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Applicant :	Guangzhou Linong Lighting Technology Co., Ltd
Address :	BT03070-BT03071 Keying Rd, Guangzhou Sci-Tech Industry Park, Taihe Town Baiyun District, Guangzhou City, China
Name of sample :	LED STRIP
Receiving Date	2018-10-10
Test Date :	2018-10-15 to 2019-07-12
Test Location :	No.47-3, Zhushan Industrial Road, Dalong Street, Panyu District, Guangzhou, China
Test Method :	Refer to section 2 of the report
Testing Item :	TEST REPORT COMMISSION REGULATION (EU) No 1194/2012 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for directional lamps, light emitting diode lamps and related equipment AND COMMISSION DELEGATED REGULATION (EU) No 874/2012
Decision Rule	Refer to section 8 of the report
Conclusion	PASS

Signed for and on behalf of Shenzhen United Testing Technology Co.,Ltd



2019-07-24

Signatory Date

深圳市优耐检测技术有限公司 Shenzhen United Testing Technology Co.,Ltd.

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#### 1. Sample information

For samples, the information	tion	provided by the customer is as follows:	
Type of test object		LED STRIP	
Trademark	:	LNLED	
Model/type reference	÷	LNTS3XX120G0-M1-D12 (5000-5500K)	
Rated CCT		5000K	
Rating	:	12V~, 9W	
Sample Quantity	٩,	20pcs	
Manufacturer	:	Guangzhou Linong Lighting Technology Co., Ltd	
Manufacturer Address.	:	BT03070-BT03071 Keying Rd, Guangzhou Sci-Tech Industry Taihe Town Baiyun District, Guangzhou City, China	Park,

#### 2. Conclusion

For the purpose of assessing the conformity of the product with ecodesign requirements as set in regulation EU 1194/2012, the following standard has been used:

Measured parameter	Decision Rule	Conclusion
Luminous efficacy	EN 50285:1999 - Energy efficiency of electric lamps forhousehold use – Measurements methods	Р
Lamp lifetime	EN 60357:2003/A11:2016-Tungsten halogen lamps	Р
Lumen maintenance	(non-vehicle) - Performance specifications	Р
Lamp starting time	EN 60969:1993 + A1: 1993 + A2: 2000 - Starting time test	Р
Lamp warm-up time to 60% $\phi$	forSelf-ballasted lamps for general lighting services — Performance requirement	Р
UV radiation	systems - UV radiation measurement	Р
Lamp power factor	EN 61000-3-2:2014 -Electromagnetic compatibility (EMC) Part 3-2:Limits - Limits for harmonic current emissions (equipment	Р
Lamp caps	EN60061:1993 + All amendments up to A56:2017 - Lamp caps and holders together with gauges for the control of interchangeability and safety Part 1: Lamp caps	Р
Chromaticity Correlated Colour Temperature(Tc[K])	CIE 15:2004 - Colorimetry	Р
Luminance	CIE 18.2:1983 - The Basis of Physical Photometry	Р
Luminous flux	CIE 84:1989 - The Measurement of Luminous Flux	Р
Lamp Lumen Maintenance Factor (LLMF)	CIE 97:2005 - Maintenance of indoor electric lighting	Р
Lamp Survival Factor	systems	Р

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深圳市优耐检测技术有限公司

Shenzhen United Testing Technology Co.,Ltd.

广州市番禺区大龙街竹山村工业路 47-3(P.C. 511450) Tel:+86-20-39277769 Fax:+86-755-86180156

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### 3、Test item particulars:

Test item particulars:			
Stage	□Stage 1	□Stage 2 ■S	Stage 3
EUT type	■Lamp	LED Module	Equipment
Light source type		■LED □Halo	gen 🗌 Others
Directionality	Directional	■Non-directional	4.
Rated power(W)	9W		~
Rated luminous flux(Im)	720lm	4	<u>6</u>
Rated color temperature(CCT)	5000K		5
Rated color rendering(CRI)	>80		
Rated Lamp life time(h)	30000h	5	à
Rated Luminous efficiency(Im/W)	80 lm/W		1
Rated beam angle	1	E.	i.
Rated power factor	1	~	V.
Declared energy label	A+	- 1	
Declared number of switching cycles	10000	5	E.
Declared start up time(ms)	<500ms		~
Declared warm up times(s)	<2s	9,	_
Lamp dimming(yes/no)	No	~	12
V- 14		6	6.
Ambient temperature	<b>25.2℃</b>		5
Test voltage(s) (V)	DC12V		
Test Frequency (Hz)	2	in .	

