

Report No.: EED31J000375





	471 for the assessment of blue light hazard to the sources and luminaires			
Report Reference No	: EED31J000375			
Compiled by (+ signature)	Sain Chen			
Reviewed by (+ signature)				
Approved by (+ signature)	Amo Liu			
Date of issue	.: Feb. 28, 2017			
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			
Address Test specification:				
Test specification:				
Test specification:	BaoAn District, ShenZhen, China .: IEC TR 62778:2014 (Second Edition)			
Test specification: Standard	BaoAn District, ShenZhen, China IEC TR 62778:2014 (Second Edition) Test report			
Test specification: Standard Test procedure	BaoAn District, ShenZhen, China : IEC TR 62778:2014 (Second Edition) : Test report : N/A			
Test specification: Standard Test procedure Non-standard test method	BaoAn District, ShenZhen, China IEC TR 62778:2014 (Second Edition) Test report N/A IEC62778A			
Test specification: Standard Test procedure Non-standard test method Test Report Form No	BaoAn District, ShenZhen, China IEC TR 62778:2014 (Second Edition) Test report N/A IEC62778A CTI			
Test specification: Standard. Test procedure. Non-standard test method. Test Report Form No. TTRF Originator.	BaoAn District, ShenZhen, China .: IEC TR 62778:2014 (Second Edition) :: Test report :: N/A : IEC62778A : CTI : Dated 2016-02			
Test specification: Standard. Test procedure. Non-standard test method. Test Report Form No. TTRF Originator. Master TTRF.	BaoAn District, ShenZhen, China IEC TR 62778:2014 (Second Edition) Test report N/A IEC62778A CTI Dated 2016-02 SMD LED			
Test specification: Standard. Test procedure. Non-standard test method. Test Report Form No. TTRF Originator. Master TTRF. Test item description.	 BaoAn District, ShenZhen, China IEC TR 62778:2014 (Second Edition) Test report N/A IEC62778A CTI Dated 2016-02 SMD LED SMD LED 			
Test specification: Standard. Test procedure. Non-standard test method. Test Report Form No. TTRF Originator. Master TTRF. Test item description. Model/Type reference.	 BaoAn District, ShenZhen, China IEC TR 62778:2014 (Second Edition) Test report N/A IEC62778A CTI Dated 2016-02 SMD LED SMD LED 			



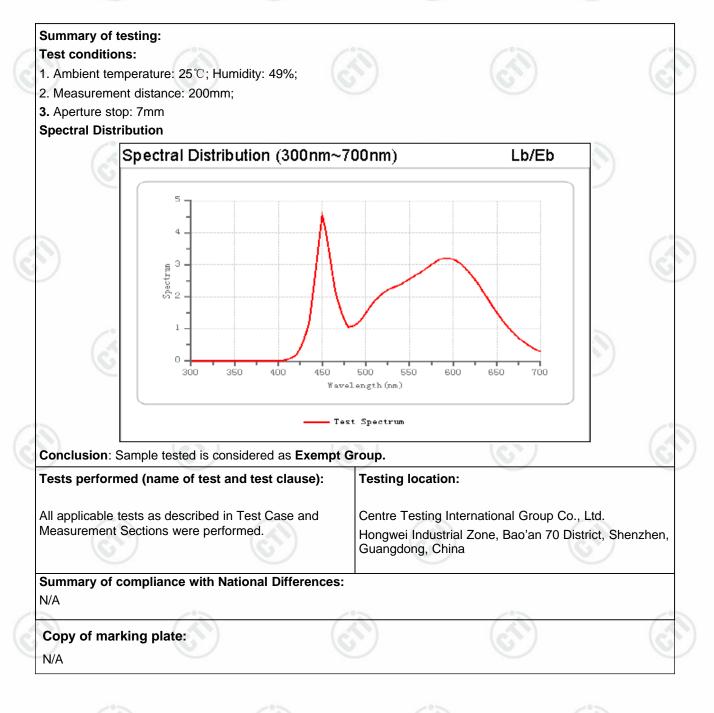




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	IEC TR	62778	
Clause Requirement + Te	est	Result - Remark	Verdict
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	IEC	C TR 62778	
Clause	Requirement + Test	Result - Remark	Verdict
6			

