

Test Report

Report No.: GZEE220900345231

Date: 2022-10-11

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

Applicant: Guangzhou Tianxin Photoelectric Co., Ltd.
#15-1 JinGu Road, South, Xiutang, Huadong Town, Huadu District, Guangzhou,
Guangdong, China

Manufacturer: Same as applicant

Factory: Same as applicant

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 TR 62778: 2014
Application of IEC 62471 for the assessment of blue light hazard to light sources
and luminaires

Test item description: LED chip

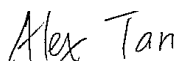
Trade Mark/Brand:

Model/Type reference: TX-3570W15FC-NUFEZW B02DT, TX-3570W16FC120-NUFEZW-B04DT,
TX-3570W21FSA3-NU3CD-01, TX-3570W30FSA3-NU4CD-01,
TX-3570W30FSB3-NU4CD-02, TX-3570W30FSA3-NU4CD-03

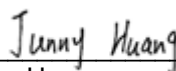
Ratings: MAX DC 1,9 A; 18 W; 1600 – 1900 lm; 5600 - 6000 K

Test result: The test sample belongs to RG2 unlimited for all distances < dmin 840 mm and
belongs to RG1 unlimited for all distances > dmin 840 mm.

Remark: Throughout this report a comma is used as the decimal separator.



Alex Tan
Reviewer
E&E Safety Laboratory



Junny Huang
Sr Project Engineer



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General product information:

The LED chip can emit the white light when powered.

All models are the same except CCT.



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IEC TR 62778			
Clause	Requirement + Test	Result - Remark	Verdict
7	MEASUREMENT INFORMATION FLOW		
7.1	Basic flow		
	'Law of conservation of luminance' applied		N/A
	Use of only true luminance/radiance values		N/A
	In case of luminaire: The light source is operated in the luminaire under similar conditions as when tested as a component		N/A
	In case E_{thr} value for RG2 was established the peak value was derived from angular light distribution		N/A
7.2	Conditions for the radiance measurement		
	Standard condition applied (200mm distance, 0,011rad field of view)		P
	Non-standard condition applied		N/A
7.3	Special cases (I): Replacement by a lamp or LED module of another type		
	Light source is a white light source		N/A
	Evaluation done based on highest luminance		N/A
	Evaluation done based on CCT value		N/A
7.4	Special cases (II): Arrays and clusters of primary light sources		
	LED package is evaluated as : ☐ RG0 unlimited ☐ RG1 unlimited		N/A
	E_{thr} of LED package applies to array		N/A
8	RISK GROUP CLASSIFICATION		P
	Risk group achieved:		N/A
	- .. Risk Group 0 unlimited		N/A
	- .. Risk Group 1 unlimited		N/A
	- E_{thr} (lx) : Distance to reach RG1..... (mm) :	861,61 840	P



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TABLE: Spectroradiometric measurement				
Measurement performed on:		☒ LED package ☐ LED module ☐ Lamp ☐ Luminaire		
Model number.....		TX-3570W15FC-NUFEZWB02DT		
Test voltage (V).....		N/A		
Test current (mA).....		1900		
Test frequency (Hz)		N/A		
Ambient, t (C)		25		
Measurement distance		☒ 20 cm ☐ ... cm		
Source size		☒ Non-small ☐ Small : mm		
Field of view		☐ 100 mrad ☒ 11 mrad ☐ 1,7 mrad		
Item	Symbol	Units	Result	Remark
Correlated colour temperature	CCT	K	8262	
x/y colour coordinates			0,2935 / 0,3001	
Blue light hazard radiance	L _B	W/(m ² •sr ¹)	71470	
Blue light hazard irradiance	E _B	W/m ²		
Luminance	L	cd/m ²	6,158 x 10 ⁷	
Illuminance	E	lx	14765	
Supplementary information: The product belongs to RG2 unlimited for all distances < d _{min} 840 mm. The product belongs to RG1 unlimited for all distances > d _{min} 840 mm.				



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Photo documentation:

Details of: View of the product

View:

☒ general

☐ front

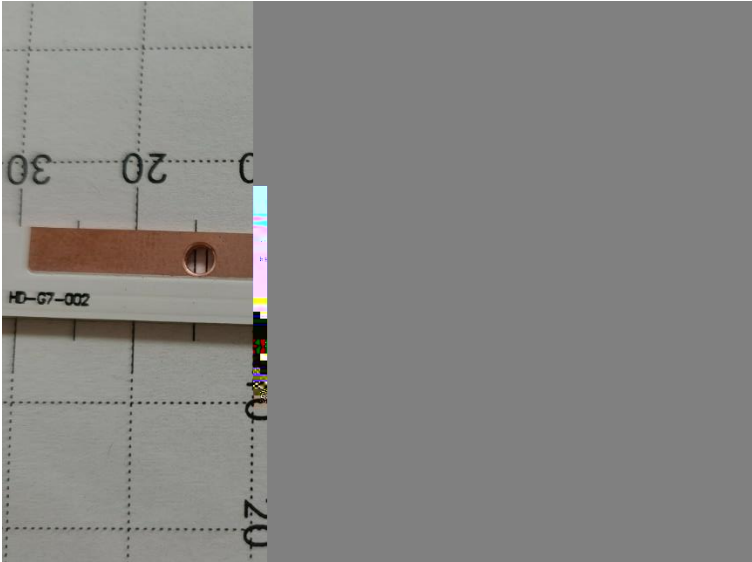
☐ rear

☐ right

☐ left

☐ top

☐ bottom



--- End of Report ---



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