

CENTRE OF TESTING SERVICE INTERNATIONAL

**OPERATE ACCORDING TO ISO/IEC 17025** 

# **TEST REPORT**

# RoHS 2011/65/EU

Test Report Number : CGZ3150109-00118-C-R1



CTS (Guangzhou) Testing Service Technology Co., Ltd. G.Z. test site: GZ test site: A101, No.65, Zhuji Road, Tianhe District, Guangzhou, Guangdong, China PHONE +86-20-85543113 FAX +86-20-38780406





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#### 1 **General Information**

#### 1.1 Application Details

Name Address	:	Guangzhou Osen Electrical Co., Ltd. No.1-2,Lanyue North Street,Taishi,Dongyong Town,Panyu District,Guangzhou,China
Contact Telephone	:	Mr. Peng +86-20-34920388-358
Fax Mobile telephone Email	:	+86-20-34920387 13660771536 osenlighting@163.com

#### 1.2 Manufacturer & Buyer

Manufacturer name	: Guangzhou Osen Electrical Co., Ltd.
Address	: No.1-2,Lanyue North Street,Taishi,Dongyong Town,Panyu
	District, Guangzhou, China
Contact	: Mr. Peng
Telephone	: +86-20-34920388-358
Fax	: +86-20-34920387
Mobile telephone	: 13660771536
Email	: osenlighting@163.com
Buyer name	: /

### 1.3 Description of the Test Item

Sample name Model No.	:	Fixed lamp 10002031, 10003031, 10004031, 10005031, 1045031, 50001031, 50002031, 40193013, P16961, 40194031, P16961C
Brand name Condition of sample(s)	•	OSEN EFFECTIVE

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#### 2 Test results

### 2.1 Sample Receiving Date

Jan. 10, 2015

#### 2.2 Testing Period

Jan. 10, 2015 to Jan. 15, 2015

#### 2.3 Test Requested

In accordance with the RoHS Directive 2011/65/EU Annex II.

#### 2.4 Test Method

- 1. X-Ray Fluorescence Spectrometry method in reference to IEC 62321-3-1:2013.
- 2. Chemical test method

Test Item(s)	Test Method	Test Instrument
Lead (Pb)	With reference to IEC 62321-5:2013	ICP-AES
Cadmium (Cd)	With reference to IEC 62321-5:2013	ICP-AES
Mercury (Hg)	With reference to IEC 62321-4:2013	ICP-AES
Chromium VI (Cr VI)	With reference to IEC 62321:2008	UV-Vis
PBBs	With reference to IEC 62321:2008	GC-MS
PBDEs		GC-1013

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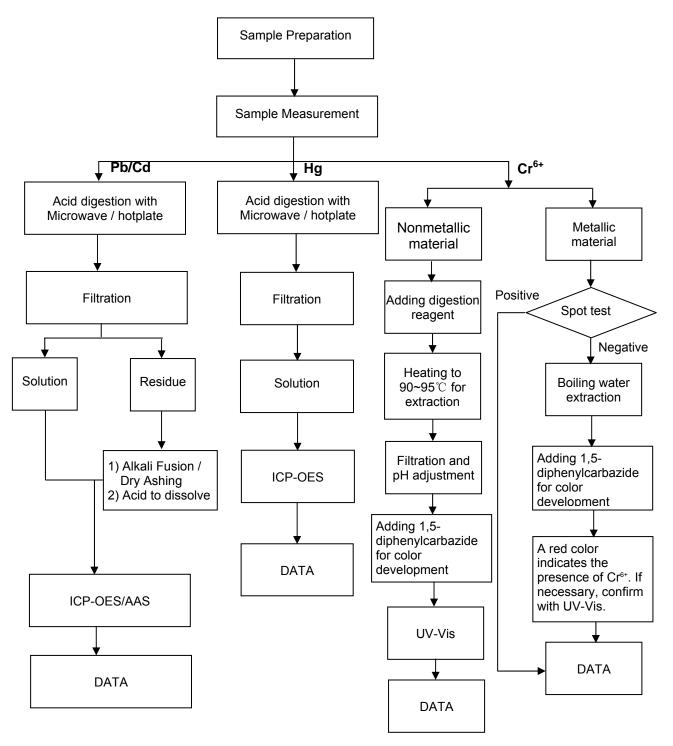
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#### 2.5 Chemical Test Method Flow Chart



