

Report No.: LCS201014047AR

Date: 2021.01.12

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Applicant

: NEKO LIGHTING AG

Address

: Kreuzstrasse 2, CH-8008 Zürich, Switzerland

Report on the submitted samples said to be:

Sample Name

: Linear Light Series

Trade Mark

: NZKO

Style No.

: See next page

Testing Period

: December 31, 2020 ~ January 12, 2021

Results

: Please refer to next page(s).

TEST REQUEST	CONCLUSION
According to the customer's request, based on the performed tests on submitted sample, the result of Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), PBBs, PBDEs, Dibuyl Phthalate(DBP), Benzylbutyl Phthalate(BBP), Bis(2-ethylhexyl) Phthalate(DEHP), Diispbutyl phthalate(DIBP) content comply with the limit requirement as set of RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.	Pass

Signed for and on behalf of LCS







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	Model	Rating
	GLOS30-GL1060-26W	220-240V~, 50/60Hz, 26W
	GLOS30-GL1060U-36W	220-240V~, 50/60Hz, 36W
	GLOS30-CL1060-26W	220-240V~, 50/60Hz, 26W
	GLOS30-CL1060U-36W	220-240V~, 50/60Hz, 36W
	GLOS30-GL1590U-54W	220-240V~, 50/60Hz, 54W
	GLOS30-GL1590-40W	220-240V~, 50/60Hz, 40W
	GLOS30-CL1590U-54W	220-240V~, 50/60Hz, 54W
	GLOS30-CL1590-40W	220-240V~, 50/60Hz, 40W
	GLOS30-AL1200-33W	220-240V~, 50/60Hz, 36W
(2)	GLOS30-AL1060U-36W	220-240V~, 50/60Hz, 36W
	GLOS30-AL1060-26W	220-240V~, 50/60Hz, 26W
	GLOS30-AL1200U-44W	220-240V~, 50/60Hz, 54W
	GLOS30-AL1590U-54W	220-240V~, 50/60Hz, 54W
	GLOS30-AL1590-40W	220-240V~, 50/60Hz, 40W
	GLOS30-AL+GL-1060U-36W	220-240V~, 50/60Hz, 36W
	GLOS30-AL+GL-1060-26W	220-240V~, 50/60Hz, 26W
(g)	GLOS30-AL+CL-1060U-36W	220-240V~, 50/60Hz, 36W
	GLOS30-AL+CL-1060-26W	220-240V~, 50/60Hz, 26W
	GLOS30-AL+GL-1590U-54W	220-240V~, 50/60Hz, 54W
	GLOS30-AL+GL-1590-40W	220-240V~, 50/60Hz, 40W
	GLOS30-AL+CL-1590U-54W	220-240V~, 50/60Hz, 54W
	GLOS30-AL+CL-1590-40W	220-240V~, 50/60Hz, 40W
	GLOS30-SL+GL-1060U-42W	220-240V~, 50/60Hz, 42W
6)	GLOS30-SL+GL-1060-32W	220-240V~, 50/60Hz, 32W
9	GLOS30-SL+CL-1060U-42W	220-240V~, 50/60Hz, 42W
	GLOS30-SL+CL-1060-32W	220-240V~, 50/60Hz, 32W
	GLOS30-SL+GL-1590U-66W	220-240V~, 50/60Hz, 66W
	GLOS30-SL+GL-1590-52W	220-240V~, 50/60Hz, 52W
	GLOS30-SL+CL-1590U-66W	220-240V~, 50/60Hz, 66W
	GLOS30-SL+CL-1590-52W	220-240V~, 50/60Hz, 52W





