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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

Shenzhen Anbotek Pengcheng Compliance Laboratory Limited

Address: Zone B, 1/F., Building 2, Hengchangrong High–Tech Industrial Park, Huangtian, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com





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Anbotek Anbotek Anbotek	TEST REPORT EN 62471:2008 gical Safety of Lamps and Lamp Systems
Report Reference No: Tested by (printed name + signature):	PCANL191022007-01 Ocean Deng Deng Deng Deng
Supervised by (printed name + signature):	Ocean Deng Rean lang Flora Zhang Flora Zhang Anbotek Poduet Salety * Approved *
Testing Laboratory Address Testing location	Shenzhen Anbotek Pengcheng Compliance Laboratory Limited Zone B, 1/F., Building 2, Hengchangrong High- Tech Industrial Park, Huangtian, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Same as above
Applicant's Name: Address	ShenZhen Runlite Technology Co.,Ltd Building A15,Tantou the 4th Industrial Estate,SongGang Town,Baoan District,ShenZhen,China
Test Specification: Standard	EN 62471:2008
Test procedure: Non-standard test method:	Type Test N/A
Test Item Description Trade Mark	N/A http://www.phonest http://www.phonest
Manufacturer	ShenZhen Runlite Technology Co.,Ltd Building A15,Tantou the 4th Industrial Estate,SongGang Town,Baoan
Address:	District, ShenZhen, China

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.

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

Summary of Compliance with National Differences:

Report No.: PCANL191022007-01

N/A

N/A

Copy of Marking Plate:

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Test Item Particulars:	
Tested lamp:	Continuous wave lamps
Tested lamp system:	N/A
Lamp classification group:	RG0 Exempt
	RG1 Low Risk
	RG2 Moderate Risk
Lating can abotek Amboten Andre Andre A	RG3 High Risk
Lamp cap:	N/A SMD LED
Test item description: Rated of the lamp:	9VDC, 0.9W
100 M	9VDC, 0.9W
Possible Test Case Verdicts:	all the second sec
Test case does not apply to the test object:	and and and
Test object does meet the requirement:	
Test object does not meet the requirement	F (Fail)
Testing:	
Ambient temperature of tested	
Test inputs:	9 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, wit	hout the written approval of the Issuing testing
laboratory. "(See Enclosure #)" refers to additional information a	opended to the report
"(See appended table)" refers to a table appended to	i oter nor
Throughout this report a point is used as the decimal	separator.
List of test equipment must be kept on file and availa	ble for review.
AN NOT DI	
General Product Information:	
General Product Information: X2835X-W64SXXXXDXXXX-XXXX and X2835X-WX	xxxxxxxxxxxxxxxxxx

