

# CE LVD TEST REPORT

For

### **LED BULB**

Model No.: VT-2022, VT-2011, VT-2016, VT-2109, VT-2129, VT-2119, VT-2122,

VT-2149

Applicant: V-TAC EXPORTS LIMITED

**ROOM NO.301, KAM ON BUILDING 176A QUEENS ROAD** 

**CENTRAL, CENTRAL, HONGKONG** 

Manufacturer: V-TAC EXPORTS LIMITED

**ROOM NO.301, KAM ON BUILDING 176A QUEENS ROAD** 

CENTRAL, CENTRAL, HONGKONG

Issued By: Global-Standard Testing Service Co., Ltd.

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Report Number: J02.06.0184S

Issued Date: July 11, 2017 Date of Report: July 11, 2017

### Note:

1. The test data and result is based on the tested sample only.

2. Please verify information in the report on GST web: <a href="www.gstslab.com">www.gstslab.com</a> through report number.

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### **TEST REPORT**

### EN 62560: 2012+ A1:2015

# Self-ballasted LED-lamps for general lighting services by voltage > 50 V

### - Safety specifications

|                                     | - Salety specifications  |
|-------------------------------------|--|
| Report reference No                 | J02.06.0184S   |
| Testing laboratory                  | Global-Standard Testing Service Co., Ltd.  |
| Location:                           | Room 1911-1914, Noble Plaza, Qian Jin 1st Road, Bao An District, Shenzhen, Guangdong, China.   |
| Applicant:                          | V-TAC EXPORTS LIMITED  |
| Address:                            | ROOM NO.301, KAM ON BUILDING 176A QUEENS ROAD CENTRAL, CENTRAL, HONGKONG   |
| Manufacturer                        | V-TAC EXPORTS LIMITED  |
| Address:                            | ROOM NO.301, KAM ON BUILDING 176A QUEENS ROAD CENTRAL, CENTRAL, HONGKONG   |
| Standards:                          | EN 62560: 2012+ A1:2015<br>EN 60061-1:1993+A53:2015<br>EN 62031: 2008+A2:2015<br>EN 61347-1:2015<br>EN 61347-2-13:2014<br>EN 62471:2008<br>EN 62493:2015 |
| Procedure deviation:                | N/A  |
| Non-standard test method:           | N/A  |
| Type of test equipment:             | LED BULB   |
| Trade mark:                         | V-TAC  |
| Model/Type designation:             | VT-2022, VT-2011, VT-2016, VT-2109, VT-2129, VT-2119, VT-2122, VT-2149   |
| Rating:                             | AC220-240V, 50-60Hz, 6W Max  |
| Copyright blank test report:        | Global-Standard Testing Service Co., Ltd.  |
| Test item particulars:              |  |
| Operating Condition                 | Continuous   |
| Class of equipment                  | Class II equipment   |
| Protection against ingress of water | IP20   |



| General remarks:   |                                     |
|--|-------------------------------------|
| "(see remark #)" refers to a remark appended to the report.  | Attached with:                      |
| "(see appended table)" refers to a table appended to the report.   | Attachment - A. Photo Documentation |
| Throughout this report a comma is used as the decimal separator.   |                                     |
| The test results presented in this report relate only to the object tested.  |                                     |
| This report shall not be reproduced except in full without the written approval of the testing laboratory.                                   |                                     |
| Until otherwise specified, all tests are done under normal ambient condition 25℃±10℃, Max RH: 75% and air pressure of 860 mbar to 1060 mbar. |                                     |
| Brief description of the test sample:  |                                     |

- 1 This report covers the LED BULB with models VT-2022, VT-2011, VT-2016, VT-2109, VT-2129, VT-2119, VT-2122, VT-2149 for indoor use;
- 2.All models have the same construction except for wattage;
- 3. The model VT-2022 was selected as representative sample to perform all testing;
- 4. The standard of LED modules for general lighting was evaluated with reference to EN 62031;
- 5. The standard of EN 62471 and EN 62493 have been considered in report.



