FCC TEST REPORT

For

Prolycht directional LED fixture

Model Number: Prolycht Orion 675 FS

FCC ID: 2AXKOORION675FS-C5

Report Number : WT228002491

Test Laboratory : Shenzhen Academy of Metrology and Quality

Inspection

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Revision History

No	Date	Remark
V1.0	2022.11.30	Initial issue

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TEST REPORT DECLARATION

Applicant : Shenzhen Chromatech Lighting CO LTD

Address : 29 Gaoxin South Ring Road, Building 1, Room 901, Shenzhen,

Guangdong, China

Manufacturer : Prolycht Lighting Co., Ltd

Address : Huangtian Road, Shengtao Qianhai Industrial Park, Building

#2, 1st floor, Baoan District, Shenzhen, Guangdong, China

EUT Description : Prolycht directional LED fixture

Model No. : Prolycht Orion 675 FS

Trade mark : PROLYCHT

Serial Number : /

FCC ID : 2AXKOORION675FS-C5

Test Standards:

FCC Part 1 Subpart I 1.1310 FCC Part 2 Subpart J 2.1091 & 2.1093

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

Project
Engineer:

(Zhou Fangai 周芳媛)

Date: Nov.30, 2022

Checked by: _____ Date: Nov.30, 2022

(Shi Changda 施昌达)

Approved by: ______ Date: Nov.30, 2022 _____

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1. TEST RESULTS SUMMARY

Table 1 Test Results Summary

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Test Items	Test Results			
RF Exposure	Pass			

Remark: "N/A" means "Not applicable."

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2. GENERAL INFORMATION

2.1. Report Information

This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.

The sample/s mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.

Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

The lab will not be liable for any loss or damage resulting for false, inaccurate, inappropriate or incomplete product information provided by the applicant/manufacturer.

2.2. Laboratory Accreditation and Relationship to Customer

The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at NETC Building, No.4 Tongfa Rd., Xili, Nanshan, Shenzhen, China. At the time of testing, Laboratory is accredited by the following organizations:

China National Accreditation Service for Conformity Assessment (CNAS) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is CNAS L0579.

The Laboratory is Accredited Testing Laboratory of FCC with Designation number CN1165 and Site registration number 582918.

The Laboratory is registered to perform emission tests with Innovation, Science and Economic Development (ISED), and the registration number is 11177A.

The Laboratory is registered to perform emission tests with VCCI, and the registration number are C-20048, G20076, R-20077, R-20078 and T-20047.

The Laboratory is Accredited Testing Laboratory of American Association for Laboratory Accreditation (A2LA) and certificate number is 3292.01.

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3. PRODUCT DESCRIPTION

3.1.EUT Description

Table 2 Specification of the Equipment under Test

Description:	Prolycht directional LED fixture		
Hardware Version:	V2.1		
Software Version:	V1.01.00		
FCC ID:	2AXKOORION675FS-C5		
Frequency:	Bluetooth Low Energy: 2.402GHz~2.480GHz		
Frequency:	2.4G wireless DMX: 2.402GHz~2.480GHz		
Type(s) of Modulation:	Bluetooth Low Energy: GFSK		
Type(s) of Modulation.	2.4G wireless DMX: GFSK		
Antenna Type:	FPC Antenna 0.99 dBi		
Operating voltage:	DC3.0V(Low)/DC3.3V(Nominal)/DC3.6V(Max)		

Remark: --

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4. RF EXPOSURE

4.1. FCC RULES

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with. Limits for General Population/Uncontrolled Exposure

4.2. FCC LIMIT

Table 3 Limits for General Population/Uncontrolled Exposure

Frequency	Electric field	Magnetic field	Power density	Averaging time
range (MHz)	strength (V/m)	strength (A/m)	(mW/cm ²)	(minutes)
0.13-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	* (180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1500			f/1500	<30
1500-100000			1.0	<30

f = frequency in MHz.

4.3. CALCULATION METHOD

 $S=PG/4 \pi R^2$

Where:

S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

4.4. CALCULATION RESULT

Table 4 Calculation result

Worst Case					
Mode	Output Power	Antenna Gain	Power Density	Power Density Limit	Result
	dBm	dBi	mW/cm ²	mW/cm ²	
2.4G wireless DMX	9.5	0.99	0.00223	1.0	Complies

Note:

- 1. The Power comes from report operation description.
- 2. The minimum separation distance of the device is greater than 20 cm.

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

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^{* =} Plane-wave equivalent power density.