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	EN 62471:2008		
lause	Requirement + Test	Result – Remark	Verdict
Anbotek Anbotek Anbotek	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, LB, shall not exceed the levels defined by:	Anborek Anborek Anborek	N/A
ek Ar	$L_{B} \cdot t = \sum_{\substack{300 \\ t}}^{700} \sum_{t} L_{\lambda}(\lambda, t) \cdot B(\lambda) \cdot \Delta t \cdot \Delta \lambda \le 10^6 \qquad J \cdot m^{-2} \cdot sr^{-1}$	Anbotek Anbotek Anb	N/A
	$L_{\rm B} = \sum_{300}^{700} L_{\lambda} \cdot B(\lambda) \cdot \Delta \lambda \le 100 \qquad \qquad {\rm W} \cdot {\rm m}^{-2} \cdot {\rm sr}^{-1}$	Anbotek Anbote A	N/A
.3.4	Retinal blue light hazard exposure limit - small source	K abote Ane	P
Anbotak	Thus the spectral irradiance at the eye E λ , weighted against the blue-light hazard function B(λ) shall not exceed the levels defined by:100s	otek Anbotek Anbotek	PP Ant
k bu	$E_{\rm B} \cdot t = \sum_{300}^{700} \sum_{t} E_{\lambda}(\lambda, t) \cdot B(\lambda) \cdot \Delta t \cdot \Delta \lambda \le 100 \qquad {\rm J} \cdot {\rm m}^{-2}$	Anbotek Anbotek Anbo	ten P
	$E_{\rm B} = \sum_{300}^{700} E_{\lambda} \cdot B(\lambda) \cdot \Delta \lambda \le 1 \qquad \qquad {\rm W} \cdot {\rm m}^{-2} {\rm e}^{-2}$	Anbotek Anbotek	Anbore
.3.5	Retinal thermal hazard exposure limit	stek unboro	P
Anbo	To protect against retinal thermal injury, the integrated spectral radiance of the light source, $L\lambda$, weighted by the burn hazard weighting function $R(\lambda)$	nbotek Anbotek Anbotek	PAnt
	(from Figure 4.2 and Table 4.2), i.e., the burn hazard weighted radiance, shall not exceed the levels defined by:	Anbotek Anbotek An	potek
nbotek	$L_{R} = \sum_{380}^{1400} L_{\lambda} \cdot R(\lambda) \cdot \Delta \lambda \leq \frac{50000}{\alpha \cdot t^{0,25}} \qquad W \cdot m^{-2} \cdot sr^{-1}$	Ann Anbotek Anbotek	Anb P Anbote
3.6	Retinal thermal hazard exposure limit - weak visual s	timulus	Pop
Anbote Anb	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:	Anbotek	ek P Jotek Anbotek
	$L_{\rm HR} = \sum_{780}^{1400} L_{\lambda} \cdot R(\lambda) \cdot \Delta \lambda \le \frac{6000}{\alpha} \qquad W \cdot {\rm m}^{-2} \cdot {\rm sr}^{-1}$	ek Anbotek Anbotek	AntPren
.3.7	Infrared radiation hazard exposure limits for the eye	tothe aboten Anbo	Р
ek Anbr	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:	Anbotek	otek
Anbotek	$E_{\rm IR} = \sum_{780}^{3000} E_{\lambda} \cdot \Delta \lambda \le 18000 \cdot t^{-0,75} \qquad \rm W \cdot m^{-2}$	ek Anbotek Anbotek	An P

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Clause	Requirement + Test	Result – Remark	Verdict
unbotek	$E_{\rm IR} = \sum_{\lambda=0}^{3000} E_{\lambda} \cdot \Delta \lambda \le 100 \qquad \rm W \cdot m^{-2}$	Anbotek Anbotek	Anbotek
100	780	K Anbor An	- Doote
4.3.8	Thermal hazard exposure limit for the skin	where the parties of the second second	
	Visible and infrared radiant exposure (380 nm to 3000 nm) of the skin shall be limited to:	anbotek Anbotek Anbote	otek pant
pter p	$E_{H} \cdot t = \sum_{380}^{3000} \sum_{t} E_{\lambda}(\lambda, t) \cdot \Delta t \cdot \Delta \lambda \le 20000 \cdot t^{0,25} \qquad J \cdot m^{-2}$	Anboten Anbotek	nbotek
5	MEASUREMENT OF LAMPS AND LAMP SYSTEM	S And K sotek	Aup
5.1	Measurement conditions	at abote Ant	Pote
Anbotel	Measurement conditions shall be reported as part of the evaluation against the exposure limits and the assignment of risk classification.	otek Anbotek Anbote	Anb
5.1.1	Lamp ageing (seasoning)	abore Ant alk abo	N/A
yek p	Seasoning of lamps shall be done as stated in the appropriate IEC lamp standard.	Anbotek Anboir An	N/A
5.1.2	Test environment	anboten And	P
	For specific test conditions, see the appropriate IEC lamp standard or in absence of such standards, the appropriate national standards or manufacturer's	Anbotek Anbotek	Ante P Anbotel
And	recommendations.	Her And	Anb
5.1.3	Extraneous radiation	stek unbote. And	N P
	Careful checks should be made to ensure that extraneous sources of radiation and reflections do not add significantly to the measurement results.	Anbotek Anbotek Anbo	pot ^{ek}
5.1.4	Lamp operation	Anboro Ann	P
Anbotek	Operation of the test lamp shall be provided in accordance with:	Anbotek Anbois	An Pek
	 the appropriate IEC lamp standard, or 	rek unboten Ano-	N/A
Anbot	- the manufacturer's recommendation	hotek Anbotek Anbore	Р
5.1.5	Lamp system operation	all shotely Anbo	Р
ntek An	The power source for operation of the test lamp shall be provided in accordance with:	Anboic Ann Anbotek An	pot ^{en} P
	- the appropriate IEC standard, or	Anbe ok botek	N/A
inbone tek	 the manufacturer's recommendation 	Anboas Alle abotek	AntProt
5.2	Measurement procedure	tek Anbo Atek	Ploo
5.2.1	Irradiance measurements	all shotek Anbo	Р
bur.	Minimum aperture diameter 7mm.	por All sek abot	Ppr
r por	Maximum aperture diameter 50 mm.	spotek Anbo, Ai	Vet P
otek	The measurement shall be made in that position of the beam giving the maximum reading.	Annotek Anbotek Ant	P P
nbotek	The measurement instrument is adequate calibrated.	Anbotek Anbore	Ante P
5.2.2	Radiance measurements	k botek Anbo	Р
5.2.2.1	Standard method	pin offer	P
	The measurements made with an optical system.	stek unbor Arr	P