| Possible test case verdicts :               |        |
|---|--------|
| test case does not apply to the test object | N(/A.) |
| test object does meet the requirement       | P(ass) |
| test object does not meet the requirement   | F(ail) |
|   |        |

### Name and address of the testing laboratory:

Global-Standard Testing Service Co., Ltd. Room 1911-1914, Noble Plaza, Qian Jin 1st Road, Bao An District, Shenzhen, Guangdong, China.

| Tested by | : | Sean Xiao           | _July 04, 2017 |
|-----------|---|---------------------|----------------|
| _         |   | Signature           | Date           |
|           |   | Sean Xiao/ Engineer |                |

Name/title

Witnessed by:

Signature

July 11, 2017

Date

Jerry Hu / project Engineer Name/title

Approved by : \_\_\_\_\_Signature \_\_\_\_\_ <u>July 11, 2017</u>
Date

Name/title



### Label

### Representative

### **LED BULB**

Model: VT-2022

Rating: AC 220-240V, 50-60Hz, 6W Max

Non-replaced LED



Note:

- 1. Due to similarity of the labels, only above label was listed;
- 2,All models have the same marking plate except the model name and input rating with wattage;
- 3. The height of WEEE directive mark is at least 7mm and others directive mark are at least 5mm height.



|        | Nepolt Neielelice No.: 302.00.0 1045  |                 |       |
|--------|---|-----------------|-------|
|        | EN 62560  |                 |       |
| Clause | Requirement   | Result - Remark | Verd. |
|        |   |                 |       |
| 4      | GENERAL REQUIREMENTS  |                 | Р     |
| 4.1    | The lamp shall be so designed and constructed that in normal use cause no danger to the user. |                 | Р     |
| 4.2    | Self-ballasted LED-Lamp are non-repairable.   |                 | Р     |

| 5.        | MARKING   |  | Р   |
|-----------|---|--|-----|
| 5.1       | Mandatory marking                                   | V-TAC  | Р   |
|           | - mark of origin                                    | Made in China  | Р   |
|           | - rated supply voltage (V)                          | 220-240VAC   | Р   |
|           | - rated wattage (W)                                 | See label  | Р   |
|           | - rated frequency (Hz)                              | 50-60Hz  | Р   |
| 5.2       | Addition marking                                    | See label  | Р   |
|           | - burning position                                  |  | N   |
|           | - rated current (A)                                 | 36mA   | Р   |
|           | - weight significantly higher                       | Warning:increased weight of lamp may reduce the mechanical stability of certain luminaires and lampholders and may impair contact making and lanp retention (inthe instruction manual) | Р   |
|           | - special conditions or restrictions                |  | N/A |
|           | Not suiltable for dimming;symbol used               |  | Р   |
|           | - eye protection                                    | The products are classified as exempt group according to IEC 62471:2008.   | Р   |
| 5.3       | Marking durable and legible                         |  | Р   |
|           | rubbing 15 s water, 15 s petroleum; marking legible |  | Р   |
| Addition: | Position of the marking                             | On the body  | Р   |
|           | Language of instructions                            | English  | Р   |
|           | Suitability for use indoors                         |  | Р   |



|        |   | Report Reference No302.06 | 7.0 10 10 |
|--------|---|---------------------------|-----------|
|        | EN 62560  |                           |           |
| Clause | Requirement – Test                                    | Result - Remark           | Verdict   |
|        | Wireways smooth and free from sharp edges             |                           | Р         |
| 6      | INTERCHANGEABILITY                                    |                           | Р         |
| 6.1    | Cap interchangeability in accordance with IEC 60061-1 |                           | Р         |
|        | Gauge in accordance with IEC 60061-3                  |                           | N/A       |
| 6.2    | Bending moment,axial pull ande mass                   |                           | Р         |
|        | Bending moment imparted by the lamp at the lampholder |                           | Р         |
|        | Lamp construction withstands axial pull (N)           | 40N                       | Р         |
|        | Mass not exceeding value tabel 2 (kg):                | 0.030kg                   | Р         |

