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**Report No.** A2190023094101005R1

**Applicant** SHENZHEN RUNLITE TECHNOLOGY CO.,LTD

Address BUILDING A15, TANTOU THE 4TH INDUSTRIAL ESTATE, SONGGANG TOWN, BAOAN

DISTRICT, SHENZHEN, CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name

Hard Filament LED

Part No.

51mm

Client Reference Information

26mm、28mm、38mm、40mm、50mm、57mm、58mm、61mm、64mm、67mm、

68mm

Sample Received Date

Feb. 13, 2019

**Testing Period** 

Feb. 13, 2019 to Feb. 19, 2019

**Test Requested** As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted sample(s).

**Test Method** 

Please refer to the following page(s).

Test Result(s)

Please refer to the following page(s).

Technical Manager

Wit Rin Hill Thest Hill Zheng

Date

Reviewed by

Cathy Huang

Feb. 25, 2019

No. R158921854

Centre Testing International Group Co.,Ltd. TI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



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Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))#	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)#	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs) #	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP) #	IEC 62321-8:2017	GC-MS

Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com



# **Report No.** A2190023094101005R1 **Test Result(s)**

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Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))#	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)#		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)#		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



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#### Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)#		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	N.D.	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg

**Tested Sample/Part Description** 

Filament LED (Mix all)

Remark:

- -The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.
- -As specified by client, the test was conducted by mixing all materials together. The result(s)

shown on this report may be different from the content of any

homogeneous material.

- -MDL = Method Detection Limit
- -N.D. = Not Detected (< MDL)
- -mg/kg = ppm = parts per million

Note:

- -# indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.
- This testing report revised "Client Reference Information" based on the original report of No. A2190023094101005. This testing report displaces the original one which was invalid since the date of this testing report released.

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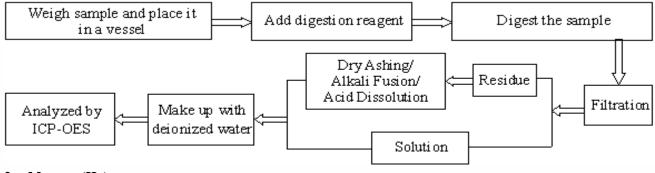


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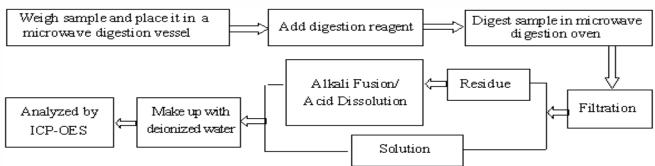
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#### **Test Process**

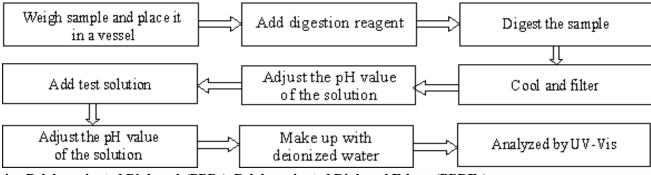
#### 1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



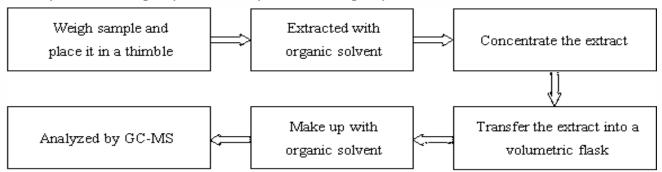
#### 2. Mercury(Hg)



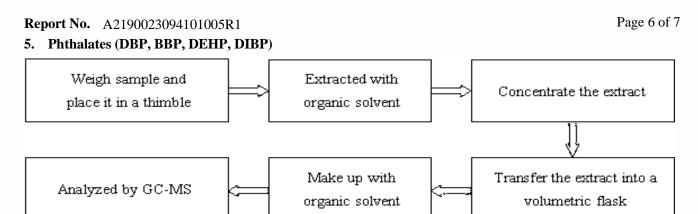
#### 3. Hexavalent Chromium(Cr(VI))



#### 4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)









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### Photo(s) of the sample(s)



\*\*\* End of report \*\*\*

#### Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The sample(s) and sample information was/were provided by the client who should be responsible for the autenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Without written approval of CTI, this report can't be reproduced except in full;
- 5. In case of any discrepancy between the English version and Chinese version of the testing reports (if genrated), the Chinese version shall prevail.