



SHEN ZHEN XU AN ELECTRONICS CO.,LTD

# TEST REPORT

|                 |  |
|-----------------|--|
| Prepared For:   | SHEN ZHEN XU AN ELECTRONICS CO.,LTD<br>Shenzhen City,Bao'an district,Fuyong Street,Huai de community GuiGang<br>Huai De industrial Park FiveThirtieth building,two layer A Zone,A Zone Three |
| Product Name:   | Lamp Bead  |
| Model:          | XA-1W3030WXA-1S2P  |
| Prepared By:    | Shenzhen BST Technology Co., Ltd.<br><br>Building No.23-24, Zhiheng industrial park, Guankouer Road, Nantou,<br>Nanshan District, Shenzhen, Guangdong, China.                                |
| Test Date:      | Nov. 16, 2016 – Sep. 17, 2017  |
| Date of Report: | Sep. 17, 2017  |
| Report No.:     | BST1610604250002SR-2   |



| <b>TEST REPORT</b>   |   |
|--|---|
| <b>LUMEN MAINTENANCE TESTING ACCORDING TO THE IESNA LM-80-08 TEST STANDARD</b> |   |
| <b>Testing laboratory</b> .....  | : Shenzhen BST Technology Co., Ltd.   |
| <b>Address</b> .....   | : Building No.23-24, Zhiheng industrial park, Guankouer Road, Nantou, Nanshan District, Shenzhen, Guangdong, China.                                     |
| <b>Testing location</b> .....  | : Shenzhen BST Technology Co., Ltd.   |
| <b>Applicant</b> .....   | : SHEN ZHEN XU AN ELECTRONICS CO.,LTD   |
| <b>Address</b> .....   | : Shenzhen City,Bao'an district,Fuyong Street,Huai de community GuiGang<br>Huai De industrial Park FiveThirtieth building,two layer A Zone,A Zone Three |
| <b>Test Procedure</b> .....  | : The IESNA LM-80-2008: Measuring Lumen Maintenance of LED Light Sources.   |
| <b>Non-standard test method</b> .....  | : N.A.  |
| <b>Type of test object</b> .....   | : Lamp Bead   |
| <b>Trademark</b> .....   | : N.A.  |
| <b>Model/type reference</b> .....  | : XA-1W3030WXA-1S2P   |
| <b>Rating</b> .....  | : 3.2-3.4V $\overline{\text{---}}$ , 350mA, 1W  |
| <b>Manufacturer</b> .....  | : SHEN ZHEN XU AN ELECTRONICS CO.,LTD   |
| <b>Address</b> .....   | : Shenzhen City,Bao'an district,Fuyong Street,Huai de community GuiGang<br>Huai De industrial Park FiveThirtieth building,two layer A Zone,A Zone Three |



Name and address of the testing laboratory:

**Shenzhen BST Technology Co., Ltd.**  
**Building No.23-24, Zhiheng industrial park,**  
**Guankouer Road, Nantou, Nanshan District,**  
**Shenzhen, Guangdong, China**

Prepared by :

*Owen*

Engineer

Reviewer :

*W.S.*

Supervisor

Approved & Authorized Signer :



**Test Results Summary:**

| Summary   | I   | II  | III   |
|---|---|---|---|
| Condition   | T <sub>s</sub> =54.8℃<br>T <sub>A</sub> =54.7℃<br>R.H.<65%<br>I=350mA | T <sub>s</sub> =84.8℃<br>T <sub>A</sub> =84.6℃<br>R.H.<65%<br>I=350mA | T <sub>s</sub> =104.9℃<br>T <sub>A</sub> =104.7℃<br>R.H.<65%<br>I=350mA |
| Duration(hour)  | 6000  | 6000  | 6000  |
| Interval(hour)  | 0,1000,2000,3000,4000,<br>5000, 6000                                  | 0,1000,2000,3000,4000,<br>5000, 6000                                  | 0,1000,2000,3000,4000,<br>5000, 6000                                    |
| Sample Size   | 20  | 20  | 20  |
| Average Lumen Maintenance at 6000 hour                | 96.42%  | 95.74%  | 94.23%  |
| Average Chromaticity Shift $\Delta u'v'$ at 6000 hour | 0.0024  | 0.0030  | 0.0042  |
| Failure   | 0   | 0   | 0   |