| 7.        | PROTECTION AGAINST ACCIDENTAL CONTACT WITH LIVE PARTS           |  | Р   |
|-----------|---|--|-----|
|           | Internal, basic insulated or live metal parts not accessible    |  | Р   |
|           | Tested with a test finger with a force of 10 N                  |  | Р   |
|           | Compliance checked with appropriate gauges                      |  | N/A |
| Addition: | Live parts not accessible                                       |  | Р   |
|           | Protection in any position                                      |  | Р   |
|           | Insulation lacquer not reliable                                 |  | Р   |
|           | Class II luminaire:   |  | Р   |
|           | - insulation-encased, reinforced insulation                     |  | Р   |
|           | - glass protective shields not used as supplementary insulation |  | N/A |
|           | Covers have adequate strength                                   |  | N/A |
|           | Covers reliably secured   |  | N/A |
|           | Portable plug connected luminaire with capacitor                |  | N/A |

| 8.  | INSULATION RESISTANCE AND ELECTRIC STRENGTH AFTER HUMIDITY TREATMENT  |                                | Р |
|-----|---|--------------------------------|---|
| 8.1 | Insulation resistance and electric strength shall be the lamp and accessible parts of the lamp.                               | adequate between live parts of | Р |
| 8.2 | After storage 48 h at 91-95% relative humidity and 20-30 °C measuring of insulation resistance with d.c. 500 V (M $\Omega$ ): |                                | Р |
|     | $\geq$ 4 M $\Omega$ for double or reinforced insulation :   | 100 MΩ.                        | Р |



|        | Report Releience NoJuz.uo.u1045                               |                 |         |  |
|--------|---|-----------------|---------|--|
|        | EN 62560  |                 |         |  |
| Clause | Requirement – Test  | Result - Remark | Verdict |  |
|        |   |                 |         |  |
| 8.3    | Immediately after clause 8.2 electric strength test for 1 min |                 | N/A     |  |
|        | Double or reinforced insulation, 4U + 2000 V                  |                 | N/A     |  |
|        | No flashover or breakdown                                     |                 | N/A     |  |

| 9.        | MECHANICAL STRENGTH  |                     | Р   |
|-----------|--|---------------------|-----|
|           | Torsion resistance of unused lamps   |                     |     |
| 9.1       | Torque test  |                     | Р   |
|           | B 15 d Cap1,15Nm   |                     | N/A |
|           | B 22 d Cap3,0 Nm   |                     | N/A |
|           | E 11 Cap   |                     | N/A |
|           | E 12 Cap   |                     | N/A |
|           | GU10 Cap1.15Nm   |                     | N/A |
|           | E 14 Cap1,15 Nm  |                     | N/A |
|           | E 27 Cap1,5 Nm   | under consideration | Р   |
|           | GX 53 Cap3,0 Nm  |                     | N/A |
|           | GU13 Cap1.15 Nm  |                     | N/A |
| 9.2       | Torsion resistance of lamps after a defined time of usage  |                     | Р   |
|           | Torsion resistance of used lamp  |                     | Р   |
| 9.3       | Repetition of clause 8   | •                   | Р   |
|           | Clause 8 shall comply after the mechanical strength test.  |                     | Р   |
| Addition: | Lampholders  |                     | Р   |
|           | Mounting brackets for Edison screw or bayonet-<br>capped lampholders are subjected to testing for<br>1min, to the following bending moments: |                     | Р   |
|           | Locked connections:  |                     | Р   |
|           | - fixed arms; torque (Nm):   |                     | N/A |
|           | - lampholder; torque (Nm)  | 3Nm                 | Р   |
|           | - push-button switches; torque (Nm):   |                     | N/A |
|           | No sharp point or edges  |                     | Р   |
|           | Impact tests:  |                     | Р   |
|           | - fragile parts; energy (Nm):  | 0.2Nm               | Р   |



