

Technical Report No.: 64.140.24.05496.01 Rev.00

Date: 2024-10-18

Client: Name: Guangdong Yuchen Optoelectronic Technology Co., Ltd
Address: Building 1, No.71, Taian Liyuan Rd, Zhangmutou Town, Dongguan City, Guangdong Province, P.R.China.
Contact person: Mr. Kevin

Manufacturer: Name: Same as client
Address: Same as client
Contact person: Same as client

Factory: Factory Name: Same as client
Factory Address: Same as client
Contact person: Same as client

Test object: Product: LED Strip Light
Model: SF-*XXYYYYZ, NF-*XXYYYYZ, XF-*XXYYYYZ
Trade mark: 

Test specification: IP68 test of Clause 9.2.2 & 9.2.9 of EN IEC 60598-1:2021+A11:2022

Purpose of examination:

- Testing and evaluation according to the test specification

Test result: The test results show that the presented product is in compliance with the above listed test specifications.

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1. Description of the test object

1.1 Picture(s)

See appendix 1 from page 6 to 7

1.2 Function

LED strip light.

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	:	SF-*XXYYYYZ, NF-*XXYYYYZ, XF-*XXYYYYZ
Degree of protection	:	IP68
Remark	:	SF, NF or XF, means the structure of LED strip. * means LED model, it can be A, B, C, D, E, F, G, H, I, Z (A means 2110, B means 2216, C means 2835, D means 3014, E means 3030, F means 3528, G means 3535, H means 5050, I means 5630, Z means COB). XX=TW, RG, RW, WR, RE, GR, BL, YE, UV, PI, OR, MC or 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, 00-99 means the yellow or white light color temperature 0-9900K,

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5F&8F East, Communication Building, No.163 Pingyun Road, Huangpu Ave. West, Guangzhou, Guangdong 510656

Tel: +86 020 38320668

For example 20 means 2000K, 35 means 3500K and so on).
YYY=LED Quantity (For example 060 means 60LEDs/m, 120 means 120LEDs/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

2024-09-24

2.2 Test Sample(s)

- Reception date(s): 2024-10-08
- 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): 2024-10-09 to 2024-10-17
- 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

☒ Decision rule according to ILAC-G8:09/2019 clause 4.2.1 Binary statement for simple acceptance rule or IEC Guide 115:2023, clause 4.3.3 Simple acceptance was applied.

3.1 Positive Test Results

Below tests were carried out on models SF-B30120C, NF-C30144C and XF-CRE040C.

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EN IEC 60598-1:2021+A11:2022

1.14 (9)	RESISTANCE TO DUST AND MOISTURE		P
1.14 (9.2)	Tests for ingress of dust, solid objects and moisture:		P
	- classification according to IP	IP68	—
	- mounting position during test	As normal use	—
	- fixing screws tightened; torque (Nm)	--	—
	- tests according to clauses	9.2.2 & 9.2.9	—
	- electric strength test afterwards		P
	a) no deposit in dust-proof luminaire		N/A
	b) no talcum in dust-tight luminaire		P
	c) no trace of water on current-carrying parts or on insulation where it could become a hazard		P
	c.1) For luminaires without drain holes – no water entry		P
	c.2) For luminaires with drain holes – no hazardous water entry		N/A
	d) no water in watertight or pressure watertight luminaire or high pressure and temperature water jet-proof luminaire or high pressure and cold water jet-proof luminaire		P
	e) no contact with live parts (IP 2X)		N/A
	e) no entry into enclosure (IP 3X and IP 4X)		N/A
	e) no contact with live parts through drain holes and ventilation slots (IP3X and IP4X)		N/A
	f) no trace of water on part of lamp requiring protection from splashing water		N/A
	g) no damage of protective shield or glass envelope		N/A

4. Test History

None.

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5. Remarks

- 5.1** When the product is placed on the market, it must be accompanied with safety Instructions written in official language of the country. The instructions shall give information regarding safe operation, installation and maintenance.
- 5.2** When measurement results are close to limit value of specified requirement, manufacturer shall take actions during the production process to keep the limit, especially if the result of a measurement is in a bandwidth within $\pm 10\%$ to the limit value.

6. Documentation

File	File name	Date
None.		

7. Summary

The test specifications are met

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

Tested by:	Kenny Chen, Project Handler	
	<i>printed name, function & signature</i>	
Approved by:	Jet Li, Designated Reviewer	
	<i>printed name, function & signature</i>	



Appendix 1: Photos

Details of:	SF-B30120C
View: ☐ General ☐ Front ☐ Rear ☐ Right ☐ Left ☐ Top ☐ Bottom	
Details of:	NF-C30144C
View: ☐ General ☐ Front ☐ Rear ☐ Right ☐ Left ☐ Top ☐ Bottom	



Details of:	XF-CRE040C	
View: ☐ General ☐ Front ☐ Rear ☐ Right ☐ Left ☐ Top ☐ Bottom		

--- End of Report ---