

Test Report

Client Name : ShenZhen Runlite Technology Co.,Ltd
Address : Building A15,Tantou the 4th Industrial Estate,SongGang
Town,Baoan District,ShenZhen,China
Product Name : SMD LED
Date : 2019-11-01

Shenzhen Anbotek Pengcheng Compliance Laboratory Limited

TEST REPORT

EN 62471:2008

Photobiological Safety of Lamps and Lamp Systems

Report Reference No.....: PCANL191022009-01

Tested by
(printed name + signature).....: Ocean Deng

Ocean Deng

Supervised by
(printed name + signature).....: Flora Zhang

Flora Zhang



Testing Laboratory.....: Shenzhen Anbotek Pengcheng Compliance Laboratory Limited
Zone B, 1/F., Building 2, Hengchangrong High-
Address.....: Tech Industrial Park, Huangtian, Hangcheng Street, Bao'an District,
Shenzhen, Guangdong, China.
Testing location.....: Same as above

Applicant's Name.....: ShenZhen Runlite Technology Co.,Ltd
Address.....: Building A15,Tantou the 4th Industrial Estate,SongGang Town,Baoan
District,ShenZhen,China

Test Specification:
Standard.....: EN 62471:2008
Test procedure.....: Type Test
Non-standard test method.....: N/A

Test Item Description.....: SMD LED
Trade Mark.....: N/A
Manufacturer.....: ShenZhen Runlite Technology Co.,Ltd
Address.....: Building A15,Tantou the 4th Industrial Estate,SongGang Town,Baoan
District,ShenZhen,China
Model/Type reference.....: X2835X-W64SXXXXDXXX-XXXX
Ratings.....: 6VDC, 0.9W

Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or use in part without prior written consent from Shenzhen Anbotek Pengcheng Compliance Laboratory Limited.

Summary of Testing:	
Tests performed (name of test and test clause):	Testing location:
<p>This appliance complies with EN 62471:2008 standards requirements.</p> <p>The EUTs passed relevant tests.</p>	<p>Shenzhen Anbotek Pengcheng Compliance Laboratory Limited</p> <p>Zone B, 1/F., Building 2, Hengchangrong High-Tech Industrial Park, Huangtian, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.</p>
Summary of Compliance with National Differences:	
N/A	
Copy of Marking Plate:	
N/A	

Test Item Particulars:

Tested lamp.....	<input checked="" type="checkbox"/> Continuous wave lamps	<input type="checkbox"/> Pulsed lamps
Tested lamp system.....	N/A	
Lamp classification group.....	<input checked="" type="checkbox"/> RG0 Exempt <input type="checkbox"/> RG1 Low Risk <input type="checkbox"/> RG2 Moderate Risk <input type="checkbox"/> RG3 High Risk	
Lamp cap.....	N/A	
Test item description.....	SMD LED	
Rated of the lamp.....	6VDC, 0.9W	

Possible Test Case Verdicts:

Test case does not apply to the test object.....	N/A (Not Applicable)
Test object does meet the requirement.....	P (Pass)
Test object does not meet the requirement.....	F (Fail)

Testing:

Ambient temperature of tested.....	25.1°C
Test inputs.....	6 VDC
Sample size for tested.....	1pcs
Date of receipt of test item.....	2019-10-22
Date (s) of performance of tests.....	2019-10-23

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.

General Product Information:

X2835X-W64SXXXXDXXXX-XXXX and X2835X-WXXXXXXXXXXXX-XXXX .
 Remark for series models X2835X-WXXXXXXXXXXXX-XXXX: The third "X" and the fourth "X" indicates the correlated color temperature, It can be any integer from 16 to 65, which states from 1600K to 6500K respectively ,The tenth "X" indicates the color index, it can be D,E,F,H or I which states 70,75,80,90 or 95 respectively, others "X" are fixed letters and numbers

