Test Report

Applicant	:	Guangzhou Linong Lighting Technology Co., Ltd.
Address	:	No. 4, Keying Road, Guangzhou Private Science and Technology Park, No. 1633 Beitai Road, Baiyun District, Guangzhou
Sample Name	:	High voltage LED Strip Light

The above information is provided and confirmed by the applicant.

Sample Receiving Date	:	Dec. 22, 2021
Sample Test Date	:	Dec. 25, 2021 to Jul. 05, 2022
Test Address(s)	:	No.47-3,Zhushan lndustrial Road,Dalong Street,Panyu District, Guangzhou,China
Test Method(s)	:	COMMISSION REGULATION (EU) 2019/2020 and (EU) 2021/341, COMMISSION DELEGATED REGULATION (EU) 2019/2015 and (EU) 2021/340
Testing Item(s)	:	See Test Data Sheet
Decision Rule(s)	:	COMMISSION REGULATION (EU) 2019/2020 and (EU) 2021/341, COMMISSION DELEGATED REGULATION (EU) 2019/2015 and (EU) 2021/340
Conclusion	:	Pass

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

Liu Ze
Approved Signatory

Jul. 12, 2022
Issue Date

广州市优检检测技术有限公司
Guangzhou United Testing Technology Co.,Ltd

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1、Sample information(s)

The following information of sample(s) was/were submitted and identified by applicant:

Product Name	:	High voltage LED Strip Light
Trademark	:	LNLED
Main Model	:	LNTS8PW120VX-A1-AC220-50M
Rating	:	220-240V~, 50/60Hz, 18.8W/M
Manufacturer	:	Guangzhou Linong Lighting Technology Co., Ltd.
Address	:	No. 4, Keying Road, Guangzhou Private Science and Technology Park, No. 1633 Beitai Road, Baiyun District, Guangzhou

2、Conclusion

The sample(s) was/were detected and according to the results, the conclusion are as follows:

Test Item(s)	Decision Basis	Conclusion
(EU) 2019/2020 ANNEX II Ecodesign requirements	(EU) 2019/2020	Pass
(EU) 2019/2015. ANNEX II Energy efficiency classes	(EU) 2019/2015	Pass
(EU) 2021/341.Article 4, ANNEX IV Amendments to Regulation (EU) 2019/2020	(EU) 2021/341	Pass
(EU) 2021/340. Article 3,ANNEX III Amendments to Delegated Regulation (EU) 2019/2015	(EU) 2021/340	Pass

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3、Test item particulars

Test item Description	:	High voltage LED Strip Light
Trademark	:	LNLED
Model and/or type reference	:	LNTS8PW120VX-A1-AC220-50M
Rating(s)	:	220-240V~, 50/60Hz, 9.4W
Test case verdicts	:	
Test case does not apply to the test object	:	N/A (Not applicable)
Test item does meet the requirement	:	P(Pass)
Test item does not meet the requirement	:	F(Fail)
Test item particulars		
Light source type	:	☒LED ☐OLED ☐mixed ☐other ☐HL ☐LFLT5HE ☐LFL T5HO ☐CFLni ☐other ☐FL ☐HPS ☐MH ☐other
Non-directional or directional	:	☒NDLS ☐DLS
Mains or non-mains	:	☒MLS ☐NMLS
Connected light source (CLS)	:	☐Yes ☒NO
Colour-tuneable light source	:	☒Yes ☐NO
Envelope	:	☒No ☐Second ☐Non-clear
High luminance light source	:	☐Yes ☒NO
Anti-glare shield	:	☐Yes ☒NO
Dimmable	:	☐Yes ☒NO ☐Only with specific dimmer
Control gear	:	☐Integrated ☐External ☒NO
Use of light source:	:	☒Indoor ☐Outdoor
Possible test case verdicts		
Energy consumption in on-mode (kWh/1000 h)	:	10 kWh/1000 h
Energy efficiency class	:	☐A ☐B ☐C ☐D ☐E ☒F ☐G
Rated useful luminous flux(lm)	:	925lm
Rated CCT(K)	:	4000K
On-mode power (Pon), expressed in W	:	9.5 W
Standby power (Psb)	:	N/A

