



# Test Report

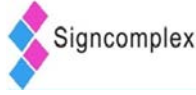
Report No: BST191214622001CR

Date: Dec.11, 2019

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**Applicant** : SIGNCOMPLEX LIMITED  
**Address** : Yijia Industrial Park, Fuqian Road, Guanlan Town, Bao' An, Shenzhen,  
Guangdong, China

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

**Sample Name** : IP65 LINEAR HIGH BAY  
**Trade Name** :   
**Sample Model** : LHBP-300-AW-30K-ZYYYY(See Annex)  
**Sample Received Date** : Dec.07, 2019  
**Testing Period** : Dec.07, 2019 To Dec.11, 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 <sup>2</sup>	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	Plastic	Black Line Skin Outside
2	Plastic	Blue Line Skin
3	Plastic	Brown Line Skin
4	Plastic	Yellow-Green Line Skin
5	Metal	Wire Core
6	Rubber	Red Rubber Ring
7	Metal	Screws
8	Metal	Black Metal Case
9	Plastic	Transparent Plastic
10	Rubber	Milky White Rubber
11	Rubber	Black Rubber
12	Plastic	Orange Plastic
13	Metal	Aluminum Plate
14	LED	LED Lights
15	Metal	Aluminum Substrate Solder
16	Plastic	Pink Line Skin
17	Plastic	Gray Line Skin
18	Plastic	Purple Line Skin
19	Plastic	Black Line Skin
20	Plastic	Blue Plastic

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No.	Description	Name	
21	Plastic	White Plastic	
22	PCB	PCB	
23	Resistance	Resistance	
24	Capacitance	Capacitance	
25	IC	IC	
26	Diode	Diode	
27	Triode	Triode	
28	PCB	PCB Solder	
29	Metal	Drive	Metal Shell
30	Plastic		Black Sealant
31	Transformer		Transformer
32	Inductance		Inductance
33	PCB		PCB Solder

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## Test Result:

Test Item(s)	No.1	No.2	No.3	No.4	No.5
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	N.D.	N.D.	--
PBDEs	N.D.	N.D.	N.D.	N.D.	--
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	--
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	--
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	N.D.	N.D.	--
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	--
Test Item(s)	No.6	No.7	No.8	No.9	No.10
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	--	--	N.D.	N.D.
PBDEs	N.D.	--	--	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	--	--	N.D.	N.D.
Butyl benzyl phthalate (BBP)	N.D.	--	--	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	--	--	N.D.	N.D.
Diisobutyl phthalate (DIBP)	N.D.	--	--	N.D.	N.D.

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Test Item(s)	No.11	No.12	No.13	No.14	No.15
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	142
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	--	N.D.	--
PBDEs	N.D.	N.D.	--	N.D.	--
Dibutyl Phthalate (DBP)	N.D.	N.D.	--	N.D.	--
Butyl benzyl phthalate (BBP)	N.D.	N.D.	--	N.D.	--
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	--	N.D.	--
Diisobutyl phthalate (DIBP)	N.D.	N.D.	--	N.D.	--
Test Item(s)	No.16	No.17	No.18	No.19	No.20
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	N.D.	N.D.	N.D.
PBDEs	N.D.	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.

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Test Item(s)	No.21	No.22	No.23	No.24	No.25
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	N.D.	N.D.	N.D.
PBDEs	N.D.	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Test Item(s)	No.26	No.27	No.28	No.29	No.30
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	182	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	--	--	N.D.
PBDEs	N.D.	N.D.	--	--	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	--	--	N.D.
Butyl benzyl phthalate (BBP)	N.D.	N.D.	--	--	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	--	--	N.D.
Diisobutyl phthalate (DIBP)	N.D.	N.D.	--	--	N.D.

