

TEST REPORT

Applicant: Shenzhen Blue The Light Technology co., Ltd.

Address: Floor 4, Building 2, Hongxing Industrial Park, Yuanling Village, Shiyan Town, Baoan District,

Shenzhen

Manufacturer: Shenzhen Blue The Light Technology co., Ltd.

Address: Floor 4, Building 2, Hongxing Industrial Park, Yuanling Village, Shiyan Town, Baoan District,

Shenzhen

Product Name: Digital LED strip light

Trade Mark: N/A

Model Number: LG-5050-60L

Series Model No.: LG-5050-30L, LG-5050-72L, LG-5050-84L, LG-5050-96L, LG-5050-120L, LG-2835-60L,

LG-2835-90L, LG-2835-96L, LG-2835-108L, LG-2835-120L, LG-2835-140L, LG-2835-160L

Report No.: DL-20230509005R

LG-2835-240L

Date of Receipt: May.08, 2023

Date of Test: May.08, 2023 - May.12, 2023

Date of Report: May.12, 2023

Test Requested: With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.

Test Standard: Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion:

As requested by applicant, the submitted sample was were tested, with is listed as specimen description in the following page. the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Prepared (Engineer): Cheney Wei

Approved (Manager): Xiaoshan Ni

This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.

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Testing Technolog





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Version No.	Date	Description	
00 00	May.12, 2023	Original	

Remark:

- (1) There are the results on total Br while test items on restricted substances are PBBs and PBDEs. There are the results on total Cr while test items on restricted substances Cr(VI)
- (2) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013 (unit:mg/kg)

Element Polymer Materials		Metal Materials	Composite Materials	
Cd	BL≤70-3σ <x<130+3σ≤ol< td=""><td>BL≤70-3σ<x<130+3σ≤ol< td=""><td>BL≤50-3σ<x<150+3σ≤ol< td=""></x<150+3σ≤ol<></td></x<130+3σ≤ol<></td></x<130+3σ≤ol<>	BL≤70-3σ <x<130+3σ≤ol< td=""><td>BL≤50-3σ<x<150+3σ≤ol< td=""></x<150+3σ≤ol<></td></x<130+3σ≤ol<>	BL≤50-3σ <x<150+3σ≤ol< td=""></x<150+3σ≤ol<>	
Pb	BL≤700-3σ <x<1300+3σ≤ol< td=""><td>BL≤700-3σ<x<1300+3σ≤ol< td=""><td>BL≤500-3σ<x<1500+3σ≤ol< td=""></x<1500+3σ≤ol<></td></x<1300+3σ≤ol<></td></x<1300+3σ≤ol<>	BL≤700-3σ <x<1300+3σ≤ol< td=""><td>BL≤500-3σ<x<1500+3σ≤ol< td=""></x<1500+3σ≤ol<></td></x<1300+3σ≤ol<>	BL≤500-3σ <x<1500+3σ≤ol< td=""></x<1500+3σ≤ol<>	
Hg	BL≤700-3σ <x<1300+3σ≤ol< td=""><td>BL≤700-3σ<x<1300+3σ≤ol< td=""><td>BL≤500-3σ<x<1500+3σ≤ol< td=""></x<1500+3σ≤ol<></td></x<1300+3σ≤ol<></td></x<1300+3σ≤ol<>	BL≤700-3σ <x<1300+3σ≤ol< td=""><td>BL≤500-3σ<x<1500+3σ≤ol< td=""></x<1500+3σ≤ol<></td></x<1300+3σ≤ol<>	BL≤500-3σ <x<1500+3σ≤ol< td=""></x<1500+3σ≤ol<>	
Br	BL≤300-3σ <x< td=""><td>· · · · · · · · · · · · · · · · · · ·</td><td>BL≤250-3σ<x< td=""></x<></td></x<>	· · · · · · · · · · · · · · · · · · ·	BL≤250-3σ <x< td=""></x<>	
Cr	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<>	

- (a) BL=Below Limit, OL=Over Limit, X=Inconclusive, LOD=Limit of Detection,---=Not regulated.
- (b)The XRF screening test for RoHS elements- the reading may be different to actual content in the sample be of non-uniformity composition
- (3) Chemical Method
- ① With reference to IEC 62321-5:2013, determination of Cadmium, Lead by ICP-OES.
- With reference to IEC 62321-4:2013+AMD1:2017 CSV, determination of Mercury by ICP-OES.
- ③ With reference to IEC 62321-7-1:2015 ▼& IEC 62321-7-2:2017, determination of Hexavalent Chromium by Colorimetric method using UV-Vis.
- With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.
- (5) With reference to IEC 62321-8:2017, determination of Phthalates by GC-MS.
- (4) (a) mg/kg=0.0001%, MDL=MDL=Method Detection Limit, (c) ND=Not Detected (<MDL),
 - ---=Not Regulated
 - (b) Unit and MDL in wet chemical test

