



Test Report

Report No: BSTSH191011816401CR-R4

Date: Oct.18, 2019

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Applicant : SHANDONG LANHANG LIGHTING TECHNOLOGY CO., LTD.
Address : Qianhuangmiao Area, Chaoyang District, Economic Technology Development Zone, Linyi, China, 276000
Manufacturer : LINYI YUHANG LIGHTING ELECTRIC APPLIANCE CO., LTD.
Address : Economic Technology Development Zone, Linyi, China, 276000

The following sample(s) was /were submitted and identified on behalf of the clients as:

Sample Name : HALOGEN LAMP
Trade Name : UHI
Sample Model : 220-240V,500W(See Annex)
Sample Received Date : Oct.14, 2019
Testing Period : Oct.14, 2019 To Oct.18, 2019
Test Requested : Selected test (s) in the selected parts as requested by client with the RoHS 2 Directive 2011/65/EU Annex II (EU) 2015/863 as last amended by Directive (EU) 2017/2102.
Test Method : Please refer to next page(s).
Test Result : Please refer to next page(s).

Signed for and on behalf of

Tony Qian/ Approved Signatory

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Test Content:

Test Item(s)	Test Method	Reference	Unit	Limit	MDL
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES	mg/kg	100	2
Lead(Pb)	IEC 62321-5:2013	ICP-OES	mg/kg	1000	2
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	mg/kg	1000	2
Hexavalent Chromium(CrVI) (Metal)	IEC 62321-7-1:2015	UV-Vis	µg/cm ²	0.13	0.1
Hexavalent Chromium(CrVI) (Nonmetal)	IEC 62321-7-2:2017	UV-Vis	mg/kg	1000	8
PBBs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
PBDEs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
Dibutyl Phthalate(DBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Butyl benzyl phthalate (BBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Di-(2-ethylhexyl) Phthalate(DEHP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Diisobutyl phthalate (DIBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30

PBBs		PBDEs	
Monobromobiphenyl	Hexabromobiphenyl	Monobromodiphenyl ether	Hexabromodiphenyl ether
Dibromobiphenyl	Heptabromobiphenyl	Dibromodiphenyl ether	Heptabromodiphenyl ether
Tribromobiphenyl	Octabromobiphenyl	Tribromodiphenyl ether	Octabromodiphenyl ether
Tetrabromobiphenyl	Nonabromobiphenyl	Tetrabromodiphenyl ether	Nonabromodiphenyl ether
Pentabromobiphenyl	Decabromobiphenyl	Pentabromodiphenyl ether	Decabromodiphenyl ether

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Sample Description:

No.	Description	Name
1	Metal	Metal Sheets
2	Plastic	White Line Skin
3	Metal	Wire Core
4	Ceramics	Ceramics
5	Glass	Glass
6	Metal	Filament

Test Result:

Test Item(s)	No.1	No.2	No.3
Cadmium (Cd)	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.
PBBs	--	N.D.	--
PBDEs	--	N.D.	--
Dibutyl Phthalate (DBP)	--	N.D.	--
Butyl benzyl phthalate (BBP)	--	N.D.	--
Di-(2-ethylhexyl) Phthalate(DEHP)	--	N.D.	--
Diisobutyl phthalate (DIBP)	--	N.D.	--

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Test Item(s)	No.4	No.5	No.6
Cadmium (Cd)	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.
PBBs	--	--	--
PBDEs	--	--	--
Dibutyl Phthalate (DBP)	--	--	--
Butyl benzyl phthalate (BBP)	--	--	--
Di-(2-ethylhexyl) Phthalate(DEHP)	--	--	--
Diisobutyl phthalate (DIBP)	--	--	--

- Note:**
1. mg/kg= ppm
 2. N.D.= Not Detected(<MDL)
 3. MDL = Method Detection Limit
 4. -- = No Testing
 5. when Cr(VI) in a sample is detected below the 0.10 $\mu\text{g}/\text{cm}^2$ LOQ (limit of quantification), the sample is considered to be negative for Cr(VI). Since Cr(VI) may not be uniformly distributed in the coating even within the same sample batch, a "grey zone" between 0.10 $\mu\text{g}/\text{cm}^2$ and 0.13 $\mu\text{g}/\text{cm}^2$ has been established as "inconclusive" to reduce inconsistent results due to unavoidable coating variations. In this case, additional testing may be necessary to confirm the presence of Cr(VI). When Cr(VI) is detected above 0.13 $\mu\text{g}/\text{cm}^2$, the sample is considered to be positive for the presence of Cr(VI) in the coating layer. unavoidable coating variations may influence the determination Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