|        | EN 62560   | Report Reference No. | JU2.00.0184S |
|--------|--|----------------------|--------------|
| Clause | Requirement – Test   | Result - Remark      | Verdic       |
|        | - other parts; energy (Nm):  |                      | N/A          |
|        | 1) live parts  |                      | P            |
|        | 2) linings   |                      | Р            |
|        | 3) protection  |                      | P            |
|        | 4) covers  |                      | N            |
|        | Straight test finger   |                      | N            |
|        |  |                      |              |
| 10     | CAP TEMPERATURE RISE   |                      | P            |
|        | The cap temperature rise Δt <sub>s</sub> of the lamp shall   |                      | P            |
|        | - B22d125  |                      | N            |
|        | - B15d120  |                      | N            |
|        | - E27120   | OK 26.4K             | N            |
|        | - E14125   | 5K                   | N            |
|        | - GU10100  | K                    | N            |
|        | - GU13100  | oK                   | Р            |
| 11     | RESISTANCE TO HEAT   |                      | N/A          |
|        | External parts of insulating material providing protection against electric shock, and parts of insulating material retaining live parts in position ball pressure test:   | 1,                   | N/A          |
|        | Part tested; temperature (°C);<br>diameter of impression (≤ 2 mm):   |                      | N/A          |
|        | Part tested; temperature (°C);<br>diameter of impression (≤ 2 mm):   |                      | N/A          |
|        | Part tested; temperature (°C);<br>diameter of impression (≤ 2 mm):   |                      | N/A          |
| 12.    | RESISTANCE TO FLAME AND IGNITION   |                      | N/A          |
| 14.    | Parts of insulating material retaining live parts in position and external parts of insulating material providing protection against electric shock, glow wire test 650 °C | I                    | N/A          |
|        | - no flaming drops igniting tissue paper   |                      | N/A          |
|        |  | <u> </u>             |              |

- flame extinguished within 30 s

N/A



|        | EN 62560                                  | Report Reference No002.00 |         |  |
|--------|---|---------------------------|---------|--|
| Clause | Requirement – Test                        | Result - Remark           | Verdict |  |
|        |   |                           |         |  |
|        | Part tested; temperature (°C)             |                           |         |  |
|        | No visible flame and no sustained glowing |                           | N/A     |  |

| 13   | FAULT CONDITIONS  |                      |     |  |  |  |
|------|---|----------------------|-----|--|--|--|
| 13.2 | Extreme electrical conditions (dimmable lamps)  |                      |     |  |  |  |
|      | Lamp withstands overpower condition >15 min.  |                      | N/A |  |  |  |
|      | Lamp fails safe after 15 min overpower condition  |                      | N/A |  |  |  |
|      | Lamp with automatic protective device or power limiter, test performed 15 min. at limit.  |                      | N/A |  |  |  |
| 13.3 | Extreme electrical conditions (non-dimmable lamp  | s)                   | N/A |  |  |  |
|      | Tested according 13.2 (as far as possible)  |                      | N/A |  |  |  |
| 13.4 | Short-circuit across capacitors   | (see appended table) | N/A |  |  |  |
| 13.5 | Fault conditions: where diagram indicates fault condition impairs safety, electronic components have been short-circuited or disconnected | (see appended table) | N/A |  |  |  |
| 13.6 | When operated under fault conditions the lamp   |                      | N/A |  |  |  |
|      | - does not emit flames or molten material   |                      | N/A |  |  |  |
|      | - does not produce flammable gases or smoke   |                      | N/A |  |  |  |
|      | - live parts not accessible   |                      | N/A |  |  |  |
|      | After the tests the insulation resistance with d.c. 1000 V complies with requirements of Cl. 8.1  |                      | N/A |  |  |  |

