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## TEST REPORT EN 62471 Photobiological safety of lamps and lamp systems

Report Reference No..... EED31K000448

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Approved by (+ signature)...... Amo Liu

Date of issue...... Mar. 09, 2018

Testing Laboratory...... Centre Testing International Group Co., Ltd.

Address...... Hongwei Industrial Zone, Bao'an 70 District, Shenzhen,

Guangdong, China

Applicant's name...... Shenzhen Runlite Technology Co., Ltd

Address.....: Building A15, Tantou the 4th Industrial Estate, SongGang Town,

BaoAn District, Shenzhen, China

Manufacture'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...... Test report

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

Test Report Form No..... EN62471A

TTRF Originator.....: CTI

Master TRF...... Dated 2009-05

Test item description...... Flash Light LED

Model/Type reference..... EMC 2016

Ratings...... 150mA, 3.0V DC

Check No.: 2457547188

Supervisor





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Test item particulars:	
Tested lamp:	
Tested lamp system:	N/A
Lamp classification group	$\boxtimes$ exempt $\square$ risk 1 $\square$ risk 2 $\square$ risk 3
Lamp cap:	N/A
Bulb:	N/A
Rated of the lamp	See page 1
Furthermore marking on the lamp:	N/A
Seasoning of lamps according IEC standard	N/A
Used measurement instrument:	Lamps and lamp system Photobiological safety performance test systems
Temperature by measurement:	25.0℃
Information for safety use:	N/A
Possible test case verdicts:	
- test case does not apply to the test object	N/A
- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement	F (Fail)
Testing	(67)
Date of receipt of test item	Feb. 27, 2018
Date (s) of performance of tests	Mar. 05, 2018
General remarks:	
The test results presented in this report relate only to to This report shall not be reproduced, except in full, with laboratory.  "(See Enclosure)" refers to additional information app "(See appended table)" refers to a table appended to the	out the written approval of the Issuing testing rended to the report.
The tested sample(s) and the sample information are property Throughout this report a (comma) (point) is used as t	
When determining the test conclusion, the Measurem	ent Uncertainty of test has been considered.
General product information:	
The test current is 150mA.	























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Clause	Requirement – Test	Result - Remark	Verdict

4	EXPOSURE LIMITS		Р
4.1	General		Р
	The exposure limits in this standard is not less than 0,01ms and not more than any 8-hour period, and should be used as guides in the control of exposure,		Р
	Detailed spectral data of a light source are generally required only if the luminance of the source exceeds 10 <sup>4</sup> cd·m <sup>-2</sup> ,	luminance of the source exceeds 10 <sup>4</sup> cd·m <sup>-2</sup>	Р
4.3	Hazard exposure limits	(3)	P
4.3.1	Actinic UV hazard exposure limit for the skin and ey	ye	Р
	The exposure limit for effective radiant exposure is 30 J·m <sup>-2</sup> within any 8-hour period,		Р
	To protect against injury of the eye or skin from ultraviolet radiation exposure produced by a broadband source, the effective integrated spectral irradiance, E <sub>s</sub> , of the light source shall not exceed the levels defined by:		Р
	$E_{s} \cdot t = \sum_{200}^{400} \sum_{t} E_{\lambda}(\lambda, t) \cdot S_{UV}(\lambda) \cdot \Delta t \cdot \Delta \lambda \le 30$ J·m	2	P
	The permissible time for exposure to ultraviolet radiation incident upon the unprotected eye or skin shall be computed by:		Р
	$t_{\text{max}} = \frac{30}{E_{\text{s}}} \qquad \text{s}$		Р
4.3.2	Near-UV hazard exposure limit for the eye		Р
	For the spectral region 315nm to 400nm (UV-A) the total radiant exposure to the eye shall not exceed 10000 J·m <sup>-2</sup> for exposure times less than 1000s, For exposure times greater than 1000s (approximately 16 minutes) the UV-A irradiance for		P
	the unprotected eye, E <sub>UVA</sub> , shall not exceed 10 W· m <sup>-2</sup> ,		
	The permissible time for exposure to ultraviolet radiation incident upon the unprotected eye for times less than 1000s, shall be computed by:		Р













