



中国认可
国际互认
检测
TESTING
CNAS L6478



TEST REPORT

Report No...... : WTF23F05118028A1R1C

Applicant..... : Shada BV

Address..... : Molenmakershoek 28 NL-7328 JK Apeldoorn

Manufacturer..... : Shada BV

Address..... : Molenmakershoek 28 NL-7328 JK Apeldoorn

Sample Name..... : LED Luminaire with Strip

Sample Model..... : 2410299, 2410303

Reference Model No...... : Refer to next page (s)

Date of Receipt sample..... : 2023-05-30 & 2023-06-29 & 2023-08-15

Testing period..... : 2023-05-30 to 2023-06-08 & 2023-06-29 to 2023-07-01
& 2023-08-15 to 2023-08-16

Date of Issue..... : 2024-01-31

Test Result..... : Refer to next page (s)

Note..... : 1.As per client's requirement, the result of specimen No.1 to No.48, No.50 to No.140 was quoted from Report No. WTF23F05118028 specimen No.1 to No.48, No.50 to No.140.
2.As per client's requirement, the result of specimen No.49 was quoted from Report No. WTF23F05118028A1C specimen No.49.

Prepared By:

Waltek Testing Group (Foshan) Co., Ltd.

Address: No.13-19, 2/F., 2nd Building, Sunlink International Machinery City,
Chencun, Shunde District, Foshan, Guangdong, China

Tel:+86-757-23811398 Fax:+86-757-23811381 E-mail:info@waltek.com.cn

Signed for and on behalf of
Waltek Testing Group (Foshan) Co., Ltd.

Swing Liang

Swing.Liang



WTF23F05118028A1R1C

Waltek Testing Group (Foshan) Co., Ltd.
<http://www.waltek.com.cn>



Report No.: WTF23F05118028A1R1C

Test Requested : In accordance with the RoHS Directive 2011/65/EU and its amendment (EU) No. 2015/863.

Test Method : 1) With reference to IEC 62321-2:2021, disassembly, disjunction and mechanical sample preparation
2) With reference to IEC 62321-3-1:2013, screening - Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry
3) With reference to IEC 62321-4:2013+AMD1:2017 CSV, determination of Mercury by ICP-OES
4) With reference to IEC 62321-5:2013, determination of Lead and Cadmium by ICP-OES
5) With reference to IEC 62321-7-2: 2017 and IEC 62321-7-1: 2015, determination of Hexavalent Chromium by UV-Vis
6) With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS
7) With reference to IEC 62321-8:2017, determination of Phthalates content by GC-MS.

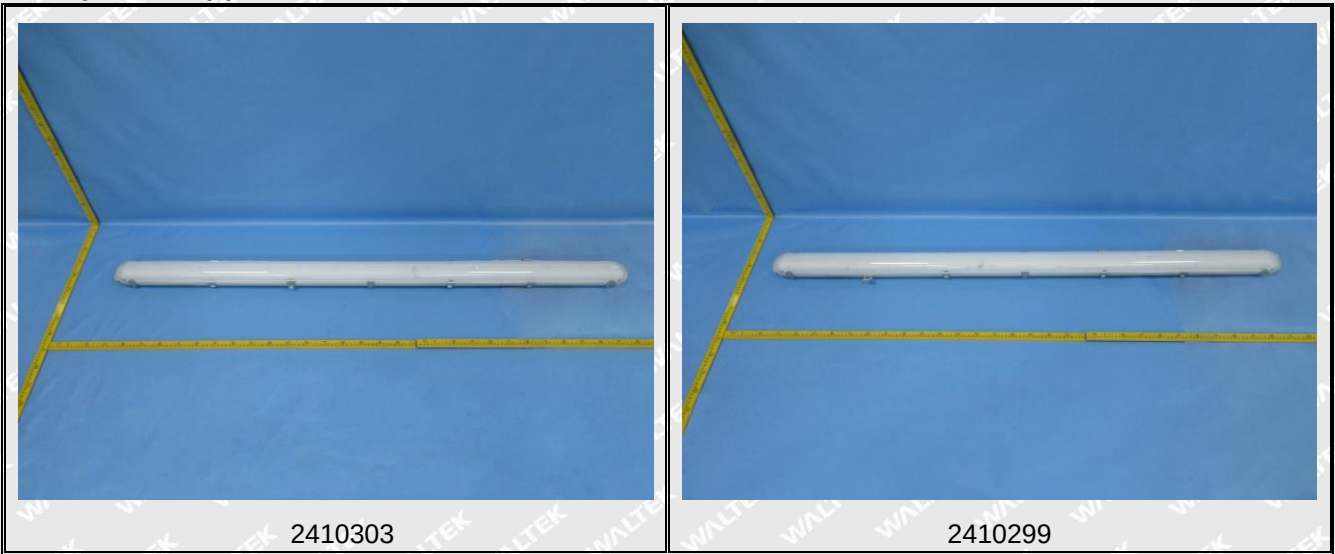
Test Conclusion : **Pass** (Based on the performed tests on the submitted samples, the results comply with the RoHS Directive 2011/65/EU and its amendment (EU) No. 2015/863)

Reference Model No.
2410297, 2410298, 2400200_01, 2400201_01, 2400202_01, 2400203_01, 2400204_01, 2400205_01, 2401201_01, 2401202_01, 2401203_01, 2401204_01, 2400110_04, 2400111_04, 2400112_04, 2400113_04, 2400114_04, 2400115_04, 2400110_05PVT, 2400111_05PVT, 2400112_05PVT, 2400113_05PVT, 2400114_05PVT, 2400115_05PVT, 2400110_02L123, 2400111_02L123, 2400112_02L123, 2400113_02L123, 2400114_02L123, 2400115_02L123, 2400117, 2410240, 2410241, 2410242, 2410243, 2410244, 2410245, 2410246, 2410247, 2410248, 2400250, 2400252, 0800411, 0800414, 2400241, 2400243, 2400245, 2400330, 2400331, 2400332, 2400333, 2400334, 2400335, 2410250, 2410254, 2410258, 2410262, 2400220_01, 2400222_01, 2400225_01, 2400227_01, 2400229_01, 2400231_01, 2400232_01, 2400208, 2400209, 2400212, 230250, 230251, 230252



Report No.: WTF23F05118028A1R1C

Sample Photo(s):



Reference Sample Photo(s) Provided by Client (Not tested):





2400110_04, 2400111_04, 2400112_04,
2400113_04, 2400114_04, 2400115_04,
2400110_05PVT, 2400111_05PVT,
2400112_05PVT, 2400113_05PVT,
2400114_05PVT, 2400115_05PVT,
2400110_02L123, 2400111_02L123,
2400112_02L123, 2400113_02L123,
2400114_02L123, 2400115_02L123,
2400117



