

TEST REPORT

<u>APPLICANT</u>	: Ningbo Energylux Optoelectronics Technology Co.Ltd
<u>ADDRESS</u>	: No.3, Xinyuan 3 Road, Binhai Industrial Zone, Xidian Town, Ninghai County, Ningbo City, Zhejiang Province, P.R.China 315600
<u>SAMPLE DESCRIPTION</u>	: infrared motion sensor
<u>ITEM NO.</u>	: ES-P15B
<u>REFERENCE ITEM NO.</u>	: ES-P15C ES-P15A ES-P15 ES-P08 ES-P08A ES-P08AR ES-P08N ES-P08NR ES-P08B ES-P08C ES-P08D ES-P08E ES-P08F ES-P08G ES-P08R ES-P01A ES-P01B ES-P01C ES-P01D ES-P01E ES-P01F ES-P01G ES-P01H ES-P01J ES-P01K ES-P01L ES-P01MK ES-P01M ES-P01MDA ES-P01MD ES-P01N ES-P01X ES-P01R ES-M01K

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ES-P01P4
ES-P01P5
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ES-P01UB
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ES-SL02B-24W
ES-SL02B-30W
ES-SL02B-40W
ES-SL02AW-10W
ES-SL02AW-12W
ES-SL02AW-15W
ES-SL02AW-20W
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ES-SL02BW-24W
ES-SL02BW-30W
ES-SL02BW-40W
ES-SL02AK-10W
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ES-SL02BWK.40W
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ES-SL03A-C12W
ES-SL03A-C15W
ES-SL03A-C20W
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ES-SL03B-C24W
ES-SL03B-C30W
ES-SL03B-C40W
ES-SL03AW-C10W
ES-SL03AW-C12W
ES-SL03AW-C15W
ES-SL03AW-C20W
ES-SL03BW-C20W
ES-SL03BW-C24W
ES-SL03BW-C30W
ES-SL03BW-C40W
ES-SL03AK-C10W
ES -SL03AK-C12W
ES-SL03AK-C15W
ES-SL03AK-C20W
ES -SL03BK-C20W
ES-SL03BK-C24W
ES-SL03BK-C30W
ES-SL03BK-C40W
ES-SL03AWK-C10W
ES-SL03AWK-C12W
ES-SL03AWK-C15W
ES-SL03AWK-C20W

COUNTRY OF ORIGIN

: China

SAMPLE RECEIVED DATE

: 30 - Jun - 2025

FURTHER INFORMATION DATE

: 17 - Jul - 2025

TURN AROUND TIME

: 01 - Jul - 2025 to 17 - Jul - 2025

TEST SPECIFICATION

: Total concentration of Lead, Cadmium, Mercury, Chromium VI, Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs) , Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP) , Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) in

accordance with EC Directive 2011/65/EU and its amendment
Directive (EU) 2015/863 (RoHS)

CONCLUSION

- : Based on the analysis on the submitted sample(s), the test results do comply with the concentration limits as specified in Annex II to Directive 2011/65/EU and its amendment Directive (EU) 2015/863.

The reference item number(s) has/have not been tested in current report, but according to applicant's request, the item number(s) has/have also been included.

The following test item(s) was/were performed on submitted sample(s) and/or component(s) appointed by applicant.

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***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
Eurofins Product Testing Service (Hangzhou) Co., Ltd




Lincoln Shi
Operation Manager

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SAMPLE PHOTO(S)



EFHZ25070213-CG-01

TO BE CONTINUED

COMPONENT PHOTO(S)



1



2



3



4



5



6



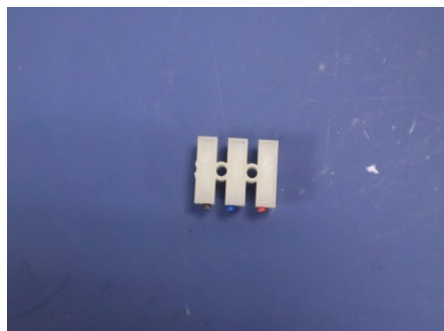
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8



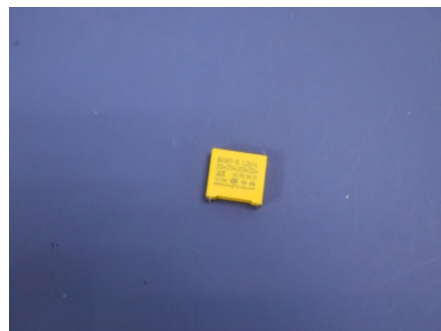
9



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TO BE CONTINUED

COMPONENT PHOTO(S)



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TO BE CONTINUED

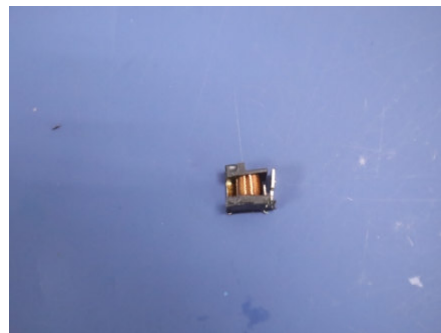
COMPONENT PHOTO(S)