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	$t_{\text{max}} \le \frac{10000}{E_{\text{UVA}}} \qquad \text{s}$		Р
4.3.3	Retinal blue light hazard exposure limit	(5,6)	Р
	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, $B(\lambda)$ , i,e,, the blue light weighted radiance, $L_B$ , shall not exceed the levels defined by:		Р
	$L_{\rm B} \cdot t = \sum_{300}^{700} \sum_{t} L_{\lambda}(\lambda, t) \cdot B(\lambda) \cdot \Delta t \cdot \Delta \lambda \le 10^6 \text{ J} \cdot \text{m}^{-2} \cdot \text{sr}^{-2}$	for $t \le 10^4 \text{s}$ $t_{\text{max}} = \frac{10^6}{L_{\text{B}}}$	N/A
(5)	$L_{\rm B} = \sum_{300}^{700} L_{\lambda} \cdot B(\lambda) \cdot \Delta \lambda \le 100 \qquad \text{W·m}^{-2} \cdot \text{sr}^{-2}$	for t > 10 <sup>4</sup> s	P
4.3.4	Retinal blue light hazard exposure limit - small sour	rce	N/A
	Thus the spectral irradiance at the eye $E_{\lambda}$ , weighted against the blue-light hazard function $B(\lambda)$ (see Table 4.2) shall not exceed the levels defined by:		N/A
	$E_{B} \cdot t = \sum_{300}^{700} \sum_{t} E_{\lambda}(\lambda, t) \cdot B(\lambda) \cdot \Delta t \cdot \Delta \lambda \le 100 \text{ J} \cdot \text{m}^{-2}$	2	N/A
9	$E_{\rm B} = \sum_{300}^{700} E_{\lambda} \cdot B(\lambda) \cdot \Delta \lambda \le 1 $ W·m <sup>-2</sup>		N/A
4.3.5	Retinal thermal hazard exposure limit	400	Р
~	To protect against retinal thermal injury, the integrated spectral radiance of the light source, $L_{\lambda}$ , weighted by the burn hazard weighting function $R(\lambda)$ (from Figure 4.2 and Table 4.2), i,e,, the burn hazard weighted radiance, shall not exceed the levels defined by:		Р
5)	$L_{R} = \sum_{380}^{1400} L_{\lambda} \cdot R(\lambda) \cdot \Delta \lambda \le \frac{50000}{\alpha \cdot t^{0,25}} $ W·m <sup>-2</sup> ·sr	<sup>1</sup> (10μs ≤ t≤10s)	Р
4.3.6	Retinal thermal hazard exposure limit – weak visua	l stimulus	N/A
	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 (780nm to 1400nm) radiance, L <sub>IR</sub> , as viewed by the eye for exposure times greater than 10s shall be limited to:		N/A



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	1400 6000		N/A

/	$L_{\rm IR} = \sum_{780}^{1400} L_{\lambda} \cdot R(\lambda) \cdot \Delta \lambda \le \frac{6000}{\alpha} \qquad \qquad \text{W·m}^{-2} \cdot \text{sr}^{-1}  \text{for t > 10s}$	N/A
4.3.7	Infrared radiation hazard exposure limits for the eye	N/A
	To avoid thermal injury of the cornea and possible delayed effects upon the lens of the eye (cataractogenesis), ocular exposure to infrared radiation, $E_{IR}$ , over the wavelength range 780nm to 3000nm, for times less than 1000s, shall not exceed:	N/A
	$E_{\rm IR} = \sum_{780}^{3000} E_{\lambda} \cdot \Delta \lambda \le 18000 \cdot t^{-0.75}$ W·m <sup>-2</sup> for t \le 1000s	N/A
	For times greater than 1000s the limit becomes:	N/A
	$E_{\rm IR} = \sum_{780}^{3000} E_{\lambda} \cdot \Delta \lambda \le 100$ W·m <sup>-2</sup> for t > 1000s	N/A
4.3.8	Thermal hazard exposure limit for the skin	Р
	Visible and infrared radiant exposure (380nm to 3000nm) of the skin shall be limited to:	Р
:	$E_{H} \cdot t = \sum_{380}^{3000} \sum_{t} E_{\lambda}(\lambda, t) \cdot \Delta t \cdot \Delta \lambda \le 20000 \cdot t^{0,25} \qquad \qquad J \cdot m^{-2}$	Р
( (		(