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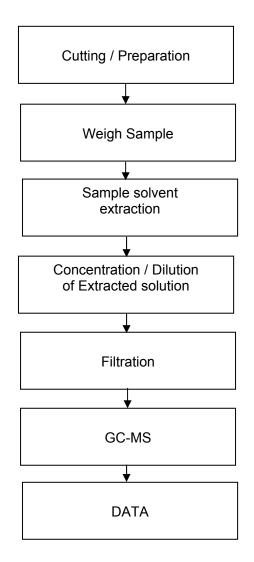
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#### **PBBs / PBDEs**



#### 2.6 Conclusion

Based on the performed tests on submitted samples, the results of Lead, Cadmium, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

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#### 2.7 Test Results

#### 2.7.1 Test results of all parts by EDXRF and chemical confirmation

No.		Sample Description		I	Result	s		Chemical Confirmation Result
INO.		Sample Description		Cd	Hg	Cr	Br	(Unit=mg/kg)
1	Silvery metal frame			Ρ	Ρ	Ρ	/	
2		Bright silvery metal frame	Р	Ρ	Ρ	Ρ	/	
3		White plastic film	Р	Ρ	Ρ	Ρ	Ρ	
4		Silvery metal screw	Р	Ρ	Ρ	Ρ	/	
5	Silvery metal nut			Ρ	Ρ	Ρ	/	
6	Silvery metal ring			Ρ	Ρ	Ρ	/	
7▲	Silvery-grey metal ring			Ρ	Ρ	Ρ	/	
8	Transparent plastic			Ρ	Ρ	Ρ	Ρ	
9	White sticker with black printing			Ρ	Ρ	Ρ	Ρ	
10	Black EVA			Ρ	Ρ	Ρ	Ρ	
11	Black plastic			Ρ	Ρ	Ρ	Ρ	
12		White plastic	Р	Ρ	Ρ	Ρ	Ρ	
13		Beige plastic	Р	Ρ	Ρ	Ρ	Ρ	
14		Bright silvery metal block	Х	Ρ	Ρ	Ρ	/	Pb=2.2×10 <sup>4</sup> *
15▲		Semi-transparent plastic	Р	Ρ	Ρ	Ρ	Ρ	
16		Blue cable jacket	Р	Р	Ρ	Ρ	Р	
17	Wire	Red cable jacket	Р	Р	Ρ	Ρ	Ρ	
18		Black cable jacket	Р	Р	Ρ	Ρ	Р	

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				Results			Chemical Confirmation		
No.	Sample Description			Pb	Cd	Hg	Cr	Br	Result (Unit=mg/kg)
19		Brown c	able jacket	Р	Р	Р	Ρ	Ρ	
20		Black pyrocor	ndensation tube	Р	Р	Р	Ρ	Ρ	
21	\\/ine	White pr	otect tube	Р	Р	Р	Ρ	Р	
22	Wire	Сорр	er wire	Р	Р	Р	Ρ	/	
23		Transpa	rent jacket	Р	Р	Р	Р	Р	
24		Silve	ry wire	Р	Р	Р	Р	/	
25▲		White f	iberboard	Р	Р	Р	Р	Х	PBBs,PBDEs= N.D.
26		Сор	per foil	Р	Р	Р	Р	/	
27		Solo	der tin	Р	Р	Р	Р	/	
28▲		Chij	o LED	Р	Р	Р	Ρ	Х	PBBs,PBDEs= N.D.
29			Green plastic	Р	Р	Р	Ρ	Р	
30		Connection base	Blue plastic	Р	Р	Р	Р	Р	
31		5000	Silvery metal wafer	Р	Р	Р	Х	/	CrVI=N.D.
32		Tasasfamasan	Enamelled wire	Р	Р	Р	Р	Р	
33	PCB	Transformer	Yellow adhesive tape	Ρ	Р	Р	Ρ	Р	
34		Transformer	Black metal winding column	Ρ	Р	Р	Ρ	/	
35		Transionnei	Black plastic base	Р	Р	Р	Ρ	Р	
36		Brown	Brown encapsulation material	Р	Р	Р	Р	Р	
37		polyester capacitor	Capacitor film	Ρ	Р	Р	Ρ	Ρ	
38			Pin	Ρ	Р	Р	Ρ	/	
39		Rectifier diode	Black solid with silvery printing body	Ρ	Ρ	Р	Ρ	Ρ	