EN 62471:2008			
Clause	Requirement + Test	Result – Remark	Verdict
4	EXPOSURE LIMITS		P
	Contents of the whole Clause 4 of IEC 62471:2006 moved into a new informative Annex ZB		--
	Clause 4 replaced by the following:		P
	Limits of the Artificial Optical Radiation Directive (2006/25/EC) have been applied instead of those fixed in IEC 62471:2006		P
4.1	General		P
	The exposure limits in this standard is not less than 0,01 ms and not more than any 8-hour period and should be used as guides in the control of exposure		P
	Detailed spectral data of a light source are generally required only if the luminance of the source exceeds 10^4 cd.m^{-2}		N/A
4.3	Hazard exposure limits		P
4.3.1	Actinic UV hazard exposure limit for the skin and eye		P
	The exposure limit for effective radiant exposure is 30 J.m^{-2} within any 8-hour period		P
	To protect against injury of the eye or skin from ultraviolet radiation exposure produced by a broadband source, the effective integrated spectral irradiance, E_s , of the light source shall not exceed the levels defined by:		P
	$E_s \cdot t = \sum_{200}^{400} \sum_t E_\lambda(\lambda, t) \cdot S_{UV}(\lambda) \cdot \Delta t \cdot \Delta \lambda \leq 30 \quad \text{J.m}^{-2}$		P
	The permissible time for exposure to ultraviolet radiation incident upon the unprotected eye or skin shall be computed by:		P
	$t_{\max} = \frac{30}{E_s} \quad \text{s}$		P
4.3.2	Near-UV hazard exposure limit for eye		P
	For the spectral region 315 nm to 400 nm (UV-A) the total radiant exposure to the eye shall not exceed 10000 J.m^{-2} for exposure times less than 1000 s. For exposure times greater than 1000 s (approximately 16 minutes) the UV-A irradiance for the unprotected eye, E_{UVA} , shall not exceed 10 W.m^{-2} .		P
	The permissible time for exposure to ultraviolet radiation incident upon the unprotected eye for time less than 1000 s, shall be computed by:		P
	$t_{\max} \leq \frac{10000}{E_{UVA}} \quad \text{s}$		P
4.3.3	Retinal blue light hazard exposure limit		N/A

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Clause	Requirement + Test	Result – Remark	Verdict
	To protect against retinal photochemical injury from chronic blue-light exposure, the integrated spectral radiance of the light source weighted against the blue-light hazard function, B(λ), i.e., the blue-light weighted radiance, LB, shall not exceed the levels defined by:		N/A
	$L_B \cdot t = \sum_{300}^{700} \sum_t L_\lambda(\lambda, t) \cdot B(\lambda) \cdot \Delta t \cdot \Delta \lambda \leq 10^6 \quad \text{J} \cdot \text{m}^{-2} \cdot \text{sr}^{-1}$		N/A
	$L_B = \sum_{300}^{700} L_\lambda \cdot B(\lambda) \cdot \Delta \lambda \leq 100 \quad \text{W} \cdot \text{m}^{-2} \cdot \text{sr}^{-1}$		N/A
4.3.4	Retinal blue light hazard exposure limit - small source		P
	Thus the spectral irradiance at the eye Eλ, weighted against the blue-light hazard function B(λ) shall not exceed the levels defined by:100s		P
	$E_B \cdot t = \sum_{300}^{700} \sum_t E_\lambda(\lambda, t) \cdot B(\lambda) \cdot \Delta t \cdot \Delta \lambda \leq 100 \quad \text{J} \cdot \text{m}^{-2}$		P
	$E_B = \sum_{300}^{700} E_\lambda \cdot B(\lambda) \cdot \Delta \lambda \leq 1 \quad \text{W} \cdot \text{m}^{-2}$		P
4.3.5	Retinal thermal hazard exposure limit		P
	To protect against retinal thermal injury, the integrated spectral radiance of the light source, Lλ, weighted by the burn hazard weighting function R(λ) (from Figure 4.2 and Table 4.2), i.e., the burn hazard weighted radiance, shall not exceed the levels defined by:		P
	$L_R = \sum_{380}^{1400} L_\lambda \cdot R(\lambda) \cdot \Delta \lambda \leq \frac{50\,000}{\alpha \cdot t^{0,25}} \quad \text{W} \cdot \text{m}^{-2} \cdot \text{sr}^{-1}$		P
4.3.6	Retinal thermal hazard exposure limit – weak visual stimulus		P
	For an infrared heat lamp or any near-infrared source where a weak visual stimulus is inadequate to activate the aversion response, the near infrared (780 nm to 1400 nm) radiance, LIR, as viewed by the eye for exposure times greater than 10 s shall be limited to:		P
	$L_{IR} = \sum_{780}^{1400} L_\lambda \cdot R(\lambda) \cdot \Delta \lambda \leq \frac{6\,000}{\alpha} \quad \text{W} \cdot \text{m}^{-2} \cdot \text{sr}^{-1}$		P
4.3.7	Infrared radiation hazard exposure limits for the eye		P
	The avoid thermal injury of the cornea and possible delayed effects upon the lens of the eye (cataractogenesis), ocular exposure to infrared radiation, EIR, over the wavelength range 780 nm to 3000 nm, for times less than 1000 s, shall not exceed:		P
	$E_{IR} = \sum_{780}^{3000} E_\lambda \cdot \Delta \lambda \leq 18\,000 \cdot t^{-0,75} \quad \text{W} \cdot \text{m}^{-2}$		P
	For times greater than 1000 s the limit becomes:		P