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4. General remarks:

General remarks:		0	5
Possible test case verdicts	0	<sup>2</sup>	, ci
test case does not apply to the test object	: N(.A.)		
test object does meet the requirement	: P(ass)		5
test object does not meet the requirement	: F(ail)		نی
S S	in si		4
Throughout this report a point is used as the decima relate only to the object tested.	al separator. Th	ie test results prese	ented in this report
Summary of testing:	<i>.</i>		
1. All submitted models were tested according to Im (EU) No 874/2012.	plementation n	neasure EC 1194/2	012 and
2. The product meets the stage 3 requirement of the	e implementatio	on measure.	

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Clause	Requirement-Test	Result-Remark	Verdict
		A	
0.	General		5
0.1	Power source meets requirement of: Where no requirement stated in the relevant standards EN60969 requirement are to be applied accordingly.	N.	Ρ
0.2	Ambient condition met requirement of: Where no requirement stated in the relevant standards EN60969 requirement are to be applied accordingly.	تى ش	Ρ
0.3	Test are done under rated value unless otherwise stated or required.	53	Р
0.4	Sample		
	Number of sample used for tested	20 pcs for each model	Р
1.	ENERGY EFFICIENCY REQUIREMENTS	~	\
iz,	EEI <sub>rated</sub> =P <sub>cor</sub> / P <sub>ref</sub>	EEI <sub>rated</sub> = <u>0.15</u> (The average results can not vary from the declared values by more than 10%)	Ρ
	Corrected power P <sub>cor</sub> corrected from P <sub>rated</sub> based on following table:	P <sub>cor</sub> = <u>9.3</u> W	Р
	Average measured Input Power (W)	9.3W	Р
~	Correction factors	i.	-
	Scope of the correction	Corrected power (P <sub>cor</sub> )	Ν
	Lamps operating on external halogen lamp control gear	P <sub>rated</sub> *1.06	Ν
1	Lamps operating on external LED lamp control gear	P <sub>rated</sub> *1.10	Ν
	Fluorescent lamps of 16mm diameter (T5 lamps) and 4-pin single capped fluorescent lamps operating on external fluorescent lamp control gear	P <sub>rated</sub> *1.10	Ν
5	Other lamps operating on external fluorescent lamp control gear	$P_{rated} \times \frac{0.24\sqrt{\Phi_{uze}} + 0.0103\Phi_{uze}}{0.15\sqrt{\Phi_{uze}} + 0.0097\Phi_{uze}}$	Ν
	Lamps operating on external high-intensity discharge lamp control gear	P <sub>rated</sub> *1.10	N
	Compact fluorescent lamps with colour rendering index $\geq$ 90	P <sub>rated</sub> *0.85	Ν
	Lamps with anti-glare shield	P <sub>rated</sub> *0.80	Ν