2410240, 2410241, 2410242, 2410243, 2410244,
2410245, 2410246, 2410247, 2410248



2400250, 2400252



0800411, 0800414



	 2400330, 2400331, 2400332, 2400333, 2400334, 2400335, 2410250, 2410254, 2410258, 2410262
 2400220_01, 2400222_01, 2400225_01, 2400227_01, 2400229_01, 2400231_01, 2400232_01	 2400208, 2400209, 2400212
 230250,230251,230252	/

**Test Results:****1. Lead, Mercury, Cadmium, Hexavalent Chromium, PBBs and PBDEs**

Part No.	Part Description	Result of XRF					Result of Wet Chemical Testing (mg/kg)
		Cd	Pb	Hg	Cr	Br	
1	Semi-transparent plastic shell	BL	BL	BL	BL	BL	NA
2	Grey plastic shell	BL	BL	BL	BL	BL	NA
3	White soft plastic sheet	BL	BL	BL	BL	BL	NA
4	Silvery metal sheet	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative
5	Grey plastic cover	BL	BL	BL	BL	IN	PBBs : ND PBDEs : ND
6	Black soft plastic sheet	BL	BL	BL	BL	BL	NA
7	Black soft plastic ring	BL	BL	BL	BL	BL	NA
8	Black soft plastic ring	BL	BL	BL	BL	BL	NA
9	Silvery metal terminal	BL	BL	BL	BL	--	NA
10	Brown plastic wire covering	BL	BL	BL	BL	BL	NA
11	Coppery metal wire	BL	BL	BL	BL	--	NA
12	Yellow-green plastic wire covering	BL	BL	BL	BL	BL	NA
13	Red plastic wire covering	BL	BL	BL	BL	BL	NA
14	Blue plastic wire covering	BL	BL	BL	BL	BL	NA
15	Yellow-green plastic wire covering	BL	BL	BL	BL	BL	NA
16	Dark blue plastic wire covering	BL	BL	BL	BL	BL	NA
17	Brown plastic wire covering	BL	BL	BL	BL	BL	NA
18	Silvery metal terminal	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative
19	White plastic sheet	BL	BL	BL	BL	BL	NA



Part No.	Part Description	Result of XRF					Result of Wet Chemical Testing (mg/kg)
		Cd	Pb	Hg	Cr	Br	
20	White plastic sheet	BL	BL	BL	BL	BL	NA
21	Silvery metal sheet	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative
22	Silvery metal screw	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative
23	White plastic sheet	BL	BL	BL	BL	BL	NA
24	Silvery metal nut	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative
25	Silvery metal gasket	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative
26	Silvery metal screw	BL	BL	BL	BL	--	NA
27	White-yellow PCB	BL	BL	BL	BL	IN	PBBs : ND PBDEs : ND
28	White plastic sheet	BL	BL	BL	BL	BL	NA
29	Chip LED	BL	BL	BL	BL	BL	NA
30	White coating	BL	BL	BL	BL	BL	NA
31	Silvery metal sheet without white coating	BL	BL	BL	BL	--	NA
32	Black plastic stopper	BL	BL	BL	BL	BL	NA
33	Grey coating	BL	BL	BL	BL	BL	NA
34	White nylon cable tie	BL	BL	BL	BL	BL	NA
35	Black plastic wire covering	BL	BL	BL	BL	BL	NA
36	White plastic wire covering	BL	BL	BL	BL	BL	NA
37	Semi-transparent plastic shell (connector)	BL	BL	BL	BL	BL	NA
38	Silvery metal pin (connector)	BL	BL	BL	BL	--	NA
39	White plastic wire covering	BL	BL	BL	BL	BL	NA



Part No.	Part Description	Result of XRF					Result of Wet Chemical Testing (mg/kg)
		Cd	Pb	Hg	Cr	Br	
40	Red-brown plastic shell (connector)	BL	BL	BL	BL	BL	NA
41	Semi-transparent plastic sheet	BL	BL	BL	BL	BL	NA
42	Black heat-shrinkable tube	BL	BL	BL	BL	BL	NA
43	Red plastic stopper	BL	BL	BL	BL	BL	NA
44	Silvery metal spring with black coating	BL	BL	BL	BL	--	NA
45	Silvery metal ring	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative
46	Silvery metal nut	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative
47	Solder	BL	BL	BL	BL	--	NA
48	Black plastic sheet	BL	BL	BL	BL	BL	NA
49	Silvery metal screw	BL	BL	BL	BL	--	NA
50	Silvery metal gasket	BL	BL	BL	BL	--	NA
51	Red plastic ring	BL	BL	BL	BL	BL	NA
52	Red plastic wire covering	BL	BL	BL	BL	BL	NA
53	Black plastic wire covering	BL	BL	BL	BL	BL	NA
54	Transparent plastic LED	BL	BL	BL	BL	IN	PBBs : ND PBDEs : ND
55	White plastic shell (connector)	BL	BL	BL	BL	BL	NA
56	Semi-transparent plastic sheet	BL	BL	BL	BL	BL	NA
57	White plastic adhesive label with black printing	BL	BL	BL	BL	BL	NA
58	Silvery metal sheet without white coating	BL	BL	BL	BL	--	NA
59	White plastic adhesive label with multicolour printing	BL	BL	BL	BL	BL	NA



Part No.	Part Description	Result of XRF					Result of Wet Chemical Testing (mg/kg)
		Cd	Pb	Hg	Cr	Br	
60	Silvery metal sheet	BL	BL	BL	BL	--	NA
61	Black plastic wire covering	BL	BL	BL	BL	BL	NA
62	White plastic wire covering	BL	BL	BL	BL	BL	NA
63	Brown plastic wire covering	BL	BL	BL	BL	BL	NA
64	Black heat-shrinkable tube	BL	BL	BL	BL	BL	NA
65	Grey resistor with multicolour ring	BL	BL	BL	IN	BL	Cr ⁶⁺ : ND
66	Yellow plastic adhesive tape (transformer)	BL	BL	BL	BL	BL	NA
67	Dark grey magnetic core (transformer)	BL	BL	BL	BL	--	NA
68	Black plastic bobbin (transformer)	BL	BL	BL	BL	BL	NA
69	Yellow triple insulation winding (transformer)	BL	BL	BL	BL	BL	NA
70	Semi-transparent plastic tube (transformer)	BL	BL	BL	BL	BL	NA
71	Coppery varnished wire (transformer)	BL	BL	BL	BL	BL	NA
72	Orange plastic sheet	BL	BL	BL	BL	BL	NA
73	Silvery metal pin	BL	BL	BL	BL	--	NA
74	Black plastic shell (relay)	BL	BL	BL	BL	IN	PBBs : ND PBDEs : ND
75	Black plastic base with adhesive (relay)	BL	BL	BL	BL	IN	PBBs : ND PBDEs : ND
76	Coppery varnished wire (relay)	BL	BL	BL	BL	BL	NA
77	Silvery metal axle (relay)	BL	BL	BL	BL	--	NA
78	Coppery metal sheet (relay)	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative
79	Silvery metal contact (relay)	BL	BL	BL	BL	--	NA



