

Report No.: RSZ181031550-

TEST REPORT

IEC TR 62778

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

Report reference No RSZ181031550-03

Compiled by (+ signature) Test Engineer: Will Wang

Approved by (+ signature) Team Leader: Harrison Huang

Date of issue 2018-11-05

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.

China

Standard IEC TR 62778:2014

Test sample(s) received...... 2018-10-31

Procedure deviation N.A.

Non-standard test method: N.A.

Note: The test data was only valid for the test sample(s). This test report is prepared for the shown above and for the specific product described herein. It must not be duplicated or use prior written consent from Bay Area Compliance Laboratories Corp. (Dongguan).

Type of test object LED package

Trademark N.A.

Model/type reference HL-A-2835D90VW-LVR7-S1-08-PCT-HR6

Multiple Models...... N.A.

Manufacturer...... Hongli Zhihui Group Co.,Ltd.

No.1, Xianke Yi Road, Huadong Town, Huadu Distr

China

Rating Input: 5Vdc, 60mA

Copy of marking plate:

None



60mÅ.

Report No.: RSZ181031550-03

Test item particulars:			
Product evaluated:	☑ LED package☐ LED module☐ Lamp☐ Luminaire		
Rated voltage (V)::	See rating		
Rated current (mA):	See rating		
Rated CCT (K):			
Rated Luminance (Mcd/m²):	Not specified		
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 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 w laboratory.	ritten approval of the Issuing testing		
"(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 revi			
Remark:	Gvv.		
This report consists of 7 pages and following appendixes:			
Appendix A EUT photos			
Appendix B Test equipment list			
General product information:			

This product is LED package, test model is HL-A-2835D90VW-LVR7-S1-08-PCT-HR6. Rated input is 5Vdc,

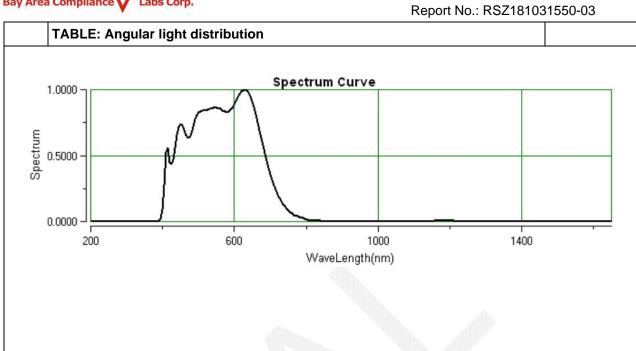


Report No.: RSZ181031550-03

IEC TR 62778					
Clause	Requirement + Test	Result - Remark	Verdict		
7 MEASUREMENT INFORMATION FLOW					
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		N		
7.2	Conditions for the radiance measurement				
	Standard condition applied (200mm distance, 0,011rad field of view)		Р		
	Non-standard condition applied		N		
7.3	Special cases (I): Replacement by a lamp or LED module of another type				
	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				
	LED package is evaluated as: Ethr of LED package applies to array	RG0 unlimited RG1 unlimited RG2 unlimited	N N		
8	RISK GROUP CLASSIFICATION		Р		
	Risk group achieved:		P		
	Risk Group 0 unlimited		N		
	Risk Group 1 unlimited		Р		
	Risk Group 2 unlimited		N		
	- E _{thr} (lx) : Distance to reach RG1 (m) :	1499lx 63mm	Р		











Report No.: RSZ181031550-03

Appendix B Test equipment list

Equipment Description	Model No	BACL#	Manufacturer	Last Cal	Cal Due
UV-VIS-near IR Spectrophotocolorimeter	PMS-2000	T-08-SF213	EVERFINE	2018-09-03	2019-09-03
Imaging luminance meter	CX-2K	T-08-SF213-1	EVERFINE	2018-09-03	2019-09-03
Radiation illuminance meter	RD-2000	T-08-SF213-2	EVERFINE	2018-09-03	2019-09-03
Radiation illuminance meter	RD-2000	T-08-SF213-3	EVERFINE	2018-09-03	2019-09-03
High Accuracy Array	HAAS-2000	T-08-SF213-4	EVERFINE	2018-09-03	2019-09-03
80mm sample integrating sphere	SMS-300	T-08-SF213-5	EVERFINE	2018-09-03	2019-09-03
Hygrothermograph	VC230	T-08-QA015	VICTOR	2018-03-17	2019-03-17
Steel tape	5m 19mm	T-08-SF197	B&Q	2016-02-25	2021-02-23
High power LED aging dc power supply	B12005	T-08-SF205	BACL	2018-03-26	2019-03-26
AC power supply	HPA-1103	F-08-SF129	EVERFINE	2018-07-23	2019-07-23

*** End of report ***