

# TEST REPORT

CheckCode:867217  
Report No.:C202213011033E-G1

**Applicant:** Lumi United Technology Co., Ltd.  
**Address:** Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No.3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

**The following sample information was submitted and identified by/on the behalf of the client**

**Name:** Curtain Driver E1  
**Model No.:** CM-M01  
**Product Weight(g):** 480  
**Product Size(mm):** 13795 × 45  
**Category under the WEEE Directive:** Category 5 (Small equipment (no external dimension more than 50 cm))

**Date of Receipt:** Apr.1, 2022      **Test Period:** Apr.1, 2022 – Apr.18, 2022

**Test Request:** Calculation of the Reuse/Recycling and Recovery Targets under the 2012/19/EU WEEE Directive.

**Test Result:** Please refer to following page(s).

Edited by Mo Chunhui      Reviewed by Zhang Lina      Approved by Zheng Xiaojing



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Seal of:

**GUANGZHOU GRG METROLOGY & TEST CO., LTD.**

Issue date:Jun.1,2022

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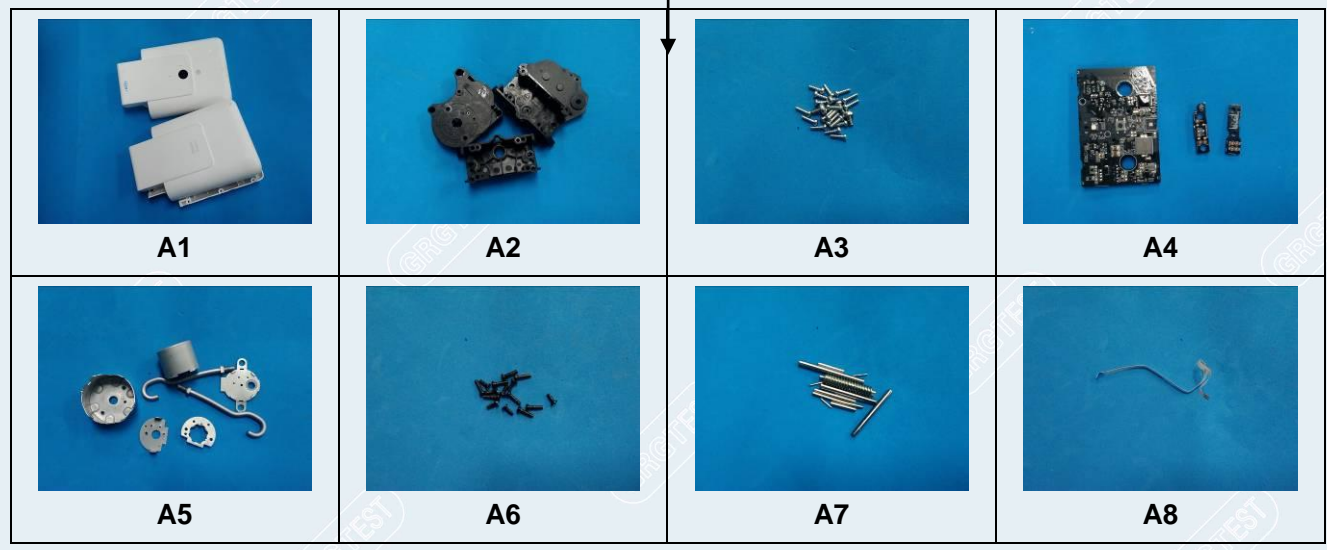
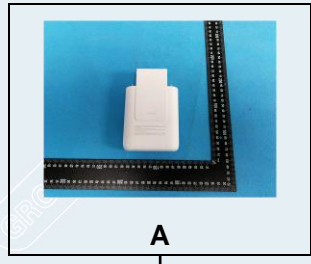
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## 1. Result of Reuse/Recycling Rate and Recovery Rate Assessment

Reuse/Recycling and Recovery	Reuse/Recycling /Recovery Targets under the 2012/19/EU WEEE Directive	Result of Assessment	WEEE requirement
Reuse/Recycling Rate (%)	55	75.08	PASS
Recovery Rate (%)	75	90.80	PASS

## 2. Photos of tested sample

Model No.: CM-M01



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 <p><b>A9</b></p>	 <p><b>A10</b></p>	 <p><b>A11</b></p>	 <p><b>A12</b></p>
 <p><b>A13</b></p>	 <p><b>A14</b></p>	 <p><b>A15</b></p>	 <p><b>A16</b></p>
 <p><b>A17</b></p>	 <p><b>A18</b></p>	 <p><b>A19</b></p>	 <p><b>A20</b></p>
 <p><b>A21</b></p>	 <p><b>A22</b></p>	 <p><b>A23</b></p>	 <p><b>A24</b></p>
 <p><b>A25</b></p>			



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### 3. Disassembly Procedure

The disassembly procedure taken here is in accordance with the treatment requirements under the Annex VII of the WEEE Directive. In addition, to consider economic and efficiency factors, manual operation and disassembly tools have been applied to separate the components and materials from this product in order to simulate the scenario at the treatment facility, and to achieve the objective that the separated components and materials can be reused/recycled and recovered.