| 14 (16) | CREEPAGE DISTANCES AND CLEARANCES   |     |  |  |
|---------|---|-----|--|--|
|         | Creepage distances and clearances according to Table 3 and 4 of IEC 61347-1, as appropriate | Р   |  |  |
|         | Printed boards see clause 14 of IEC 61347-1   | Р   |  |  |
|         | Insulating lining of metallic enclosures  | N/A |  |  |



| TABLE 错误!未<br>指定书签。                                  | List of critical components                     | and mate                 | erials  |                          |
|--|---|--------------------------|---|--------------------------|
| Component  | manufacturers / trademark                       | Type /<br>model          | Value / rating  | Approval/<br>Reference   |
| LED PCB  | Shikibo Electronics Co Ltd                      | E4                       | V-0, 130℃   | Appliance of test and UL |
|  |   | Appliance of test and UL |   |                          |
| Lamp base  | Zhongshan guzhen China thousand lamp factory    | E27                      | Medium (E26) base, made<br>of aluminium alloy.<br>Min.tnickness 0.24mm. | Appliance of test        |
| PCB of LED driver                                    | Flectronic Lechnology Co   4 HAL3 RTL3V-0 130°C |                          | Appliance of test and UL  |                          |
| LED driver V-TAC EXPORTS VT-20                       |   | VT-20                    | 220-240VAC, 50/60Hz,<br>Max.8W  | Appliance of test        |
| Enclosure  | Celanese International<br>Corp                  | T140                     | Min.thickness 0.75mm,<br>HWI 3, HAI 3, RTI 3, V-0,<br>130℃              | Appliance of test and UL |
| Internal wire Dongguan Wenchang Electronic Co., Ltd. |   | 1007                     | VW-1, 300V, 105℃,<br>22AWG  | Appliance of test and UL |



## **Test Data table**

|   |   |  |                      |                | 10. 10.0.0       |                          |                           |                               |               |
|---|---|--|----------------------|----------------|------------------|--------------------------|---------------------------|-------------------------------|---------------|
| 11  | 1 TABLE: ball pressure test of thermoplastics               |  |                      |                |                  |                          | N/A                       |                               |               |
| Part Te   |   |  | Test temperature (℃) |                | •                | Impression diameter (mm) |                           | Required impre<br>diameter (m |               |
| РСВ   |   |  | 1:                   | 25             | 0.79             | 9                        |                           | ≤2.0                          |               |
| Diffuser  |   |  | 1:                   | 25             | 1.1              | 1                        | ≤2.0                      |                               |               |
| 13  | TAE   | BLE: tests                                 | of fault con         | ditions        |                  |                          |                           |                               |               |
| Part  | Sim   | ulated fault                               |                      |                | Result           |                          |                           |                               | Part          |
| C1  | Sho   | rt circuit                                 |                      |                | Fuse open        |                          |                           |                               | C1            |
| BD1   | Sho   | rt circuit                                 |                      |                | Fuse open        |                          |                           |                               | BD1           |
| Output + and _  | Sho   | Short circuit  Unit shut down, recoverable |                      |                |                  |                          | Output + and _            |                               |               |
| 14(16)  | 14(16) TABLE: Clearance And Creep age Distance Measurements |  |                      |                |                  |                          | Р                         |                               |               |
| clearance cl and creep age distance decry at/of:                            |   |  | Up<br>(V)            | U rams.<br>(V) | Required cl (mm) | cl<br>(mm)               | required<br>decry<br>(mm) | I                             | decry<br>(mm) |
| L and N on PCB  |   |  |                      | 240            | 1.5              | 2.61                     | 2.5                       |                               | 2.61          |
| Different polarity of fuse  |   |  | 240                  | 1.5            | 3.32             | 2.5                      |                           | 3.32                          |               |
| Live parts of driver PCB and accessible part                                |   |  | 240                  | 3.0            | 6.0              | 5.0                      |                           | 6.0                           |               |
| Primary circuit and secondary circuit of LED driver PCB                     |   |  | 240                  | 3.0            | 6.4              | 5.0                      |                           | 6.4                           |               |
| Primary winding of<br>transformer and<br>secondary circuit of LED<br>driver |   |  | 240                  | 3.0            | 6.4              | 5.0                      |                           | 6.4                           |               |
| Supplementary information:  |   |  |                      |                |                  |                          |                           |                               |               |
|   | Ten   | nperature m                                | neasurement          | ts,            |                  |                          |                           |                               | Р             |
|   |   |  |                      |                |                  |                          |                           | •                             |               |