Part No.	Part Description	Result of XRF					Result of Wet Chemical Testing (mg/kg)
		Cd	Pb	Hg	Cr	Br	
80	Silvery metal sheet (relay)	BL	BL	BL	BL	--	NA
81	Silvery metal pin (relay)	BL	BL	BL	BL	--	NA
82	Black plastic shell (fuse)	BL	BL	BL	BL	BL	NA
83	Black plastic base (fuse)	BL	BL	BL	BL	BL	NA
84	Silvery metal wire (fuse)	BL	BL	BL	BL	--	NA
85	White fibrous wire (fuse)	BL	BL	BL	BL	BL	NA
86	Yellow plastic shell (safety capacitor)	BL	BL	BL	BL	IN	PBBs : ND PBDEs : ND
87	Yellow epoxy resin (safety capacitor)	BL	BL	BL	BL	IN	PBBs : ND PBDEs : ND
88	Silvery plastic film (safety capacitor)	BL	BL	BL	BL	IN	PBBs : ND PBDEs : ND
89	Green coating (inductance)	BL	BL	BL	BL	BL	NA
90	Dark grey magnetic ring without green coating (inductor)	BL	BL	BL	IN	--	Cr ⁶⁺ : ND
91	Copper varnished wire (inductor)	BL	BL	BL	BL	BL	NA
92	Yellow triple insulation winding (inductor)	BL	BL	BL	BL	BL	NA
93	Purple plastic film (electrolytic capacitor)	BL	BL	BL	BL	BL	NA
94	White plastic shell (socket)	BL	BL	BL	BL	BL	NA
95	Solder	BL	BL	BL	BL	--	NA
96	Chip IC	BL	BL	BL	BL	BL	NA
97	Chip audion	BL	BL	BL	BL	BL	NA
98	Chip capacitor	BL	BL	BL	BL	BL	NA
99	Green PCB	BL	BL	BL	BL	IN	PBBs : ND PBDEs : ND



Part No.	Part Description	Result of XRF					Result of Wet Chemical Testing (mg/kg)
		Cd	Pb	Hg	Cr	Br	
100	Chip EC	BL	BL	BL	BL	BL	NA
101	Chip resistor	BL	BL	BL	IN	BL	Cr ⁶⁺ : ND
102	Chip diode	BL	BL	BL	BL	IN	PBBs : ND PBDEs : ND
103	Blue capacitor	BL	BL	BL	BL	BL	NA
104	Green resistor	BL	BL	BL	IN	BL	Cr ⁶⁺ : ND
105	White soft adhesive	BL	BL	BL	BL	BL	NA
106	Pink fibrous sheet	BL	BL	BL	BL	BL	NA
107	Black plastic film (electrolytic capacitor)	BL	BL	BL	BL	BL	NA
108	Black rubber stopper (electrolytic capacitor)	BL	BL	BL	BL	BL	NA
109	Brown paper (electrolytic capacitor)	BL	BL	BL	BL	BL	NA
110	Silvery metal shell (electrolytic capacitor)	BL	BL	BL	BL	--	NA
111	Grey metal foil (electrolytic capacitor)	BL	BL	BL	BL	--	NA
112	Silvery-grey metal foil (electrolytic capacitor)	BL	BL	BL	BL	--	NA
113	Silvery metal pin (electrolytic capacitor)	BL	BL	BL	BL	--	NA
114	Grey plastic shell (capacitor)	BL	BL	BL	BL	IN	PBBs : ND PBDEs : ND
115	Black epoxy resin (capacitor)	BL	BL	BL	BL	IN	PBBs : ND PBDEs : ND
116	Red plastic sheet	BL	BL	BL	BL	IN	PBBs : ND PBDEs : ND
117	Black plastic base	BL	BL	BL	BL	IN	PBBs : ND PBDEs : ND
118	White plastic sheet	BL	BL	BL	BL	IN	PBBs : ND PBDEs : ND
119	Silvery metal pin	BL	BL	BL	BL	--	NA



Part No.	Part Description	Result of XRF					Result of Wet Chemical Testing (mg/kg)
		Cd	Pb	Hg	Cr	Br	
120	Green inductor with multicolour ring	BL	BL	BL	BL	BL	NA
121	Black heat-shrinkable tube (inductor)	BL	BL	BL	BL	BL	NA
122	Dark grey magnetic core (inductor)	BL	BL	BL	IN	--	Cr ⁶⁺ : ND
123	Coppery varnished wire (inductor)	BL	BL	BL	BL	BL	NA
124	Grey plastic sheet	BL	BL	BL	BL	BL	NA
125	Brown capacitor	BL	BL	BL	BL	BL	NA
126	Solder	BL	BL	BL	BL	--	NA
127	Green PCB	BL	BL	BL	BL	IN	PBBs : ND PBDEs : ND
128	Light green plastic shell	BL	BL	BL	BL	BL	NA
129	Blue plastic film	BL	BL	BL	BL	BL	NA
130	Red paper	BL	BL	BL	BL	BL	NA
131	Green paper	BL	BL	BL	BL	BL	NA
132	Yellow plastic adhesive tape	BL	BL	BL	BL	BL	NA
133	Yellow plastic sheet	BL	BL	BL	BL	IN	PBBs : ND PBDEs : ND
134	White heat-shrinkable tube	BL	BL	BL	BL	BL	NA
135	White plastic ring	BL	BL	BL	BL	BL	NA
136	Solder	BL	BL	BL	BL	--	NA
137	Black PCB	BL	BL	BL	BL	BL	NA
138	Solder	BL	BL	BL	BL	--	NA
139	Semi-transparent plastic shell	BL	BL	BL	BL	BL	NA



Report No.: WTF23F05118028A1R1C

Part No.	Part Description	Result of XRF					Result of Wet Chemical Testing (mg/kg)
		Cd	Pb	Hg	Cr	Br	
140	White plastic sheet	BL	BL	BL	BL	BL	NA

Remark:

- (1) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-VIS (for Cr⁶⁺) 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	Metal	Composite Materials
Cd	$BL \leq (70-3\sigma) < IN < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < IN < (130+3\sigma) \leq OL$	$LOD < IN < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < IN < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < IN < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < IN < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < IN < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < IN < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < IN < (1500+3\sigma) \leq OL$
Cr	$BL \leq (700-3\sigma) < IN$	$BL \leq (700-3\sigma) < IN$	$BL \leq (500-3\sigma) < IN$
Br	$BL \leq (300-3\sigma) < IN$	--	$BL \leq (250-3\sigma) < IN$

BL= Below Limit

OL= Over Limit

LOD = Limit of Detection

-- = Not Regulated

- (2) "IN" expresses the inconclusive region, and further chemical testing to confirm whether it complies with the requirement of RoHS Directive.
- (3) The XRF screening test for RoHS elements – the reading may be different to the actual content in the sample be of non-uniformity composition.
- (4) mg / kg =milligram per kilogram=ppm, $\mu\text{g}/\text{cm}^2$ = Micrograms per square centimetre.
- (5) ND = Not Detected or lower than limit of quantitation.
- (6) NA = Not Applicable, as the XRF screening test result was below the limit or as the XRF screening directly determine that test result was over the limit, it was not need to conduct the wet chemical testing.
- (7) LOQ = Limit of quantitation.

Test Items	Pb	Cd	Hg	Cr ⁶⁺		PBB	PBDE
Units	mg/kg	mg/kg	mg/kg	mg/kg	$\mu\text{g}/\text{cm}^2$	mg/kg	mg/kg
LOQ	2	2	2	8	0.1	5	5

The LOQ for single compound of PBBs and PBDEs is 5mg/kg, LOQ of Cr⁶⁺ for polymer and composite sample is 8mg/kg and LOQ of Cr⁶⁺ for metal sample is 0.1 $\mu\text{g}/\text{cm}^2$.

- (8) RoHS Requirement

Restricted Substances	Limits
Cadmium (Cd)	0.01% (100 mg/kg)
Lead (Pb)	0.1% (1000 mg/kg)
Mercury (Hg)	0.1% (1000 mg/kg)
Chromium (VI) (Cr ⁶⁺)	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)



Report No.: WTF23F05118028A1R1C

- (9) According to IEC 62321-7-1:2015, determined of Cr^{6+} on metal sample by boiling water extraction test method, and result is shown as Positive/Negative.

Boiling water extraction:

Negative = Absence of Cr^{6+} coating, the detected concentration in boiling water extraction solution is less than $0.10\text{ug}/\text{cm}^2$.

Positive = Presence of Cr^{6+} coating, the detected concentration in boiling water extraction solution is greater than $0.13\text{ug}/\text{cm}^2$.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr^{6+} results represent status of the sample at the time of testing.

- (10) Abbreviation:

"Pb" denotes Lead, "Cd" denotes Cadmium, "Hg" denotes Mercury, "Cr" denotes Chromium, "Cr (VI)" denotes Hexavalent Chromium, "Br" denotes Bromine, "PBBs" denotes Total Polybrominated Biphenyls, "PBDEs" denotes Total Polybrominated Diphenyl Ethers.

2. Phthalates:

Serial No.	Part No.	Result (mg/kg)			
		DBP	BBP	DEHP	DIBP
T01	1	ND	ND	ND	ND
T02	2	ND	ND	ND	ND
T03	3	ND	ND	ND	ND
T04	4	--	--	--	--
T05	5	ND	ND	ND	ND
T06	6	ND	ND	ND	ND
T07	7	ND	ND	ND	ND
T08	8	ND	ND	ND	ND
T09	9	--	--	--	--
T10	10	ND	ND	ND	ND
T11	11	--	--	--	--
T12	12	ND	ND	ND	ND
T13	13	ND	ND	ND	ND
T14	14	ND	ND	ND	ND
T15	15	ND	ND	ND	ND
T16	16	ND	ND	ND	ND
T17	17	ND	ND	ND	ND
T18	18	--	--	--	--
T19	19+20+68+72+75 [△]	ND	ND	ND	ND
T20	21	--	--	--	--
T21	22	--	--	--	--
T22	23+28+32+34+37 [△]	ND	ND	ND	ND
T23	24	--	--	--	--
T24	25	--	--	--	--
T25	26	--	--	--	--
T26	27+99+127+137 [△]	ND	ND	ND	ND
T27	29	ND	ND	ND	ND



Report No.: WTF23F05118028A1R1C

Serial No.	Part No.	Result (mg/kg)			
		DBP	BBP	DEHP	DIBP
T28	30	ND	ND	ND	ND
T29	31	--	--	--	--
T30	33	ND	ND	ND	ND
T31	35	ND	ND	ND	ND
T32	36	ND	ND	ND	ND
T33	38	--	--	--	--
T34	39	ND	ND	ND	ND
T35	40+41+43+55 [△]	ND	ND	ND	ND
T36	42	ND	ND	ND	ND
T37	44	--	--	--	--
T38	45	--	--	--	--
T39	46	--	--	--	--
T40	47	--	--	--	--
T41	48+56 [△]	ND	ND	ND	ND
T42	49	--	--	--	--
T43	50	--	--	--	--
T44	51	ND	ND	ND	ND
T45	52	ND	ND	ND	ND
T46	53	ND	ND	ND	ND
T47	54	ND	ND	ND	ND
T48	57	ND	ND	ND	ND
T49	58	--	--	--	--
T50	59	ND	ND	ND	ND
T51	60	--	--	--	--
T52	61	ND	ND	ND	ND
T53	62	ND	ND	ND	ND
T54	63	ND	ND	ND	ND
T55	64	ND	ND	ND	ND
T56	65+96+97+98 [△]	ND	ND	ND	ND
T57	66	ND	ND	ND	ND
T58	67	--	--	--	--
T59	69+85+89+92 [△]	ND	ND	ND	ND
T60	70	ND	ND	ND	ND
T61	71+76+91+123 [△]	ND	ND	ND	ND
T62	73	--	--	--	--
T63	74	ND	ND	ND	ND
T64	77	--	--	--	--
T65	78	--	--	--	--
T66	79	--	--	--	--
T67	80	--	--	--	--
T68	81	--	--	--	--
T69	82+83+93 [△]	ND	ND	ND	ND
T70	84	--	--	--	--
T71	86	ND	ND	ND	ND