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Model		Rating	
GLOS30-GL Corner	-10W	220-240V~, 50/60Hz, 10W	,
GLOS30-CL Corner	-10VV	220-240V~, 50/60Hz, 10W	,
GLOS50-GL1120-2	26W	220-240V~, 50/60Hz, 26W	1
GLOS50-GL1120U-	-40W	220-240V~, 50/60Hz, 40W	1
GLOS50-CL1120-2	26W	220-240V~, 50/60Hz, 26W	,
GLOS50-CL1120U-	-40W	220-240V~, 50/60Hz, 40W	
GLOS50-GL1680-4	40W	220-240V~, 50/60Hz, 40W	
GLOS50-GL1680U-	-58W	220-240V~, 50/60Hz, 58W	1
GLOS50-CL1680-4	40W	220-240V~, 50/60Hz, 40W	,
GLOS50-CL1680U-	-58W	220-240V~, 50/60Hz, 58W	1
GLOS50-AL1120-5	56W	220-240V~, 50/60Hz, 56W	,
GLOS50-AL1120U-	-70W	220-240V~, 50/60Hz, 70W	1
GLOS50-AL1680-8	34W	220-240V~, 50/60Hz, 84W	
GLOS50-AL1680U-	102W	220-240V~, 50/60Hz, 102V	V
GLOS50-WW1120-	-26W	220-240V~, 50/60Hz, 26W	1
GLOS50-WW1120U	J-40W	220-240V~, 50/60Hz, 40W	1
GLOS50-WW1680-	-40W	220-240V~, 50/60Hz, 40W	1
GLOS50-WW1680U	I-58W	220-240V~, 50/60Hz, 58W	1
GLOS50-AL+GL-112	0-40W	220-240V~, 50/60Hz, 40W	,
GLOS50-AL+GL-1120)U-54W	220-240V~, 50/60Hz, 54W	
GLOS50-AL+CL-112	0-40W	220-240V~, 50/60Hz, 40W	
GLOS50-AL+CL-1120)U-54W	220-240V~, 50/60Hz, 54W	
GLOS50-AL+GL-168	0-56W	220-240V~, 50/60Hz, 56W	,
GLOS50-AL+GL-1680)U-74W	220-240V~, 50/60Hz, 74W	,
GLOS50-AL+CL-168	0-56W	220-240V~, 50/60Hz, 56W	,
GLOS50-AL+CL-1680)U-74W	220-240V~, 50/60Hz, 74W	,
GLOS50-GL Corne	r-9W	220-240V~, 50/60Hz, 9W	
GLOS50-CL Corne	r-9W	220-240V~, 50/60Hz, 9W	





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Results:

A.EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Test method: With reference to IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

				Res	sults			Date of sample
Seq. No.	Tested Part(s)	Cd	Pb	Hg	Cr [▼]		3r [▼]	submission/resu
	Tours and also Co			9		PBBs	PBDEs	DITHSSION
1	Transparent plastic sheet	BL	BL	BL	BL	BL	BL	2020-12-31
2	White metal aluminum substrate	BL	BL	BL	BL	1	1	2020-12-31
3	Yellow Plastic SMD LED Light	BL	BL	BL	BL	BL	BL	2020-12-31
4	Black metal shell	BL	BL	BL	BL	1	/	2020-12-31
5	Silver label	BL	BL	BL	BL	BL	BL	2020-12-31
6	Transparent plastic strip	BL	BL	BL	BL	BL	BL	2020-12-31
7	White rubber block	BL	BL	BL	BL	BL	BL	2020-12-31
8	Black plastic casing	BL	BL	BL	BL	BL	BL	2020-12-31
9	Silver metal sheet	OL	BL	BL	X	1	1	2020-12-31
10	Red plastic thread	BL	BL	BL	BL	BL	BL	2020-12-31
11	Black plastic thread	BL	BL	BL	BL	BL	BL	2020-12-31
12	Silver metal core	BL	BL	BL	BL	1	1	2020-12-31
13	Silver plastic frame	BL	BL	BL	BL	BL	BL	2020-12-31
14	White plastic lampshade	BL	BL	BL	BL	BL	BL	2020-12-31
15	Silver metal screws	BL	BL	BL	BL	/	1	2020-12-31
16	Black metal screws	OL	OL	BL	Х	/	1	2020-12-31
17	Silver metal washers	BL	BL	BL	X	/	1	2020-12-31
18	White metal shell with printing	Х	BL	BL	BL	1	1	2020-12-31
19	Transparent plastic sheet	BL	BL	BL	BL	BL	BL	2020-12-31
20	White plastic block	BL	BL	BL	BL	BL	BL	2020-12-31
21	Beige plastic shell	BL	BL	BL	BL	BL	BL	2020-12-31
22	Gray plastic shell	BL	BL	BL	BL	BL	BL	2020-12-31
23	Yellow plastic shell	BL	BL	BL	BL	Х	Х	2020-12-31
24	Black plastic shell	BL (BL	BL	BL	BL	BL	2020-12-31
25	Silver metal aluminum shell	BL	BL	BL	BL	/	1	2020-12-31