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Clause	Requirement-Test			Result-Remark			Verdict	
			5				1	
					Φ <sub>use</sub>	= 787.01	lm	Р
2	Rated useful luminou	is flux Φ <sub>use</sub>			angl filam warr rate	le ≥ 90 nent lamp ming on	ps with a beam ° other than s and carrying a their packaging s flux in a 120°	
in in	12		ia.			nous flux	nal lamps: rated in a 90 ° cone	
	P <sub>ref</sub>		V			5		C)
0	For modules with $\Phi_u$ P <sub>ref</sub> =0.88 $\checkmark \Phi_{use}$ +0.04		ien:	é,	Pre	<sub>ef</sub> =63.24W	1	Р
	For modules with $\Phi_{use}$ P <sub>ref</sub> = 0.07341 $\Phi_{use}$	∍ ≥ 1300 lur	men:		6			N
	Maximum energy effi	ciency index		~	2		4,	
24	4	□Stage 1	4	□St	age 2	Stage	e 3 Measured	
	Mains-voltage filament lamps	If Φ <sub>use</sub> >45	0 lm:1.75	1.75		0.95		N
5	Other filament lamps	If $\Phi_{use} \le 45$ If $\Phi_{use} > 45$	450 lm:1.20 50 lm:0.95	0.95		0.95	. · · ·	N
	HID lamps	0.50		0.50		0.36	-	Ν
	Other lamps	0.50		0.50		0.20	0.24	Р
	Because P <sub>ref</sub> =0.88 √ Φ <sub>use</sub> +0.04 =94.87 EEI = P <sub>cor</sub> / P <sub>ref</sub> = 0.24 So, lamps shall b		a n class A		3	ż	in in	
2	Φ(lm)	Φ <sub>use</sub> (Im)	P <sub>cor</sub> (w)		F	o <sub>ref</sub>	EEI	Class
	787.01	787.01	9.3		63	3.13	0.15	A+

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Clause

Requirement-Test

**Result-Remark** 

Verdict

#### **REQUIREMENTS OF DIRECTIVE**

The energy efficiency class of light shall be determined on the basis of their energy efficiency index (EEI) as set out in Table.

Energy efficiency class	Energy efficiency index (EEI) for non-directional light	Energy efficiency index (EEI) for directional light
A++ (most efficient)	EEI ≤ 0,11	EEI ≤ 0,13
A+	0,11 < EEI ≤ 0,17	0,13 < EEI ≤ 0,18
A	0,17 < EEI ≤ 0,24	0,18 < EEI ≤ 0,40
В	0,24 < EEI ≤ 0,60	0,40 < EEI ≤ 0,95
С	0,60 < EEI ≤ 0,80	0,95 < EEI ≤ 1,20
D	0,80 < EEI ≤ 0,95	1,20 < EEI ≤ 1,75
E (least efficient)	EEI > 0,95	EEI > 1,75

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Clause	Requirement-Test	Result-Remark	Verdict
			15
2.	FUNCTIONALITY REQUIREMENTS		

Rated voltage:	DC12V	Rated wattage:	9W	Rated luminance flux	720lm	Rated Iuminous 80 Im/W efficiency
Test item	Test parameter		Test re	equirement	Result(P/	F) Record
	Power factor			>0.5	P	Table A
2	Start	ing time	<	<0.5 s	Р	Table B
3		arm-up time to 5%Φ	4	<2 s	P	Table B
<sup>4</sup> نحر	Colour	rendering	3	≥80	P	Table C
5	Premature failure rate		≤5.0%	at 1000h	Р	Table D
6	Number swiching before fa	g cycles	rate	(base on ed life 000)	Р	Table E
7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	rvival factor at 000h	کس ک	0.90	P	Table F
8		aitenance at 000h	2	≥0.80	P	Table G
9	Colour	consistency		<6	Р	Table G