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Annex:

APL/IR31APL : 117MM 240V 300W
INF6424-300CIR : 117MM 240V 300W
INF6424-300JKT: 118MM 240V 300W
INF6424-100JKT: 117MM 240V 100W
INF6424-200JKT: 117MM 240V 200W
INF6424-500JKT: 117MM 240V 500W
INF6424-22300JKT: 117MM 240V 300W
INF6424-22500JKT: 117MM 240V 500W
357019: 254MM 235V 500W
357075: 190MM 230V 200W
358198: 117.6MM 240V 300W
358200: 117.6MM 240V 100W
358201: 117.6MM 240V 150W
359305: 78MM 230V 60W
359313: 117.6MM 230V 150W
359331: 220MM 230V 300W
359496: GU5.3 12V 50W
359537: 349MM 240V 1000W
359539: 218MM 240V 500W
359581: 218MM 240V 300W
359616: 78MM 230V 150W
359617: 480MM 1000W 220V
359618: 214MM 110V 500W
359621: 117.6MM 230V 500W
359622: 428MM 230V 1000W
359624: 340MM 230V 1000W
359625: 226MM 220-250V 500W
359626: 349MM 220-250V 1000W
359627: 220MM 230V 500W
359629: 260MM 230V 650W
359632: 260MM 230V 500W
359638: 330MM 230V 1000W
359647: 117.6MM 230V 200W
359678: 349MM 230V 365W
359679: 640MM 240V 833W
359694: 122MM 220-240V 300W
463753: ϕ 51MM 12V 35W
360667: 117.6MM 240V 150W
359539; 218MM 240V 200W
415302: 420MM 230V 400W
415309: 340MM 230V 400W
415311: 410MM 230V 1000W
416152: 390MM 230V 500W
416153: 530MM 230V 600W
416414: 385MM 115V 500W

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416482: 280MM 115V 400W
416484: 260MM 115V 500W
416485: 390MM 110V 600W
416494: 240MM 115V 500W
416562: 510MM 110V 700W
416564: 345MM 110V 400W
416708: 380MM 115V 750W
416713: 525MM 76V 525W
416729: 330MM 230V 600W
416737: 320MM 220-240V 250W
416738: 355MM 220-240V 500W
416761 340MM 115V 450W
416766: 425MM 77V 735W
416914: 478MM 77V 530W
417216: 340MM 115V 295W
417217: 340MM 115V 200W
418625: 365MM 115V 500W
418820: 545MM 76V 460W
420089: 365MM 115V 600W
220V 400W; 220V 500W; 220V 600W; 220V 700W; 220V 800W; 220V 850W; 220V 900W;
220V 1000W; 220V 1100W; 220V 1200W; 220V 1250W; 220V 1300W; 220V 1400W;
220V 1500W; 220V 1600W; 220V 1700W; 220V 1800W; 220V 1850W; 220V 1900W;
220V 2000W; 220V 2100W; 220V 2200W; 220V 2300W; 220V 2400W; 220V 2450W;
220V 2500W; 220V 2600W; 220V 2700W; 220V 2800W; 220V 2850W; 220V 2900W;
220V 3000W; 220V 3500W; 380V 400W; 380V 500W; 380V 600W; 380V 700W;
380V 800W; 380V 850W; 380V 900W; 380V 1000W; 380V 1100W; 380V 1200W;
380V 1250W; 380V 1300W; 380V 1400W; 380V 1500W; 380V 1600W; 380V 1700W;
380V 1800W; 380V 1850W; 380V 1900W; 380V 2000W; 380V 2100W; 380V 3800W;
380V 2300W; 380V 2400W; 380V 2450W; 380V 2500W; 380V 2600W; 380V 2700W;
380V 2800W; 380V 2850W; 380V 2900W; 380V 3000W; 380V 3500W