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0				Res	sults			Date of sample
Seq. No.	Tested Part(s)	Cd	Pb	Ua	Cr [▼]	В	Br [▼]	submission/resu
		Ca	PD	Hg	Gr	PBBs	PBDEs	bmission
26	Black rubber pad	BL	BL	BL	BL	BL	BL	2020-12-31
27	Scotch tape	BL	BL	BL	BL	BL	BL	2020-12-31
28	Yellow wet paper	BL	BL	BL	BL	BL	BL	2020-12-31
29	Grey paper	BL	BL	BL	BL	/	1	2020-12-31
30	Silver metal pins	BL	BL	BL	BL	/	1	2020-12-31
31	Crimson plastic shell	BL	BL	BL	BL	BL	BL	2020-12-31
32	Black plastic shell	BL	BL	BL	BL	BL	BL	2020-12-31
33	Red plastic shell	BL	BL	BL	BL	Х	Х	2020-12-31
34	White plastic slider	BL	BL	BL	BL	BL	BL	2020-12-31
35	Silver metal solder	BL	BL	BL	BL	1) 1	2020-12-31
36	White plastic parts	BL	BL	BL	BL	BL	BL	2020-12-31
37	Brown plastic thread	BL	BL	BL	BL	BL	BL	2020-12-31
38	Yellow-green plastic thread	BL (BL	BL	BL	BL	BL	2020-12-31
39	Silver metal pillar	OL	OL	BL	X	1	1	2020-12-31
40	Copper color metal core	OL	OL	BL	Х	1	1	2020-12-31
41	Beige plastic interface	BL	BL	BL	BL	BL	BL	2020-12-31
42	Silver metal stylus	OL	OL	BL	Х	1) 1	2020-12-31
43	Silver metal wire	OL	OL	BL	Х	1	1	2020-12-31
44	Silver metal cap	BL	OL	BL	BL	/	1	2020-12-31
45	Silver metal bolts	OL	OL	BL	BL	/	1	2020-12-31
46	Silver metal screws	OL	OL	BL	BL	1	1	2020-12-31
47	Silver grey metal screws	OL	BL	BL	BL	1	1	2020-12-31

























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Note:

(1) Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

Element	Unit	Non-metal	Metal	Composite Material
C4	ma m // cm	BL≤70-3σ <x< td=""><td>BL≤70-3σ<x< td=""><td>BL≤50-3σ<x< td=""></x<></td></x<></td></x<>	BL≤70-3σ <x< td=""><td>BL≤50-3σ<x< td=""></x<></td></x<>	BL≤50-3σ <x< td=""></x<>
Cd	mg/kg	<130+3σ≤OL	<130+3σ≤OL	<150+3σ≤OL
Pb	ma/ka	BL≤700-3σ <x< td=""><td>BL≤700-3σ<x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<></td></x<>	BL≤700-3σ <x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<>	BL≤500-3σ <x< td=""></x<>
PD	mg/kg	<1300+3σ≤OL	<1300+3σ≤OL	<1500+3σ≤OL
Ца	ma/ka	BL≤700-3σ <x< td=""><td>BL≤700-3σ<x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<></td></x<>	BL≤700-3σ <x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<>	BL≤500-3σ <x< td=""></x<>
Hg	mg/kg	<1300+3σ≤OL	<1300+3σ≤OL	<1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ <x< td=""><td>BL≤700-3σ<x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<></td></x<>	BL≤700-3σ <x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<>	BL≤500-3σ <x< td=""></x<>
Br	mg/kg	BL≤300-3σ <x< td=""><td>- B</td><td>BL≤250-3σ<x< td=""></x<></td></x<>	- B	BL≤250-3σ <x< td=""></x<>

Note:

BL = Below Limit
OL = Over Limit
X = Inconclusive

- (2) The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (3) The maximum permissible limit is quoted from the document 2015/863/EC amending RoHS directive 2011/65/EU:
- (4) ▼=For restricted substances PBBs and PBDEs, the results show the total Br content; The restricted substance was Cr(VI), and the results showed the total Cr content













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RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenylethers (PBDEs)	1000
Dibuyl Phthalate(DBP)	1000
Benzylbutyl Phthalate(BBP)	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	1000
Diispbutyl phthalate(DIBP)	1000

Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.