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Clause	Requirement-Test	Result-Remark	Verdict
3.	PRODUCT INFORMATION REQUIREMENTS	ia i	
3. 3.1.	Product information requirements for Non-directional lam	os	Р
3.1.1	Information to be displayed on the lamp itself	in the second se	P
3.1.2	Information to be visibly displayed to end-users, prior to their purchase, on the packaging and on free access	2	Р
3.1.2.1	Nominal useful luminous flux displayed in a font at least twice as large as any display of the nominal lamp power;	1. 4	Р
3.1.2.2	Nominal life time of the lamp in hours (no longer than the rated life time);		Р
3.1.2.3	Colour temperature, as a value in Kelvins and also expressed graphically or in words;	2	S.P
3.1.2.4	Number of switching cycles before premature failure;	5	Р
3.1.2.5	Warm-up time up to 60 % of the full light output (may be indicated as 'instant full light' if less than 1	12	Р
3.1.2.6	A warning if the lamp cannot be dimmed or can be dimmed only on specific dimmers; in the latter case a list of compatible dimmers shall be also provided on the	15	N
3.1.2.7	If designed for optimum use in non-standard conditions (such as ambient temperature Ta $\neq$ 25 °C or specific thermal management is necessary), information on those conditions;	2	P
3.1.2.8	Lamp dimensions in millimeters (length and largest diameter);		Р
3.1.2.9	Nominal beam angle in degrees;	5	N
3.1.2.10	If the lamp's beam angle is $\ge 90^{\circ}$ and its useful luminous flux as defined in point 1.1 of this Annex is to be measured in a 120° cone, a warning that the lamp is not suitable for accent lighting;	<sup>c</sup> U	P
3.1.2.11	If the lamp cap is a standardized type also used with filament lamps, but the lamp's dimensions are different from the dimensions of the filament lamp(s) that the lamp is meant to replace, a drawing comparing the lamp's dimensions to the dimensions of the filament lamp(s) it replaces;	U 14	N
3.1.2.12	An indication that the lamp is of a type listed in the first column of Table 6 may be displayed only if the luminous flux of the lamp in a 90° cone ( $\Phi$ 90°) is not lower than the reference luminous flux indicated in Table 6 for the smallest wattage among the lamps of the type concerned. The reference luminous flux shall be multiplied by the correction factor in Table 7. For LED lamps, it shall be in addition multiplied by the	5	N

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Clause	Requirement-Test	Result-Remark	Verdict
			5
3.1.2.13	An equivalence claim involving the power of a replaced lamp type may be displayed only if the lamp type is listed in Table 6 and if the luminous flux of the lamp in a 90° cone ( $\Phi$ 90°) is not lower than the corresponding reference luminous flux in Table6. The reference luminous flux shall be multiplied by the correction factor in Table 7. For LED lamps, it shall be in addition multiplied by the correction factor in Table 8. The intermediate values of both the luminous flux and the claimed equivalent lamp power (rounded to the nearest 1 W) shall be calculated by linear interpolation between the two adjacent values.		Ν
	If the lamp contains mercury:		N
3.1.2.14	Lamp mercury content as X,X mg;		N
3.1.2.15	Indication of which website to consult in case of accidental lamp breakage to find instructions on how to clean up the lamp debris.	5	N
3.1.3	Information to be made publicly available on free-access we other form the manufacturer deems appropriate. As a minimum, the following information shall be expressed	-	Р
3.1.3.1	The information specified in point 3.1.2;		Р
3.1.3.2	Rated power (0,1 W precision);	ż.	P
3.1.3.3	Rated useful luminous flux;		Р
3.1.3.4	Rated lamp life time;	1	Р
3.1.3.5	Lamp power factor;		Р
3.1.3.6	Lumen maintenance factor at the end of the nominal life (except for filament lamps);	1	Р
3.1.3.7	Starting time (as X,X seconds);	0.	Р
3.1.3.8	Colour rendering;		Р
3.1.3.9	Colour consistency (only for LEDs);	5	Р
3.1.3.10	Rated peak intensity in candela (cd);	-	N
3.1.3.11	Rated beam angle;	5	Р
3.1.3.12	If intended for use in outdoor or industrial applications, an indication to this effect;		Р
3.1.3.14	Spectral power distribution in the range 180-800 nm;	5	Р