**Equipments Used for Testing:**

| Equipment               | Model   | Equipment No. |
|-------------------------|---------|---------------|
| DC Power Supply         | IT6122  | BSTNX001      |
| Power meter             | WT210   | BSTNX001      |
| Spectroradiometer       | SPEC300 | BN067         |
| 0.3m Integrating Sphere | 0.3m    | BSTNX002      |



**Test Data:**

**Operating Condition: 55°C/350mA**

| No.             | Φ(lm) | V <sub>F</sub> (V) | Lumen maintenance (%) |       |       |       |       |       |
|-----------------|-------|--------------------|-----------------------|-------|-------|-------|-------|-------|
|                 |       |                    | 0h(Initial)           | 1000h | 2000h | 3000h | 4000h | 5000h |
| 1               | 112.2 | 3.3                | 98.94                 | 98.66 | 98.03 | 96.87 | 97.25 | 96.61 |
| 2               | 111.5 | 3.2                | 98.95                 | 98.45 | 97.68 | 97.43 | 96.79 | 95.88 |
| 3               | 111.8 | 3.3                | 98.75                 | 98.26 | 98.08 | 96.97 | 97.18 | 96.38 |
| 4               | 112.1 | 3.2                | 98.72                 | 98.36 | 97.81 | 97.38 | 97.23 | 96.79 |
| 5               | 112.4 | 3.2                | 98.72                 | 98.17 | 97.53 | 96.88 | 97.23 | 96.51 |
| 6               | 111.7 | 3.3                | 98.82                 | 98.35 | 97.53 | 97.48 | 97.22 | 96.43 |
| 7               | 112.2 | 3.2                | 98.73                 | 98.36 | 97.81 | 97.35 | 96.82 | 96.77 |
| 8               | 112.3 | 3.3                | 99.25                 | 98.42 | 97.83 | 97.42 | 96.81 | 95.92 |
| 9               | 112.1 | 3.2                | 98.62                 | 98.26 | 97.72 | 97.36 | 96.68 | 96.47 |
| 10              | 111.8 | 3.2                | 98.64                 | 98.31 | 97.73 | 97.43 | 96.85 | 96.66 |
| 11              | 111.9 | 3.3                | 98.92                 | 98.32 | 97.88 | 97.43 | 96.96 | 96.62 |
| 12              | 111.8 | 3.2                | 98.66                 | 98.22 | 97.82 | 97.65 | 96.75 | 96.33 |
| 13              | 111.7 | 3.3                | 98.78                 | 98.36 | 97.78 | 97.12 | 97.14 | 96.39 |
| 14              | 112.2 | 3.2                | 98.75                 | 98.26 | 97.78 | 97.43 | 97.12 | 96.66 |
| 15              | 111.9 | 3.2                | 98.72                 | 98.35 | 97.82 | 97.42 | 97.16 | 96.29 |
| 16              | 112.3 | 3.3                | 98.95                 | 98.68 | 97.72 | 97.49 | 96.83 | 96.34 |
| 17              | 111.9 | 3.2                | 98.71                 | 98.29 | 97.83 | 97.38 | 97.23 | 96.49 |
| 18              | 112.3 | 3.3                | 98.81                 | 98.29 | 97.63 | 97.41 | 96.82 | 96.28 |
| 19              | 111.8 | 3.2                | 98.93                 | 98.22 | 97.93 | 97.41 | 96.83 | 96.41 |
| 20              | 112.7 | 3.2                | 98.87                 | 98.35 | 97.86 | 97.43 | 96.92 | 96.25 |
| <b>Average</b>  | 112.0 | 3.2                | 98.81                 | 98.35 | 97.79 | 97.34 | 97.00 | 96.42 |
| <b>Median</b>   | 112.0 | 3.2                | 98.77                 | 98.34 | 97.81 | 97.42 | 96.9  | 96.42 |
| <b>St, Dev.</b> | 0.3   | 0.1                | 0.15                  | 0.13  | 0.14  | 0.21  | 0.2   | 0.24  |
| <b>Max</b>      | 112.7 | 3.3                | 99.25                 | 98.68 | 98.08 | 97.65 | 97.3  | 96.79 |
| <b>Min</b>      | 111.5 | 3.2                | 98.62                 | 98.17 | 97.53 | 96.87 | 96.7  | 95.88 |