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Networked standbypower(Pnet)for CLS.(W):	: N/A
Rated Ra	: ⩾90
Spectral power distribution	: See spectral distribution chart
Chromaticity coordinates at (x and y)	: x=0.3800 y=0.3800
Peak luminous intensity(cd)	: N/A
Beam angle in degrees(°)	: N/A
R9 colour rendering index value R9	: ⩾0
Survival factor	: 100 %
The lumen maintenance factor	: ⩾96%
Displacement factor (cos φ1)	: ⩾0.9
Colour consistency in McAdam ellipses	: < 6
Flicker metric (Pst LM)	: ⩽1.0
Stroboscopic effect metric (SVM).	: ⩽0.4
Claim of equivalent power	: ☐ Yes ☒ NO
Claims that an LED light source replaces a fluorescent light source without integrated ballast of a particular wattage	: ☐ Yes ☒ NO
Lamp cap installed:	: --
Rated life time	: 30000 h

Summary of testing:

1、These results are in compliance with the ecodesign requirements of the Commission Regulation (EU)2019/2020.

2、Measurement was conducted at voltage 230V~ 50Hz, and a stable ambient temperature 25±1°C.

3、The total harmonic content of the supply voltage ≤ 3%.

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4、(EU) 2019/2020 ANNEX II Ecodesign requirements

Clause	Requirement-Test	Result-Remark	Verdict
0.	**General**		P
0.1	Directional Light Source		N/A
	at least 80 % of total luminous flux within a solid angle of π sr (corresponding to a cone with angle of 120°)		N/A
	NO-Directional Light Source		P
0.2	Useful luminous flux (Φuse)		P
	for non-directional light sources it is the total flux emitted in a solid angle of 4π sr (corresponding to a 360° sphere)		P
	for directional light sources with beam angle ≥ 90° it is the flux emitted in a solid angle of π sr (corresponding to a cone with angle of 120°);		N/A
	for directional light sources with beam angle < 90° it is the flux emitted in a solid angle of 0,586π sr (corresponding to a cone with angle of 90°)		N/A
	Number of sample used for tested	10 PCS	P
ANNEX II	**ENERGY EFFICIENCY REQUIREMENTS**		P
1.0	**Light Source**		
1.1	The declared power consumption of a light source P*on* shall not exceed the maximum allowed power Ponmax (in *W*)		P
	Evaluation : Pon ≤ Pon max	Pon = 9.5W	P
	Pon max = C × (L + Φuse / (F × η)) × R Pon max = 1.08×(1.5+925/(1.00×120))×1.06	Pon max =10.54W	P
1.1.1	Efficacy factor (F) is:		P
	1.00 for non-directional light sources (NDLS, using total flux)	F=1.00	P
	0.85 for directional light sources (DLS, using flux in a cone)		N/A
1.1.2	CRI factor (R) is:		P
	0.65 for CRI ≤ 25;		N/A
	(CRI+80)/160 for CRI > 25, rounded to two decimals.	R=(90.0+80)/160 =1.06	P

Clause	Requirement-Test	Result-Remark	Verdict
1.1.3	The values for threshold efficacy (η in lm/W) and end loss factor (L in W) are specified depending on the light source type		P
	Light source description		P
	Other light sources in scope not mentioned above η: 120 lm /W, L:1.5 (*)		P
	(*)For connected light sources (CLS) a factor L = 2,0 shall be applied		N/A
1.1.4	Correction factor (C) depending on light source type,		P
	Non-directional (NDLS) not operating on mains (NMLS) , Basic C value 1.00		N/A
	Non-directional (NDLS) operating on mains (MLS), Basic C value 1.08		P
	Directional (DLS) not operating on mains (NMLS),Basic C value 1.15		N/A
	Directional (DLS) operating on mains (MLS), Basic C value 1.23		N/A
1.2	Standby power – Light Source		N/A
1.2.1	The standby power Psb of a light source shall not exceed 0,5 W.		N/A
1.2.2	The networked standby power Pnet of a connected light source shall not exceed 0,5 W.		N/A
1.2.3	The allowable values for Psb and Pnet shall not be added together.		N/A
1.3	Separate Control Gear (at full-load)		N/A
	Control gear for LED or OLED light sources Minimum energy efficiency		N/A
	$P_{cg}^{0,81}/(1,09 \times P_{cg}^{0,81} + 2,10)$		N/A
	The no-load power Pno of a separate control gear shall not exceed 0.5 W		N/A
	The standby power Psb of a separate control gear shall not exceed 0.5 W		N/A
	The networked standby power Pnet of a connected separate control gear shall not exceed 0.5 W		N/A