Report No.: WTF23F05118028A1R1C

Serial No.	Part No.	Result (mg/kg)			
		DBP	BBP	DEHP	DIBP
T72	87	ND	ND	ND	ND
T73	88	ND	ND	ND	ND
T74	90	--	--	--	--
T75	94+107+117 [△]	ND	ND	ND	ND
T76	95	--	--	--	--
T77	100+101+102+103+104 [△]	ND	ND	ND	ND
T78	105	ND	ND	ND	ND
T79	106	ND	ND	ND	ND
T80	108	ND	ND	ND	ND
T81	109	ND	ND	ND	ND
T82	110	--	--	--	--
T83	111	--	--	--	--
T84	112	--	--	--	--
T85	113	--	--	--	--
T86	114	ND	ND	ND	ND
T87	115	ND	ND	ND	ND
T88	116	ND	ND	ND	ND
T89	118+124+128+129 [△]	ND	ND	ND	ND
T90	119	--	--	--	--
T91	120+125 [△]	ND	ND	ND	ND
T92	121	ND	ND	ND	ND
T93	122	--	--	--	--
T94	126	--	--	--	--
T95	130+131 [△]	ND	ND	ND	ND
T96	132	ND	ND	ND	ND
T97	133	ND	ND	ND	ND
T98	134	ND	ND	ND	ND
T99	135+139+140 [△]	ND	ND	ND	ND
T100	136	--	--	--	--
T101	138	--	--	--	--

Note:

- (1) mg/kg = milligram per kilogram= ppm
- (2) ND = Not Detected or lower than limit of quantitation.
- (3) -- = Not Regulated.
- (4) LOQ = Limit of quantitation.

Test Items	DBP	BBP	DEHP	DIBP
Units	mg/kg	mg/kg	mg/kg	mg/kg
LOQ	50	50	50	50

- (5) Abbreviation:

“DBP” denotes Dibutyl phthalate, “BBP” denotes Benzyl butyl phthalate (BBP), “DEHP” denotes Bis(2-ethylhexyl)-phthalate, “DIBP” denotes Diisobutyl phthalate, “PHT” denotes Phthalates.



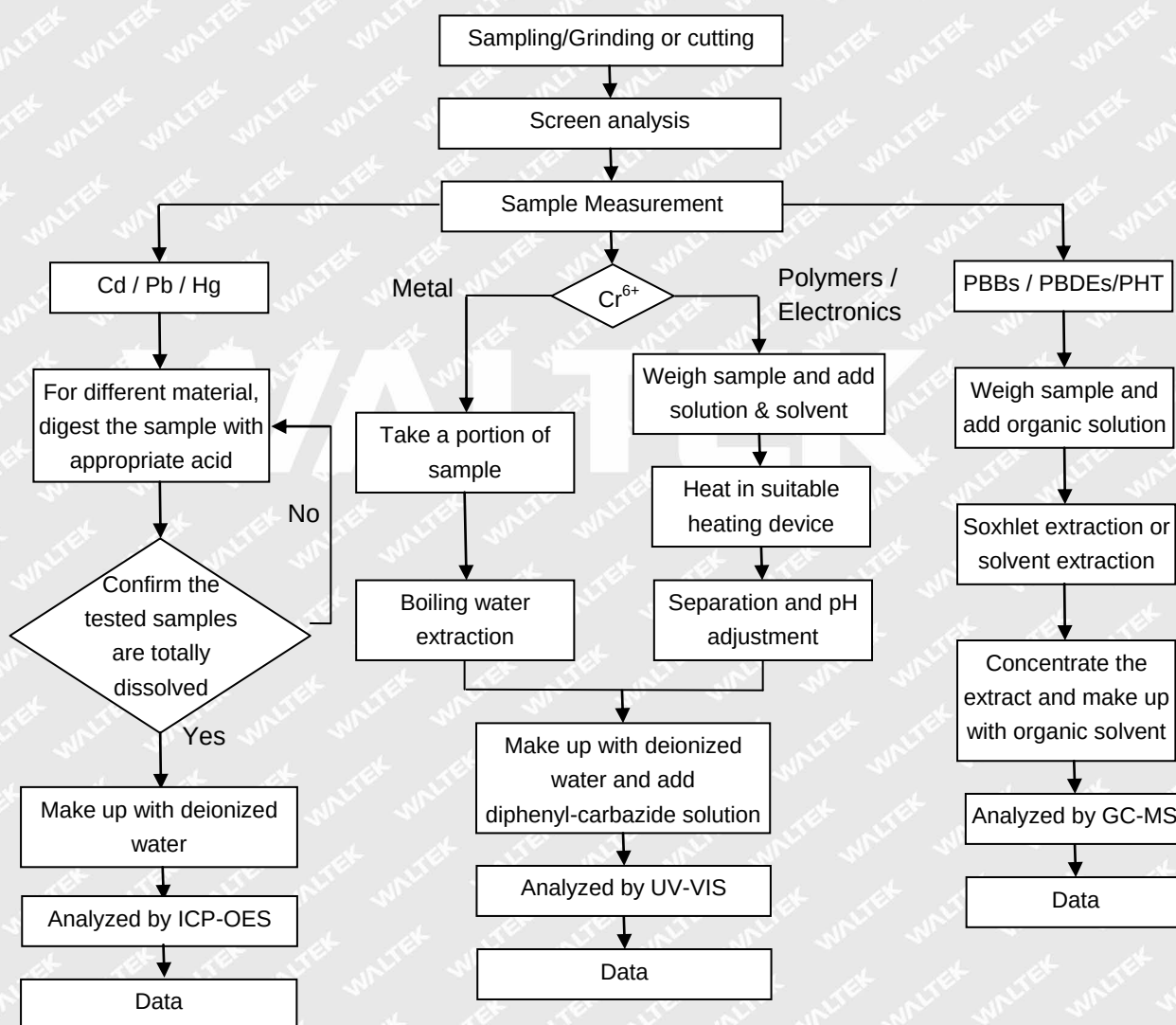
Report No.: WTF23F05118028A1R1C

(6) RoHS requirement

Restricted Substances	Limits
Dibutyl phthalate (DBP)	0.1% (1000 mg/kg)
Benzyl butyl phthalate (BBP)	0.1% (1000 mg/kg)
Di(2-ethylhexyl) phthalate (DEHP)	0.1% (1000 mg/kg)
Di-iso-butyl phthalate (DIBP)	0.1% (1000 mg/kg)