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Test Item(s)	No.31	No.32	No.33
Cadmium (Cd)	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	97
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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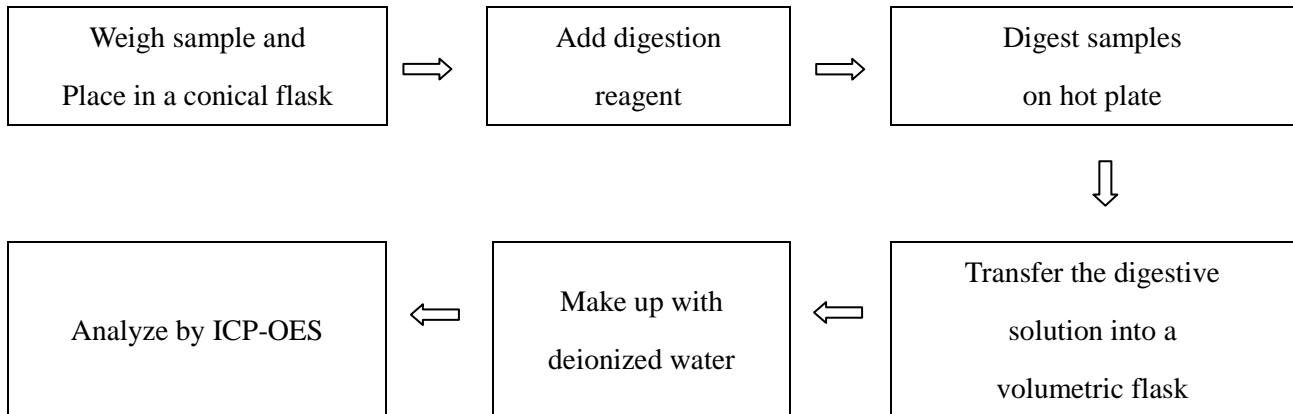
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## Annex

: LHBP-300-AW-XXX-ZYYY, LHBP-280-AW-XXX-ZYYY,  
LHBP-240-AW-XXX-ZYYY, LHBP-200-AW-XXX-ZYYY,  
LHBP-180-AW-XXX-ZYYY, LHBP-150-AW-XXX-ZYYY,  
LHBP-120-AW-XXX-ZYYY, LHBP-100-AW-XXX-ZYYY,  
LHBP-080-AW-XXX-ZYYY, LHBP-070-AW-XXX-ZYYY,  
LHBP-050-AW-XXX-ZYYY,  
XX: represents the color 27/30/35/40/45/50/57/60/65,  
YYY: can be any number or character for commercial use,  
Z: denotes control function, can be blank, D or S, blank denotes no  
dimmbable or sensor control, "D" denotes 0-10/PWM Dimmbable and  
"S" denotes sensor control.

## Test Process:

### 1. Test for Cd/Pb Content



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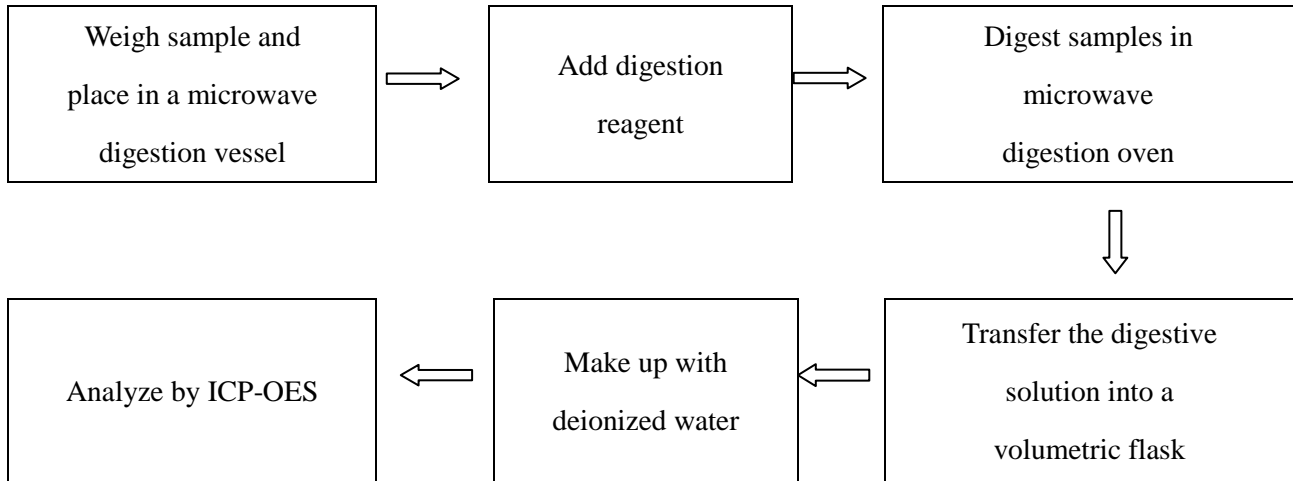
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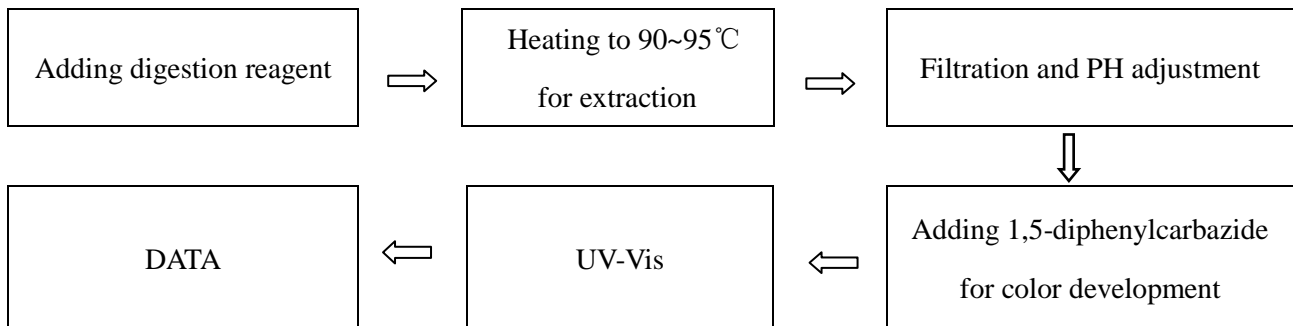
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## 2. Test for Hg Content