| - abnormal operating mode  |               | Type reference                            | :                                |                          |        | VT-1885         |             |        | _        |      |
|--|---------------|---|----------------------------------|--------------------------|--------|-----------------|-------------|--------|----------|------|
| Mounting position of luminaire   |               | Lamp used                                 |                                  |                          |        | LED             |             |        | _        |      |
| Supply wattage (W)   |               | Ballast used:                             |                                  |                          |        |                 | _           |        |          |      |
| Supply current (A)   |               | Mounting position                         | of luminaire                     | :                        |        | Α               | s in normal | use    | _        |      |
| Table: measured temperatures corrected for Ta = 25°C:  |               | Supply wattage (W                         | /)                               | :                        |        |                 | 6.14W       |        | _        |      |
| - abnormal operating mode  |               | Supply current (A)                        |                                  | :                        |        |                 | 0.022A      |        | _        |      |
| - test 1: rated voltage  |               | Table: measured t                         | emperatures                      | corrected for T          | a = 25 | °C:             |             | Р      |          |      |
| - test 2: 1,06 times rated voltage or 1,05 times rated wattage   |               | - abnormal operati                        | ng mode                          | :                        |        |                 | _           |        | _        |      |
| rated wattage  |               | - test 1: rated volta                     | ıge                              | ·····:                   |        |                 | _           |        | _        |      |
| test 4: 1,1 times rated voltage or 1,05 times rated wattage  |               | - test 2: 1,06 times rated wattage        | rated voltage                    | e or 1,05 times          |        | 1.06×240V       |             |        |          |      |
| temperature (错误!未找到引 clause 12.4 - normal clause 12.5 - abnume   |               | - test 3: Load on w<br>1,06 times voltage | riring to socke<br>or 1,05 times | et-outlet,<br>s wattage: | _      |                 |             |        | -        |      |
| Right  |               |   |                                  |                          |        |                 |             |        | -        |      |
| test 1         test 2         test 3         limits         test 4         limits           E 27 lamp base         —         51.4         —         Ref         —           Diffuser         —         42.1         —         110         —           LED         —         65.3         —         Ref.         —           LED PCB         —         45.7         —         130         —           Internal wire         —         32.1         —         105         —           PCB of LED driver         —         45.8         —         130         —           C1         —         33.9         —         105         — |               |   | clause 12.4 - nor                |                          |        | rmal clause 12. |             |        | 5 - abno | rmal |
| Diffuser       —       42.1       —       110       —         LED       —       65.3       —       Ref.       —         LED PCB       —       45.7       —       130       —         Internal wire       —       32.1       —       105       —         PCB of LED driver       —       45.8       —       130       —         C1       —       33.9       —       105       —   |               |   | test 1                           | test 2                   | tes    | st 3            | limits      | test 4 | lim      | nit  |
| LED       —       65.3       —       Ref.       —         LED PCB       —       45.7       —       130       —         Internal wire       —       32.1       —       105       —         PCB of LED driver       —       45.8       —       130       —         C1       —       33.9       —       105       —   | E 27 lamp k   | pase                                      | _                                | 51.4                     | -      | _               | Ref         | _      | _        | -    |
| LED PCB     —     45.7     —     130     —       Internal wire     —     32.1     —     105     —       PCB of LED driver     —     45.8     —     130     —       C1     —     33.9     —     105     —   | Diffuser      |   | _                                | 42.1                     | -      | _               | 110         | _      | _        | -    |
| Internal wire         —         32.1         —         105         —           PCB of LED driver         —         45.8         —         130         —           C1         —         33.9         —         105         —  | LED           | LED                                       |                                  | 65.3                     | -      | _               | Ref.        | _      | _        | -    |
| Internal wire  | LED PCB       | LED PCB                                   |                                  | 45.7                     | -      | _               | 130         | _      | _        | -    |
| C1 - 33.9 - 105 -  | Internal wire | e   | _                                | 32.1                     | -      | _ 105 _         |             | _      | _        | -    |
|  | PCB of LED    | ) driver                                  | _                                | 45.8                     | -      | _               | 130         | _      | -        | _    |
| Minding of T4  | C1            |   | _                                | 33.9                     | -      | _               | 105         | _      | _        | -    |
| vvinaing oi  | Winding of T1 |   | _                                | 74.1                     | -      | _               | 110         | _      | _        | -    |
| Ambient 25   | Ambient       |   | _                                | 25                       | -      | _               | _           | _      | _        | _    |
| Supplementary information:   | Supplemer     | ntary information:                        |                                  |                          |        |                 |             |        |          |      |

