



TEST REPORT

IEC TR 62778

Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires

Report reference No	SZ2220908-40764E-SF				
Compiled by (+ signature)	Engineer: Zero Gao				
Approved by (+ signature)	Team Leader: Harrison Huang				
Date of issue	2022-09-15				
Testing laboratory	Bay Area Compliance Laboratories Corp.(Dongguan)				
Address	No.12, Pulong East 1st Road, Tangxia Town, Dongguan, China				
Testing location	Same as above				
Applicant	Hongli Zhihui Group Co., Ltd. Guangzhou Branch				
Address	Room316, Building 2, No.1,Xianke Yi Road, Huadong Town, Huadu				
	District, Guangzhou,China				
Standard	IEC TR 62778:2014				
Test sample(s) received	2022-09-13				
Test in period	2022-09-15				
Procedure deviation	N.A.				
Non-standard test method	N.A.				
Type of test object	LEDpackage				
Trademark	N.A.				
Model/type reference	HL-AS-2835D3W-2C-S1-08L-PCT-HR3(R9)-XJ				
Multiple model	N.A.				
Manufacturer	Hongli Zhihui Group Co.,Ltd. Guangzhou Branch				
	Room316, Building 2, No.1,Xianke Yi Road, Huadong Town, Huadu District, Guangzhou,China				
Rating:	Input: 6Vdc, 80mA				
Copy of marking plate: None					



Test item particulars			
Product evaluated:	 ☑LED package ☑ LED module ☑ Lamp ☑ Luminaire 		
Rated voltage (V)	See rating		
Rated current (mA)	See rating		
Rated Luminance (Mcd/m ²)	Not specified		
Component report data used	 Not applicable LED package LED module Lamp 		
Possible test case verdicts:			
-test case does not apply to the test objectN(.A.)			
-test object does meet the requirementP(ass)			
-test object does not meet the requirementF(ail)			
General remarks:			
The test results presented in this report relate only to the object This report shall not be reproduced, except in full, without the we laboratory. "(See Enclosure #)" refers to additional information appended to "(See appended table)" refers to a table appended to the report Throughout this report a point is used as the decimal separator List of test equipment must be kept on file and available for rev Remark: Appendix A EUT photos	vritten approval of the Issuing testing o the report. t.		
General product information:	rating in 6)/da 80mA		
"EUT" as referred in this report is a LEDpackage, and the input	raung is 6vac, 80mA.		



Verdict

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Clause Requirement + Test Result - Remark

7	MEASUREMENT INFORMATION FLOW		Р				
7.1	Basic flow						
	'Law of conservation of luminance' applied		Р				
	Use of only true luminance/radiance values		Р				
	In case of luminaire: The light source is operated in the luminaire under similar conditions as when tested as a component		Р				
	In case E _{thr} value for RG2 was established the peak value was derived from angular light distribution						
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						
	Evaluation done based on highest luminance						
	Evaluation done based on CCT value		N				
7.4	Special cases (II): Arrays and clusters of primary light sources						
	LED package is evaluated as:	RG0 unlimited	N				
	E _{thr} of LED package applies to array		N				
8	RISK GROUP CLASSIFICATION						
	Risk group achieved:		Р				
	Risk Group 0 unlimited		N				
	Risk Group 1 unlimited		N				
	- E _{thr}	RG1	Р				



Clause

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Requirement + Test

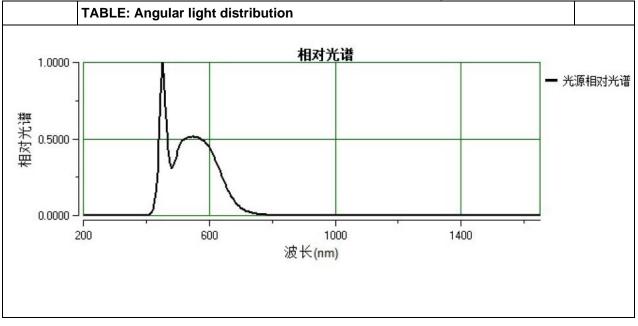
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Result - Remark Verdict

TABLE	TABLE: Spectroradiometric measurement						
Measu	Measurement performed on:				 □ LED package □ LED module □ Lamp □ Luminaire 		
Model	Model number				 HL-AS-2835D3W-2C-S1-08L-PCT- HR3(R9)-XJ		
Test vo	Test voltage (V)				6Vdc		
Test ci	Test current (mA)				. 80mA		
Test fr	Test frequency (Hz)						
Ambie	Ambient, t(°C) Measurement distance Source size Field of view				26 °C		
Measu					. ⊠ 20 cm □ cm		
Source							
Field o					. ☐ 100 mrad ☐ 11 mrad ⊠4.8 mrad (for small sources)		—
Item		Symb ol	Units		Result	Remark	
Correlated colour temperature		ССТ	к	660	4		
x/y colour coordinates		x/y		0.31	01/0.3342		
Blue light hazard radiance		L _B	W/(m ² •sr ¹)	8.16	64x10 ³		
Blue light hazard irradiance		Ε _B	W/m ²	4.61	l6 x 10⁻¹		
Luminance		L	cd/m ²	9.86	64x10 ⁶		
Illuminance		E	lx	558			
Supplementary infor	rmation: NA						



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Appendix A - EUT Photos

Theoverall viewofEUT





Directions:

1. The information marked # is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.

2.Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

3. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

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