5	MEASUREMENT OF LAMPS AND LAMP SYSTEMS		Р
5.1	Measurement conditions		Р
	Measurement conditions shall be reported as part of the evaluation against the exposure limits and the assignment of risk classification,		Р
5.1.1	Lamp ageing (seasoning)		N/A
(1)	Seasoning of lamps shall be done as stated in the appropriate IEC lamp standard,		N/A
5.1.2	Test environment		Р
	For specific test conditions, see the appropriate IEC lamp standard or in the absence of such standards, the appropriate national standards or manufacturer's recommendations,	Temperature maintained at 25 $\pm$ 1°C; Relative humidity maintained to less than 65%; Airflow minimized when measuring	Р
5.1.3	Extraneous radiation		Р



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Clause	Requirement – Test	Result - Remark	(3)	Verdict
	Careful checks should be made to ensure that extraneous sources of radiation and reflections do not add significantly to the measurement results,	(2)		Р
5.1.4	Lamp operation	(32)		Р
	Operation of the test lamp shall be provided in accordance with:			Р
	- the appropriate IEC lamp standard, or	250	12	Р
	- the manufacturer's recommendation	(F)	(0,4)	N/A
5.1.5	Lamp system operation			N/A
	The power source for operation of the test lamp shall be provided in accordance with:			N/A
(*)	- the appropriate IEC standard, or	(6,2)		N/A
	- the manufacturer's recommendation			N/A
5.2	Measurement procedure			Р
5.2.1	Irradiance measurements			Р
	Minimum aperture diameter 7mm,		0	Р
	Maximum aperture diameter 50mm,			Р
	The measurement shall be made in that position of the beam giving the maximum reading,			Р
	The measurement instrument is adequate calibrated,			Р
5.2.2	Radiance measurements			Р
5.2.2.1	Standard method			Р
	The measurements made with an optical system,		(0)	Р
	The instrument shall be calibrated to read in absolute incident radiant power per unit receiving area and per unit solid angle of acceptance averaged over the field of view (FOV) of the instrument,			P
5.2.2.2	Alternative method			Р
	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,		(in	Р
5.2.3	Measurement of source size			Р













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	The determination of $\alpha$ , the angle subtended by a source, requires the determination of the 50% emission points of the source,		Р
5.2.4	Pulse width measurement for pulsed sources	(30)	N/A
	The determination of $\Delta t$ , 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		Р
5.3.1	Weighting curve interpolations		Р
	To standardize interpolated values, use linear interpolation on the log of given values to obtain intermediate points at the wavelength intervals desired,	(ct)	P
5.3.2	Calculations		Р
	The calculation of source hazard values shall be performed by weighting the spectral scan by the appropriate function and calculating the total weighted energy,		Р
5.3.3	Measurement uncertainty		Р
	The quality of all measurement results must be quantified by an analysis of the uncertainty,	See Annex C in the norm	Р
)		6.	10
6	LAMP CLASSIFICATION		Р
	For the purposes of this standard it was decided that the values shall be reported as follows:	see table 6.1	Р
	- for lamps intended for general lighting service (GLS), see definition 3,11, 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 200mm	200mm	Р
	- for all other light sources, including pulsed lamp sources, the hazard values shall be reported at a distance of 200mm		N/A
6.1	Continuous wave lamps		Р
6.1.1	Exempt group		Р
	In the exempt group is the lamp, which does not pose any photobiological hazard, This requirement is met by any lamp that does not pose:		Р
	- an actinic ultraviolet hazard (E <sub>s</sub> ) within 8-hours exposure (30000s), nor	(4)	Р
1	(63)	10.9	- 10