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Clause	Requirement + Test	Result – Remark	Verdict
unbotek sbotek	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	Anbotek Anbotek	Pek
	field of view of the instrument.	rek abotek Anbotek	Anbo
5.2.2.2	Alternative method	Notek Anbotek Anbote	N/A
nbotek Ar	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.	Anbotek Anbotek Anbotek A	N/A
5.2.3	Measurement of source size	K aboren Anton K	P. N
Anbotek	The determination of α , the angle subtended by a source, requires the determination of the 50% emission points of the source.	otek Anbotek Anbote	AP
5.2.4	Pulse width measurement for pulsed sources	abotek Anibo A.	N/A
olt in	The determination of Δt , the nominal pulse duration	tek abotek prib	N/A
	of a source, requires the determination of the time during which the emission is $> 50\%$ of its peak value.	Anbotek Anbotek A	hoter
5.3	Analysis methods	K soboleh And	Rove,
5.3.1	Weighting curve interpolations	t stek unbote	P
Anbor	To standardize interpolated values, use linear interpolation on the log of given values to obtain intermediate points at the wavelength intervals desired.	nbotek Anbotek Anbotek Anbotek	PARIO e ^k p
5.3.2	Calculations	Aupor Au	P
Anbotek	The calculation of source hazard values shall be performed by weighting the spectral scan by the appropriate function and calculating the total weighted energy.	Anboliek Anbolek Anbolek Anbolek	AnbotP Anbotel
5.3.3	Measurement uncertainty	Arr Lek aboten	Pup.
Anboi	The quality of all measurement results must be quantified by an analysis of the uncertainty.	botek Anbor stek Anbor	× P
6 Ant	Lamp Classification	Anboten Anbo stek ni	ootek P
joten I	For the purposes of this standard it was decided that the values shall be reported as follows:	Anboter Anbotek	AnbottP
	 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=302mm	AntP
otek p	 for all other light sources, including pulsed lamp sources, the hazard values shall be reported at a distance of 200 mm 	Anbotek Anbotek Ant	N/A
6.1	Continuous wave lamps	Anbo, put	AnbP
6.1.1	Risk Group 0 (Exempt)	et oboten Anto	P
Anbotek	In the except group are lamps, which does not pose any photobiological hazard. The requirement is met by any lamp that does not pose:	otek Anbotek Anbotek	PP