**Operating Condition: 85°C/350mA**

| No.             | Φ(lm) | V <sub>F</sub> (V) | Lumen maintenance (%) |       |       |       |       |       |
|-----------------|-------|--------------------|-----------------------|-------|-------|-------|-------|-------|
|                 |       |                    | 0h(Initial)           | 1000h | 2000h | 3000h | 4000h | 5000h |
| 1               | 112.1 | 3.2                | 98.63                 | 98.36 | 98.23 | 97.35 | 96.81 | 95.83 |
| 2               | 111.8 | 3.2                | 98.96                 | 98.35 | 97.72 | 97.37 | 96.86 | 95.68 |
| 3               | 111.6 | 3.3                | 98.76                 | 97.87 | 97.65 | 97.37 | 96.64 | 95.88 |
| 4               | 111.7 | 3.2                | 98.83                 | 98.29 | 97.54 | 97.25 | 96.34 | 95.49 |
| 5               | 111.9 | 3.2                | 98.75                 | 98.37 | 97.32 | 97.42 | 96.12 | 95.84 |
| 6               | 112.2 | 3.3                | 99.45                 | 98.32 | 97.81 | 97.35 | 96.81 | 95.85 |
| 7               | 112.2 | 3.2                | 98.89                 | 98.26 | 97.73 | 97.24 | 96.97 | 95.68 |
| 8               | 111.5 | 3.3                | 98.36                 | 98.22 | 97.52 | 97.39 | 96.97 | 95.67 |
| 9               | 111.6 | 3.2                | 98.98                 | 98.34 | 97.58 | 97.47 | 96.78 | 95.63 |
| 10              | 112.1 | 3.2                | 98.64                 | 98.13 | 97.75 | 97.34 | 96.58 | 95.46 |
| 11              | 111.9 | 3.3                | 98.73                 | 98.38 | 97.72 | 97.45 | 96.64 | 95.35 |
| 12              | 111.8 | 3.2                | 98.75                 | 98.25 | 97.85 | 97.25 | 96.83 | 95.28 |
| 13              | 111.4 | 3.3                | 98.78                 | 98.42 | 97.86 | 97.35 | 96.94 | 95.69 |
| 14              | 111.5 | 3.2                | 98.95                 | 98.48 | 97.76 | 97.36 | 96.2  | 95.89 |
| 15              | 112.2 | 3.2                | 98.96                 | 98.33 | 97.93 | 97.35 | 96.87 | 95.97 |
| 16              | 112.3 | 3.3                | 98.97                 | 98.32 | 97.75 | 97.16 | 96.31 | 95.87 |
| 17              | 111.4 | 3.2                | 98.86                 | 98.34 | 97.75 | 97.23 | 96.98 | 95.89 |
| 18              | 112.3 | 3.3                | 98.85                 | 97.48 | 98.32 | 97.53 | 96.82 | 96.11 |
| 19              | 111.7 | 3.2                | 98.87                 | 98.24 | 97.75 | 97.46 | 96.94 | 95.83 |
| 20              | 112.4 | 3.2                | 98.82                 | 98.35 | 97.81 | 97.47 | 96.96 | 95.94 |
| <b>Average</b>  | 111.9 | 3.2                | 98.84                 | 98.26 | 97.77 | 97.36 | 96.72 | 95.74 |
| <b>Median</b>   | 111.9 | 3.2                | 98.84                 | 98.33 | 97.75 | 97.36 | 96.82 | 95.83 |
| <b>St. Dev.</b> | 0.3   | 0.0                | 0.21                  | 0.22  | 0.22  | 0.10  | 0.27  | 0.22  |
| <b>Max</b>      | 112.4 | 3.3                | 99.45                 | 98.48 | 98.32 | 97.53 | 96.98 | 96.11 |
| <b>Min</b>      | 111.4 | 3.2                | 98.36                 | 97.48 | 97.32 | 97.16 | 96.12 | 95.28 |