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	- a near-UV hazard (E <sub>UVA</sub> ) within 1000s (about 16min), nor		Р
	- a retinal blue-light hazard (L <sub>B</sub> ) within 10000 s (about 2,8 h), nor	(24)	P
/	- a retinal thermal hazard (L <sub>R</sub> ) within 10s, nor		Р
	- an infrared radiation hazard for the eye (E <sub>IR</sub> ) within 1000s		Р
6.1.2	Risk Group 1 (Low-Risk)	(3)	N/A
	In this group is the lamp, which exceeds the limits for the Exempt Group but that does not pose:		N/A
0	- an actinic ultraviolet hazard (E <sub>s</sub> ) within 10000s, nor	(i)	N/A
	- a near ultraviolet hazard (E <sub>UVA</sub> ) within 300s, nor		N/A
	- a retinal blue-light hazard (L <sub>B</sub> ) within 100s, nor		N/A
	- a retinal thermal hazard (L <sub>R</sub> ) within 10s, nor		N/A
	- an infrared radiation hazard for the eye (E <sub>IR</sub> ) within 100s		N/A
9	Lamps that emit infrared radiation without a strong visual stimulus and do not pose a near-infrared retinal hazard (L <sub>IR</sub> ), within 100s are in Risk Group 1,		N/A
3.1.3	Risk Group 2 (Moderate-Risk)		N/A
	This requirement is met by any lamp that exceeds the limits for Risk Group 1 (Low-Risk), but that does not pose:	**	N/A
	- an actinic ultraviolet hazard (E <sub>s</sub> ) within 1000s exposure, nor		N/A
	- a near ultraviolet hazard (E <sub>UVA</sub> ) within 100s, nor		N/A
	- a retinal blue-light hazard (L <sub>B</sub> ) within 0,25s (aversion response), nor		N/A
	- a retinal thermal hazard (L <sub>R</sub> ) within 0,25s (aversion response), nor	(6)	N/A
	- an infrared radiation hazard for the eye (E <sub>IR</sub> ) within 10s	1:5	N/A
	Lamps that emit infrared radiation without a strong visual stimulus and do not pose a near infrared retinal hazard (L <sub>IR</sub> ) within 10s are in Risk Group 2,		N/A
5.1.4	Risk Group 3 (High-Risk)		N/A



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	I amps which exceed the limits for F	Risk Group 2 are	N/A

	Lamps which exceed the limits for Risk Group 2 are		N/A
	in Risk Group 3,		
6.2	Pulsed lamps		N/A
	Pulsed lamp criteria shall apply to a single pulse and to any group of pulses within 0,25s,	Continuous wave lamps	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
)	<ul> <li>for single pulsed lamps, a lamp whose weighted radiant exposure or weighted radiance dose is below the EL shall be classified as belonging to the Exempt Group</li> </ul>		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					

		g ultraviolet hazards for skii	
Wavelength¹ λ, nm	UV hazard function S <sub>UV</sub> (λ)	Wavelength λ, nm	UV hazard function S <sub>UV</sub> (λ)
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

<sup>&</sup>lt;sup>1</sup> Wavelengths chosen are representative: other values should be obtained by logarithmic interpolation at intermediate wavelengths,

<sup>\*</sup> Emission lines of a mercury discharge spectrum,













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Clause	Requirement – Test	Resu	ılt - Remark	Verdict				

Table 4.2	Spectral weighting fur sources	ctions for assessing retinal hazards fro	om broadband optical P			
Wavelength nm		Blue-light hazard function B(λ)	Burn hazard function R(λ)			
1	300	0,01	<u> </u>			
	305	0,01				
	310	0,01				
	315	0,01	1-7			
-	320	0,01	-60			
- (2	325	0,01	<u> </u>			
- /	330	0,01				
	335	0,01	<del></del>			
	340	0,01				
	345	0,01				
	350	0,01				
-	355	0,01	(65) (7			
_	360	0,01	(G) (			
	365	0,01				
	370	0,01				
	375	0,01	0,1 0,13 0,25			
	380	0,01				
- 6	385	0,013				
	390	0,025				
395 400		0,05	0,5 1,0			
		0,10				
	405	0,10	2,0 4,0			
	410	0,40				
- 4	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-λ)/50]	1,0			
(2	600-700	0,001	1,0			
10	700-1050	- 6	10 <sup>[(700-\)/500]</sup>			
	1050-1150		0,2			
	1150-1200		0,2×10 <sup>0,02(1150-λ)</sup>			
	1200-1400		0,02			