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B. EU RoHS Directive 2011/65/EU and its amendment Directives 2015/863/EU on Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, DBP, BBP, DEHP, DIBP content.

Test method:

Lead(Pb) & Cadmium(Cd) Content:

With reference to IEC 62321-5:2013, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES)

Mercury(Hg) Content:

With reference to IEC 62321-4:2013+AMD1:2017 CSV, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES)

Hexavalent Chromium(Cr(VI)) Content:

With reference to IEC 62321-7-1:2015 or IEC 62321-7-2:2017, by alkaline digestion and analysis was performed by UV-visible spectrophotometer (UV-Vis)

PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

BBP DBP DEHP & DIBP Content:

With reference to IEC 62321-8:2017, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

1) The test results of Lead (Pb) and Cadmium (Cd)

lt-a	I I m i 4	MDI		Res	sults		Limit
Item	Unit	MDL	(16)	(40)	(42)	(43)	Limit
Lead Content (Pb)	mg/kg	5	N.D.	13	N.D.	8	1000

Itam	l loit	MDI		Res	ults		Limit
Item	Unit	MDL	(44)	(45)	(46)	(39)	Limit
Lead Content (Pb)	mg/kg	5	N.D.	N.D.	22	33047#3	1000

и	1124	MDI			Results			1
Item	Unit	MDL	(9)	(16)	(18)	(40)	(42)	Limit
Cadmium Content (Cd)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	100

Itom	Unit	MDL			Results			Limit
Item	Onit Wil	MIDE	(43)	(45)	(46)	(47)	(39)	LIIIII
Cadmium Content (Cd)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	31	100





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2) The test results of Hexavalent Chromium (Cr(VI))(metal)

Itam	Unit	MDL		Results		Limit
Item	Onit	MDL	(9)	(16)	(17)	Lilling
Hexavalent Chromium(Cr(VI))▼	ug/cm ²	0.10	N.D.	N.D.	N.D.	- 💚

Item	Unit	MDL		l imais			
	Oint		(40)	(42)	(43)	(39)	Limit
Hexavalent Chromium(Cr(VI))▼	ug/cm ²	0.10	N.D.	N.D.	N.D.	N.D.	0 -

Note:

- MDL = Method Detection Limit
- /= Not apply
- LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm²
- = a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13ug/cm². The sample coating is considered to contain Cr(VI)
 - b. The sample is negative for Cr(VI) if Cr(VI) is N.D.(concentration less than 0.10ug/cm²). The sample coating is considered a non- Cr(VI) based coating
 - c. The result between 0.10µg/cm² and 0.13µg/cm² is considered to be inconclusive, unavoidable coating variations may influence the determination
- Information on storage conditions and production date of the tested samples is unavailable and thus Cr(VI) results represent status of the sample at the time of testing
- mg/kg = ppm=parts per million
- N.D.=Not Detected(<MDL or LOQ)
- #1 According to RoHS directive 2011/65/EU and its amendments, Lead is exempted in glass of cathode ray tubes, electronic components and fluorescent tubes.
- #2 According to RoHS directive 2011/65/EU and its amendments, Lead is exempted in electronic ceramic parts (e.g. piezoelectronic devices).
- #3 According to RoHS directive 2011/65/EU and its amendments, Lead is exempted as an alloying element in Copper containing up to 4% (40000ppm) by weight.
- #4 According to RoHS directive 2011/65/EU and its amendments, Lead is exempted in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).
- #5 According to the statement provided by the customer, according to RoHS directive 2011/65/EU and its amendments, Lead is exempted as an alloying element in Aluminum containing up to 0.4% (4000ppm) by weight.
- #6 According to the statement provided by the customer, according to RoHS directive 2011/65/EU and its amendments, Cadmium and its compounds in electrical contact is exempted.
- #7 According to the statement provided by the customer, according to RoHS directive 2011/65/EU and its Amendments. Lead is exempted in steel for machining purposes and in galvanised steel containing up to 0.35% (3500ppm) by weight.
- Flow chart appendix is included.
- Photo appendix is included.
- As specified by client, only test the designated sample.