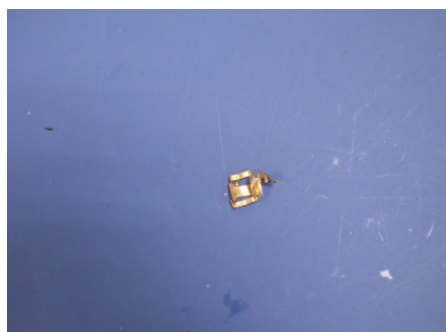
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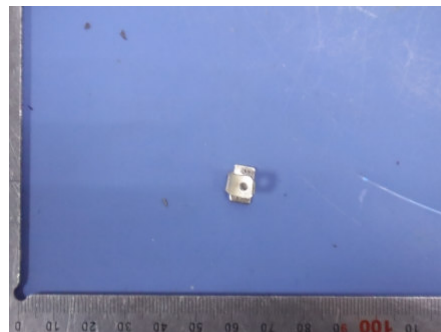
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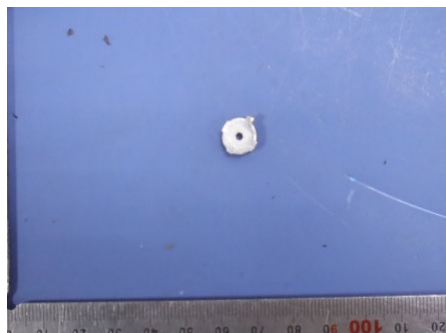
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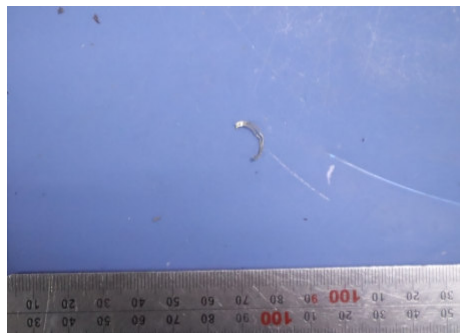
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TO BE CONTINUED

COMPONENT PHOTO(S)



37

TO BE CONTINUED

TEST RESULT

Part 1

A. Screening Test by XRF Spectroscopy

As specified by client, to analyze the contents of Lead, Cadmium, Mercury, Chromium, Bromine in the submitted sample by XRF. Screening limits in mg/kg for regulated elements in various matrices according to IEC 62321-3-1:2013

No.	Component	Test Results (mg/kg)				
		Cd	Pb	Hg	Cr	Br
		Limit (mg/kg)				
		100	1000	1000	Cr(VI): 1000	PBB:1000 PBDE:1000
1	White plastic block 1	BL	BL	BL	BL	BL
2	White plastic block 2	BL	BL	BL	BL	BL
3	White plastic block 3	BL	BL	BL	BL	BL
4	White plastic block 4	BL	BL	BL	BL	BL
5	Translucent plastic block 1	BL	BL	BL	BL	BL
6	Black plastic block 1	BL	BL	BL	BL	BL
7	Black plastic block 2	BL	BL	BL	BL	BL
8	Black plastic block 3	BL	BL	BL	BL	BL
9	Black plastic block 4	BL	BL	BL	BL	BL
10	Translucent plastic block 2	BL	BL	BL	BL	NC
11	Black component	BL	BL	BL	BL	NC
12	Yellow component	BL	BL	BL	BL	NC
13	White circuit board	BL	BL	BL	BL	NC
14	Red wire sheath	BL	BL	BL	BL	BL
15	Black wire sheath	BL	BL	BL	BL	BL
16	Blue wire sheath	BL	BL	BL	BL	BL
17	White transparent soft plastic block	BL	BL	BL	BL	BL
18	Black soft plastic block	BL	BL	BL	BL	BL
19	Black plastic block 5	BL	BL	BL	BL	NC
20	Black soft plastic sleeve	BL	BL	BL	BL	BL
21	Silver metal block 1	BL	BL	BL	NC	NA
22	Silver metal block 2	BL	BL	BL	NC	NA
23	Silver metal block 3	BL	BL	BL	NC	NA
24	Silver metal screw	BL	BL	BL	NC	NA
25	Silver component	BL	BL	BL	NC	NA
26	Copper colored wire	BL	BL	BL	NC	NA
27	Copper colored metal coil	BL	BL	BL	NC	NA
28	Copper colored metal sheet 1	BL	BL	BL	NC	NA
29	Black component	BL	BL	BL	NC	NA
30	Silver solder	BL	NC	BL	NC	NA
31	Transparent plastic lamp bead	BL	BL	BL	BL	NC
32	Grey component	BL	BL	BL	BL	BL
33	Silver metal block 4	BL	BL	BL	NC	NA
34	Silver metal block 5	BL	BL	BL	NC	NA
35	Silver metal block 6	BL	BL	BL	NC	NA
36	Copper colored metal sheet 2	BL	BL	BL	NC	NA
37	Silver metal sheet	BL	BL	BL	NC	NA