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Clause	Requirement-Test	Result-Remark	Verdict
	1		
	If the lamp contains mercury:	150	Ν
3.1.3.15	Instructions on how to clean up the lamp debris in case of accidental lamp breakage;		N
3.1.3.16	Recommendations on how to dispose of the lamp at the end of its life for recycling in line with Directive 2012/19/EU of the European Parliament and of the Council (1).	N	N
3.2	Additional product information requirements for LED lamps fluorescent lamps without integrated ballast	replacing	N
S	Claims that an LED lamp replaces a fluorescent lamp witho ballast of a particular wattage may be made only if:	ut integrated	N
3.2.1	the luminous intensity in any direction around the tube axis does not deviate by more than 25 % from the average luminous intensity around the tube,	2	N
3.2.2	the luminous flux of the LED lamp is not lower than the luminous flux of the fluorescent lamp of the claimed wattage. The luminous flux of the fluorescent lamp shall be obtained by multiplying the claimed wattage with the minimum luminous efficacy value corresponding to the fluorescent lamp in Commission Regulation (EC) No 245/2009 (1)	2 2	Ν
3.2.3	the wattage of the LED lamp is not higher than the wattage of the fluorescent lamp it is claimed to replace.	5	N
3.3.	Product information requirements for equipment other than designed for installation between the mains and the lamps	luminaires,	Ν
3.4	Product information requirements for lamp control gears As from stage 2, the following information shall be published available free access websites and in other forms the manu		Ν
3.4.1	Indication that the product is intended to be used as a lamp control gear,	1	Ν
3.4.2	If applicable, the information that the product may be operated in no-load mode.	2	Ν

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	Luminous flux,	power, lumii	nous efficiency t	est, power fac	ctor	
	Rated voltage:	DC12V	Rated wattage:	9W	Test voltage:	DC12V
	The stabilization	on time: 20 m	in (stated by ma	nufacturer)		<b>I</b>
Sample No	Lamp cup type	Rated power (W)	Luminous flux(lm)	Test power (W)	Power Factor	Luminous efficiency I m/W)
1	5	9	789.38	9.2	1.000	85.70
2	-	9	787.01	9.3	1.000	84.87
3	-	9	776.80	9.3	1.000	83.65
4	-	9	789.76	9.2	1.000	85.80
5	-	9	786.58	9.2	1.000	85.29
6 🔪	- "	9	787.59	9.3	1.000	84.74
7	-	9	793.78	9.2	1.000	85.93
8	1	9	797.39	9.3	1.000	86.07
9	×-	9	774.41	9.2	1.000	84.08
10		9	788.48	9.3	1.000	85.13
11	5	9	787.19	9.2	1.000	85.30
12	-	9	798.28	9.3	1.000	85.94
13	-	9	777.51	9.2	1.000	84.47
14	-	9	791.05	9.2	1.000	85.82
15		9	793.67	9.3	1.000	85.66
16	5-	9	776.57	9.3	1.000	83.78
17	-	9	784.30	9.2	1.000	85.04
18	in the	9	788.81	9.2	1.000	85.71
19		9	788.59	9.2	1.000	85.45
20	-	9	783.00	9.3	1.000	84.29
A	/erage	9	787.01	9.2	1.000	85.14

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S	tarting time an	d Run-up ti	me test			
R	ated voltage:	DC12V	Rated wattage:	9W	Test voltage:	DC12
Sample N	o. Lamp cu	о Туре	Starting time(	s)	Run-up tim	e(s)
1	· 17 -		0.027		0.081	
2	-		0.027	5	0.080	in
3	-	4	0.026		0.081	
4		2	0.029		0.080	
5	-		0.027		0.082	
6		La .	0.028		0.080	- V
7	-	0	0.027	2	0.083	
8	-		0.026		0.080	
9	15 -		0.026	-1	0.080	
10	-		0.029	5	0.082	-
11			0.029		0.081	
12			0.029		0.082	- 1
13	-		0.027	~	0.082	5
14	-	5	0.027		0.079	
15	-		0.030		0.080	
16	- 67		0.026		0.080	
17	-	12	0.028	1	0.080	
18			0.029		0.079	
19	5-		0.029	6	0.081	
20	-		0.026	5	0.082	1
17	Average		0.028		0.081	