**Operating Condition: 105°C/350mA**

| No.             | Φ(lm) | V <sub>F</sub> (V) | Lumen maintenance (%) |       |       |       |       |       |
|-----------------|-------|--------------------|-----------------------|-------|-------|-------|-------|-------|
|                 |       |                    | 0h(Initial)           | 1000h | 2000h | 3000h | 4000h | 5000h |
| 1               | 112.2 | 3.2                | 98.27                 | 97.64 | 96.28 | 95.65 | 94.87 | 94.34 |
| 2               | 111.9 | 3.2                | 98.34                 | 97.43 | 96.76 | 96.1  | 95.21 | 94.32 |
| 3               | 111.5 | 3.3                | 98.22                 | 97.44 | 96.77 | 96.36 | 95.35 | 94.87 |
| 4               | 111.8 | 3.2                | 97.92                 | 96.27 | 95.89 | 95.51 | 94.59 | 93.37 |
| 5               | 111.6 | 3.2                | 98.88                 | 98.26 | 97.21 | 96.33 | 95.32 | 94.26 |
| 6               | 112.1 | 3.3                | 98.66                 | 97.13 | 96.29 | 95.42 | 94.12 | 93.56 |
| 7               | 112.3 | 3.2                | 98.35                 | 97.34 | 96.22 | 95.37 | 94.64 | 94.16 |
| 8               | 111.5 | 3.3                | 98.66                 | 97.76 | 96.37 | 95.82 | 94.95 | 94.07 |
| 9               | 111.4 | 3.2                | 97.82                 | 97.17 | 96.64 | 95.12 | 94.35 | 94.06 |
| 10              | 112.1 | 3.2                | 99.28                 | 98.35 | 97.26 | 96.64 | 95.93 | 95.19 |
| 11              | 111.8 | 3.3                | 98.23                 | 97.32 | 96.65 | 95.32 | 94.55 | 93.96 |
| 12              | 111.7 | 3.2                | 97.95                 | 96.93 | 95.86 | 95.22 | 94.34 | 93.97 |
| 13              | 111.4 | 3.3                | 98.31                 | 97.28 | 96.46 | 95.38 | 94.88 | 94.29 |
| 14              | 111.4 | 3.2                | 98.22                 | 97.29 | 96.45 | 94.86 | 94.13 | 93.86 |
| 15              | 112.3 | 3.3                | 98.45                 | 97.02 | 96.17 | 95.74 | 94.77 | 94.18 |
| 16              | 112.5 | 3.3                | 98.27                 | 96.78 | 96.01 | 95.33 | 94.55 | 94.03 |
| 17              | 111.4 | 3.2                | 98.11                 | 97.33 | 96.22 | 95.38 | 94.37 | 94.18 |
| 18              | 112.5 | 3.3                | 98.46                 | 97.94 | 96.73 | 96.12 | 95.61 | 95.15 |
| 19              | 111.9 | 3.2                | 98.32                 | 97.22 | 96.31 | 95.63 | 94.85 | 94.37 |
| 20              | 112.6 | 3.2                | 97.94                 | 97.18 | 96.23 | 95.33 | 94.88 | 94.31 |
| <b>Average</b>  | 111.9 | 3.2                | 98.33                 | 97.35 | 96.44 | 95.63 | 94.81 | 94.23 |
| <b>Median</b>   | 111.9 | 3.2                | 98.29                 | 97.31 | 96.34 | 95.47 | 94.81 | 94.18 |
| <b>St, Dev.</b> | 0.4   | 0.1                | 0.35                  | 0.48  | 0.38  | 0.46  | 0.48  | 0.45  |
| <b>Max</b>      | 112.6 | 3.3                | 99.28                 | 98.35 | 97.26 | 96.64 | 95.93 | 95.19 |
| <b>Min</b>      | 111.4 | 3.2                | 97.82                 | 96.27 | 95.86 | 94.86 | 94.12 | 93.37 |