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Clause	Requirement-Test	Result-Remark	Verdict
2.	**FUNCTIONALITY REQUIREMENTS**		
2.1	Colour rendering		P
	Requirement ≥80	92.3	P
2.2	Displacement factor (DF, cos ϕ 1) at power input Pon for LED and OLED MLS		P
	Requirement : ☐ Pon ≤ 5 W: no requirement ☐ 5W < Pon ≤ 10 W: Df ≥ 0.5 ☒ 10 W < Pon ≤ 25 W: Df≥ 0.7 ☐ Pon > 25 W: Df ≥ 0.9	0.944	P
2.3	Lumen maintenance factor (for LED and OLED)		P
	$LMF \geq X_{LMF,MIN}\% = 100 \times e^{\frac{(3000 \times \ln(0.7))}{L_{70}}}$ Requirement : ☐ 10000h:LMF≥89.85%; ☐ 15000h:LMF≥93.12%; ☐ 20000h:LMF≥94.79%; ☐ 25000h:LMF≥95.81%; ☒ ≥26200h:LMF≥96.0%	96.43%	P
2.4	Survival factor (for LED and OLED)		P
	Requirement: ≥ 90%	100%	P
2.5	Colour consistency for LED and OLED light sources		P
	Requirement: ≤ 6	5.3	P
2.6	Flicker for LED and OLED MLS		P
	Requirement: Pst LM ≤ 1,0 at full-load	0.025	P
2.7	Stroboscopic effect for LED and OLED MLS		P
	Requirement: SVM ≤ 0,4 at full-load	0.012	P

3.	**Information requirements**		
3.(A)	Information to be displayed on the light source itself		N/A
	Useful luminous flux (lm)		N/A
	Correlated colour temperature (K)		N/A
	Beam angle (°) For directional light sources		N/A
3.(B)	Information to be visibly displayed on the packaging		N/A
(B) (1)	Light source placed on the market, not in a containing product		N/A

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Clause	Requirement-Test	Result-Remark	Verdict
a.	The useful luminous flux (Φuse) in a font at least twice as large as the display of the on-mode power (Pon), clearly indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°);		N/A
b.	The correlated colour temperature, rounded to the nearest 100 K, also expressed graphically or in words, or the range of correlated colour temperatures that can be set;		N/A
c.	The beam angle in degrees (for directional light sources), or the range of beam angles that can be set;		N/A
d.	Electrical interface details, e.g. cap- or connector-type, type of power supply (e.g. 230VAC --, 12VDC);		N/A
e.	The L70B50 lifetime for LED and OLED light sources, expressed in hours;		N/A
f.	The on-mode power (Pon), expressed in W;		N/A
g.	The standby power (Psb), expressed in W and rounded to the second decimal. If the value is zero, it may be omitted from the packaging;		N/A
h.	The networked standby power (Pnet) for CLS, expressed in W and rounded to the second decimal. If the value is zero, it may be omitted from the packaging;		N/A
i.	Colour rendering index, rounded to the nearest integer, or the range of CRI-values that can be set;		N/A
j.	If CRI< 80, and the light source is intended for use in outdoor applications, industrial applications or other applications where lighting standards allow a CRI< 80, a clear indication to this effect. For HID light sources with useful luminous flux > 4 000 lm, this indication is not mandatory;		N/A
k.	If the light source is designed for optimum use in non-standard conditions (such as ambient temperature Ta ≠ 25 °C or specific thermal management is necessary): information on those conditions;		N/A
l.	A warning if the light source cannot be dimmed or can be dimmed only with specific dimmers or with specific wired or wireless dimming methods. In the latter cases a list of compatible dimmers and/or methods shall be provided on the manufacturer's website;		N/A
m.	If the light source contains mercury: a warning of this, including the mercury content in mg rounded to the first decimal place;		N/A