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Clause	Requirement + Test	Result – Remark	Verdict
Anbotek	 an actinic ultraviolet hazard (ES) within 8-hours exposure (30000 s), nor 	Anbotek Anbotek Anbotek Anbotek	Anbotek
Anbote Anb	 a near-UV hazard (EUVA) within 1000 s, (about 16 min), nor 	ortek Anborek Anborek Anbore	P Anbo
otek p	 a retinal blue-light hazard (LB) within 10000 s (about 2,8 h), nor 	Anbotek Anbotek Anbotek	nbotelP Anbotek
Anbore	- a retinal thermal hazard (LR) within 10 s, nor	ak Anborn Ann Ant	Poten
Anboro	 an infrared radiation hazard for the eye (EIR) within 1000 s 	otek Anbolek Anbotek	PAnbot
6.1.2	Risk Group 1 (Low-Risk)	Anboi Air stek ab	N/A 🗠
	In this group are lamps, which exceeds the limits for the except group but that does not pose:	Anbotek Anbo	N/A
nbotek	 an actinic ultraviolet hazard (ES) within 10000 s, nor 	Anbotek Anbotek	N/A
Anbotek	 a near ultraviolet hazard (EUVA) within 300 s, nor 	ntek Anbotek Anbotek	N/A
Anbo	- a retinal blue-light hazard (LB) within 100 s, nor	botek Anbor An	N/A N/A
tek Ar	- a retinal thermal hazard (LR) within 10 s, nor	hotek Anboien Anbo	N/A
botek	 an infrared radiation hazard for the eye (EIR) within 100 s 	Anbotek Anbotek Ar	N/A
Anbortek	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	rek Anbotek Anbotek	N/A
6.1.3	Risk Group 2 (Moderate-Risk)	nbote Ant tek nbot	N/A
en An	This requirement is met by any lamp that exceeds the limits for Risk Group 1, but that does not pose:	Anbotek Anbo potek An	N/A
	 an actinic ultraviolet hazard (ES) within 1000 s exposure, nor 	Anbortek Anborek	N/A
Anbotek	 a near ultraviolet hazard (EUVA) within 100 s, nor 	ek Anbotek Anbotek	N/A
Anbon ak Ant	 a retinal blue-light hazard (LB) within 0,25 s (aversion response), nor 	potek Anbor An	N/A
otek I	 a retinal thermal hazard (LR) within 0,25 s (aversion response), nor 	Anbotek Anbotek An	N/A
Anbotek	 an infrared radiation hazard for the eye (EIR) within 10 s 	Anbotek Anbo	N/A
Ann	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.	otek Anbotek Anbotek	N/A
6.1.4	Risk Group 3 (High-Risk)		N/A

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Clause	Requirement + Test	Result – Remark	Verdict		
Anbotek	Lamps which exceed the limits for Risk Group 2 are in Group 3.	Amborek Ambor	N/A		
6.2	Pulsed lamps	ek Anboten And	N/A		
Anbotes	Pulse lamp criteria shall apply to a single pulse and to any group of pulses within 0,25 s.	nbotek Anbotek Anbotek	N/A		
nbotek A	A pulsed lamp shall be evaluated at the highest nominal energy loading as specified by the manufacturer.	Anbotek Anbotek A	N/A		
Anboroutek	The risk group determination of the lamp being tested shall be made as follows:	Anboron Ant	N/A		
	 a lamp that exceeds the exposure limit shall be classified as belonging to Risk Group 3 (High- Risk) 	nbotek Anbotek Anbotek	N/A		
nbotek Anbotek	 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 	Anbole An Anbolek Anbolek A Anbolek Anbolek	N/A		
Anbotek Anbot tek An	 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 	nek Anbotek Anbotek Nootek Anbotek Anbotek Anbotek Anbotek Anbo	N/A		

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Clause Requiremen		Result – Remark	Verdic			
	ghting function for assessing	ultraviolet hazards for skin	and eye P			
Wavelength1UV hazard function λ , nm $S_{uv}(\lambda)$		Wavelength λ, nm	UV hazard function S _{υν} (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 March 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 Steel	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			

¹ Wavelengths chosen are representative: other values should be obtained by logarithmic interpolation at intermediate wavelengths.

