

TEST REPORT

IEC TR 62778

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

Report reference No	RSZ200312551-SF				
Compiled by (+ signature)	Test Engineer: Zero Gao				
Approved by (+ signature)	Project Engineer: Harrison Huang				
Date of issue	2020-03-13				
Testing laboratory	Bay Area Compliance Laboratories Corp.(Dongguan)				
Address:	No.69, Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China				
Testing location	Same as above				
Applicant:	Hongli Zhihui Group Co.,Ltd. Guangzhou Branch				
Address:	Room 316, Building 2, No.1, Xianke Yi Road, Huadong Town, Huadu District, Guangzhou, China				
Standard	IEC TR 62778:2014				
Test sample(s) received	2020-03-12				
Test in period	2020-03-12				
Procedure deviation	N.A.				
Non-standard test method:	N.A.				
Type of test object	LED package				
Trademark:	N.A.				
Model/type reference:	HL-AS-2835D41W-S1-08L-PCT-HR3(R9)-***-**				
Manufacturer	Hongli Zhihui Group Co.,Ltd. Guangzhou Branch				
	Room 316, Building 2, No.1, Xianke Yi Road, Huadong Town, Huadu District, Guangzhou, China				
Rating	Input: 3Vdc, 120mA				
Copy of marking plate:					
None					



Test item particulars:							
Product evaluated:	LED package						
	LED module						
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 object							
-test object does meet the requirement:P(ass)							
-test object does not meet the requirementF(ail)							
General remarks:							
The test results presented in this report relate only to the object tested.							
This report shall not be reproduced, except in full, without the written approval of the Issuing testing							
laboratory.							
"(See Enclosure #)" refers to additional information appended to the report. "(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 review.							
Remark:							
Appendix A EUT photos							
General product information:							
"EUT" as referred in this report is a LED package. And the input	C						
2835D41W-S1-08L-PCT-HR3(R9)-KJD-65 and multiple models have the same mechanical and electrical							
structure except the customer's code and CCT. Unless otherwise specified, model HL-AS-2835D41W-S1- 08L-PCT-HR3(R9)-KJD-65(CCT=6500K) were chosen as the representative model to perform all tests.							
Note: HL-AS-2835D41W-S1-08L-PCT-HR3(R9)-***-**							

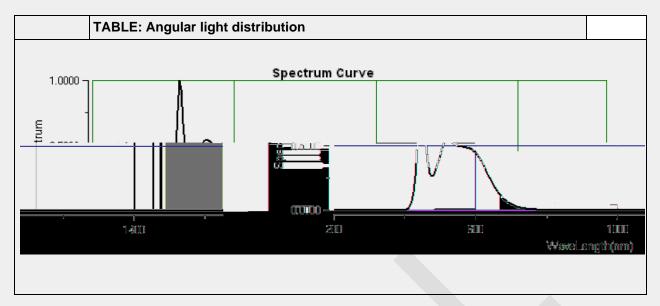
1. One or more letters (represents"***" in model) denot the customer's code.

2. Two numbers (represents"**" in model) denot the CCT of LEDs.



	TABLE: Spectroradiometric measurement							
	Measurement performed on:				 ☑ LED package □ LED module □ Lamp □ Luminaire 			
	Model number							
	Test voltage (V)			. 3Vdc				
	Test current (mA)					. 120mA		
	Test frequency (Hz)							
	Ambient, t (°C)					22.6		
	Measurement distance					⊠ 20 cm □ cm		
	Source size							
	Field of view		. ☐ 100 mrad ⊠ 11 mrad ☐ 1,7 mrad (for small sources)					
Item		Symb ol	Units		Result Remark			
Correlated colour temperature		ССТ	К	661	8			
x/y colour coordinates		x/y		0.30	097/0.3348			
Blue light hazard radiance		L _B	W/(m ² •sr ¹)	302	9			
Blue light hazard irradiance		E _B	W/m ²	2.90)1 x 10 ⁻¹			
Luminance		Lv	cd/m ²	3.55	50 x 10 ⁶			
Illuminance		E	lx	340				
Supplementary information: NA								







Appendix A - EUT Photos

EUT- The overall view





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.
- 5. This report cannot be reproduced except in full, without prior written approval of the Company.
- 6. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.