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	col	our temperat	ure, SDCM &	colour renderin	ng				
	Rated voltage: DC		DC12V	C12V Rated wattage: 9W		Test voltage:	DC12V		
Sample N	lo.	Lamp cup ty	vpe Colour	Colour temperature		Colour ren (Ra)	dering		
1		5		5065	3.3	83.6			
2		-		5006	3.4	83.8	54		
3			3	5066	3.4	83.6	× .		
4				5056	3.1	83.7			
5 -			5041		83.5				
6 -		12	5016		83.6				
7		-		5044	3.2	83.6	83.6		
8		- 67		5006	3.4	83.7			
9		× -		5035	3.6	83.7	3		
10		-		5018	3.4	83.9			
11		5		5055	3.7	83.8			
12		-		5056	3.1	83.5	. 5		
13	6	-	1	5059	3.6	83.7			
14		- 1	5	5008	3.4	83.9			
15				5041	3.3	83.9			
16	U	-	4.	5006 3.5		83.9			
17		-		5010		5010 3.1		83.6	
18		in the		5068	3.5	83.8			
19				5047	3.3	83.5	1		
20		-		5036	3.7	83.8	5		
5	A	verage	2	5037	3.4	83.7			



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Premature Failur	re Rate (Aft	er aging 1000h)			
Rated voltage:	DC12V	Rated wattage:	9W	Test voltage:	DC12V
Sample No.		Lamp cup Type		Failure? (Yes or No	)
1,54		in .		No	
2		V-	5	No	in the
3	S	-		No	
4	2	1-5-2		No	
5		-		No	1
6	in .	-		No	
7	~	- 5		No	
8				No	
9		5	1	No	
10		-	V	No	
11		-		No	
12		Nº.		No	1
13		-		No	V
14	5	in .		No	
15				No	
16	-	-		No	
17		· ·	5	No	
18		-		No	
19		·		No	
20		<u> </u>	V	No	
onclusion	3		Pass		

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Number of sw	itching cycle	s before failure			
Rated voltage	DC12V	Rated wattag	e: 9W	Test voltage:	DC12V
Sample No.	Lamp cup	туре	Test Times	Lim	it
1	-	~	≥15000	≥15000	Min.
2	-	1	≥15000	≥15000	Min.
3			≥15000	≥15000	Min.
4	5	in.	≥15000	≥15000	Min.
5	-	V	≥15000	≥15000	Min.
6	6 -		≥15000	≥15000 Min.	
7	V.		≥15000	≥15000	Min.
8 -			≥15000	≥15000	Min.
9	-	4	≥15000		Min.
10	-		≥15000	≥15000 Min.	
11	N		≥15000	≥15000	Min.
12	-	5	≥15000	≥15000	Min.
13	-		≥15000	≥15000 Min.	
14	12.		≥15000	≥15000 Min.	
15	· ·	V	≥15000	≥15000	Min.
16	-		≥15000	≥15000	Min.
17	5		≥15000	≥15000	Min.
18	-		≥15000	≥15000	Min.
19	-	in.	≥15000	≥15000	Min.
20	-	2	≥15000	≥15000	Min.
Conclusion		L	Pass		

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Lamp Survival fa	ctor at 600	0h			
Rated voltage:	DC12V	Rated wattage:	9W	Test voltage:	DC12\
Sample No.		Lamp cup Type		Failure? (Yes or No	))
1 5		· Cr.		No	
2		<u> </u>	1	No	54
3	1	- 6		No	× .
4		5		No	
5		-		No	1
6	12			No	
7		- 2		No	
8				No	
9		5	iz.	No	1
10		-	~	No	
11		i.		No	
12		<u>v</u> -		No	. 2
13		-		No	V
14	S	625		No	
15		-		No	
16				No	
17		- \	5	No	
18				No	
19		5-		No	4
20		-	1	No	