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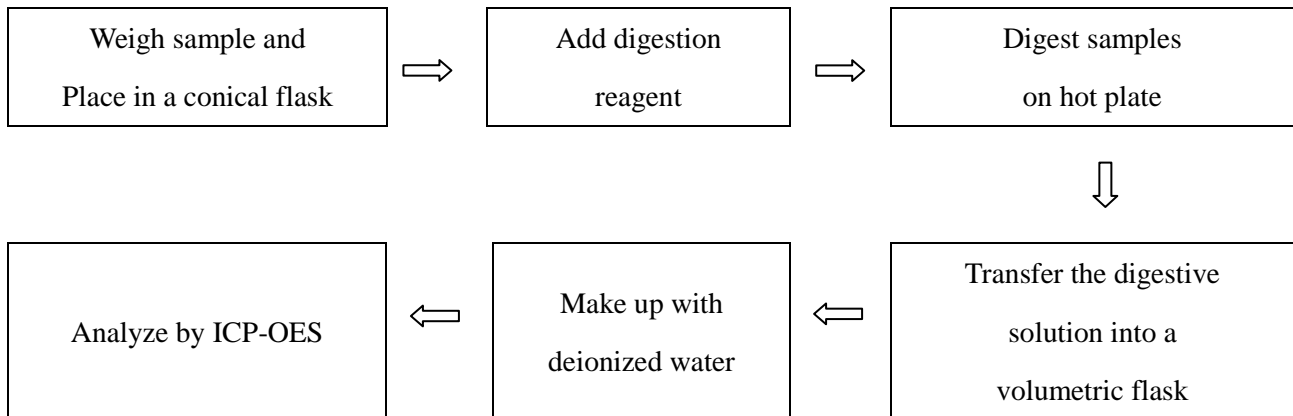
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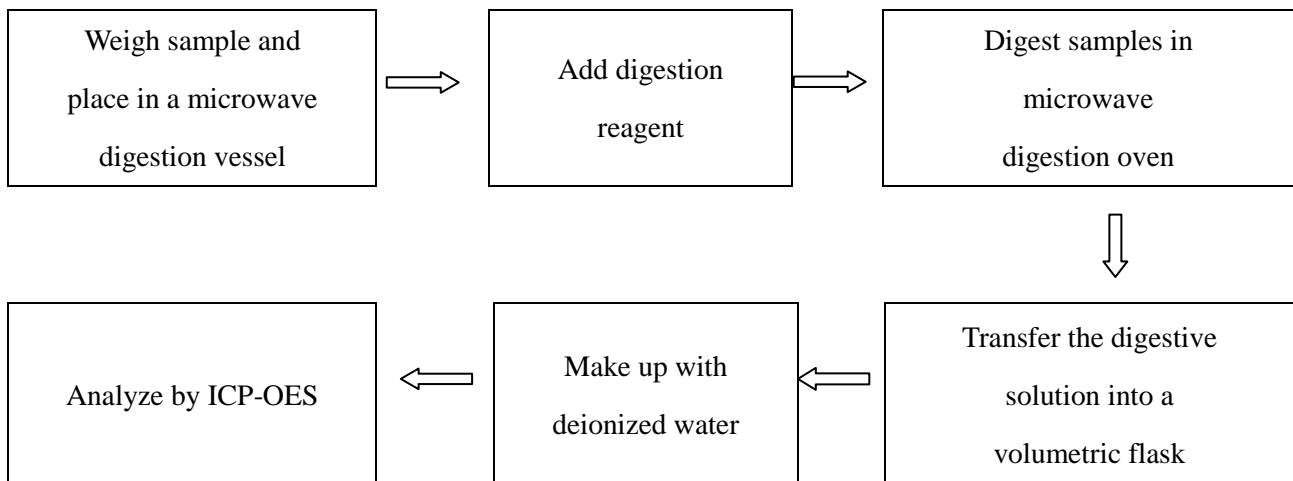
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Test Process:

1. Test for Cd/Pb Content



2. Test for Hg Content



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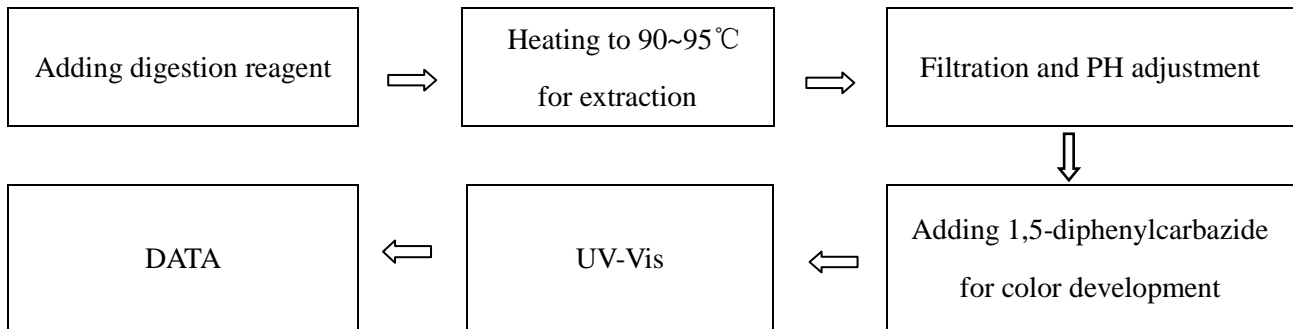
Report No: BSTSH191011816401CR-R4

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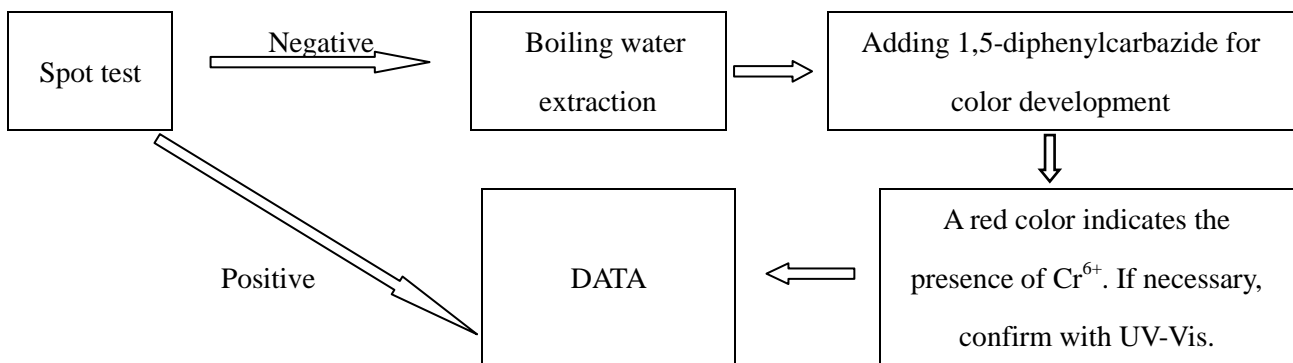
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3. Test for Chromium (VI) Content