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3) The test results of DBP, BBP, DEHP & DIBP

Item	Unit	MDL	Results	- Limit	
			1+3+5+6+7+8		
Dibuyl Phthalate(DBP)	mg/kg	600	N.D.	1000	
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000	
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000	
Diispbutyl phthalate(DIBP)	mg/kg	600	N.D.	1000	

Item	11	1451	Results	Limit	
	Unit	MDL	10+11+13+14+19+20		
Dibuyl Phthalate(DBP)	mg/kg	600	N.D.	1000	
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000	
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000	
Diispbutyl phthalate(DIBP)	mg/kg	600	N.D.	1000	

Item	Unit	MDL	Results	Limit
		MIDE	21+22+23+24+26+27	
Dibuyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diispbutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	
			28+31+32+33+34+41+36	Limit
Dibuyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diispbutyl phthalate(DIBP)	mg/kg	600	N.D.	1000











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Itam	Unit	MDL	Res	Limit	
Item			37	38	Limit
Dibuyl Phthalate(DBP)	mg/kg	100	N.D.	829	1000
Benzylbutyl Phthalate(BBP)	mg/kg	100	N.D.	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	100	N.D.	N.D.	1000
Diispbutyl phthalate(DIBP)	mg/kg	100	N.D.	N.D.	1000







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4) The test results of PBBs & PBDEs

Item	Unit	MDL	Resu	1 !!4	
			(23)	(33)	Limit
Polybrominated Biphenyls (PBBs)				/ 200.10	
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	(3
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	1000
Polybrominated Diphenylethers (PBDEs)(Mon-Deca)					
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	(3
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	(2
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	1000

Remark:

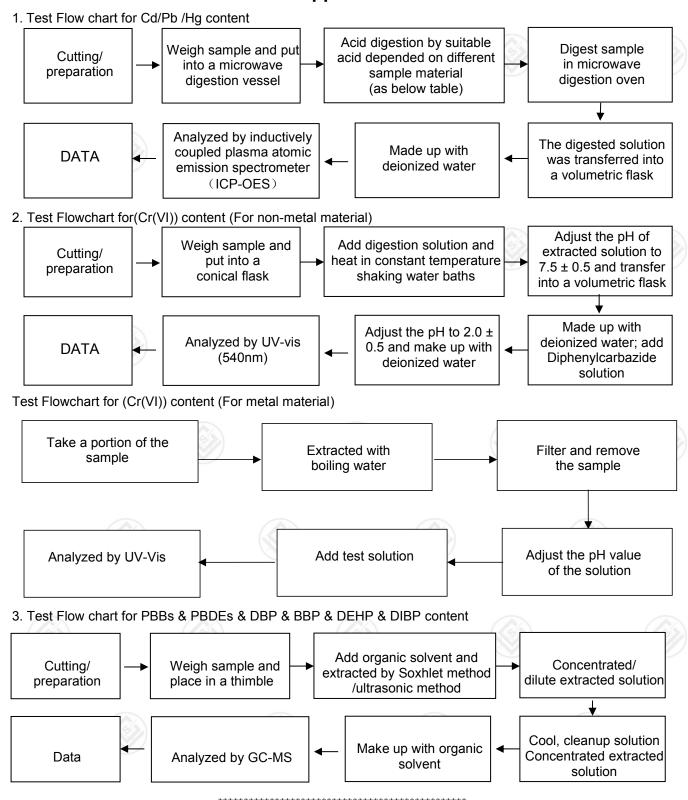
- mg/kg = ppm
- N.D. = Not detected
- MDL=Method detected limited
- Flow chart appendix is included
- Photo appendix is included.
- This report changes the applicant, address and trademark of the applicant, style no., and the rest is consistent with the report LCS201014049AR.