TO BE CONTINUED

TEST RESULT

Abbreviation:	Pb	denotes Lead
	Cd	denotes Cadmium
	Hg	denotes Mercury
	Cr	denotes Chromium
	Cr(VI)	denotes Chromium(VI)
	Br	denotes Bromine
	PBBs	denotes Total Polybrominated Biphenyls
	PBDEs	denotes Total Polybrominated Diphenyl Ethers
	NA	denotes Not Applicable
	NC	denotes Not Conclusive
	BL	denotes Below limit

XRF Screening limits for different materials:

Element	Polymers	Metals	Composite Material
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	/	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

Note:

BL= Below limit

X = The region where further investigation is necessary

OL = Over limit

3σ = The repeatability of the analyzer at the action level

LOD = Limit of detection

XRF testing results are only used for reference.

TO BE CONTINUED

TEST RESULT

B. Confirmation Test by Wet Chemistry

Tested Item(s)	Test Method	Measured Equipment	MDL
Lead (Pb) /Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	10 mg/kg
Mercury (Hg)	IEC 62321-4:2013/AMD1:2017	ICP-OES	10 mg/kg
Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015	UV-Vis	0.01µg/cm ²
	IEC62321-7-2:2017		10 mg/kg
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	50 mg/kg
Polybrominated DiphenylEthers (PBDEs)			

Component No.	Boiling-water-extraction for Cr(VI) (*1)
21	Negative
22	Negative
23	Negative
24	Negative
25	Negative
26	Negative
27	Negative
28	Negative
29	Negative
30	Negative
33	Negative
34	Negative
35	Negative
36	Negative
37	Negative

Remark:

(*1) The screening result of Chromium (VI) was found in the inconclusive region, Thus the Chromium(VI) content in surface layer have been confirmed with reference to IEC 62321-7-1:2015.

Negative - The Cr(VI) concentration is below 0.10µg/cm².The coating is considered a non-Cr(VI) based coating.

TO BE CONTINUED

TEST RESULT

Component No.	Test Results (mg/kg)					
	Cd	Pb	Hg	Cr (VI)	PBBs	PBDEs
	Limit (mg/kg)					
	100	1000	1000	1000	1000	1000
10	\	\	\	\	ND	ND
11	\	\	\	\	ND	ND
12	\	\	\	\	ND	ND
13	\	\	\	\	ND	ND
19	\	\	\	\	ND	ND
30	\	74	\	\	\	\
31	\	\	\	\	ND	ND

Note:

The sample had been dissolved totally tested for Lead, Cadmium, Mercury.

MDL = method detection limit

ND = not detected (<MDL)

mg/kg = ppm = parts per million

µg/cm² = micrograms per square centimeter

TO BE CONTINUED

TEST RESULT

Part 2

Diisobutyl phthalate (DIBP), Bis (2- ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP) and Dibutyl phthalate (DBP)

Test specification : Total concentration of Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP) , Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) in accordance with EC Directive 2011/65/EU and its amendment Directive (EU) 2015/863 (RoHS)

Test method : IEC 62321-8:2017

Limit : Annex II to Directive 2011/65/EU and its amendment Directive (EU) 2015/863

Component	Test Results (%)			
	DIBP	DEHP	BBP	DBP
	Limit (%)			
	0.1%	0.1%	0.1%	0.1%
1	BL	BL	BL	BL
2	BL	BL	BL	BL
3	BL	BL	BL	BL
4	BL	BL	BL	BL
5	BL	BL	BL	BL
6	BL	BL	BL	BL
7	BL	BL	BL	BL
8	BL	BL	BL	BL
9	BL	BL	BL	BL
10	BL	BL	BL	BL
11	BL	BL	BL	BL
12	BL	BL	BL	BL
13	BL	BL	BL	BL
14	BL	BL	BL	BL
15	BL	BL	BL	BL
16	BL	BL	BL	BL
17	BL	BL	BL	BL
18	BL	BL	BL	BL
19	BL	BL	BL	BL
20	BL	BL	BL	BL
31	BL	BL	BL	BL

Note:

1. ND = Not Detected (<0.005%)
2. 0.1% equals to 1000 mg/kg
3. Screening results of Phthalates (PHTH) are for primary testing, further chemical confirmation will performed by GC -MS if the concentration exceeds the below warning value.

Test Items	Polymers/ Composite Material
Diisobutyl Phthalate (DIBP)	BL≤ 0.06%<X
Dibutyl Phthalate (DBP)	BL≤ 0.06%<X
Benzylbutyl Phthalate (BBP)	BL≤ 0.06%<X
Bis(2-ethylhexyl) Phthalate (DEHP)	BL≤ 0.06%<X

TO BE CONTINUED

TEST RESULT

BL= Below limit

X = The region where further confirmation is necessary

END OF THE REPORT