

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 Photoeletric 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-NUFEZWB02DT, 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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Copy of marking plate N/A						
Summary of testing: Tested model TX-3570W15FC-NUFEZWB02DT for represented, due to it is the highest CCT. The LED chip was tested under DC 1,9 A and belong to RG2 unlimited for all distances < dmin 840 mm and belongs to RG1 unlimited for all distances > dmin 840 mm according to IEC TR 62778: 2014.						
Use of uncertainty of measurement for deci	sions on conformity (decision rule) :					
No decision rule is specified by the standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule, previously known as "accuracy method").						
Test item particulars						
Product evaluated:	☑ LED package☐ LED module☐ Lamp☐ Luminaire					
Rated CCT (K):						
Rated Luminance (Mcd/m²)						
Component report data used:	Not applicable ■ Not applicable Not applicable					
	☐ LED package					
	☐ LED module					
	☐ Lamp					
	Report number:					
Possible test case verdicts:						
- test case does not apply to the test object :	N/A					
- test object does meet the requirement:	P (Pass)					
- test object does not meet the requirement :	F (Fail)					
Testing						
Date of receipt of test item:	2022-09-27					
Date (s) of performance of tests:	2022-09-28 to 2022-10-09					



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General	product	inform	ation:
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The LED chip can emit the white light when powered.

All models are the same except CCT.



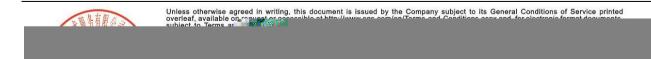
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	IEC TR 62778					
Clause	Requirement + Test	Result - Remark	Verdict			
7	MEASUREMENT INFORMATION FLOW					
7.1	Basic flow					
	'Law of conservation of luminance' applied		N/A			
	Use of only true luminance/radiance values		N/A			
	In case of luminaire: The light source is operated in the luminaire under similar conditions as when tested as a component		N/A			
	In case Ethr 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)		Р			
	Non-standard condition applied					
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			
	Ethr of LED package applies to array		N/A			
8	RISK GROUP CLASSIFICATION					
	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	Р			





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	TABLE: Spectrora	diometric n	neasurement	t .			
	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 Non-sma			
				☐ Small : mm			
	Field of view:			☐ 100 mrad			
				□ 11 mrad			
				☐ 1,7 mrad			
Item		Symbol	Units	Result	Remark		
Correlated of	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		Ев	W/m ²				
Luminance L		L	cd/m ²	6,158 x 10 ⁷			
Illuminance E Ix		lx	14765				
Supplementary information:							
The product belongs to RG2 unlimited for all distances < d _{min} 840 mm.							
The product	t belongs to RG1 unlir	mited for all o	distances > d _r	_{nin} 840 mm.			

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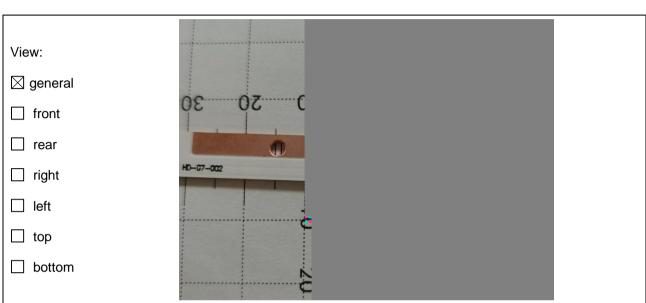


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Photo documentation:

Details of: View of the product



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