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Appendix

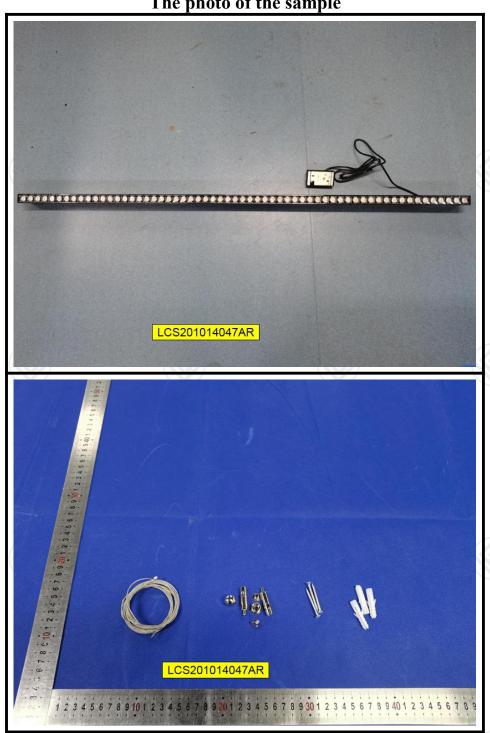






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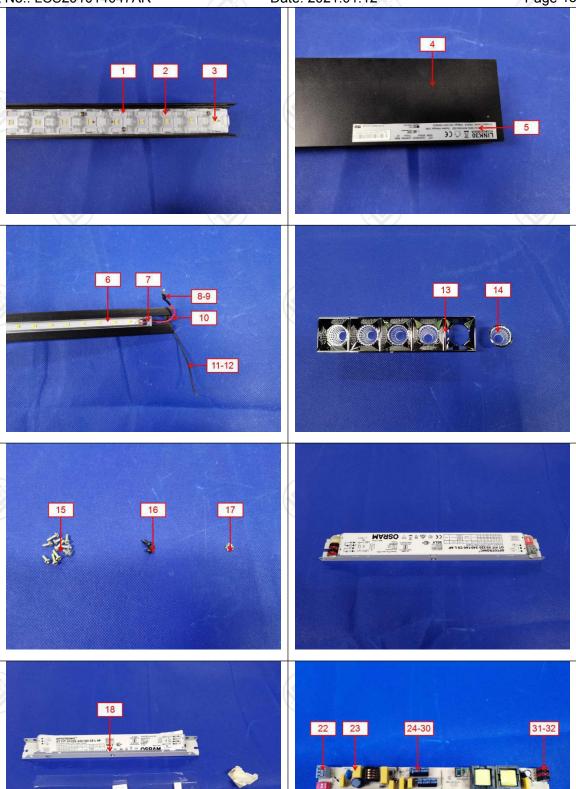
The photo of the sample







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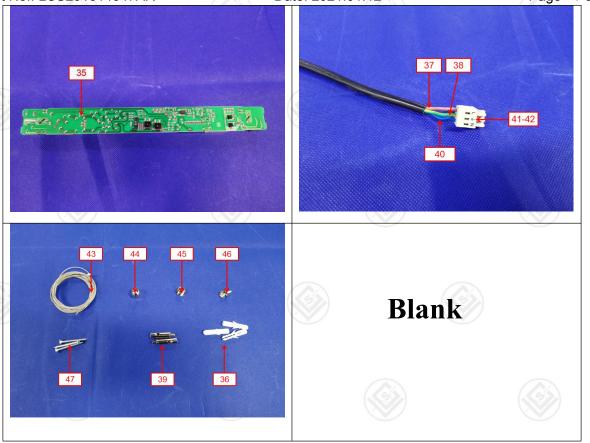
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******* End of Report *********

Statement:

- 1. The test report is considered invalidated without approval signature, special seal on the perforation.
- 2. The result(s) shown in this report refer only to the sample(s) tested.
- 3. Without written approval of LCS, this report can't be reproduced except in full.
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