

**Application of IEC TR 62778 for
SOUR**

Report reference No: RSZ16

Compiled by (+ signature): Test E

Approved by (+ signature): Projec

Date of issue: 2019-0

Testing laboratory: Bay Ai

Address

Testing location

Applicant

Address

Standard

Test sample(s) received.....

Test in period.....

Procedure deviation

Non-standard test method

Note: The test data was only valid above and for the specific product consent from Bay Area Compliance

Type of test object

Trademark

Model/type reference

Manufacturer.....

Rating

Copy of marking plate:

None

Test item particulars.....



Product evaluated.....:

- LED package
- 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:

F E M N A L

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 : <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
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) :	1169 98	P

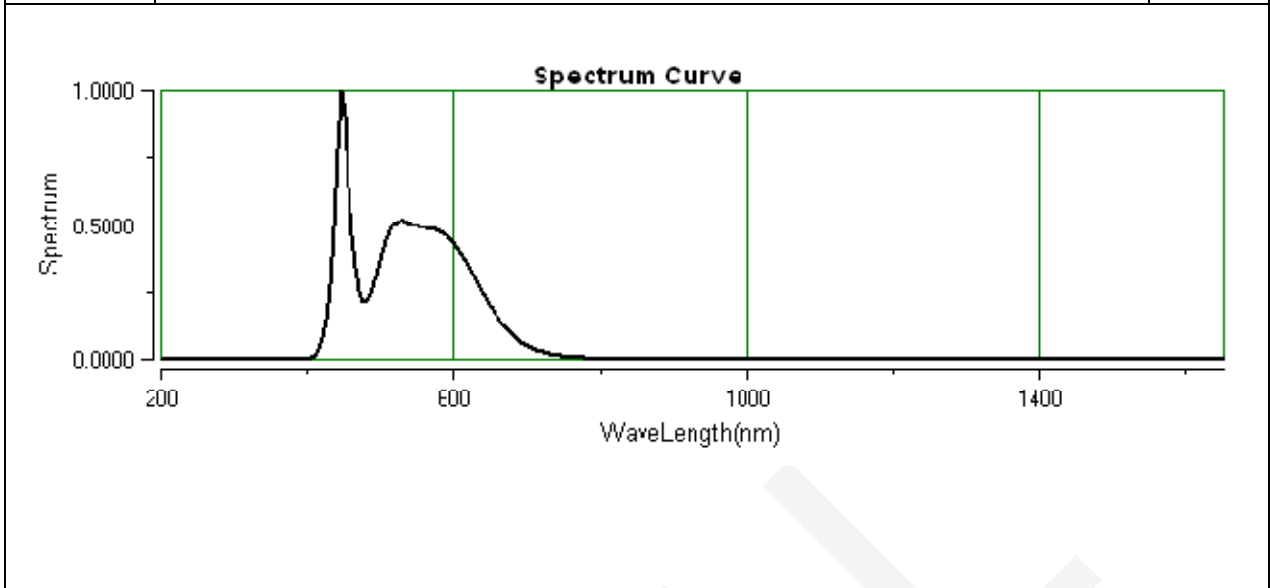
IEC TR 62778			
Clause	Requirement + Test	Result - Remark	Verdict

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	PS2835W6H6-D01-8D2A1	—
	Test voltage (V).....	3Vdc	—
	Test current (mA)	120m 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: 0.59 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	6527	--
x/y colour coordinates	x/y		0.3115/0.3344	--
Blue light hazard radiance	L _B	W/(m ² •sr ¹)	2534	--
Blue light hazard irradiance	E _B	W/m ²	2.41 x10 ⁻¹	--
Luminance	L	cd/m ²	2.963x10 ⁶	--
Illuminance	E	lx	282	--

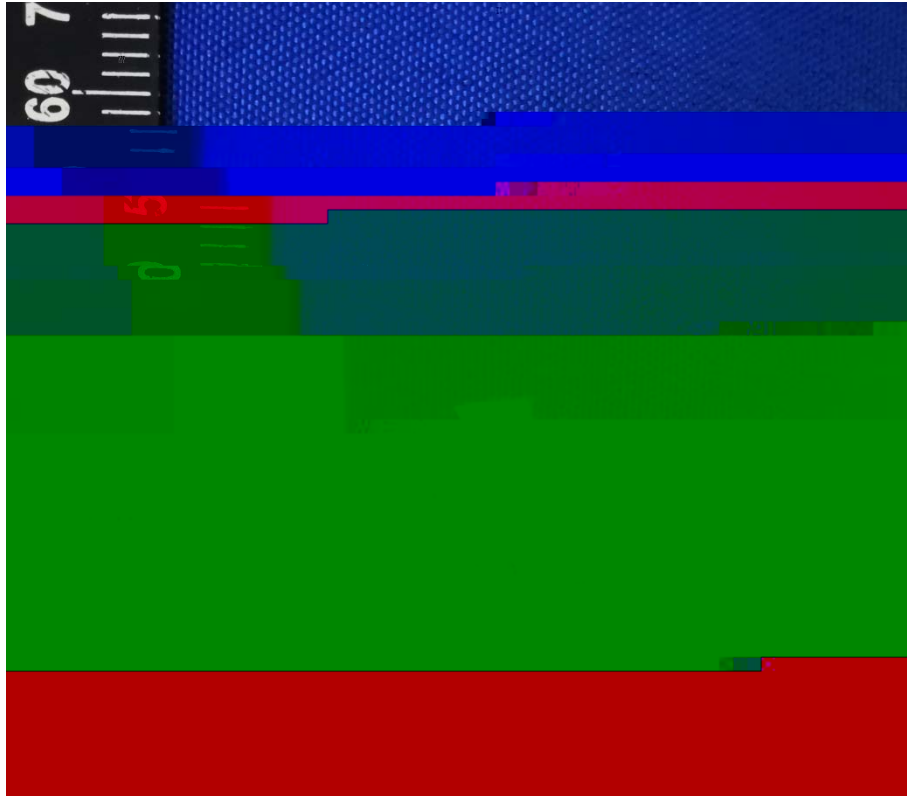
Supplementary information: NA

TABLE: Angular light distribution



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 ***