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Clause	Requirement + Test	Result – Remark	Verdict
	$E_{IR} = \sum_{780}^{3000} E_{\lambda} \cdot \Delta\lambda \leq 100 \quad W \cdot m^{-2}$		P
4.3.8	Thermal hazard exposure limit for the skin		P
	Visible and infrared radiant exposure (380 nm to 3000 nm) of the skin shall be limited to:		P
	$E_H \cdot t = \sum_{380}^{3000} \sum_t E_{\lambda}(\lambda, t) \cdot \Delta t \cdot \Delta\lambda \leq 20\,000 \cdot t^{0.25} \quad J \cdot m^{-2}$		
5	MEASUREMENT OF LAMPS AND LAMP SYSTEMS		P
5.1	Measurement conditions		P
	Measurement conditions shall be reported as part of the evaluation against the exposure limits and the assignment of risk classification.		P
5.1.1	Lamp ageing (seasoning)		N/A
	Seasoning of lamps shall be done as stated in the appropriate IEC lamp standard.		N/A
5.1.2	Test environment		P
	For specific test conditions, see the appropriate IEC lamp standard or in absence of such standards, the appropriate national standards or manufacturer's recommendations.		P
5.1.3	Extraneous radiation		P
	Careful checks should be made to ensure that extraneous sources of radiation and reflections do not add significantly to the measurement results.		P
5.1.4	Lamp operation		P
	Operation of the test lamp shall be provided in accordance with:		P
	– the appropriate IEC lamp standard, or		N/A
	– the manufacturer's recommendation		P
5.1.5	Lamp system operation		P
	The power source for operation of the test lamp shall be provided in accordance with:		P
	– the appropriate IEC standard, or		N/A
	– the manufacturer's recommendation		P
5.2	Measurement procedure		P
5.2.1	Irradiance measurements		P
	Minimum aperture diameter 7mm.		P
	Maximum aperture diameter 50 mm.		P
	The measurement shall be made in that position of the beam giving the maximum reading.		P
	The measurement instrument is adequate calibrated.		P
5.2.2	Radiance measurements		P
5.2.2.1	Standard method		P
	The measurements made with an optical system.		P