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n.	If the light source is within the scope of Directive 2012/19/EU, without prejudice to marking obligations pursuant to Article 14(4) of Directive 2012/19/EU, or contains mercury: a warning that it shall not be disposed of as unsorted municipal waste.		N/A
(B) (2)	Separate control gears (For separate control gear placed on the market as a stand-alone product, not as a part of a containing product)		N/A
a	The maximum output power of the control gear (for HL, LED and OLED) or the power of the light source for which the control gear is intended (for FL and HID)		N/A
b	The type of light source(s) for which it is intended		N/A
c	The efficiency in full-load, expressed in percentage;		N/A
d	The no-load power (Pno), expressed in W and rounded to the second decimal, or the indication that the gear is not intended to operate in no-load mode. If the value is zero, it may be omitted from the packaging but shall nonetheless be declared in the technical documentation and on websites;		N/A
e	The standby power (Psb), expressed in W and rounded to the second decimal. If the value is zero, it may be omitted from the packaging but shall nonetheless be declared in the technical documentation and on websites;		N/A
f	Where applicable, the networked standby power (Pnet), expressed in W and rounded to the second decimal. If the value is zero, it may be omitted from the packaging but shall nonetheless be declared in the technical documentation and on websites;		N/A
g	A warning if the control gear is not suitable for dimming of light sources or can be used only with specific types of dimmable light sources or using specific wired or wireless dimming methods. In the latter cases, detailed information on the conditions in which the control gear can be used for dimming shall be provided on the manufacturer's or importer's website;		N/A
h	A QR-code redirecting to a free-access website of the manufacturer, importer or authorised representative, or the internet address for such a website, where full information on the control gear can be found.		N/A

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Clause	Requirement-Test	Result-Remark	Verdict
3 (C)	Information to be visibly displayed on a free-access website of the manufacturer, importer or authorised representative		N/A
	Separate control gears For any separate control gear that is placed on the EUmarket, the following information shall be displayed on at least one free-accesswebsite		N/A
a	The information specified in point 3(b)(2), except 3(b)(2)(h);		N/A
b.	The outer dimensions in mm		N/A
c.	The mass in grams of the control gear, without packaging, and without lighting control parts and non-lighting parts, if any and if they can be physically separated from the control gear;		N/A
d.	Instructions on how to remove lighting control parts and non-lighting parts, if any, or how to switch them off or minimise their power consumption during control-gear testing for market surveillance purposes		N/A
e.	If the control gear can be used with dimmable light sources, a list of minimum characteristics that the light sources should have to be fully compatible with the control gear during dimming, and possibly a list of compatible dimmable light sources;		N/A
f.	Recommendations on how to dispose of it at the end of its life in line with Directive 2012/19/EU.		N/A
	The information does not need to use the exact wording in the list above. Alternatively, it may be displayed in the form of graphs, drawings or symbols.		N/A
3 (D)	Technical documentation		N/A
	Separate control gears:		N/A
	The information specified in point 3(c)(2) of this Annex shall also be contained in the technical documentation file drawn up for the purposes of conformity assessment pursuant to Article 8 of Directive 2009/125/EC.		N/A

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4.1Test Data Sheet

4.1.1、Initial Lumen Measurement and Energy Efficiency

Sample No.	TestVoltage (AC V)	Measured Pon(W)	Dis. factor	Initial total luminous flux (lm)	Initial Φuse (lm)	Efficacy (lm/W)	Beam angle (°)
1	230.0	9.60	0.944	928.96	928.96	96.97	N/A
2	230.0	9.62	0.943	927.42	927.42	96.51	N/A
3	230.0	9.64	0.942	926.40	926.40	95.70	N/A
4	230.0	9.59	0.946	928.66	928.66	96.84	N/A
5	230.0	9.69	0.945	926.65	926.65	96.93	N/A
6	230.0	9.68	0.945	926.33	926.33	95.89	N/A
7	230.0	9.70	0.942	930.95	930.95	96.17	N/A
8	230.0	9.55	0.942	926.18	926.18	96.48	N/A
9	230.0	9.70	0.944	927.97	927.97	97.07	N/A
10	230.0	9.59	0.946	928.43	928.43	96.51	N/A
Ave.	230.0	9.64	0.944	927.79	927.79	96.51	N/A

