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 ..... :	RSZ200330551-SF	
Compiled by (+ signature) ..... :	Test Engineer: Zero Gao	Zero Gao
Approved by (+ signature) ..... :	Project Engineer: Harrison Huang	Harrison Huang
Date of issue ..... :	2020-04-02	
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..... :	2020-03-31	
Test in period..... :	2020-03-31	
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-2-S1-08L-PCT-HR3(R9)-***-**	

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 object.....:N(.A.)

-test object does meet the requirement.....:P(ass)

-test object does not meet the requirement.....:F(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:

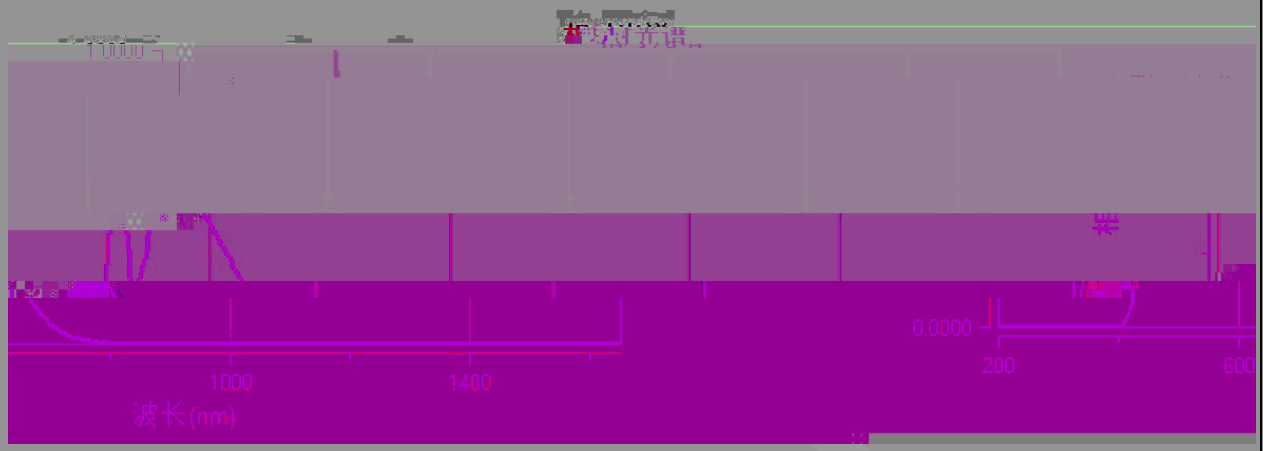
"EUT" as referred in this report is a LED package. And the input rating is 3Vdc, 120mA. Test model HL-AS-2835D41W-2-S1-08L-PCT-HR3(R9)-KJD-65 and multiple models have the same mechanical and electrical structure except the customer's code and CCT. Unless otherwise specified, model HL- AS-2835D41W-2-S1-08L-PCT-HR3(R9)-KJD-65 (CCT=6500K) were chosen as the representative model to perform all tests.
Note: HL-AS-2835D41W-2-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.

IEC TR 62778			
Clause	Requirement + Test	Result - Remark	Verdict

7	**MEASUREMENT INFORMATION FLOW**		**P**
7.1	**Basic flow**		**P**
	'Law of conservation of luminance' applied		P
	Use of only true luminance/radiance values		P
	In case of luminaire: The light source is operated in the luminaire under similar conditions as when tested as a component		P
	In case E_{thr} value for RG2 was established the peak value was derived from angular light distribution		N
7.2	**Conditions for the radiance measurement**		**P**
	Standard condition applied (200mm distance, 0,011rad field of view)		P
	Non-standard condition applied		N
7.3	**Special cases (I): Replacement by a lamp or LED module of another type**		**N**
	Light source is a white light source		N
	Evaluation done based on highest luminance		N
	Evaluation done based on CCT value		N
7.4	**Special cases (II): Arrays and clusters of primary light sources**		**N**
	LED package is evaluated as ..... :	☐ RG0 unlimited ☐ RG1 unlimited ☐ RG2 unlimited	N
	E_{thr} of LED package applies to array		N
8	**RISK GROUP CLASSIFICATION**		**P**
	Risk group achieved:		P
	- .. Risk Group 0 unlimited		N
	- .. Risk Group 1 unlimited		P
	- Risk Group 2 unlimited		N
	- E_{thr} ..... (lx) : Distance to reach RG1 .....(mm) :		N

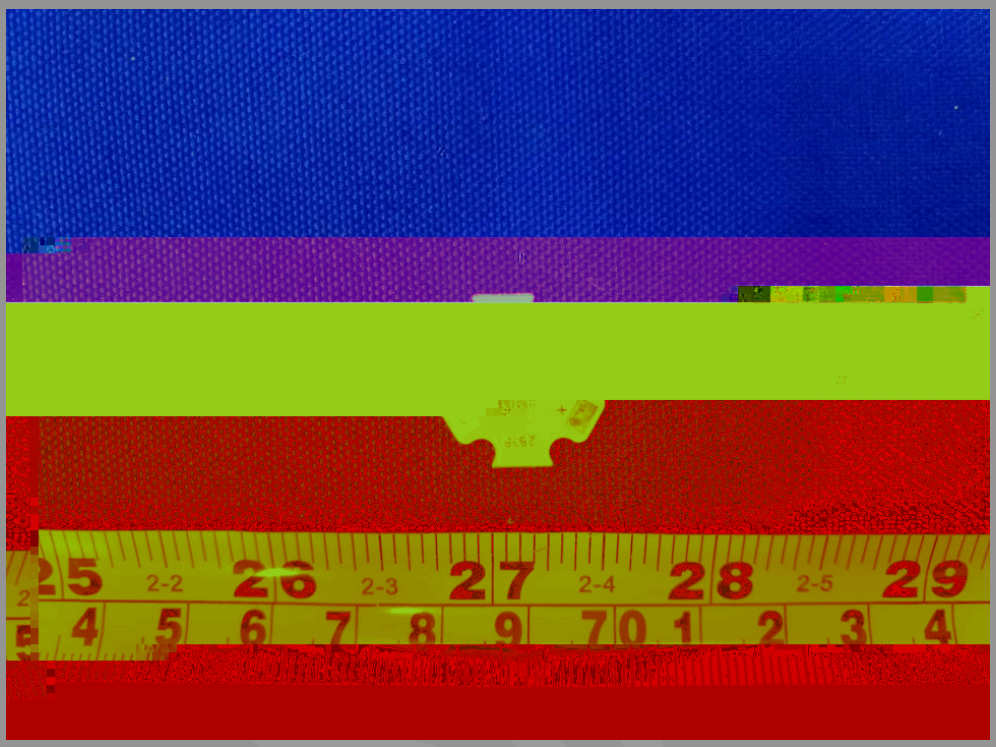
	TABLE: Spectroradiometric measurement		**P**
	Measurement performed on:	☒ **LED package** ☐ **LED module** ☐ **Lamp** ☐ **Luminaire**	—
	Model number	HL- AS-2835D41W-2-S1-08L -PCT-HR3(R9)-KJD-65	—
	Test voltage (V)	3Vdc	—
	Test current (mA).....	120mA	—

	TABLE: Angular light distribution	



Appendix A - EUT Photos

EUT- The overall view



DIRECTIONS

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