### 4. Assessment Results

#### 4.1 Assessment Summary

<b>Product Name/ Model No.</b>	Curtain Driver E1/ CM-M01	
		
<b>Total Weight(g)</b>	480	
<b>Disassembly tool</b>	<b>Crosshead screwdriver</b>	<b>Screwdriver with one head</b>
	<b>Socket wrench</b>	<b>Needle nose pliers</b>
	<b>Bevel pliers</b>	<b>blade</b>
	<b>Garden scissors</b>	
<b>Disassembly Time (s)</b>	800	
<b>Material and Recycling Information</b>	<b>See 4.2 Material and Recycling Information</b>	

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## 4.2. Material and Recycling Information

According to the information declared by the applicant company, the material and recycling information for this product is described in the following table.

The Reuse/recycling and recovery assessment for this product is based upon economic and efficiency considerations, and the waste treatment technologies and equipment that are most frequently available to the market.

Component / Material Composition		Photo No.	Weight (g)	Percent Weight (%)	Reuse/ Recycling (%)	Energy Recovery (%)	Recovery (%)
Metal	30CrNiMo8	A3.A6	6.76	1.41	1.38	0.00	1.38
Metal	SS304	A5	35.73	7.44	7.29	0.00	7.29
Metal	Cu	A7	15.16	3.16	3.10	0.00	3.10
Metal	Pm	A10.A16	5.72	1.19	0.95	0.00	0.95
Metal	Zinc	A11	19.00	3.96	3.17	0.00	3.17
Metal	Al alloy	A14.A15	22.98	4.79	3.83	0.00	3.83
Metal	30CrNiMo8	A17	11.05	2.30	2.26	0.00	2.26
Plastic cement	PC	A1	159.16	33.16	29.18	0.00	29.18
Plastic cement	PA66+GF30	A2.A9	48.38	10.08	0.00	9.07	9.07
Plastic cement	PET	A12	0.23	0.05	0.04	0.00	0.04
Plastic cement	POM	A13.A18	2.88	0.60	0.53	0.00	0.53
Plastic cement	PVC+GF+P P	A23	13.64	2.84	2.50	0.00	2.50
PCB	PCB	A4.A8	21.27	4.43	3.99	0.00	3.99

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Component / Material Composition		Photo No.	Weight (g)	Percent Weight (%)	Reuse/ Recycling (%)	Energy Recovery (%)	Recovery (%)
Hybrid components	Hybrid components	A19.A20. A21.A22. A24.25	118.04	24.59	16.87	6.64	23.51
Total			480.00	100.00	75.08	15.71	90.80

**Note:**

Due to their insignificant weight and the difficulty of their separation in a manual operation, sticker, solder, paint and printing materials are not included in this assessment.  
Plastic containing brominated flame retardants is not assessed in the list.

## 5. Reuse/Recycling and Recovery Rate Calculation

Reuse/Recycling & Recovery Rate using in the report are calculated as following formulas:

$$\text{Reuse/Recycling Rate} = \frac{\text{Reuse/Recycling Weight}}{\text{Product Total Weight}} \quad (\%)$$

$$\text{Recovery Rate} = \frac{\text{Reuse/Recycling Weight} + \text{Energy Recovery Weight}}{\text{Product Total Weight}} \quad (\%)$$

Total weigh of the product is including the main product and accessories.

## 6. ANNEX VII of WEEE Directive

Selective treatment for materials and components of waste electrical and electronic equipment:

- Polychlorinated biphenyls (PCB) containing capacitors in accordance with Council Directive 96/59/EC of 16 September 1996 on the disposal of polychlorinated biphenyls and polychlorinated terphenyls (PCB/PCT) (1).
- Mercury containing components, such as switches or backlighting lamps.
- Batteries.

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- Printed circuit boards of mobile phones generally, and of other devices if the surface of the printed circuit board is greater than 10 square centimetres.
- Toner cartridges, liquid and pasty, as well as colour toner.
- Plastic containing brominated flame retardants.
- Asbestos waste and components which contain asbestos.
- Cathode ray tubes.
- Chlorofluorocarbons (CFC), hydrochlorofluorocarbons (HCFC) or hydrofluorocarbons (HFC), hydrocarbons (HC).
- Gas discharge lamps.
- Liquid crystal displays (together with their casing where appropriate) of a surface greater than 100 square centimeters and all those back-lighted with gas discharge lamps,
- External electric cables.
- Components containing refractory ceramic fibres as described in Commission Directive 97/69/EC of 5 December 1997 adapting to technical progress Council Directive 67/548/EEC relating to the classification, packaging and labelling of dangerous substances .
- Components containing radioactive substances with the exception of components that are below the exemption thresholds set in Article 3 of and Annex I to Council Directive 96/29/Euratom of 13 May 1996 laying down basic safety standards for the protection of the health of workers and the general public against the dangers arising from ionising radiation .
- Electrolyte capacitors containing substances of concern (height > 25 mm, diameter > 25 mm or proportionately similar volume).

Remark: This report is to supersede test report C202213011033E,  
the report C202213011033E was cancelled since this report is sent out.

-----End of Report-----