4.1.2、Color Measurement：

Sample No.	Color Temp (K)	Colour rendering (CRI)	R9	Color consistency	x	y	Peak light intensity(CD)
1	4211	92.2	70	5.0	0.3703	0.3654	N/A
2	4209	92.4	70	5.2	0.3703	0.3655	N/A
3	4211	92.2	70	5.4	0.3702	0.3655	N/A
4	4211	92.5	70	5.5	0.3705	0.3656	N/A
5	4211	92.4	70	5.5	0.3704	0.3654	N/A
6	4212	92.3	70	5.3	0.3703	0.3655	N/A
7	4215	92.4	70	5.1	0.3705	0.3655	N/A
8	4207	92.4	70	5.2	0.3704	0.3654	N/A
9	4205	92.1	70	5.3	0.3700	0.3656	N/A
10	4209	92.2	70	5.4	0.3703	0.3656	N/A
Ave.	4210	92.3	70	5.3	0.3703	0.3655	N/A
Note: F4000K central point : x=0.3800 y=0.3800 or color consistency.							

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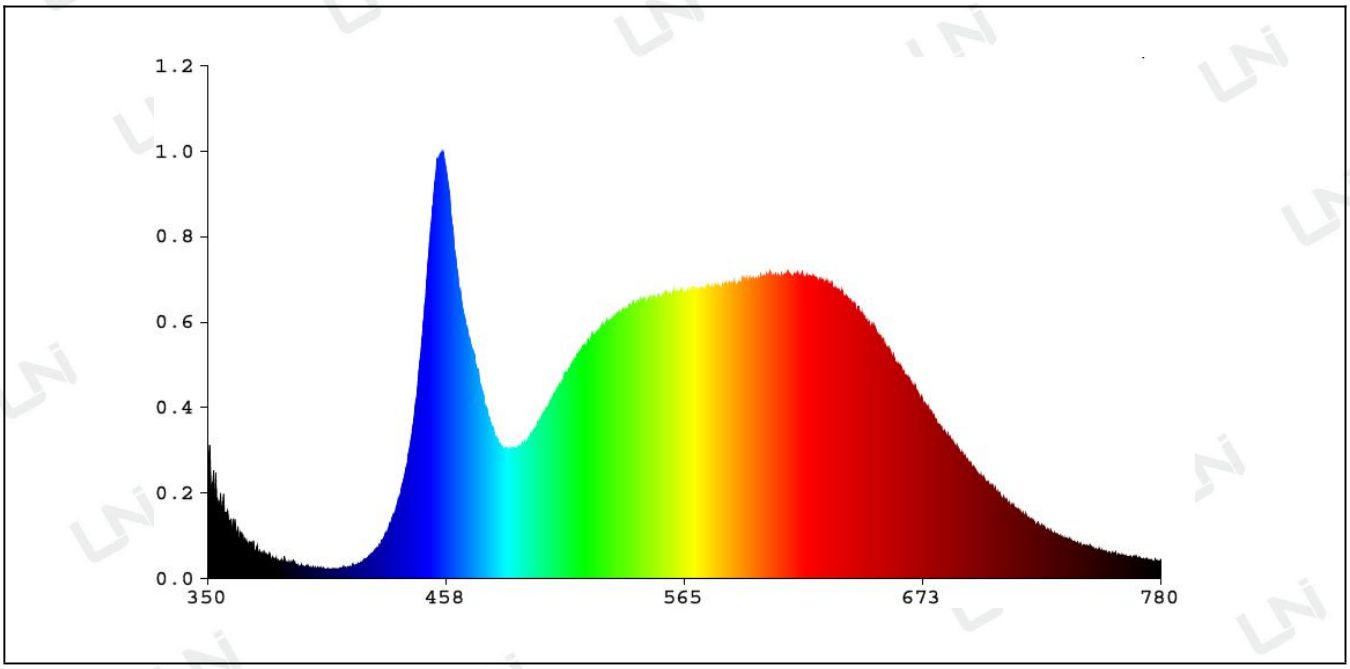
4.1.3、Different Mode Power 、Flicker、Stroboscopic Effect and Lumen Maintenance Test:

Sample No.	Standby Power Psb(W)	Network Sb. Power Pnet	Flicker (Pst LM)	Stroboscopic (SVM)	Total luminous flux after 3600h (lm)	Total lumen maintenace factor(%)	3600h Survival factor(%)
1	N/A	N/A	0.025	0.010	896.82	96.54%	100%
2	N/A	N/A	0.025	0.011	898.02	96.83%	100%
3	N/A	N/A	0.026	0.011	891.66	96.25%	100%
4	N/A	N/A	0.026	0.012	890.96	95.94%	100%
5	N/A	N/A	0.026	0.012	892.55	96.32%	100%
6	N/A	N/A	0.025	0.011	891.04	96.19%	100%
7	N/A	N/A	0.025	0.011	900.97	96.78%	100%
8	N/A	N/A	0.026	0.011	895.80	96.72%	100%
9	N/A	N/A	0.026	0.009	894.56	96.40%	100%
10	N/A	N/A	0.025	0.010	893.89	96.28%	100%
Ave.	N/A	N/A	0.026	0.011	894.62	96.43%	100%

4.3 Spectral power distribution:



4.4 (EU) 2019/2015. ANNEX II Energy efficiency classes

Energy efficiency classes				
Standard		Model:	Useful Luminous flux	Power
(EU) 2019/2015		LNTS8PW120VX-A1-AC220-50M	925lm	9.5 W
Conditions	-Test procedure : COMMISSION DELEGATED REGULATION (EU) 2019/2015 of 11 March 2019 -Test Conditions: -Ambient:25℃, 55%R.H. -Test voltage: 230V~, 50Hz			
Technical requirements		Energy efficiency classes of light sources		
$\eta_{TM} = (\Phi_{use}/P_{on}) \times F_{TM}$		Energy efficiency class	Total mains efficacy η_{TM} (lm/W)	
		A	$210 \leq \eta_{TM}$	
Φ_{use}:	925 lm	B	$185 \leq \eta_{TM} < 210$	
P_{on}:	9.5W	C	$160 \leq \eta_{TM} < 185$	
F_{TM}:	1.00	D	$135 \leq \eta_{TM} < 160$	
η_{TM}	97.36	E	$110 \leq \eta_{TM} < 135$	
Energy efficiency classes	F	F	$85 \leq \eta_{TM} < 110$	
		G	$\eta_{TM} < 85$	

Factors FTM by light source type		
light source type	Factor F_{TM}	--
Non-directional (NDLS) operating on mains (MLS)	1.000	P
Non-directional (NDLS) not operating on mains (NMLS)	0.926	--
Directional (DLS) operating on mains (MLS)	1.176	--
Directional (DLS) not operating on mains (NMLS)	1.089	--

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5、TEST EQUIPMENT LIST

Manufacturer	Description	Parameter	Model
EVERFINE	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: 0.01lm-6.00×10^5lm	HAAS-2000
EVERFINE	Digital power meter	Voltage/current accuracy: ±(0.04%reading+0.01%range+1digit) Harmonic analysis function	PF310
EVERFINE	Aging-life tester User's manual	Output:5V~300V, 0.005A~20A Time:00:00:00~99:59:59	DJ4000
EVERFINE	Light source stroboscopic measuring instrument	Measuring range:0.1 lx～200,000lx	LFA-3000

6、TEST LAB CONDITION

Item	Requirement
Ambient condition	1- Room :draught-proof 2- Ambient temperature : (25 ± 1) ℃ 3- Relative humidity ≤65 %
Test voltage	230V~
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	50Hz
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	3600 h
Sample	10 lamps
Average value	The average value shall be derived from a test quantity of 10 lamps.