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Table 5.4	Summary of the ELs for the surface of the skin or cornea (irradiance based values)							
Hazard Name		Relevant equation	Wavelength range nm	Exposure duration sec	Limiting aperture rad (deg)	irra	terms of nstant diance	
Actinic UV skin & eye	0 110	$E_{\rm s} = \sum E_{\lambda} \cdot S(\lambda) \cdot \Delta \lambda$	200 – 400	< 30000	1,4 (80)		30/t	
Eye UV-A	9	$E_{UVA} = \sum E_{\lambda} \cdot \Delta \lambda$	315 – 400	≤1000 >1000	1,4 (80)	10	000/t 10	
Blue-light small source	;	$E_{\rm B} = \sum E_{\lambda} \cdot B(\lambda) \cdot \Delta \lambda$	300 – 700	≤100 >100	< 0,011	1	00/t 1,0	
Eye IR		$E_{IR} = \sum E_{\lambda} \cdot \Delta \lambda$	780 –3000	≤1000 >1000	1,4 (80)		00/t <sup>0,75</sup> 100	
Skin thermal		$E_{H} = \sum E_{\lambda} \cdot \Delta \lambda$	380 – 3000	< 10	2π sr	200	00/t <sup>0,75</sup>	

Table 5.5	Sum	mary of the ELs fo	r the retina (radiar	nce based values)			Р
Hazard Name  Blue light		Relevant equation	Wavelength range nm	Exposure duration sec	Field of view radians	con	erms of stant iance
		$L_{\rm B} = \sum L_{\lambda} \cdot B(\lambda) \cdot \Delta \lambda$	300 – 700	0,25 - 10		10	10 <sup>6</sup> /t 10 <sup>6</sup> /t 10 <sup>6</sup> /t 100
Retinal ther	mal	$L_{R} = \sum L_{\lambda} \cdot R(\lambda) \cdot \Delta \lambda$	380 – 1400	< 0,25 0,25 – 10	0,0017 0,011·√(t/10)		$/(\alpha \cdot t^{0,25})$ $/(\alpha \cdot t^{0,25})$
Retinal thermal (weak visual stimulus)		$L_{\rm IR} = \sum L_{\lambda} \cdot R(\lambda) \cdot \Delta \lambda$	780 – 1400	> 10	0,011	600	00/α



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Table 6.1	Emission lin	nits for risk (	groups of continuou	s wave lamps (based	on EU Directiv	e 2006/25/E0	C)		Р
Diek	Action	on Ot	11	Emission limits					
Risk	spectrum	Symbol	Units	Exempt	Result	Low risk	Result	Mod risk	Result
Actinic UV	Sυv(λ)	Es	W·m⁻²	0,001	8,793E-08	0,003	(4)	0,03	
Near UV		E <sub>UVA</sub>	W·m⁻²	0,33	1,857E-03	33		100	
Blue light	Β(λ)	L <sub>B</sub>	W·m <sup>-2</sup> ·sr <sup>-1</sup>	100	7,841E+01	10000		4000000	
Blue light. small source	Β(λ)	E <sub>B</sub>	W·m <sup>-2</sup>	0,01	-	1,0			
Retinal thermal	R(λ)	L <sub>R</sub>	W·m <sup>-2</sup> ·sr <sup>-1</sup>	28000/α	7,039E+04	28000/α		71000/α	
Retinal thermal.	D()		M 2 1	545000 0,0017≤α≤0,011	0,000E+00				
weak visual stimulus**	R(λ)	L <sub>IR</sub>	W·m <sup>-2</sup> ·sr <sup>-1</sup>	6000/α 0,011≤α≤0,1	<u></u>				
IR radiation. eye		E <sub>IR</sub>	W·m <sup>-2</sup>	100	1,258E+00	570	(c <del>.4</del> 1)	3200	

<sup>\*</sup> Small source defined as one with  $\alpha$  < 0,011radian, Averaging field of view at 10000 s is 0,1radian

NOTE Angular subtense of apparent source: a = 3,53 mrad











<sup>\*\*</sup> Involves evaluation of non-GLS source



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## **Photo Document**

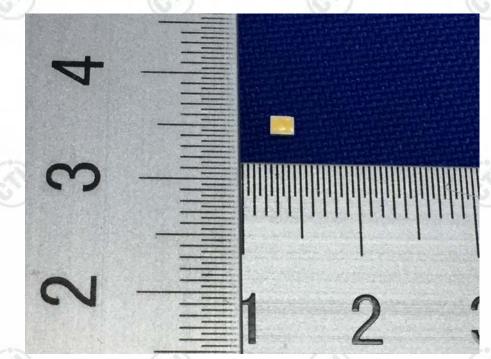


Fig. 1 - Overall view of the sample

## \*\*\* End of Report \*\*\*

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