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Clause	Requirement + Test	Result – Remark	Verdict
	The instrument shall be calibrated to read in absolute radiant power per unit receiving area and per unit solid angle to acceptance averaged over the field of view of the instrument.		P
5.2.2.2	Alternative method		N/A
	Alternatively to an imaging radiance set-up, an irradiance measurement set-up with a circular field stop placed at the source can be used to perform radiance measurements.		N/A
5.2.3	Measurement of source size		P
	The determination of α , the angle subtended by a source, requires the determination of the 50% emission points of the source.		P
5.2.4	Pulse width measurement for pulsed sources		N/A
	The determination of Δt , the nominal pulse duration of a source, requires the determination of the time during which the emission is > 50% of its peak value.		N/A
5.3	Analysis methods		P
5.3.1	Weighting curve interpolations		P
	To standardize interpolated values, use linear interpolation on the log of given values to obtain intermediate points at the wavelength intervals desired.		P
5.3.2	Calculations		P
	The calculation of source hazard values shall be performed by weighting the spectral scan by the appropriate function and calculating the total weighted energy.		P
5.3.3	Measurement uncertainty		P
	The quality of all measurement results must be quantified by an analysis of the uncertainty.		P
6	Lamp Classification		P
	For the purposes of this standard it was decided that the values shall be reported as follows:		P
	– for lamps intended for general lighting service, the hazard values shall be reported as either irradiance or radiance values at a distance which produces an illuminance of 500 lux, but not at a distance less than 200 mm	Distance=306mm	P
	– for all other light sources, including pulsed lamp sources, the hazard values shall be reported at a distance of 200 mm		N/A
6.1	Continuous wave lamps		P
6.1.1	Risk Group 0 (Exempt)		P
	In the except group are lamps, which does not pose any photobiological hazard. The requirement is met by any lamp that does not pose:		P

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Clause	Requirement + Test	Result – Remark	Verdict
	– an actinic ultraviolet hazard (ES) within 8-hours exposure (30000 s), nor		P
	– a near-UV hazard (EUVA) within 1000 s, (about 16 min), nor		P
	– a retinal blue-light hazard (LB) within 10000 s (about 2,8 h), nor		P
	– a retinal thermal hazard (LR) within 10 s, nor		P
	– an infrared radiation hazard for the eye (EIR) within 1000 s		P
6.1.2	Risk Group 1 (Low-Risk)		N/A
	In this group are lamps, which exceeds the limits for the except group but that does not pose:		N/A
	– an actinic ultraviolet hazard (ES) within 10000 s, nor		N/A
	– a near ultraviolet hazard (EUVA) within 300 s, nor		N/A
	– a retinal blue-light hazard (LB) within 100 s, nor		N/A
	– a retinal thermal hazard (LR) within 10 s, nor		N/A
	– an infrared radiation hazard for the eye (EIR) within 100 s		N/A
	Lamps that emit infrared radiation without a strong visual stimulus and do not pose a near-infrared retinal hazard (LIR), within 100 s are in Risk Group 1.		N/A
6.1.3	Risk Group 2 (Moderate-Risk)		N/A
	This requirement is met by any lamp that exceeds the limits for Risk Group 1, but that does not pose:		N/A
	– an actinic ultraviolet hazard (ES) within 1000 s exposure, nor		N/A
	– a near ultraviolet hazard (EUVA) within 100 s, nor		N/A
	– a retinal blue-light hazard (LB) within 0,25 s (aversion response), nor		N/A
	– a retinal thermal hazard (LR) within 0,25 s (aversion response), nor		N/A
	– an infrared radiation hazard for the eye (EIR) within 10 s		N/A
	Lamps that emit infrared radiation without a strong visual stimulus and do not pose a near-infrared retinal hazard (LIR), within 10 s are in Risk Group 2.		N/A
6.1.4	Risk Group 3 (High-Risk)		N/A

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Clause	Requirement + Test	Result – Remark	Verdict
	Lamps which exceed the limits for Risk Group 2 are in Group 3.		N/A
6.2	Pulsed lamps		N/A
	Pulse lamp criteria shall apply to a single pulse and to any group of pulses within 0,25 s.		N/A
	A pulsed lamp shall be evaluated at the highest nominal energy loading as specified by the manufacturer.		N/A
	The risk group determination of the lamp being tested shall be made as follows:		N/A
	– a lamp that exceeds the exposure limit shall be classified as belonging to Risk Group 3 (High-Risk)		N/A
	– for single pulsed lamps, a lamp whose weighted radiant exposure or weighted radiance does is below the EL shall be classified as belonging to the Exempt Group		N/A
	– for repetitively pulsed lamps, a lamp whose weighted radiant exposure or weighted radiance dose is below the EL, shall be evaluated using the continuous wave risk criteria discussed in clause 6.1, using time averaged values of the pulsed emission		N/A