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	Sample Description				F	Results	;		Chemical Confirmation
No.				Sample Description Pb Cd Hg Cr Br				Br	Result (Unit=mg/kg)
40		C	Chip diode	Р	Ρ	Ρ	Р	х	PBBs,PBDEs= N.D.
41		CI	nip resistor	х	Ρ	Ρ	х	Ρ	Pb=1.2×10 <sup>3 △</sup> CrⅦ=N.D.
42		Ch	ip capacitor	Р	Р	Р	Р	Р	
43			Yellow plastic cover	Р	Р	Р	Р	Р	
44		Yellow capacitance	Yellow encapsulation material	Р	Р	Р	Р	Р	
45			Black soft plastic coat	Р	Ρ	Р	Ρ	Р	
46	PCB	In-line inductance	Enamelled wire	Р	Р	Р	Р	Р	
47			Winding column	Р	Р	Р	Ρ	Р	
48		Color wheel resistor	Blue body	Р	Р	Р	Ρ	Р	
49		Aluminum electrolytic	Black plastic jacket with white printing	Р	Р	Р	Ρ	Р	
50		capacitor	Silvery metal cover	Р	Р	Р	Р	/	
51 <sup>◆</sup>		Ceramic	Green body	Р	Р	Ρ	Ρ	Ρ	
52 <sup>•</sup>		capacitor	Pin	Р	Р	Ρ	Ρ	/	
53		White	hot-melt glue	Р	Р	Р	Ρ	Р	

Note : P = Below Limit (Pass)

F = Over Limit (Fail)

X = Inconclusive

N.D. = not detected (less than MDL)

1mg/kg=1ppm=0.0001%

\* According to the declaration from client, the source of lead in the sample could be from the copper alloy material. Lead as a copper alloy containing which is under 4% (40000ppm) is exempted from the requirement of RoHS Directive (Annex III,2011/65/EU).

<sup>△</sup>According to the declaration from client, the source of lead in the sample could be from the ceramic parts. Lead in electronic ceramic parts is exempted from the requirement of RoHS Directive (Annex III,2011/65/EU).

\*The test results are taken from report CGZ3130227-00435-C, Date:2013/03/22. In

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the event of any discrepancy, the report CGZ3130227-00435-C shall prevail. <sup>▲</sup>The test results are taken from report CGZ3130622-01845-C, Date:2013/07/05. In the event of any discrepancy, the report CGZ3130622-01845-C shall prevail.

Remarks:

(1) Results are obtained by EDXRF for primary screening, and further chemical testing is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1: 2013.

Element	Polymer Materials	Metallic Materials	Electronic Materials
Pb	P ≤ 500 < X < 1300 ≤ F	P ≤ 500 < X < 1300 ≤ F	P ≤ 500 < X < 1300 ≤ F
Cd	P ≤ 50 < X < 130 ≤ F	P ≤ 50 < X < 130 ≤ F	X < 130 ≤ F
Hg	P ≤ 500 < X < 1300 ≤ F	P ≤ 500 < X < 1300 ≤ F	P ≤ 500 < X < 1300 ≤ F
Cr	P ≤ 700 < X	P ≤ 700 < X	P ≤ 500 < X
Br	P ≤ 250 < X	1	P ≤ 250 < X

(2) Chemical Confirmation Result acceptable Limit:

Test items	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (CrVI)	PBBs	PBDEs
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acceptable Limit	1000	100	1000	1000	1000	1000

(3) The test results only apply to the materials requested by applicant.

