Test Report

Report No.: GZEE250700350431
Date: 2025-07-15

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, China
Manufacturer:	Guangzhou Tianxin Photoeletric Co., Ltd #15-1, JinGu Road South, Xiutang, Huadong Town, Huadu District, Guangzhou, China
Factory:	Guangzhou Tianxin Photoeletric Co., Ltd #15-1, JinGu Road South, Xiutang, Huadong Town, Huadu District, Guangzhou, China
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
Product Name:	LED
Test item description:	LED chip
Trade Mark/Brand:	**TYANSHINE**
Model/Type reference:	See page 3 **General product information**
Ratings:	See page 3 **General product information**
Test result:	The test sample belongs to RG2 for all distances < dmin 1,128 m, RG1 for all distances > dmin 1,128 m
Remark:	Throughout this report a comma is used as the decimal separator.

Alex Tan
Reviewer
E&E Safety Laboratory

Junny Huang / Rudy Chen
Project Engineer

Copy of marking plate
N/A

Summary of testing:
1. The TX3570W40FSA4-NU3CD-A1 was selected for full tested since it has max. current for each die.
2. The TX3570W40FSA4-NU3CD-A1 was tested under 3200 mA input and meets the requirement of RG2 for all distances < dmin 1,128 m, RG1 for all distances > dmin 1,128 m according to IEC TR 62778: 2014.

Use of uncertainty of measurement for decisions 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) .....:	5500-6700
Rated Luminance (Mcd/m^2) .....:	
Component report data used .....:	☒ **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 .....:	2025-07-01
Date (s) of performance of tests .....:	2025-07-01 to 2025-07-10

General product information:
LED chip, 5500-6700 K, contains several dies.

Type / model	Ratings	Technical parameter
TX3570W40FSA4-NU3CD-A1	DC 3200 mA; 13,0 - 14,0 V	Number of dies: 8 ; 4S2P
TX3570W30FSA3-NU4CD-06	DC 3200 mA; 9,2 - 10,0 V	Number of dies: 6 ; 3S2P
TX3570W30FSA3-NU3CD-03	DC 3200 mA; 9,2 - 10,0 V	Number of dies: 6 ; 3S2P
TX4575W45FSA15-NU3CD-01	DC 1000 mA; 46,0 - 47,0 V	Number of dies: 15 ; 15S1P
TX4575W80FSA15-NU3CH-01	DC 1500 mA; 46,0 - 47,0 V	Number of dies: 15 ; 15S1P

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**		
	Risk group achieved:		P
	-...Risk Group 0 unlimited		N/A
	-...Risk Group 1 unlimited		N/A
	- E_{thr} ..... (lx) : Distance to reach RG1..... (m) :	1180 1,128	P

Photo documentation:

Details of: View of the product

View:
☒ general
☐ front
☐ rear
☐ right
☐ left
☐ top
☐ bottom

Details of: View of the product

View:
☒ general
☐ front
☐ rear
☐ right
☐ left
☐ top
☐ bottom

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