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Clause	Requirement + Test	Result – Remark	Verdict
Table 4.1	Spectral weighting function for assessing ultraviolet hazards for skin and eye		P
Wavelength' λ , nm	UV hazard function $S_{uv}(\lambda)$	Wavelength λ , nm	UV hazard function $S_{uv}(\lambda)$
200	0,030	313*	0,006
205	0,051	315	0,003
210	0,075	316	0,0024
215	0,095	317	0,0020
220	0,120	318	0,0016
225	0,150	319	0,0012
230	0,190	320	0,0010
235	0,240	322	0,00067
240	0,300	323	0,00054
245	0,360	325	0,00050
250	0,430	328	0,00044
254*	0,500	330	0,00041
255	0,520	333*	0,00037
260	0,650	335	0,00034
265	0,810	340	0,00028
270	1,000	345	0,00024
275	0,960	350	0,00020
280*	0,880	355	0,00016
285	0,770	360	0,00013
290	0,640	365*	0,00011
295	0,540	370	0,000093
297*	0,460	375	0,000077
300	0,300	380	0,000064
303*	0,120	385	0,000053
305	0,060	390	0,000044
308	0,026	395	0,000036
310	0,015	400	0,000030

* Wavelengths chosen are representative: other values should be obtained by logarithmic interpolation at intermediate wavelengths.
Emission lines of a mercury discharge spectrum.

EN 62471:2008			
Clause	Requirement + Test	Result – Remark	Verdict
Table 4.2	Spectral weighting functions for assessing retinal hazards from broadband optical sources		P
Wavelength nm	Blue-light hazard function B (λ)	Burn hazard function R (λ)	
300	0,01		
305	0,01		
310	0,01		
315	0,01		
320	0,01		
325	0,01		
330	0,01		
335	0,01		
340	0,01		
345	0,01		
350	0,01		
355	0,01		
360	0,01		
365	0,01		
370	0,01		
375	0,01		
380	0,01	0,1	
385	0,013	0,13	
390	0,025	0,25	
395	0,05	0,5	
400	0,10	1,0	
405	0,20	2,0	
410	0,40	4,0	
415	0,80	8,0	
420	0,90	9,0	
425	0,95	9,5	
430	0,98	9,8	
435	1,00	10,0	
440	1,00	10,0	
445	0,97	9,7	
450	0,94	9,4	
455	0,90	9,0	
460	0,80	8,0	
465	0,70	7,0	
470	0,62	6,2	
475	0,55	5,5	
480	0,45	4,5	
485	0,40	4,0	
490	0,22	2,2	
495	0,16	1,6	
500-600	$10^{[(450-\lambda)/50]}$	1,0	
600-700	0,001	1,0	
700-1050		$10^{[(700-\lambda)/500]}$	
1050-1150		0,2	
1150-1200		$0,2 \cdot 10^{0,02(1150-\lambda)}$	
1200-1400		0,02	

EN 62471:2008					
Clause	Requirement + Test			Result – Remark	Verdict
Table 5.4	Summary of the ELs for the surface of the skin or cornea (irradiance based values)				P
Hazard Name	Relevant equation	Wavelength range (nm)	Exposure duration (sec)	Limiting aperture rad (deg)	EL in terms of constant irradiance ($W \cdot m^{-2}$)
Actinic UV skin & eye	$E_S = \sum E_\lambda \cdot S(\lambda) \cdot \Delta\lambda$	200 – 400	< 30000	1,4 (80)	30/t
Eye UV-A	$E_{UVA} = \sum E_\lambda \cdot \Delta\lambda$	315 – 400	≤ 1000 > 1000	1,4 (80)	10000/t 10
Blue-light small source	$E_B = \sum E_\lambda \cdot B(\lambda) \cdot \Delta\lambda$	300 – 700	≤ 100 > 100	< 0,011	100/t 1,0
Eye IR	$E_{IR} = \sum E_\lambda \cdot \Delta\lambda$	780 – 3000	≤ 1000 > 1000	1,4 (80)	18000/t ^{0,75} 100
Skin thermal	$E_H = \sum E_\lambda \cdot \Delta\lambda$	380 – 3000	< 10	2π sr	20000/t ^{0,75}

