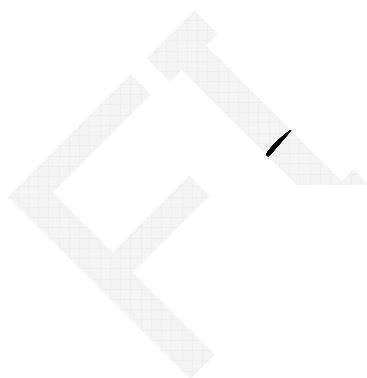


TEST REPORT IEC TR 62778 Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires	
Report reference No	RSZ161229553-03
Compiled by (+ signature)	Zero Gao <i>Zero Gao</i>
Approved by (+ signature)	Harrison Huang <i>Harrison Huang</i>
Date of issue	2017-01-05
Testing laboratory	Bay Area Compliance Laboratories Corp.(Dongguan)
Address	No.69, Pulongcun, Puxinhu Industry Zone, Tangxia, Dongguan, Guangdong, China
Testing location	Same as above
Applicant	Hongli Zhihui Group Co.,Ltd.
Address	No.1, Xianke Yi Road, Huadong Town, Huadu District, Guangzhou, China
Standard	IEC TR 62778:2014 (Second Edition)
Test sample(s) received.....	2016-12-30
Test in period.....	2016-12-30~2017-01-05
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 customer shown above and for the specific product described herein. It must not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Dongguan).	
Type of test object	LED
Trademark	N.A.
Model/type reference	HL-A-4014H489W-S1-HR3-DM-SX
Multiple Models.....	N.A.
Manufacturer.....	Hongli Zhihui Group Co.,Ltd. No.1, Xianke Yi Road, Huadong Town, Huadu District, Guangzhou, China
Rating	Input: 2.8-3.4Vdc, 60mA
Copy of marking plate:	None



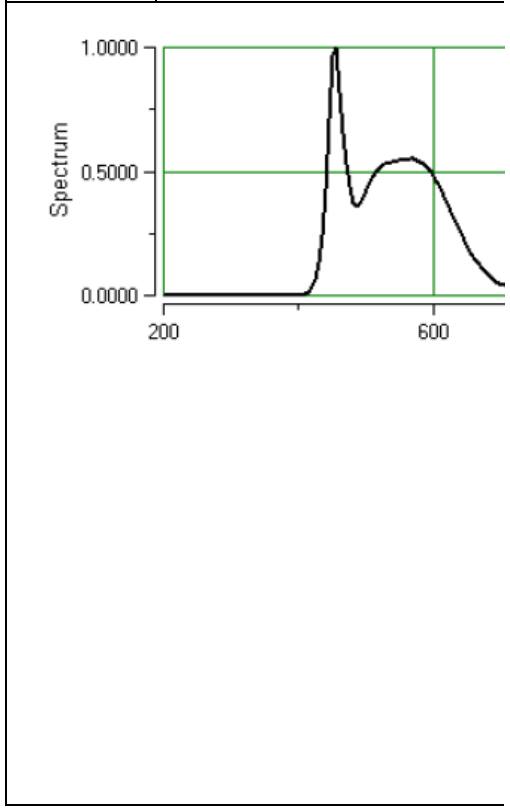
IEC TR 62778			
Clause	Requirement + Test	Result - Remark	Verdict

	TABLE: Spectroradiometric measurement		P
	Measurement performed on:	<input checked="" type="checkbox"/> LED package <input type="checkbox"/> LED module <input type="checkbox"/> Lamp <input type="checkbox"/> Luminaire	—
	Model number.....	HL-A-4014H489W-S1-HR3-DM-SX	—
	Test voltage (V)	2.8-3.4Vdc	—
	Test current (mA)	60mA	—
	Test frequency (Hz).....	-	—
	Ambient, t (°C).....	25.0	—
	Measurement distance	<input checked="" type="checkbox"/> 20 cm <input type="checkbox"/> ... cm	—
	Source size	<input type="checkbox"/> Non-small <input checked="" type="checkbox"/> Small : 0.30mm	—
	Field of view	<input type="checkbox"/> 100 mrad <input checked="" type="checkbox"/> 11 mrad <input type="checkbox"/> 1,7 mrad (for small sources)	—

Item	Symbol	Units	Result	Remark
Correlated colour temperature	CCT	K	6527	--
x/y colour coordinates	x/y		0.3109/0.3383	--
Blue light hazard radiance	L _B	W/(m ² •sr ¹)	1393	--
Blue light hazard irradiance	E _B	W/m ²	1.194 x10 ⁻¹	--
Luminance	L	cd/m ²	1.742x10 ⁶	--
Illuminance	E	lx	149	--

Supplementary information: NA

TABLE: Angular light distri



FEM