Test Item	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP
Unit	mg/kg						
MDL	10	10	10	100	100	100	100

The MDL for single compound of PBBs and PBDEs is 100 mg/kg

MDL of Cr(VI) for polymer and composite sample is 10 mg/kg

MDL of Cr(VI) for metal sample is 0.10ug/cm²

- (c) ▼=Metal sample
- a. The sample is negative for Cr⁶⁺ if Cr⁶⁺ is N.D. (below the limit 0.10ug/cm²⁾. The coating is considered a non Cr⁶⁺ based coating.
- b. The sample positive for Cr⁶⁺ if the Cr⁶⁺ concentration is greater than 0.13ug/cm². The sample coating is considered to contain Cr6+.
- c.The result between 0.10ug/cm² and 0.13ug/cm² is considered to be inconclusive unavoidable coating variations nay influence the determination.

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Report No.: DL-20230509005R



Tested Sample/Part Description:

Specime	n No.	Component Description(s)	Style
x	01	Patch resistance	- OV
	02	Patch LED	x - 0\)
	03	Yellow copper foil	<u> </u>
	04		Gen
	05	Patch capacitance	D Corr
	06	White tape	D Ce
	07	White rubber heat shrink tube	- 0
	08	Silver solder	
	09	Black plastic terminal	, - , , t
	10	White rubber wire leather	OF OF
	11	Green rubber wire leather	- 0,00
	12	Red rubber wire leather	-
	13	Silver metal conductor	ok -
	14	Silver metal pin	Cex
	15	Scotch tape	or - ceit

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Test Results:

The results of XRF screening and chemical test (Unit: mg/kg)

Part No.	Element	X-ray Screening	Results of chemical test	Conclusion on RoHS EU	Sample Resubmitted
. <	Pb	BL	OV er	Vallet in the same of the same	
	Cd	BL	V 0	0, 00,	
-01	Hg	BL at	Δ, 'C ₀ ,	× - 0\/.	- o'X
01	Cr(Cr ⁶⁺)	BL	× -0 C	Pass	5 /
Ce	Br(PBBs&PBDEs)	BL			Ç [©] `
	DBP,BBP,DEHP,DIBP	x o`	N.D.	J.Co	O' 60
	Pb	BL		O. Co.	
	Cd	BL	, , , , , , , , , , , , , , , , , , ,	Or cert	
_&	Hg	BL	O Col		× 0
02	Cr(Cr ⁶⁺)	BL	<u>~</u>	Pass	, ,
cert	Br(PBBs&PBDEs)	BL O		× 0	Colt.
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	DBP,BBP,DEHP,DIBP		N.D.	So.	ovi oit
, ,	Pb Pb	BL	S		7
\Diamond_{\wedge}	Cd	BL	Co	OV CAN	O,
<	Hg	BL	0 -eit	,,,,,,	
03	Cr(Cr ⁶⁺)	BL		Pass	/
-01	Br(PBBs&PBDEs)	OV 0 ¹		× 01/	- OK
O X	DBP,BBP,DEHP,DIBP	7	x 0 (e	
00,	Pb	BL	»	0,	Ò ₀ ,
0	Cd	BL	Col.	J. Co	OV CO
	Hg	BL		O, Co,	
04	Cr(Cr ⁶⁺)	BL	, , , , , , , , , , , , , , , , , , ,	Pass	1
× .	Br(PBBs&PBDEs)	BL	OrCer		X O
5	DBP,BBP,DEHP,DIBP), BL	N.D.		×
COL	Pb	BL BL	N.D.	- X	Ce ^(C)
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Cd	BL	-0,		or est
	. OY -0}	· /		Cor	V
05	Hg Cr(Cr ⁶⁺)	BL BL	Oor	Pass	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	Br(PBBs&PBDEs)	BL	Or cer	, , , ,	
	DBP,BBP,DEHP,DIBP	C BL	N.D.	O, Co,	
-01	Pb	BLO	N.D.	× 0×	COX
, ă	Cd	BL	<u>√</u>	9	, at
,Co.	Hg	BL	, <u></u>	C.O.K.	C
06	Cr(Cr ⁶⁺)	BL	Celt	Pass	V 100
	(\(\(\	BL BL	V COR	Y , C *	01/
	Br(PBBs&PBDEs)	C O DL	N.D.	Or Coll	
07	DBP,BBP,DEHP,DIBP	PI	N.D.		X. 0
	Pb	BL	OV COR	Y	χ.
	Cd	BL CO	\ <u></u>	ST OF	Co,
	Hg	BL	-01	Pass	D' Leit
	Cr(Cr ⁶⁺)	BL	~ ~ ~	(Cert	
	Br(PBBs&PBDEs)	BL O	Co	OV - of	Α, (
	DBP,BBP,DEHP,DIBP	J	N.D.	, C ,	. 0

