

**Report No.:** 0154371940 001

**Client:** **Qingdao Yeelink Information Technology Co., Ltd.**  
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Qingdao, 266101 Shandong, China

**Manufacturer:** Qingdao Yeelink Information Technology Co., Ltd.

**Test item(s):** Mi Bedside Lamp 2

**Model No(s):** MJCTD02YL

**Sample Receiving date:** 2018-11-14

**Delivery condition:** **Apparent good, Samples tested as received**

**Test location:** **TÜV Rheinland (Shanghai) Co. Ltd.**  
12F, TÜV Rheinland Building  
No. 177 Lane 777, Guangzhong Road West  
Shanghai 200072, P.R.China

**Test specification:**

**WEEE Directive 2012/19/EU**  
Article 11 Recovery and Recycling  
Calculation of Theoretical Recovery and Recycling Rate

**Test result:**

**Pass**

**Other Information:**

The assessment describes the theoretical recyclability. The assessment cannot predict the actual material output by the recycler as the recovery process may vary between recyclers.

Test period: 2018-11-14 – 2018-12-05

**For and on behalf of**  
**TÜV Rheinland (Shanghai) Co., Ltd.**



2018-12-14 Nicky Chen Project Manager  
Date Name/Position

*Test result is drawn according to the kind and extent of tests performed.  
This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.*

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## 1. General Remarks

### 1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Photos of tested sample

## Mi Bedside Lamp 2



## 2. General Product Information

### 2.1 Product Description

The product is **Mi Bedside Lamp 2**. It is classified as **Category 5** under Annex III of Directive 2002/95/EC.

### 2.2 Submitted Documents

None

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### 3. Assessment Description

#### 3.1 Disassembly, Recovery and Recycling Flow

The product is disassembled into different parts (clumps) and grouped by the type of material sharing common characteristic or physical relationship (waste fractions) primarily based on the treatment requirements as set out in the WEEE directive annex VII, followed by the current state of the art recycling and recovery technology available in Europe. Materials for which currently no recycling technology is available or where the recycling is economically not feasible, or which contain hazardous substances, are assumed to be shredded, incinerated or disposed of to landfill with out further use.

Only bigger clumps that can be easily separated and that share a common characteristics or physical relationships are included in the recycling and reuse calculation. Other parts, respectively materials that cannot be separated by e.g. standard tools are classified as either unspecified materials or distributed to the relative waste fraction with highest content of waste is expected with reduced recovery rate.

#### 3.2 Parameters

The calculation is based on waste fractions consisting of a typical material or substance composition for typical materials. (e.g. a power cord consists of copper wire and PVC, where as the PVC consists of a PVC, polyamide and polyester blend). For every waste fraction a theoretical recovery share for recycling and for incineration respectively waste disposal is assumed based on information provide by recycling companies. The recovery share may change over time as the recycling technology advances. The current recovery shares are available upon request.

#### 3.3 Definition

**3.3.1 Regular:** Reuse, Recycling and Recovery Rate: Applying commonly used recycling technology.

**3.3.2 Ideal:** Recycling Rate: Applying highest recycling technology.

##### 3.3.3 Recycling Classification

A class: Common recycling technology and high market need


B class: Recycling technology not popular and high market need

C class: Common recycling technology and low market need

D class: Recycling technology not popular and low market need

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**4. Assessment Results**  
**4.1 Assessment Summary**

<b>Product Name/ Model No.</b>	<b>Mi Bedside Lamp 2</b>	
		
<b>Total Weight(g)</b>	<b>875.4</b>	
<b>Connection Technique</b>	<b>Screw</b>	
<b>Connection Tools</b>	<b>Hands</b>	<b>Scissor</b>
	<b>Screwdriver</b>	
<b>Disassembly Time, Sec</b>	<b>-</b>	
<b>Derivative Summary</b>	<b>See 4.2 Product Derivative Table</b>	
<b>Derivative Rate</b>	<b>See 4.3 Product Derivative Summary</b>	
<b>Reuse/Recycling Rate</b>	<b>See 4.4 Test Result</b>	
<b>Recovery Rate</b>	<b>See 4.4 Test Result</b>	

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**4.2 Product Derivative Table**

Product Name/Type		Mi Bedside Lamp 2						
Derivative	Weight (g)	Weight (%)		Re-use (%)	Recycling (%)	Incineration (%)	Disposal (%)	
whole product	Plastic, ABS+PC	113.7	13.50			^		
	Metal	265.4	31.50			^		
	Mixed Metal	23.1	2.74	Ideal		^		
				Regular		2.06		0.69
	Mixed Plastic	19.7	2.34				^	
	Plastic, PC	369.5	43.86			^		
	Plastic, ABS	4.2	0.50			^		
	Plastic, PET	1.8	0.21			^		
	Silicone rubber	2.0	0.24				^	
Printed Circuit Board (PCB)	43.1	5.12	Ideal		^			
			Regular		2.56		2.56	
Total (without cables)		842.5	100	Ideal	0	97.42	2.58	0
				Regular	0	94.18	2.58	3.24

**Remark:**

^: The recycling / incineration / disposal rate of this material is 100%.

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### 4.3 Product Derivative Summary

#### Product Derivative Table

	Mi Bedside Lamp 2	
	Percentage of Weight (%)	
	Ideal	Regular
Reuse Weight	0.00	0.00
Recycling Weight	97.42	94.18
Incineration Weight	2.58	2.58
Disposal Weight	0.00	3.24
Product Sample Weight	100%	

### 4.4 Test Result

**PASS**

Required Reuse/Recycling Rate	Mi Bedside Lamp 2	
	Testing Reuse/Recycling Rate	
	Ideal	Regular
55%	97.42%	94.18%
Required Recovery Rate	Testing Recovery Rate	
	Ideal	Regular
	75%	100.00%

--- End ---