#### 3 **Combined Survey Report Contents**

Test report R	Report No
---------------	-----------

Mar 22, 2014

Issue date

AOV A001R140311076001 Conclusion: Based on the reports submitted by applicant, CTS quote the test data from the original reports as following

Survey part		
Part name No.1	:	Electronic Transformer, Dimmer, LED Driver, Switching Power
		Supply, EHID
Vendor	:	Eaglerise Electric & Electronic (China) Co., Ltd
Report No	:	AOV A001R140311076001

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		Item	Pb	Cd	Hg	Cr <sup>6+</sup>	PBBs	PBDEs	
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
		Limit	1000	100	1000	1000	1000	1000	
		White cabl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Wire	Light blue ca	N.D.	N.D	N.D	N.D	N.D.	N.D.	
	vvire	Dark brown c	able jacket	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
		Solder	N.D.	N.D.	N.D.	N.D.	N.D.	/	
		Green	Flux	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
		fiberboard	Substrate	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
		Silvery me	N.D.	N.D.	N.D.	N.D.	N.D.	/	
		Silvery metal	N.D.	N.D.	N.D.	N.D.	N.D.	/	
		Connection base	Silvery-white metal screw	N.D.	N.D.	N.D.	N.D.	N.D.	1
Part			Yellow paint	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
No.1		Transformer	Pin	N.D.	N.D.	N.D.	N.D.	N.D.	/
			Transparent cable jacket	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	PCB	Blue Y capacitor	Blue body	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
			Pin	N.D.	N.D.	N.D.	N.D.	N.D.	1
		Yellow Y capacitor	Yellow body	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
			Pin	N.D.	N.D.	N.D.	N.D.	N.D.	1
		Black Y capacitor	Black body	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
			Pin	N.D.	N.D.	N.D.	N.D.	N.D.	/
		Rectifier diode	Pin	N.D.	N.D.	N.D.	N.D.	N.D.	/
		Chip voltage re	209505	N.D.	N.D.	N.D.	N.D.	N.D.	

Test Data Summarv

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ltem					Pb	Cd	Hg	Cr <sup>6+</sup>	PBBs	PBDEs
Unit				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
	Limit					100	1000	1000	1000	1000
Part No.1	PCB	Field-effect tul	20	body	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
110.1			Je	Pin	N.D.	N.D.	N.D.	N.D.	N.D.	/
		Audion		Black body	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
		Audion		Pin	N.D.	N.D.	N.D.	N.D.	N.D.	/
		Yellow		Capacitor film	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
		capacitance		Pin	N.D.	N.D.	N.D.	N.D.	N.D.	/
		In-line inductance		Yellow paint	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
				Pin	N.D.	N.D.	N.D.	N.D.	N.D.	/
		Color wheel		Blue body	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
		resistor		Pin	N.D.	N.D.	N.D.	N.D.	N.D.	/
			Black plastic jacket with yellow printing		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
				Green plastic ket with yellow printing	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
		Aluminum	Bla	ack rubber end closure	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
		electrolytic capacitor		Pin	N.D.	N.D.	N.D.	N.D.	N.D.	/
			Ca	apacitor anode film	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
			Ca	pacitor cathode film	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
				Paper film	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
		fuse	E	Brown plastic cover	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
			Bla	ick plastic base	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

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ltem					Cd	Hg	Cr <sup>6+</sup>	PBBs	PBDEs
Unit					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Limit					100	1000	1000	1000	1000
			Silvery fuse	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
			Pin	N.D.	N.D.	N.D.	N.D.	N.D.	/
		Ring B inductance	Green coating	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
			Black metal ring	N.D.	N.D.	N.D.	N.D.	N.D.	/
			Black plastic base	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Part	Part No.1 PCB		Enamelled wire ( Yellow )	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
No.1			Yellow paint	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
			Enamelled wire ( Red )	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
			Pin	N.D.	N.D.	N.D.	N.D.	N.D.	/
			Transparent cable jacket	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

