

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: RSZ191216552-SF Compiled by (+ signature): Test Engineer: Zero Gao Approved by (+ signature) Project Engineer: Harrison Huang Date of issue: 2019-12-20 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.....: 2019-12-18 2019-12-20 Test in period.....: Procedure deviation: N.A. Non-standard test method: N.A. LED package Type of test object: Trademark: N.A. Model/type reference: HL-AF-5060H343W-3-S1-THL-HR1 Manufacturer....: Hongli Zhihui Group Co., Ltd. Guangzhou Branch

Huadu District, Guangzhou, China

Input: 2.6-3.2Vdc, 60mA

Room 316, Building 2, No.1, Xianke Yi Road, Huadong Town,

Copy of marking plate:

Rating:

None



Report No.: RSZ191216552-SF Test item particulars: Product evaluated: ■ LED module ☐ Lamp Luminaire Rated voltage (V)....:: See rating Rated current (mA)....: See rating Rated Luminance (Mcd/m²)....: 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 2.6-3.2Vdc, 60mA.



TABLE: Spectroradiometric measurement

Model number

Test frequency (Hz)

Ambient, t (°C)

Measurement distance.....

Source size

Field of view

Test current (mA)...... 60mA

Measurement performed on:

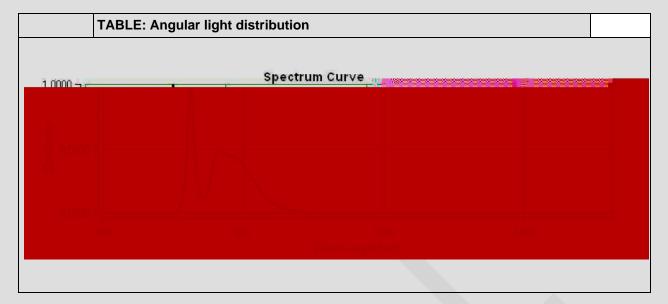
Report No.: RSZ191216552-SF ☐ LED module ☐ Lamp ☐ Luminaire HL-AF-5060H343W-3-S1-THL-HR1 ☐ Non-small: mm Small: 2.0mm ☐ 100 mrad □ 11 mrad 1 7 mrad (for small sources)

		1,7 mad (for small sources)						
Item		Symb ol	Units	Result	Remark			
Correlated colour temperature		ССТ	K	6390				
x/y colour coordinates		x/y		0.3143/0.3337				
Blue light hazard radiance		L _B	W/(m ² •sr ¹)	979				
Blue light hazard irradiance		E _B	W/m ²	1.251 x 10 ⁻¹				
Luminance		L _V	cd/m ²	1.174 x 10 ⁶				
Illuminance		Е	lx	150				
Supplementary information: NA								

22.3

☐ ... cm

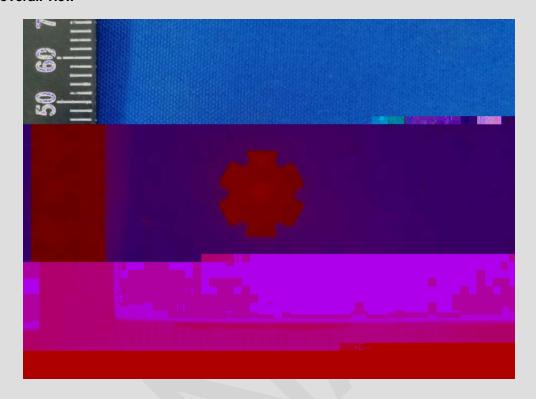






Appendix A - EUT Photos

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.
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- 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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End of report