



**TEST REPORT**

**IEC TR**

**Application of IEC TR 62778 for the assessment of power sources and**

Report reference No .....: RSZ190514552

Compiled by (+ signature) .....: Test Engineer: T

Approved by (+ signature) .....: Project Engineer

Date of issue .....: 2019-05-20

Testing laboratory .....: Bay Area Comp

Address .....: No.69, Pulongca  
Guangdong, Ch

Testing location .....: Same as above

Applicant .....: Hongli Zhihui Gr

Address .....: Room 316, Bulc  
District, Guangz

Standard .....: IEC TR 62778:2

Test sample(s) received.....: 2019-05-15

Test in period.....: 2019-05-16

Procedure deviation .....: N.A.

Non-standard test method .....: N.A. r

**Note:** The test data was only valid for the tes  
above and for the specific product described  
written consent from Bay Area Compliance L

Type of test object .....: LED

Trademark .....: N.A

Model/type reference .....: HL-,

Manufacturer.....: Hon  
Roo  
Dist

Rating .....: Inpu

Copy of marking plate:

None

**Test item particulars** .....

FENVAL

IEC TR 62778			
Clause	Requirement + Test	Result - Remark	Verdict
<b>7</b>	<b>MEASUREMENT INFORMATION FLOW</b>		<b>P</b>
<b>7.1</b>	<b>Basic flow</b>		<b>P</b>
	'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
<b>7.2</b>	<b>Conditions for the radiance measurement</b>		<b>P</b>
	Standard condition applied (200mm distance, 0,011rad field of view)		P
	Non-standard condition applied		N
<b>7.3</b>	<b>Special cases (I): Replacement by a lamp or LED module of another type</b>		<b>N</b>
	Light source is a white light source		N
	Evaluation done based on highest luminance		N
	Evaluation done based on CCT value		N
<b>7.4</b>	<b>Special cases (II): Arrays and clusters of primary light sources</b>		<b>N</b>
	LED package is evaluated as ..... : <input type="checkbox"/> RG0 unlimited <input type="checkbox"/> RG1 unlimited <input type="checkbox"/> RG2 unlimited		N
	$E_{thr}$ of LED package applies to array		N
<b>8</b>	<b>RISK GROUP CLASSIFICATION</b>		<b>P</b>
	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) :	1510 71	P

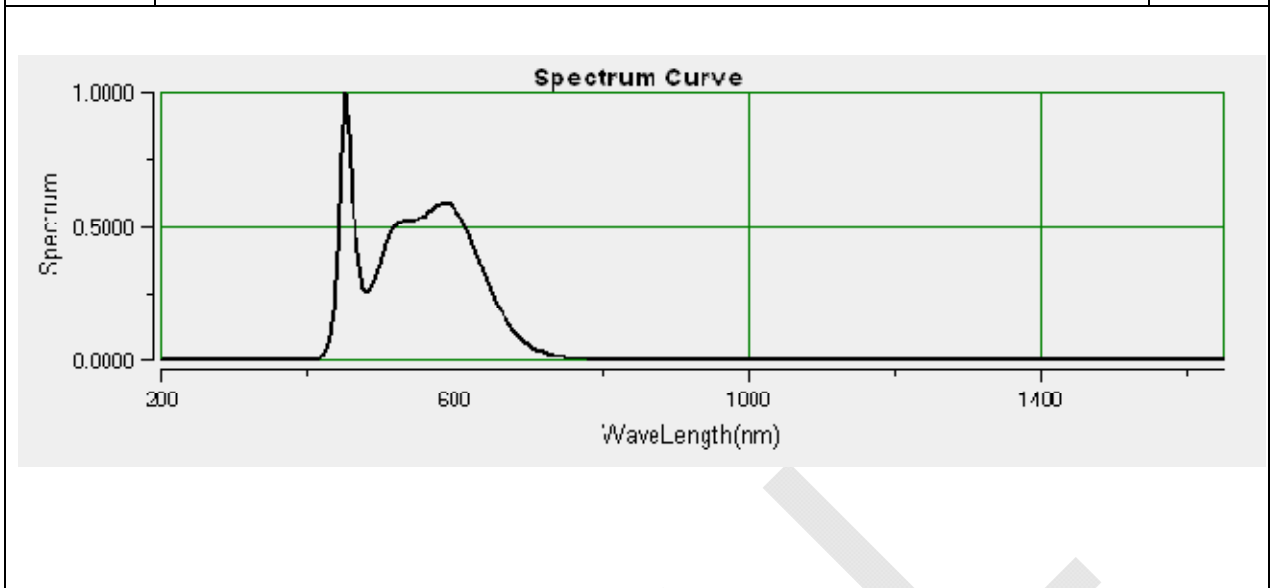
IEC TR 62778			
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TABLE: Spectroradiometric measurement			P
Measurement performed on:	<input checked="" type="checkbox"/> LED package <input type="checkbox"/> LED module <input type="checkbox"/> Lamp <input type="checkbox"/> Luminaire		—
Model number .....	HL-A-2835DW-2-S1-08L-HR3		—
Test voltage (V).....	2.6~3.0Vdc		—
Test current (mA) .....	60m A		—
Test frequency (Hz).....	--		—
Ambient, t (°C).....	25.1		—
Measurement distance .....	<input checked="" type="checkbox"/> 20 cm <input type="checkbox"/> ... cm		—
Source size .....	<input type="checkbox"/> Non-small: mm <input checked="" type="checkbox"/> Small: 1.4 mm		—
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	5152	--
x/y colour coordinates	x/y		0.3414/0.3546	--
Blue light hazard radiance	L <sub>B</sub>	W/(m <sup>2</sup> •sr <sup>1</sup> )	1218	--
Blue light hazard irradiance	E <sub>B</sub>	W/m <sup>2</sup>	1.243 x10 <sup>-1</sup>	--
Luminance	L	cd/m <sup>2</sup>	1.839x10 <sup>6</sup>	--
Illuminance	E	lx	188	--

Supplementary information: NA

**TABLE: Angular light distribution**



FINAL

**Appendix A - EUT Photos**

The overall view of EUT





**Appendix B Test equipment list**

Equipment Description	Model No	BACL#	Manufacturer	Last Cal	Cal Due
UV-VIS-near IR Spectrophotometer	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	2019-03-17	2020-03-17
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	2019-03-26	2020-03-26
AC power supply	HPA-1103	F-08-SF129	EVERFINE	2018-07-23	2019-07-23

\*\*\* End of report \*\*\*