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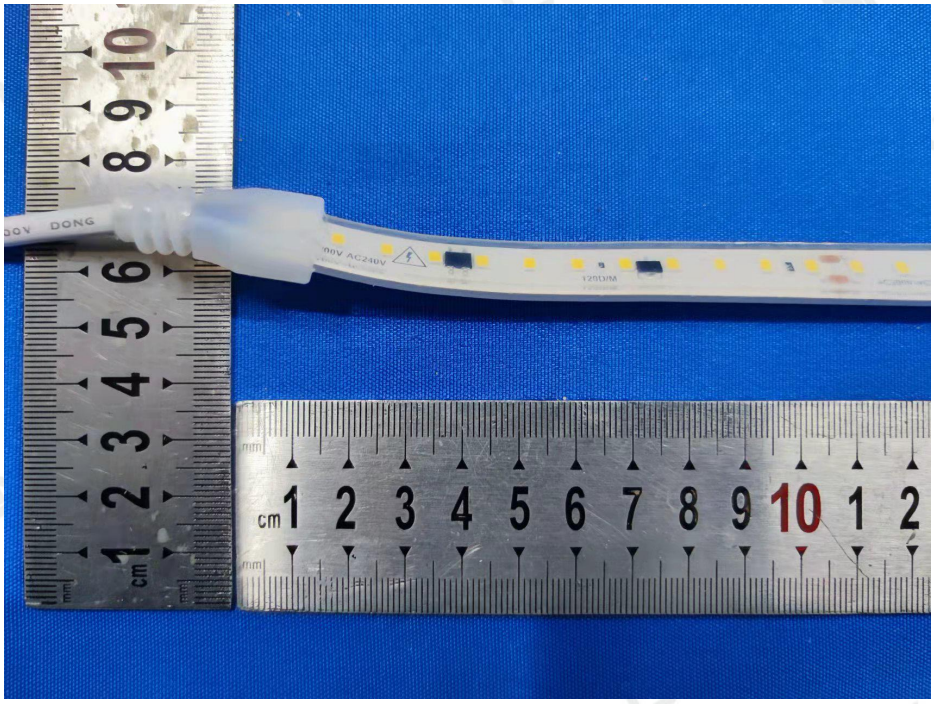
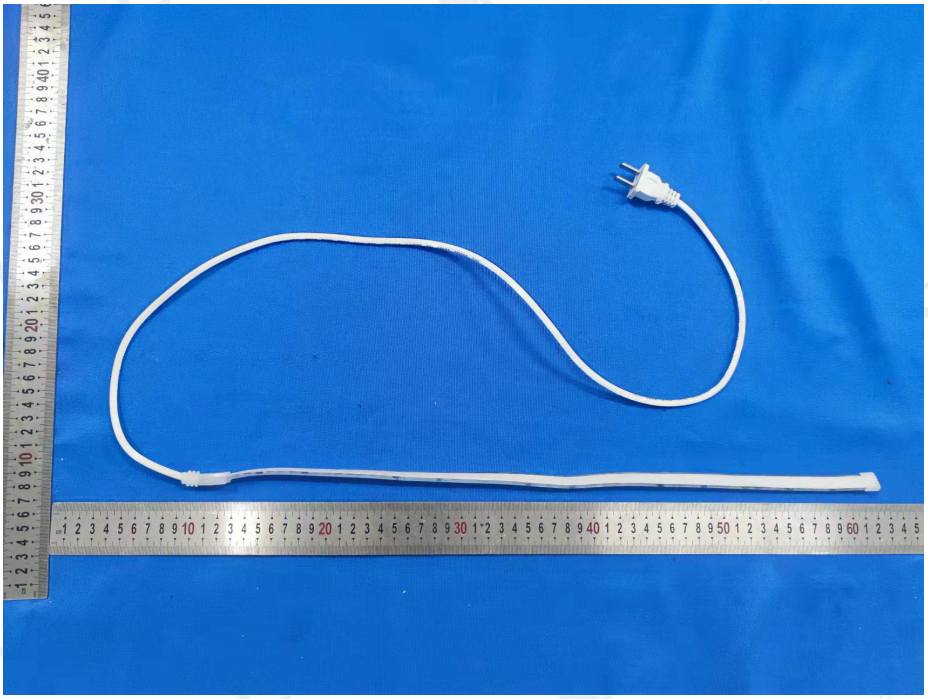
7、Sample Photo



Picture 1. LNTS8PW120VX-A1-AC220-50M



Picture 2. LNTS8PW120VX-A1-AC220-50M

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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