Note

- : 1. N.D.=Not detected (<MDL)
  - 2. N.A.=Not applicable
  - 3. N.C.=Not conducted
  - 4. 1mg/kg=1ppm=0.0001%
  - 5. The lead content in glass of electronic components is exempted from the requirement of Directive 2011/65/EU (RoHS)

Disclaim

: 1.The method detect limit of other labs may be different from that of CTS.

2. CTS has combined the submitted test reports only for any substances in the third party test report submitted by the applicant. The applicant and/or manufacturer of the submitted products are solely and fully responsible for conformity and determination of compliance of all manufactured products to all applicable standards, specifications, requirements, laws or regulations CTS is not responsible for and gives no any judgement to the third party data.

Written by: Amonda Inspected by: Anne Approved by:

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

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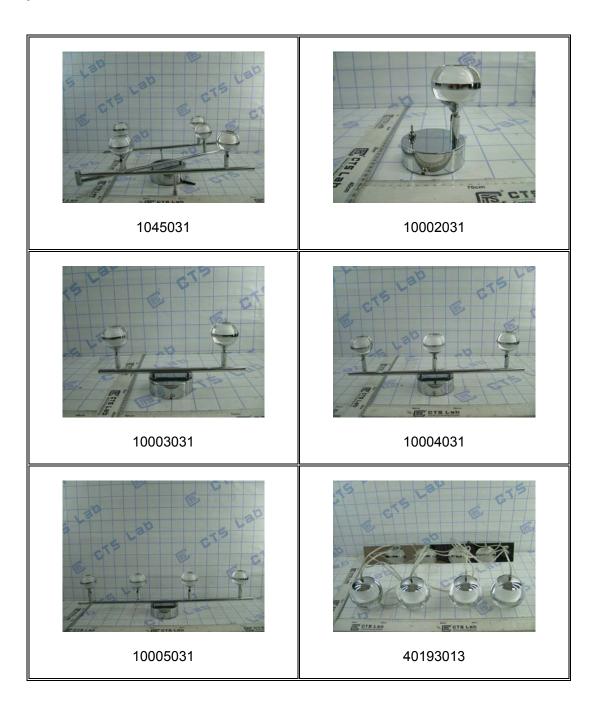


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#### **Sample Reference Photo** 4



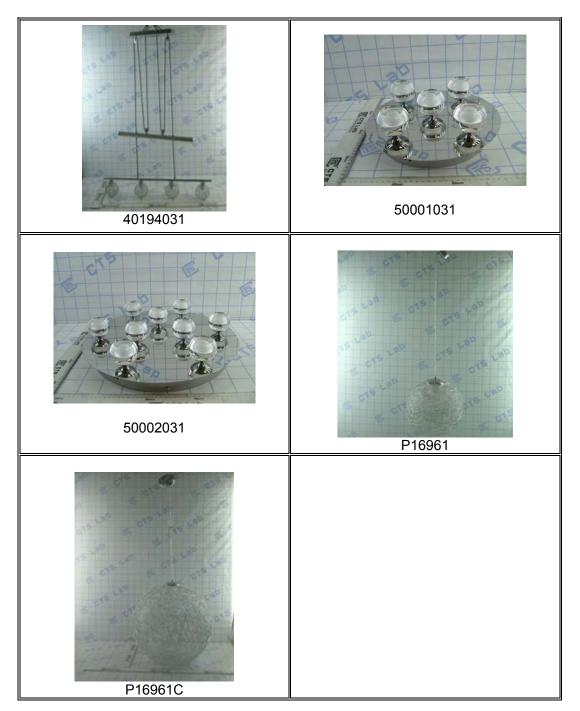
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