17

Details of:	General view for model SF-C30140C
View: ☐ General ☐ Front ☐ Rear ☐ Right ☐ Left ☐ Top ☐ Bottom	

Details of:	Detail view for model SF-C30140C
View: ☐ General ☐ Front ☐ Rear ☐ Right ☐ Left ☐ Top ☐ Bottom	



Details of:	Testing environment
View: ☐ General ☐ Front ☐ Rear ☐ Right ☐ Left ☐ Top ☐ Bottom	

--- End of Report ---