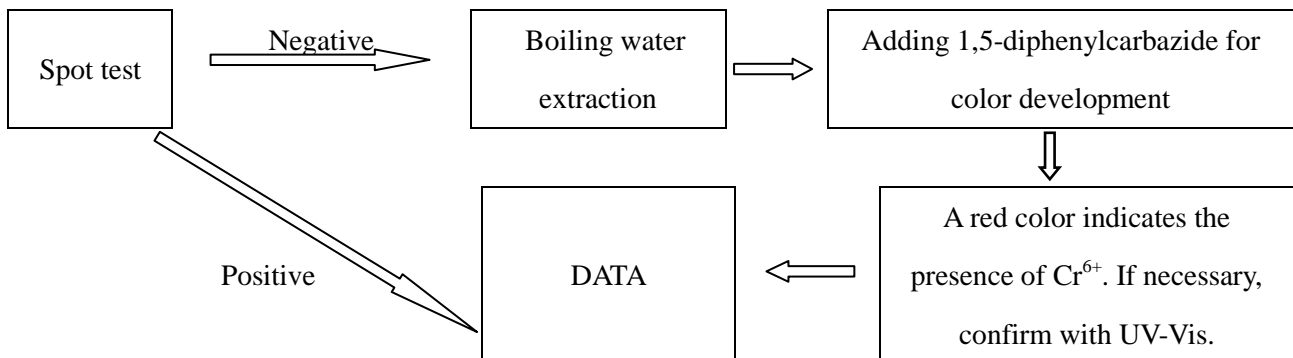


## 3. Test for Chromium (VI) Content

Nonmetal material



Metal material



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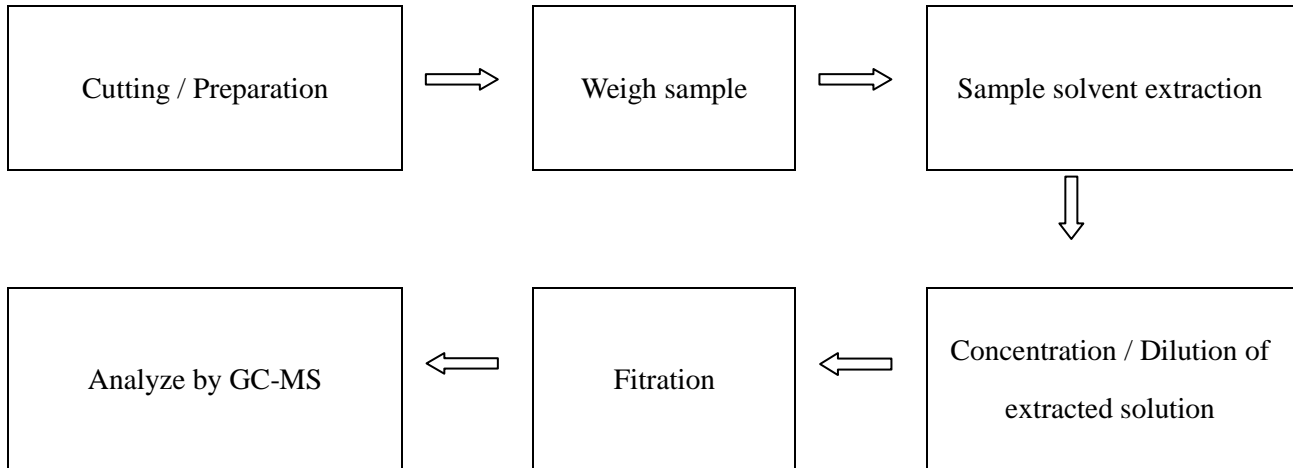
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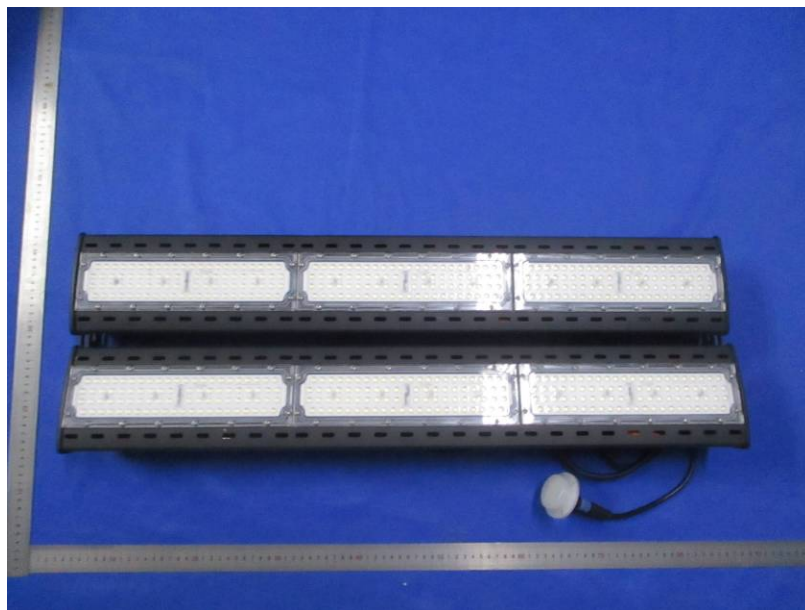