Emission lines of a mercury discharge spectrum.

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Table 4.2		ctions for assessing retinal hazards fi	
1	Wavelength nm	Blue-light hazard function Β (λ)	Burn hazard function R (λ)
abote	300	0,01	aboten Ant
W	305	0,01	tek mbote An
AUDA	310	0,01	Anbo
40	315	0,01	K aboter Ant
. p.	320	0,01	tek abote.
noter	325	0,01	otek Anbo
-you	330	0,01	alk aboten Ano
Anbo,	335	0,01	inbon printer abote
hotek	340	0,01	hotek Anbo
bu.	345	0,01	An ak aboten And
Anbo.	350	0,01	Anbor An
1	355	0,01	k hotek Anbor P
Pro	360	0,01	Am boten
otek	365	0,01	stek Anbor An Lek
No.	370	0,01	the botek Anbo
anbore.	375	0,01	nborn Arn ok boten
otek	380	0,01	0,1
Ano	385	0,013	0,13
abor	390	0,025	0,25
	395	0,05	0,5
Pue	400	0,10	1,0 otek
Het.	405	0,20	2,0
e	410	0,40	4,0
boter	415	0,80	8,0
No.	420	0,90	9,0
Aupo	425	0,95	9,5
bote	430	0,98	9,8
Par	435	1,00	10,0
AND	440	1,00	10,0
-ak	445	0,97	9,7
0. P	450	0,94	9,4
hoten	455	0,90	9,0
Mar	460	0,80	8,0
anbor	465	0,70	7,0
Loter	470	0,62	6,2
bus.	475 M	0,55	5,5
anbo	480	0,45	4,5
N	485	0,40	4,0
Vo, b	490	0,22	2,2
Lotek	495	0.16	1,6
NP K	500-600	10 ^[(450-λ)/50]	1,0
anboron.	600-700	0,001	philling philling
tek	700-1050	let boten Anbo	10 ^[(700-λ)/500]
PUDD	1050-1150	tek abotet	0.2
100	1150-1200	hotek Anber Au	0,2 [·] 10 ^{0,02(1150-λ)}
- par	1200-1400	and aboten Anboi	0,02
OF NO	10 ok	ce Laboratory Limited	PC-EE-01-a

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EN 62471:2008						
Clause	Requirement + Test	PUP	Res	ult – Remark	.ex-	Verdict
Table 5.4	Summary of the ELs for values)	the surface of th	e skin or corne	a (irradiance bas	sed	Anbote
Hazard Name	Relevant equation	Wavelength range (nm)	Exposure duration (sec)	Limiting aperture rad (deg)	constant	erms of irradiance •m ⁻²)
Actinic UV skin & eye	$E_{S} = \sum E_{\lambda} \cdot S(\lambda) \cdot \Delta \lambda$	200 – 400	< 30000	1,4 (80)	iontek 3	60/t
Eye UV-A	$E_{UVA} = \sum E_{\lambda} \bullet \Delta \lambda$	315 – 400	≤ 1000 > 1000	1,4 (80)	P	000/t 10
Blue-light small source	$E_{B} = \sum E_{\lambda} \bullet B(\lambda) \bullet \Delta \lambda$	300 – 700	≤ 100 > 100	< 0,011	abo	00/t I,0
Eye IR	$E_{IR} = \sum E_{\lambda} \bullet \Delta \lambda$	780 –3000	≤ 1000 > 1000	1,4 (80)	CIO DI	00/t ^{0,75} 00
Skin thermal	$E_{H} = \sum E_{\lambda} \bullet \Delta \lambda$	380 – 3000	< 10	2π sr	2000	00/t ^{0,75}