Attachment -A



### **Photo Documentation**

Report Reference No.: J02.06.0184S

Photo 1

View:

[√] Front

[] Rear

[] Right side

[] Left side

[] Top

[] Bottom

[] Internal



Photo 2

View:

[] Front

[] Rear

[] Right side

[] Left side

[ ] Top

[] Bottom

[√] Internal

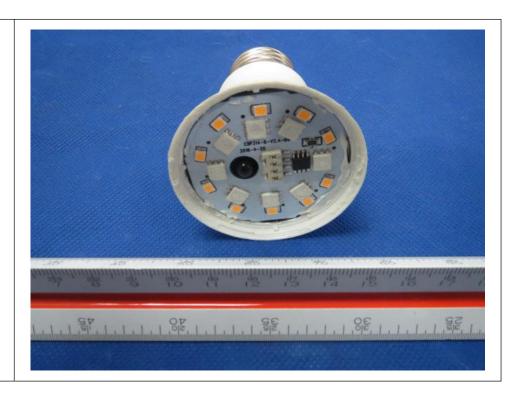


Photo 3

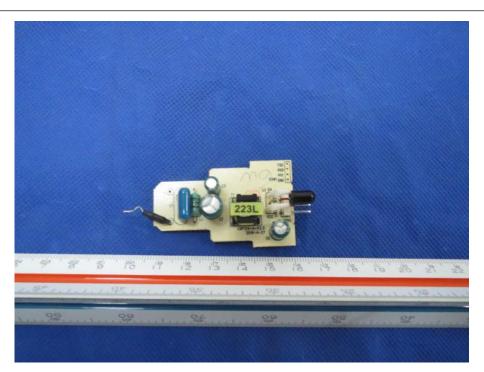


Report Reference No.: J02.06.0184S View: [] Front [] Rear [] Right side [] Left side [] Top [] Bottom [√] Internal

# Photo 4 View: [ ] Front [ ] Rear [ ] Right side [ ] Left side [ ] Top [ ] Bottom

Internal

[√]







|     |            | Report Reference No.: J02.06.0184S |
|-----|------------|------------------------------------|
| []  | Front      |                                    |
| []  | Rear       |                                    |
| []  | Right side |                                    |
| []  | Left side  |                                    |
| []  | Тор        |                                    |
| []  | Bottom     |                                    |
| [√] | Internal   |                                    |
|     |            |                                    |

---END---