Test Report

Report No.: GZEE231200489431
Amendment 02 Date: 2026-03-31

The following sample(s) was/were submitted and identified on behalf of the client as:

Applicant:	**Shenzhen Chengxing Electronic Technology Co., Ltd.** **Room 705 - 709, Nanguang Building, No.1004 Huafu Road, Futian District, Shenzhen, China**
Manufacturer:	**XINGLIGHT** **Room 705 - 709, Nanguang Building, No.1004 Huafu Road, Futian District, Shenzhen, China**
Factory:	**Same as manufacturer**
Testing location/address:	SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch 198 Kezhu Road, Science City, Economic & Technology Development Area, Guangzhou, Guangdong, China
Standard(s):	IEC 62471:2006 Photobiological safety of lamps and lamp systems
Test item description:	LED
Trade Mark/Brand:	**XINGLIGHT**
Model/Type reference:	XL-1608SURC, 0201, 0402, 0404, 0602, 0603, 0802, 0805, 0807, 1204, 1205, 1206, 1209, 1210, 1615, 3227, 4228, 2520, 2121, 3332, **0401, 3224, 1515, 3527, 2020, 15-22C, 15-22B, 70-01B, 70-01C, 26-21, 1816, 2016, 3220, 2008, 4437, 1217, 2522, 4335**
Ratings:	**DC 3 - 20 mA, 1,8 - 3,4 V**
Test result:	The test sample belongs to RG0
Remark:	Throughout this report a comma is used as the decimal separator.

Alex Tan
Reviewer
E&E Safety Laboratory

Junny Huang
Project Engineer

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Test Report

3220, 2008, 4437, 1217, 2522, 4335, it was same as model XL-1608SURC except package size.
- Updated the applicant, manufacturer, factory information and Rating on page 1.
After reviewed, no additional test was considered necessary.

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1 Measurement conditions

Seasoning of lamps shall be done as stated in the appropriate IEC lamp standard.
The seasoning time for fluorescent or High Intensity Discharge (HID) types is typically 100 h, 0 h for LED lamp.

The sample was measured in a dark room with ambient temperature 25℃±1℃ & Max. 65 % Rh.

Measure distance:
☐ For lamps intended for general lighting service (GLS), the hazard values shall be reported as either irradiance or radiance values at a distance which produces an illuminance of 500 lux, but not at a distance less than 200 mm;

☒ For all other light sources, including pulsed lamp sources, the hazard values shall be reported at a distance of 200 mm.

2 Measurement procedure

2.1 Irradiance measurements

The input aperture diameter was 7 mm Min. to 50 mm Max.
The measurement shall be made in that position of the beam giving the maximum reading. The instrument shall be calibrated to read in absolute incident radiant power per unit receiving area. Summary of the ELs see table 5.4

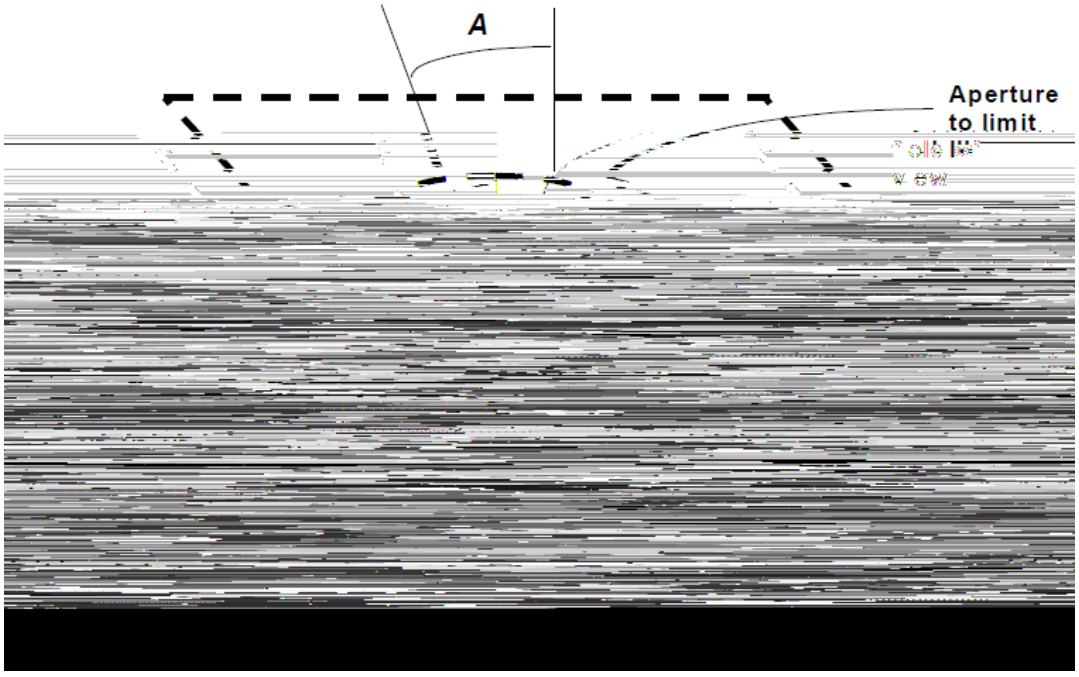

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Table 5.4a	Summary of the ELs for the surface of the skin or cornea (irradiance based values) for IEC 62471					
Hazard Name	Relevant equation	Wavelength range nm	Exposure duration sec	Limiting aperture rad (deg)	EL in terms of constant irradiance $W•m^{-2}$	Risk group exposure duration sec
Actinic UV skin & eye						

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3 Emission limit & Test result:

Table 6.1a	Emission limits for risk groups of continuous wave lamps (IEC 62471)									
Risk	Action spectrum	Symbol	Units	Emission Measurement					
				Exempt		Low risk		Mod risk	
				Limit	Result	Limit	Result	Limit	Result
Actinic UV	SUV(λ)	E_S	$W•m^{-2}$	0,001	0	0,003		0,03	
Near UV		156.55							

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Photo documentation:

Details of: View of model XL-1608SURC

View:

☒ general

☐ front

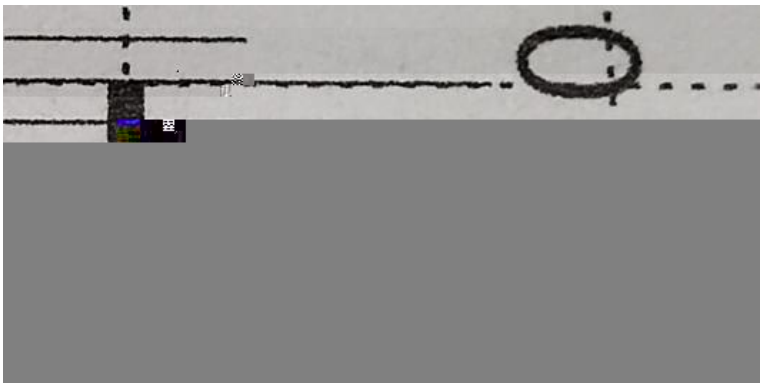
☐ rear

☐ right

☐ left

☐ top

☐ bottom



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