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## 4. Test for DBP, BBP, DEHP, DIBP, PBB, PBDE Content



## Sample Photo:



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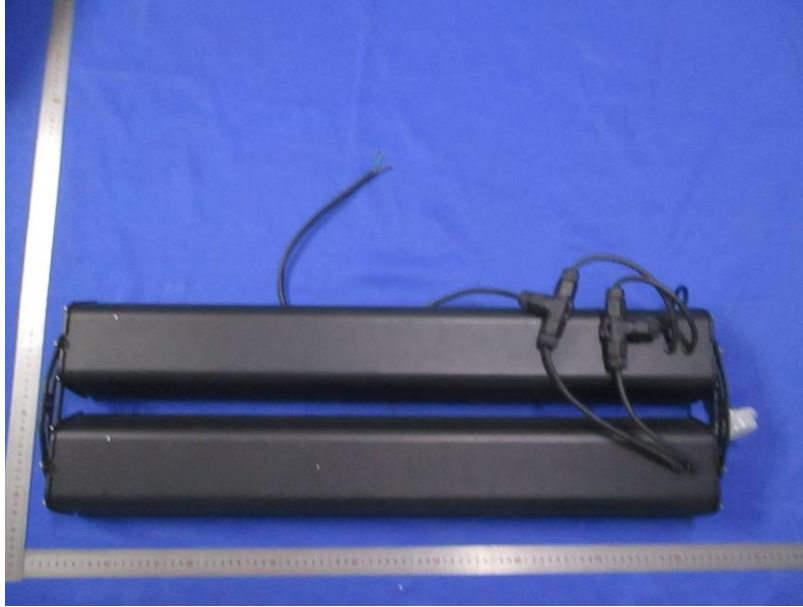


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