Table 5.5 Summary of the ELs for the retina (radiance based values)					P
Hazard Name	Relevant equation	Wavelength range (nm)	Exposure duration (sec)	Field of view radians	EL in terms of constant radiance ($W \cdot m^{-2} \cdot sr^{-1}$)
Blue light	$L_B = \sum L_\lambda \cdot B(\lambda) \cdot \Delta\lambda$	300 – 700	0,25 – 10 10-100 100-10000 ≥ 10000	$0,011 \cdot \sqrt{(t/10)}$ 0,011 $0,0011 \cdot \sqrt{t}$ 0,1	$10^6/t$ $10^6/t$ $10^6/t$ 100
Retinal thermal	$L_R = \sum L_\lambda \cdot R(\lambda) \cdot \Delta\lambda$	380 – 1400	< 0,25 0,25 – 10	0,0017 $0,011 \cdot \sqrt{(t/10)}$	$50000/(\alpha \cdot t^{0,25})$ $50000/(\alpha \cdot t^{0,25})$
Retinal thermal (weak visual stimulus)	$L_{IR} = \sum L_\lambda \cdot R(\lambda) \cdot \Delta\lambda$	780 – 1400	> 10	0,011	6000/α

EN 62471:2008									
Clause	Requirement + Test			Result – Remark				Verdict	
Table 6.1	Emission limits for risk groups of continuous wave lamps ($\alpha=5.5$ mrad) Lamp classification group: <input checked="" type="checkbox"/> RG0 <input type="checkbox"/> RG1 <input type="checkbox"/> RG2 <input type="checkbox"/> RG3							P	
Risk	Action spectrum	Symbol	Units	Emission Measurement					
				Exempt		Low risk		Mod risk	
				Limit	Result	Limit	Result	Limit	Result
Actinic UV	SUV(λ)	Es	$W \cdot m^{-2}$	0.001	0.00e+00	0.003	0.00e+00	0.03	0.00e+00
Near UV		EUVA	$W \cdot m^{-2}$	0.33	0.00e+00	33	0.00e+00	100	0.00e+00
Blue light	B(λ)	LB	$W \cdot m^{-2} \cdot sr^{-1}$	--	--	--	--	--	--
Blue light, small source	B(λ)	EB	$W \cdot m^{-2}$	0.01	4.81e-04	1	2.64e-02	400	2.64e-02
Retinal thermal	R(λ)	LR	$W \cdot m^{-2} \cdot sr^{-1}$	5.12e+06	3.17e+03	5.12e+06	1.13e+04	1.30e+07	1.13e+04
Retinal thermal, weak visual stimulus**	R(λ)	LIR	$W \cdot m^{-2} \cdot sr^{-1}$	5.45e+05	0.00e+00	5.45e+05	0.00e+00	5.45e+05	0.00e+00
IR radiation, eye	--	EIR	$W \cdot m^{-2}$	100	0.00e+00	570	0.00e+00	3200	0.00e+00
Skin thermal	--	Eh	$W \cdot m^{-2}$	3.56e+03	1.53e-01	--	--	--	--
* Small source defined as one with $\alpha < 0.011$ radian. Averaging field of view at 10000 s is 0.1 radian. ** Involves evaluation of non-GLS source.									