Table 5.5	Summary of the ELs for	r the retina (radiar	nce based valu	es)	NOK P NO
Hazard Name	Relevant equation	Wavelength range (nm)	Exposure duration (sec)	Field of view radians	EL in terms of constant radiance (W•m ⁻² •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•√(t/10) 0,011 0,0011•√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•√(t/10)	50000/(a•t ^{0,25}) 50000/(a•t ^{0,25})
Retinal thermal (weak visual stimulus)	$L_{IR} = \sum L_{\lambda} \bullet R(\lambda) \bullet \Delta \lambda$	780 – 1400	> 10	0,011	6000/α

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EN 62471:20	800									
Clause	Requiremen	t + Test	Anbu		Re	sult – Rer	nark	-di-	Verdict	
Table 6.1	Emission limits for risk groups of continuous wave lamps (α=6.5 mrad) Lamp classification group: 🖾 RG0 🗌 RG1 🗌 RG2 🗌 RG3									
Risk	Action spectrum	Symbol	Units	Emission Measurement						
				Exempt		Low risk		Mod risk		
				Limit	Result	Limit	Result	Limit	Result	
Actinic UV	SUV(λ)	Es	W•m ⁻²	0.001	0.00e+00	0.003	0.00e+00	0.03	0.00e+00	
Near UV	Anbo'	EUVA	W•m ⁻²	0.33	0.00e+00	33	0.00e+00	100	0.00e+00	
Blue light	Β(λ)	o ^{tek} LB P	W•m⁻²•sr⁻¹	Anu	Ant	otek	Anbo.	Anb	otek - P	
Blue light, small source	Β(λ)	EB	W•m ⁻²	0.01	1.09e-03	Anbor Anbotek	7.62e-02	400	7.62e-02	
Retinal thermal	R(λ)	LR	W•m ⁻² •sr ⁻¹	4.31e+06	9.06e+03	4.31e+06	2.49e+04	1.09e+07	2.49e+04	
Retinal thermal, weak visual stimulus**	R(λ)	LIR	W•m ⁻² •sr ⁻¹	5.45e+05	0.00e+00	5.45e+05	0.00e+00	5.45e+05	0.00e+00	
IR radiation, eye	Anbotek	EIRotek	W•m ⁻²	100	0.00e+00	570	0.00e+00	3200	0.00e+00	
Skin thermal	Anbotek	Eh	W∙m-2	3.56e+03	3.36e-01	lek Ant	nbotek	Arbotek	Anbo	

* Small source defined as one with α < 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)

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PC-EE-01-a

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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	

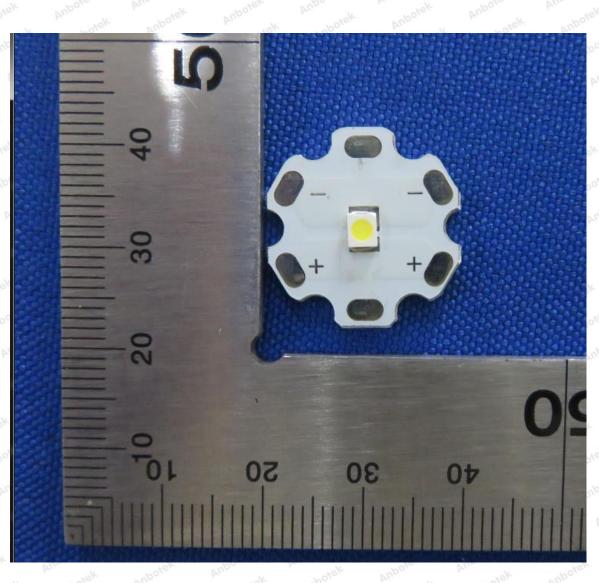
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Report No.: PCANL191022007-01 Attachment A – Product Photo



END OF TEST REPORT*

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