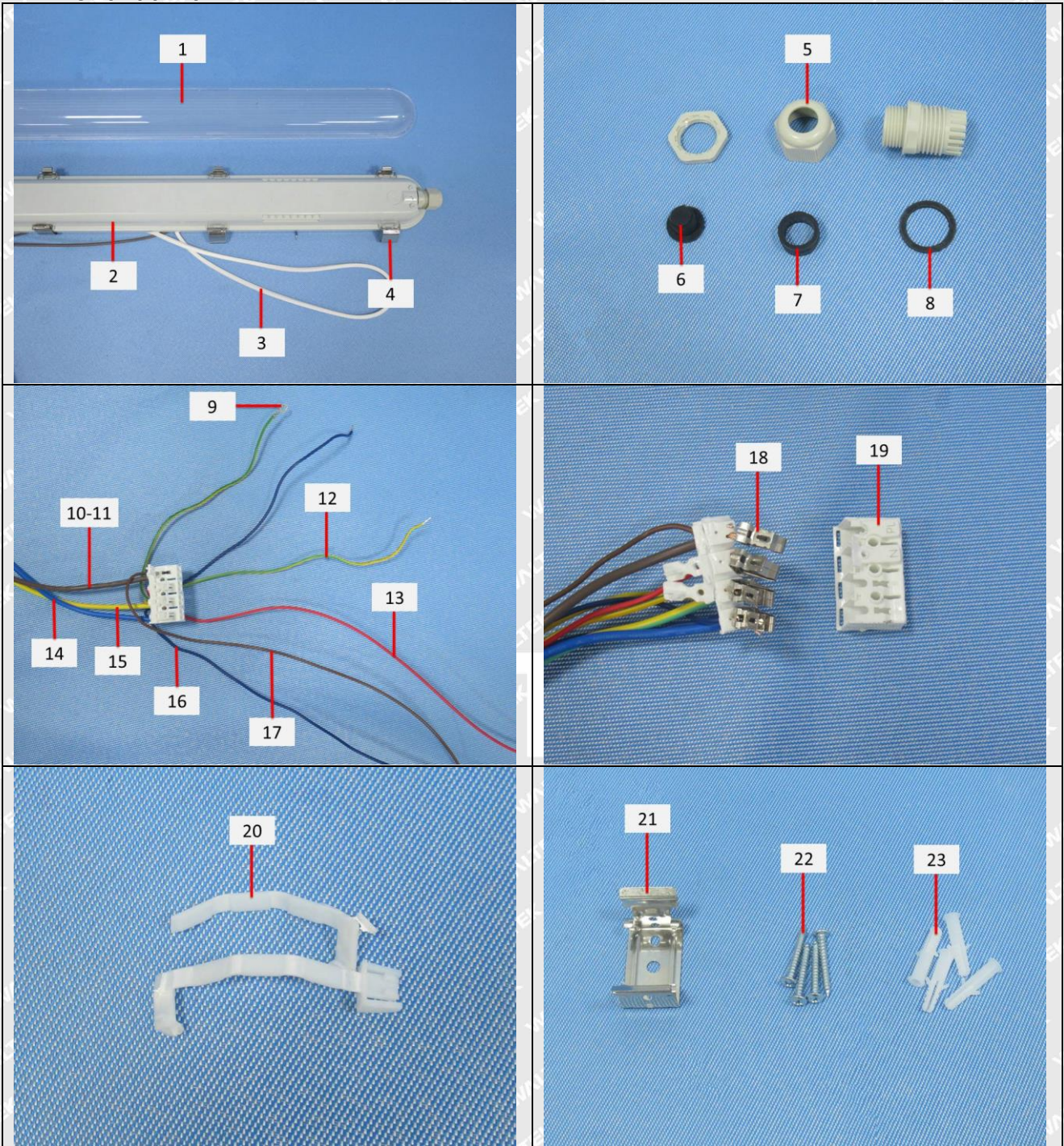
(7) “△”= As client's requirement, the testing was conducted based on mixed components. Results are calculated by the minimum weight of mixed components.

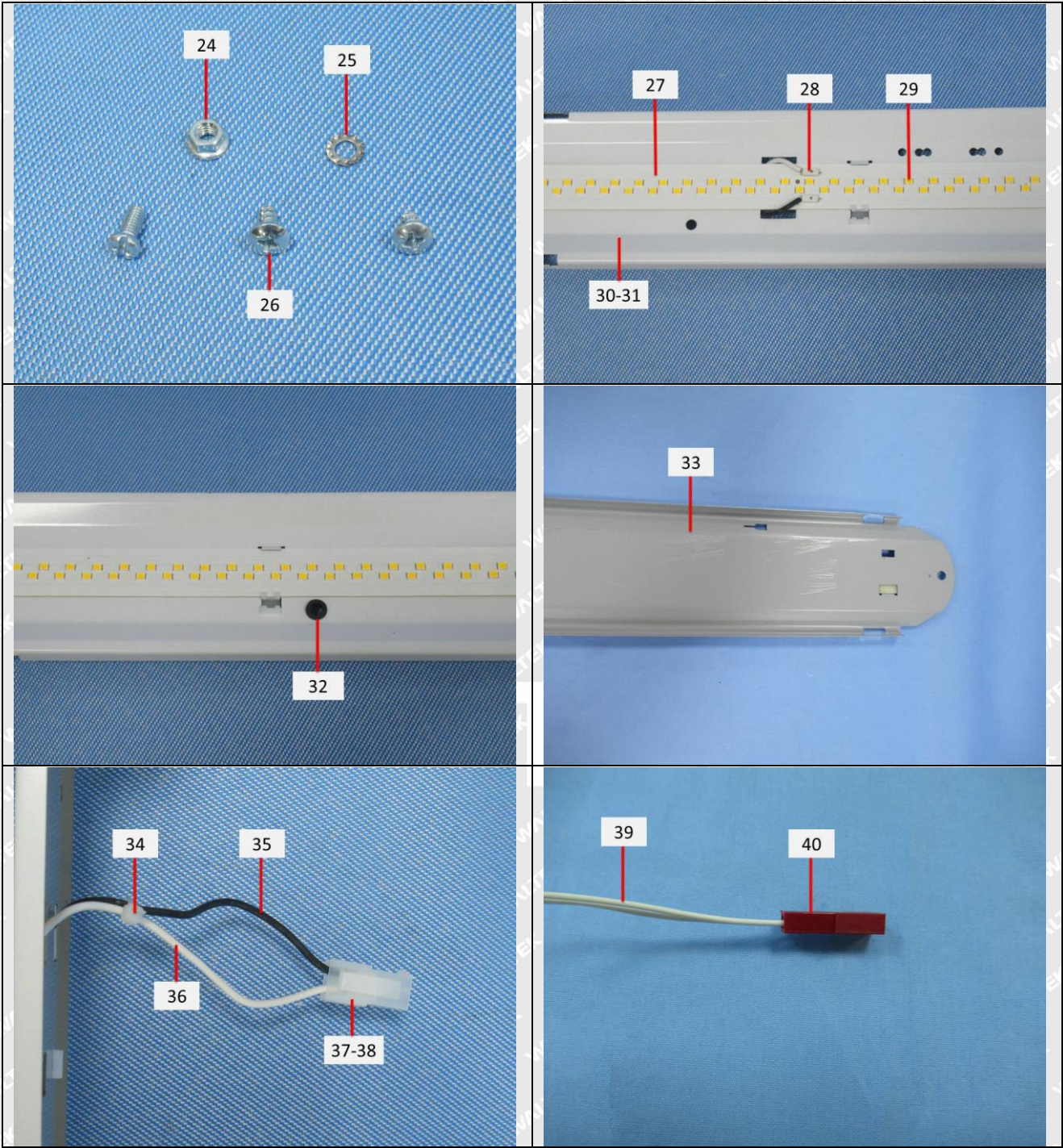
Measurement Flowchart:

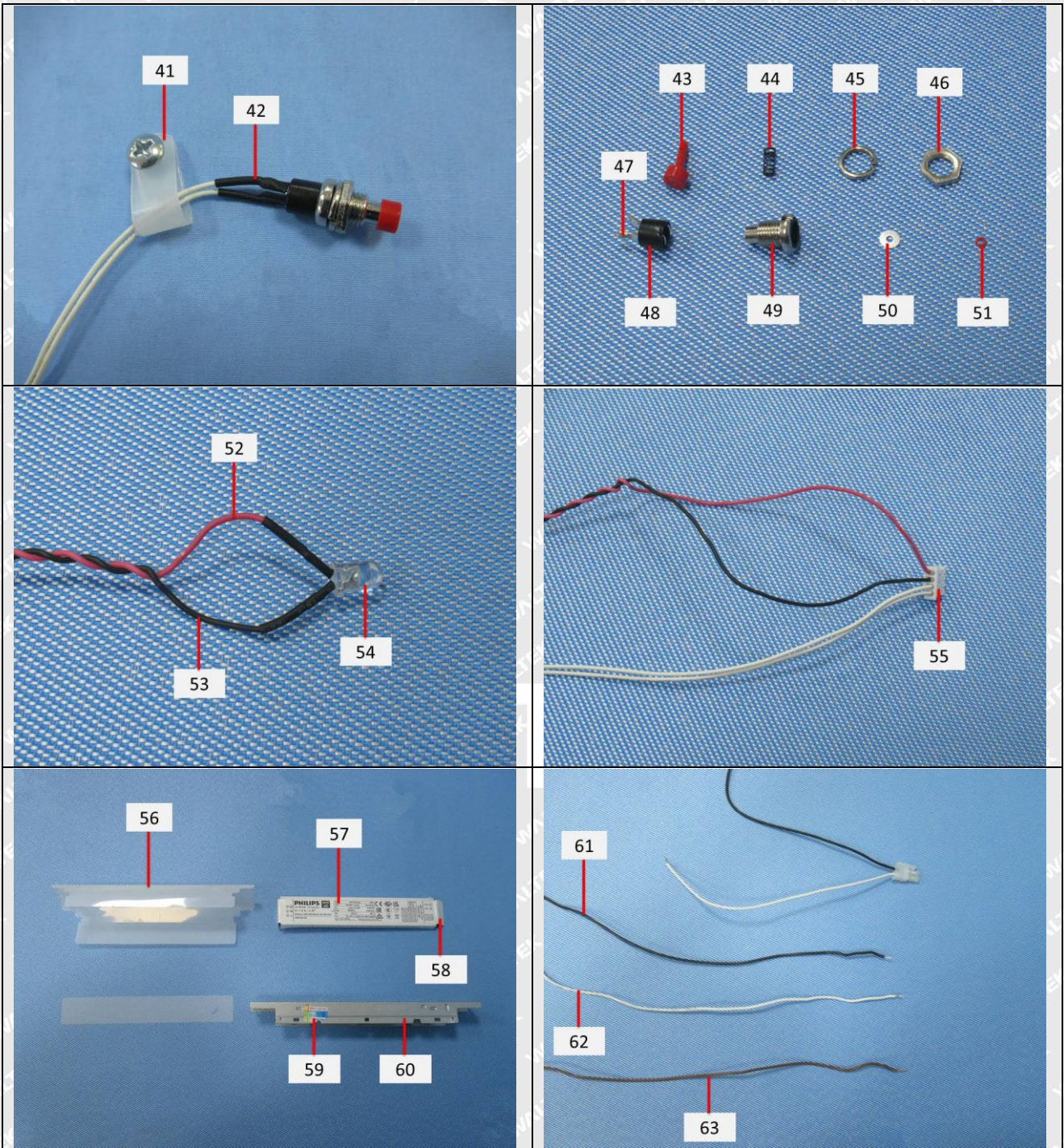


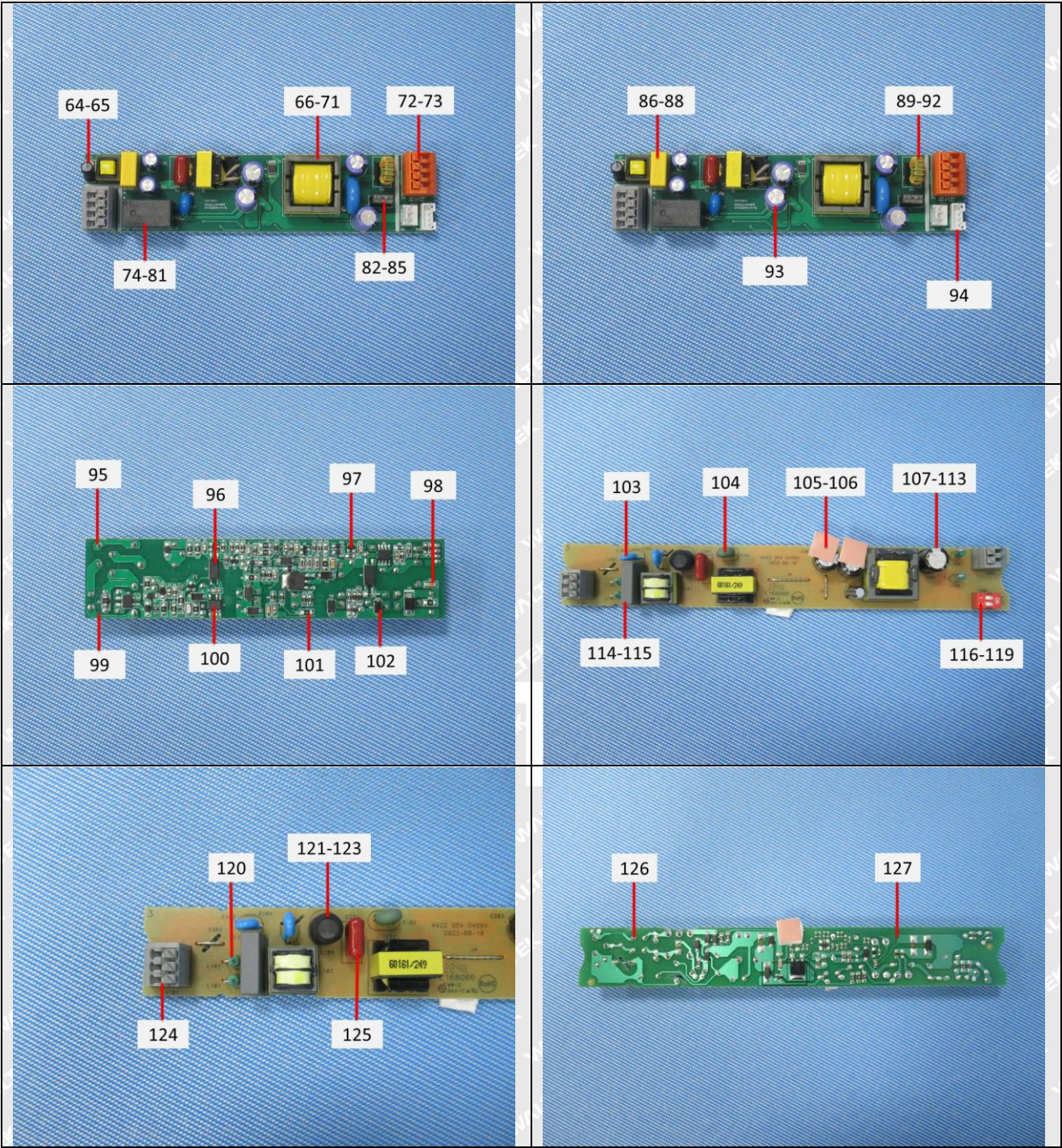


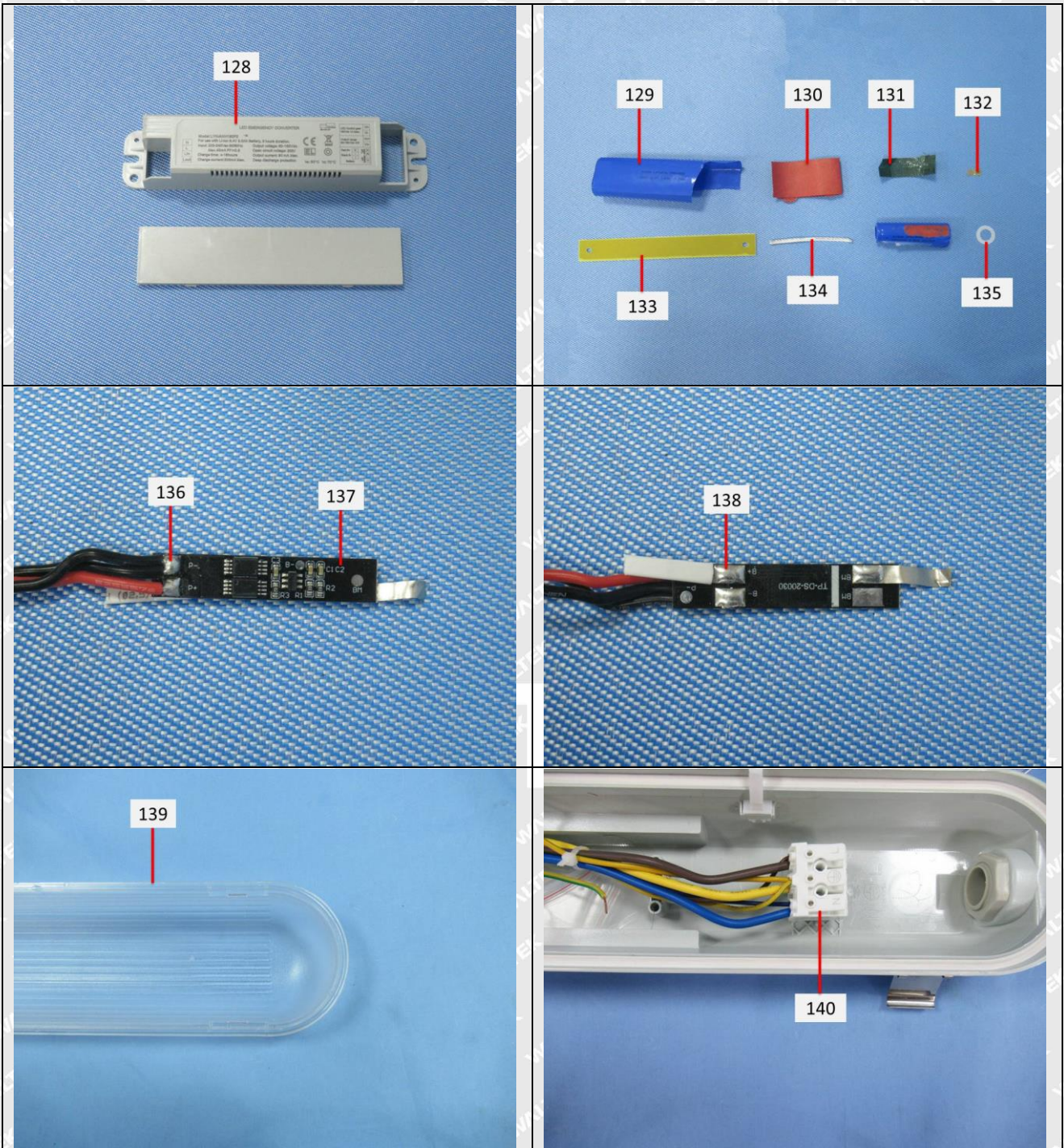
Photograph(s) of parts tested:













Report No.: WTF23F05118028A1R1C

Remarks:

1. The results shown in this test report refer only to the sample(s) tested;
2. This test report cannot be reproduced, except in full, without prior written permission of the company;
3. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver;
4. The Applicant name and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which Waltek hasn't verified;
5. If the report is not stamped with the accreditation recognized seal, it will only be used for scientific research, education, and internal quality control activities, and is not used for the purpose of issuing supporting data to the society.
6. The sample material information (Model No. information) is provided by client, not verified by test laboratory. The samples of reference Model No. are not tested. Test laboratory not responsible for the accuracy, appropriateness, completeness and authenticity of the information provided by client.

===== End of Report =====

WALTEK