duct evaluated: LED package LED module LED module Lamp Luminaire ed voltage (V)			6
ed current (mA) : 60 ed CCT (K) : N/A ed Luminance (Mcd/m ²) : N/A nponent report data used : N/A LED package LED module LED module Lamp sible test case verdicts: et case does not apply to the test object : N/A et object does meet the requirement : P (Pass)	(A)	G	
ed Luminance (Mcd/m ²) : N/A nponent report data used : N/A LED package LED module LED module Lamp sible test case verdicts: at case does not apply to the test object : N/A at object does meet the requirement : P (Pass)	(A)		0.
nponent report data used: Not applicable LED package LED module Lamp sible test case verdicts: At case does not apply to the test object: N/A to bject does meet the requirement	(crit)		0
LED package LED module Lamp sible test case verdicts: at case does not apply to the test object: N/A to bject does meet the requirement P (Pass)	(T)	_^^>	(i)
at case does not apply to the test object N/A at object does meet the requirement P (Pass)		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
t object does meet the requirement P (Pass)			
t object does not meet the requirement . E (Epil)			
торестова погтнеет петечинентент г (гал)			
ting			
e of receipt of test item: Feb. 21, 2017			
e (s) of performance of tests Feb. 22, 2017	<u> </u>		6
eral remarks:			
e Enclosure #)" refers to additional information appended to the repue appended table)" refers to a table appended to the report. tested sample(s) and the sample information are provided by the clie bughout this report a \boxtimes comma / \square point is used as the decimal se	nt.		
ufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:	-075		
application for obtaining a CB Test Certificate udes more than one factory location and a aration from the Manufacturer stating that the ple(s) submitted for evaluation is (are) esentative of the products from each factory has n provided	(crit)		(i)
en differences exist; they shall be identified in the General produ	ct information	n section.	
ne and address of factory (ies): N/A		V	
eral product information:			
t current is 60mA DC.			







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	IEC TR 62778				
Clause	Requirement + Test	Result - Remark	Verdic		
7	MEASUREMENT INFORMATION FLOW		Р		
7.1	Basic flow		N/A		
9	'Law of conservation of luminance' applied		N/A		
)	Use of only true luminance/radiance values		N/A		
	In case of luminaire: The light source is operated in the luminaire under similar conditions as when tested as a component		N/A		
(In case E _{thr} value for RG2 was established the peak value was derived from angular light distribution		N/A		
7.2	Conditions for the radiance measurement				
9	Standard condition applied (200mm distance, 0,011rad field of view)		Р		
9	Non-standard condition applied	6	N/A		
7.3	Special cases (I): Replacement by a lamp or LED module of another type				
	Light source is a white light source		N/A		
(Evaluation done based on highest luminance		N/A		
9	Evaluation done based on CCT value		N/A		
7.4	Special cases (II): Arrays and clusters of primary light sources				
	LED package is evaluated as:	RG0 unlimitedRG1 unlimited	Р		
9	Ethr of LED package applies to array	(C)	N/A		
8	RISK GROUP CLASSIFICATION				
	Risk group achieved:		N/A		
(Risk Group 0 unlimited		Р		
(Risk Group 1 unlimited		N/A		
	- E _{thr} (lx) : Distance to reach RG1 (m) :				
	205 205	20%			

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		1	EC TR 627	78			
Clause	e Requirement + Test			Result - Remark Verdie			Verdict
	TABLE: Spectrorad	diometric me	asurement		/	\sim	Р
	Measurement performed on:			 LED package LED module Lamp Luminaire 			
	Model number			. SMD LED			
Test voltage (V)				3,0	2	1	
6	Test current (mA)			. 60 🕓	9	6	_
	Test frequency (Hz))	•••••	N/A			—
Ambient, t (°C)				.25			
Measuremen	Measurement dista	nce	\odot	. ⊠ 20 ci □ cr			
	Source size			⊠ Non-small □ Small : 17 mm		_	
	Field of view			⊠ 100 mrad □ 11 mrad □ 1,7 mrad (for small sources)			
Item		Symbol	Units		Re	Result	
Correlated colour temperature		CCT	К		(2)		
x/y colour coordinates		/			(\mathcal{C}^{*})		
Blue light	hazard radiance	L _B	W/(m ² •sr ¹)		2,75	2,755E+01	
Luminanc	e	L	cd/m ²		2,79	2,790E+06	
	~	<">>		10	~	25	

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