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Table G	<u> </u>		in the					
	Lum	ien mainten	ance after 60	00h; Co	olor consis	tency	in a	
	Rate	d voltage:	DC12V	12V Rated wattage: 9W		Test voltag	ge: DC12V	
			humidity 55% rature (15 $^\circ\!$		<b>25.5</b> ℃			
Sample	No.	Lamp cup type	Luminou (Im after 1	ı)	Luminou (Im) after 60		Luminous maintenance	Color consistenc
1		-	789.	38	664.0	)3	0.841	4.3
2			787.	01	661.8	37	0.841	4.5
3		-	776.	80	654.1	9	0.842	4.3
4 -		789.	789.76		'2	0.835	4.5	
5 -		786.	786.58		4	0.843	4.6	
6 -		787.	787.59		'8	0.834	4.4	
7 -		793.	793.78		2	0.829	4.8	
8 -		797.	797.39		9	0.821	4.8	
9 -		774.	774.41		60	0.845	4.4	
10		~	788.	48	658.3	80	0.835	4.8
11		-	787.	19	653.9	9	0.831	4.5
12	<u> </u>		798.	28	662.5	57	0.830	4.9
13		-	777.	51	659.6	5	0.848	4.6
14	. 5	5 - E	791.	1.05 657.11		1	0.831	4.7
15	~	-	793.	67	653.76		0.824	4.8
16		-	776.	57	665.79		0.857	4.8
17		5	784.	30	657.78		0.839	4.3
18		-	788.	788.81		9	0.841	4.3
19			788.	59	666.8	33	0.846	4.5
20			783.	00	664.4	1	0.849	4.7
	Avera	age	787.	01	659.5	6	0.838	4.6

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ATTACHMENT A TEST EQUIPMENT LIST

ATTACHMENT B TEST LAB CONDITION

С

ATTACHMENT SAMPLE PICTURE

#### ATTACHMENT A

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### TEST EQUIPMENT LIST

Manufacturer	Description	Parameter	Model
LINGCAI	High accuracy array spectrometer	Wavelength:380nm-780nm Wavelength resolution:2.0nm Wavelength accuracy: ±0.3nm Straylight:1.00E-04 0.3%Photometry linearity Up to 0.01mcd sensitivity 0.0015x,y Accuracy of chromaticity 1/10000 Stray light level Luminousflux range: 0.01Im-6.00×10 <sup>5</sup> Im	SPEC1000A
LINGCAI	Digital power meter	Voltage/current accuracy: ±(0.04%reading+0.01%range+1digit) Harmonic analysis function	UI2012
LINGCAI	Aging-life tester User's manual	Output:5V~300V, 0.005A~20A Time:00:00:00~99:59:59	DJ4000

#### ATTACHMENT B

#### **TEST LAB CONDITION**

Item	Requirement
Ambient condition	<ol> <li>Room :draught-proof</li> <li>Ambient temperature : (25 ± 1) °C</li> <li>Relative humidity ≤65 %</li> </ol>
Test voltage	AC230V,50Hz,
Harmonic	The total harmonic content ≤ 3 %. (The harmonic content is defined as the r.m.s. summation of the individual harmonic components using the fundamental as 100 %.)
Frequency	1
Stabilization time	Lamps shall be measured at the test voltage immediately after the stabilization period as stated by the manufacturer or responsible vendor.
Base position	Vertical position, base-up
Aging	6000 h
Sample	20 lamps
Average value	The average value shall be derived from a test quantity of 20 lamps.

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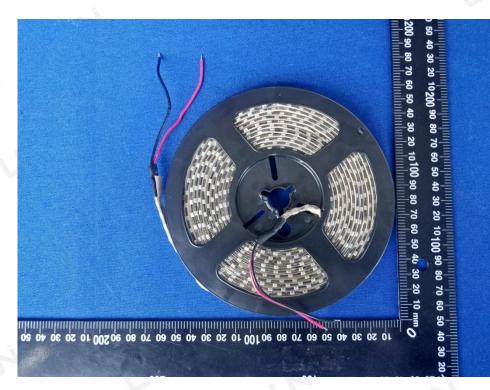
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ATTACHMENT C

ΡΗΟΤΟ

#### **General Appearance of the EUT**



The sample picture is only used to inform the customer that the sample received by the laboratory is shown in the picture, which does not prove the appearance and quality of the customer's products.

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

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This report shall not be modified, added or deleted without authorization. This report is valid only for samples presented in the "Sample Photo".

If there is any objection to the test datas and conclusions of this report, please submit it in writing within 10 working days after the date of issuance of the report.

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