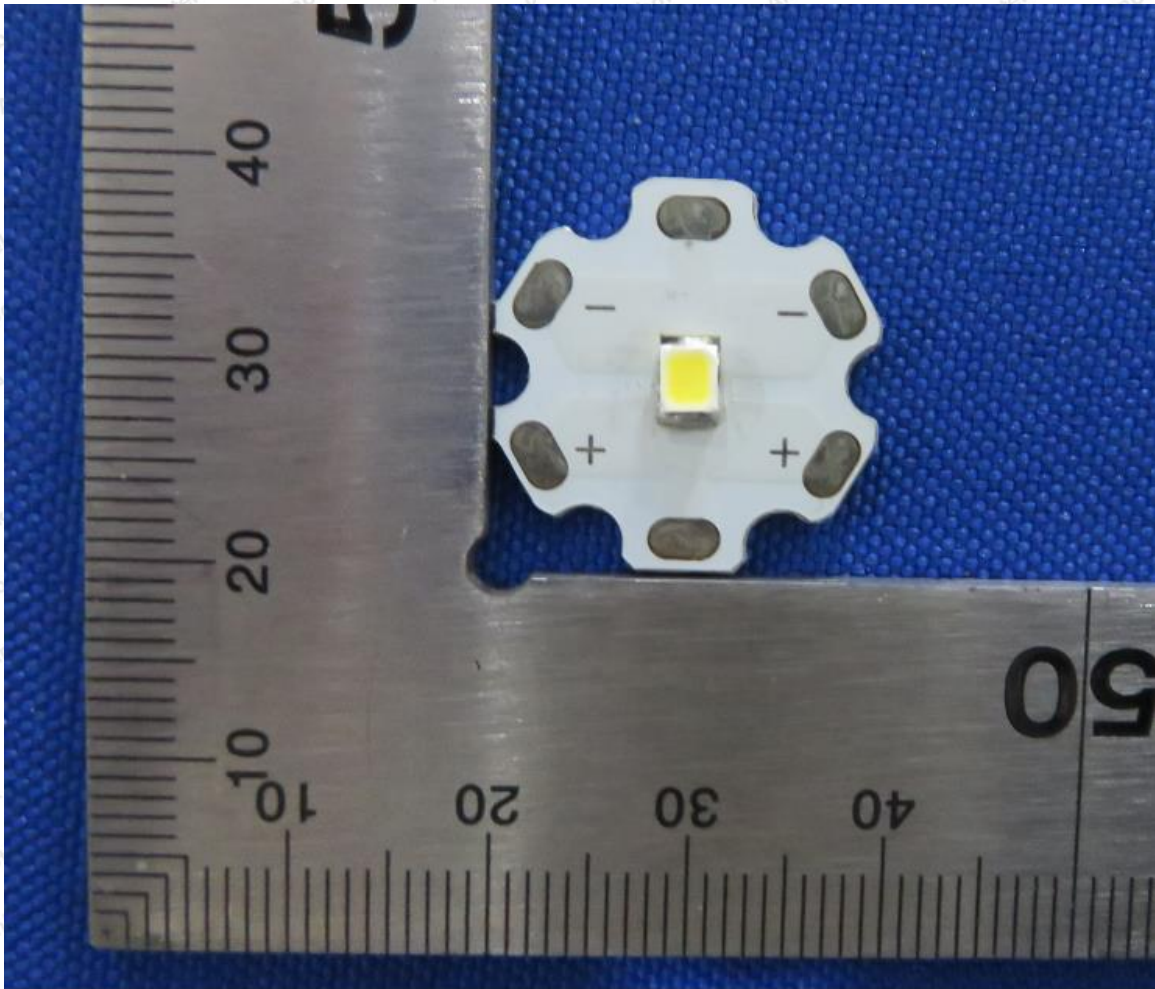
Measurement Uncertainty Statement:

- EB, Urel=2.52% (k=2)
- EUVA, Urel=2.52% (k=2)
- EIR, Urel=2.52% (k=2)
- Eh, Urel=2.52% (k=2)
- Es, Urel=15.14% (k=2)
- LB, Urel=2.84% (k=2)
- LR, Urel=2.84% (k=2)
- LIR, Urel=2.84% (k=2)

Test Equipment

Equipment Name	Manufacturer	Model No.	Reference No.	Calibration Due Date
Light Radiation Safety Test System	LINKCOLOR	LRS-104	SE-1164	2020-05-06
AC power source	LINKCOLOR	LCP-500R	SE-1192	2020-05-06
DC power supply	LINKCOLOR	M8874	SE-1193	2020-05-06
Digital Power Meter	YOKOGAMA	WT310	SE-1194	2020-05-06
Temperature & Humidity meter	Zhengzhou Boyang	HTC-1	SE-423	2020-05-06
Illuminance Standard Lamp	LINKCOLOR	LCL-100	SE-1195	2020-05-06
Brightness Standard Lamp	LINKCOLOR	LCL-200	SE-1196	2020-05-06
Deuterium Lamp	LINKCOLOR	LCL-300	SE-1197	2020-05-06
Illuminometer	LINKCOLOR	ST-80C	SE-1198	2020-05-06

Attachment A – Product Photo



*****END OF TEST REPORT*****