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Part No.	Element	X-ray Screening	Results of chemical test	Conclusion on RoHS EU	Sample Resubmitted
	Pb C	BL	×	Co.	OV .
	Cd	BL	x	Or cert	
·	Hg	BL	O' Gold	3	, 0
08	Cr(Cr ⁶⁺)	BL	OV ceit	Pass	
	Br(PBBs&PBDEs)	O Co		Y O'	
	DBP,BBP,DEHP,DIBP			x 0	
	Pb Pb	BL	~ O	Co	
	Cd Cd	BL		V COX	
	Hg	BL			\Diamond_{r}
09	Cr(Cr ⁶⁺)	BL	0 et	Pass	x 0
	Br(PBBs&PBDEs)	BL	***	\Diamond_{λ}	
	DBP,BBP,DEHP,DIBP	0	N.D.	× 0	
2/0	Pb	BL	O		
	Cd	BL	, ov	- OK	
	Hg	BL O	, cer		
10	Cr(Cr ⁶⁺)	BL	0 -0t	Pass	1
	Br(PBBs&PBDEs)	BL	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	D 00	
	DBP,BBP,DEHP,DIBP	OV 01	N.D.	, OY	
, X	Pb	BL	X	~	() () () () () () () () () ()
	Cd	BL	z, * 9,	Contract O	
	Hg	BL		, o	
11	Cr(Cr ⁶⁺)	BL		Pass	
	Br(PBBs&PBDEs)	BL	/ ×	Or cer	
	DBP,BBP,DEHP,DIBP		N.D.	0,0	
X	Pb	BL	, N.D.	Y	<u> </u>
	V. X	V		of O	
01	Cd Hg	BL BL	Col.		
12	Cr(Cr ⁶⁺)	BL	- 01×	Pass	
	Br(PBBs&PBDEs)	BL		Or cert	
	7 79	X	N.D.		
X	DBP,BBP,DEHP,DIBP Pb	BL A	N.D.	V 6°	
	Cd	BL		(r O)	
i con	Y 9	BL		1 x 0	
13	Hg Cr(Cr6+)		- O	Pass	
0,	Cr(Cr ⁶⁺)	BL O	, C x 0	Y cot	
	Br(PBBs&PBDEs)				
- se ^t	DBP,BBP,DEHP,DIBP			7 00	x o
	Pb	BL		Ø, 0	
	Cd	BL	,	× OV	
	Hg	BL	OV	Pass	1.8
	Cr(Cr ⁶⁺)	BL	o, i — o,		
	Br(PBBs&PBDEs)	~ ~ O	Ce ⁽	\(\text{\chi} \)	
	DBP,BBP,DEHP,DIBP	-e`	~~ ×	0, 00,	

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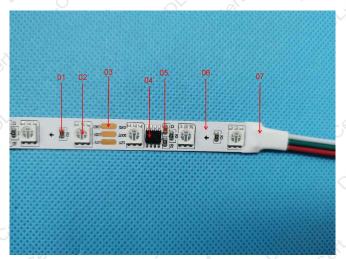
D L	Shenzhen DL Testing Technology Co., Ltd.			Report No.:D	L-20230509005R
Part No.	Element	X-ray Screening	Results of chemical test	Conclusion on RoHS EU	Sample Resubmitted
	Pb C	BL	, O	So, 1	
	Cd	BL		Or Cer	
45	○ Hg	BL	O, G ₀ ,	Dana -	, >
15	Cr(Cr ⁶⁺)	BL	OV Coil	Pass	, / O
Cel	Br(PBBs&PBDEs)	BL C		V O	Co.
or cor	DBP,BBP,DEHP,DIBP	→ ′	N.D.	x 0	COL

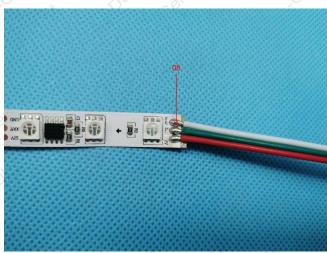
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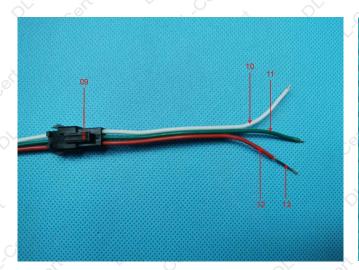


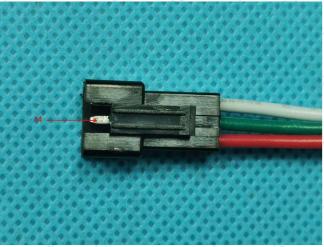
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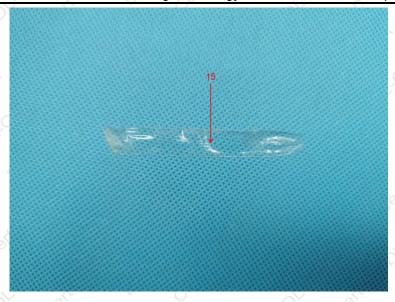




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