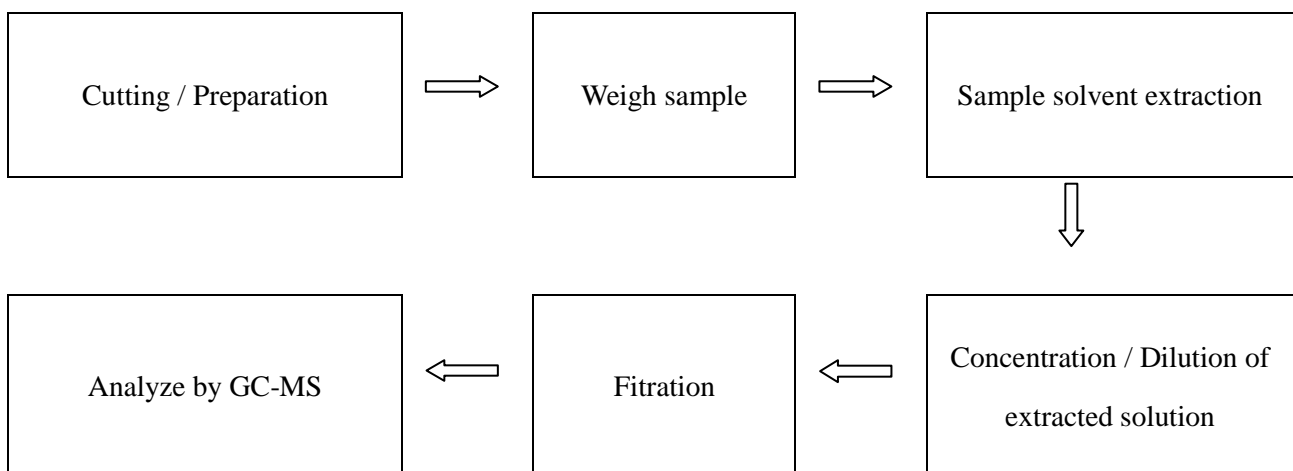
Nonmetal material



Metal material



4. Test for DBP, BBP, DEHP, DIBP, PBB, PBDE Content



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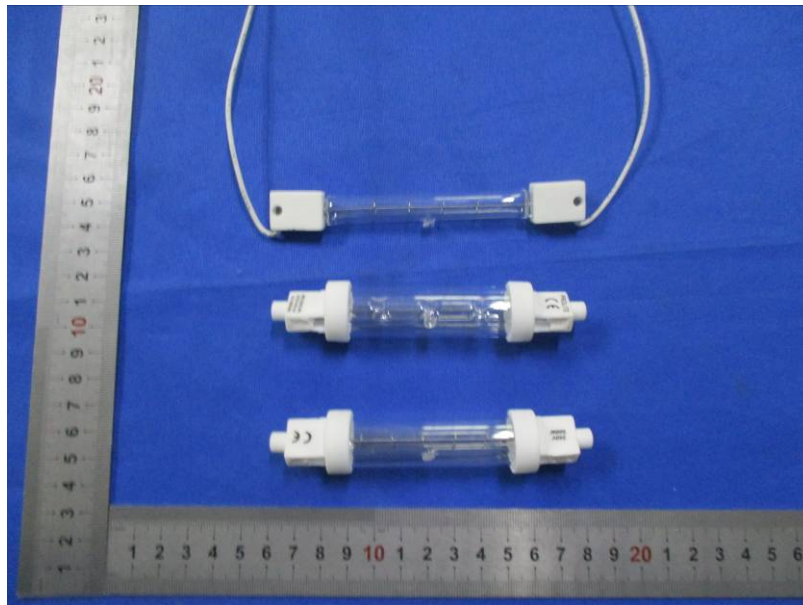
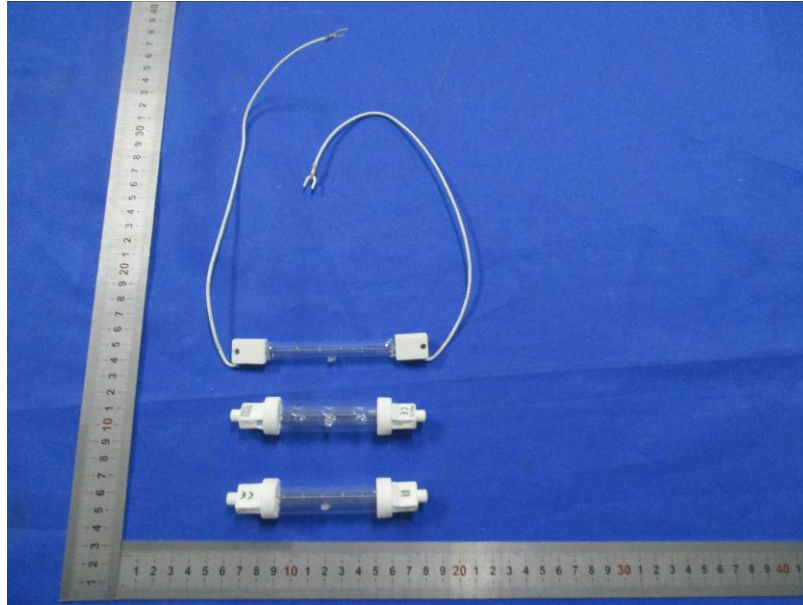
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Sample Photo:



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