**Operating Condition: 55°C/350mA**

| No.             | CCT(K)      | Chromaticity Shift $\Delta u'v'$ |        |        |        |        |        |
|-----------------|-------------|----------------------------------|--------|--------|--------|--------|--------|
|                 | 0h(Initial) | 1000h                            | 2000h  | 3000h  | 4000h  | 5000h  | 6000h  |
| 1               | 3117        | 0.0013                           | 0.0014 | 0.0015 | 0.0019 | 0.0025 | 0.0022 |
| 2               | 3133        | 0.0015                           | 0.0016 | 0.0018 | 0.0021 | 0.0023 | 0.0018 |
| 3               | 3086        | 0.0013                           | 0.0016 | 0.0017 | 0.0019 | 0.0024 | 0.0025 |
| 4               | 3119        | 0.0010                           | 0.0013 | 0.0016 | 0.0018 | 0.0023 | 0.0023 |
| 5               | 3143        | 0.0012                           | 0.0013 | 0.0016 | 0.0018 | 0.0019 | 0.0025 |
| 6               | 3132        | 0.0014                           | 0.0016 | 0.0017 | 0.0018 | 0.0019 | 0.0022 |
| 7               | 3057        | 0.0011                           | 0.0013 | 0.0014 | 0.0015 | 0.0019 | 0.0025 |
| 8               | 3050        | 0.0013                           | 0.0014 | 0.0015 | 0.0017 | 0.0019 | 0.0023 |
| 9               | 3068        | 0.0012                           | 0.0013 | 0.0014 | 0.0015 | 0.0016 | 0.0025 |
| 10              | 3136        | 0.0011                           | 0.0012 | 0.0013 | 0.0016 | 0.0018 | 0.0025 |
| 11              | 3095        | 0.0010                           | 0.0011 | 0.0013 | 0.0015 | 0.0016 | 0.0028 |
| 12              | 3081        | 0.0010                           | 0.0013 | 0.0015 | 0.0017 | 0.0018 | 0.0026 |
| 13              | 3114        | 0.0009                           | 0.0011 | 0.0012 | 0.0015 | 0.0017 | 0.0024 |
| 14              | 3067        | 0.0012                           | 0.0013 | 0.0015 | 0.0016 | 0.0018 | 0.0023 |
| 15              | 3123        | 0.0013                           | 0.0014 | 0.0016 | 0.0017 | 0.0019 | 0.0022 |
| 16              | 3065        | 0.0009                           | 0.0013 | 0.0013 | 0.0015 | 0.0019 | 0.0023 |
| 17              | 3052        | 0.0013                           | 0.0014 | 0.0015 | 0.0016 | 0.0019 | 0.0024 |
| 18              | 3147        | 0.0009                           | 0.0011 | 0.0012 | 0.0013 | 0.0017 | 0.0022 |
| 19              | 3073        | 0.0012                           | 0.0013 | 0.0015 | 0.0018 | 0.0022 | 0.0023 |
| 20              | 3105        | 0.0008                           | 0.0010 | 0.0012 | 0.0016 | 0.0019 | 0.0025 |
| <b>Average</b>  | 3098        | 0.0011                           | 0.0013 | 0.0015 | 0.0017 | 0.0019 | 0.0024 |
| <b>Median</b>   | 3100        | 0.0012                           | 0.0013 | 0.0015 | 0.0017 | 0.0019 | 0.0024 |
| <b>St, Dev.</b> | 33          | 0.0002                           | 0.0002 | 0.0002 | 0.0002 | 0.0003 | 0.0002 |
| <b>Max</b>      | 3147        | 0.0015                           | 0.0016 | 0.0018 | 0.0021 | 0.0025 | 0.0028 |
| <b>Min</b>      | 3050        | 0.0008                           | 0.0010 | 0.0012 | 0.0013 | 0.0016 | 0.0018 |



**Operating Condition: 85°C/350mA**

| No.      | CCT(K)      | Chromaticity Shift $\Delta u'v'$ |        |        |        |        |        |
|----------|-------------|----------------------------------|--------|--------|--------|--------|--------|
|          | 0h(Initial) | 1000h                            | 2000h  | 3000h  | 4000h  | 5000h  | 6000h  |
| 1        | 3098        | 0.0013                           | 0.0015 | 0.0017 | 0.0023 | 0.0026 | 0.0031 |
| 2        | 3055        | 0.0012                           | 0.0016 | 0.0019 | 0.0022 | 0.0024 | 0.0028 |
| 3        | 3097        | 0.0011                           | 0.0015 | 0.0021 | 0.0023 | 0.0027 | 0.0031 |
| 4        | 3101        | 0.0012                           | 0.0013 | 0.0018 | 0.0021 | 0.0025 | 0.0029 |
| 5        | 3054        | 0.0013                           | 0.0015 | 0.0018 | 0.0023 | 0.0025 | 0.0031 |
| 6        | 3057        | 0.0013                           | 0.0015 | 0.0021 | 0.0025 | 0.0028 | 0.0029 |
| 7        | 3122        | 0.0013                           | 0.0015 | 0.0021 | 0.0026 | 0.0027 | 0.0032 |
| 8        | 3063        | 0.0012                           | 0.0014 | 0.0021 | 0.0022 | 0.0025 | 0.0031 |
| 9        | 3087        | 0.0013                           | 0.0013 | 0.0022 | 0.0025 | 0.0028 | 0.0032 |
| 10       | 3145        | 0.0012                           | 0.0013 | 0.0022 | 0.0025 | 0.0026 | 0.0028 |
| 11       | 3056        | 0.0014                           | 0.0016 | 0.0023 | 0.0023 | 0.0024 | 0.0026 |
| 12       | 3085        | 0.0014                           | 0.0014 | 0.0022 | 0.0024 | 0.0023 | 0.0029 |
| 13       | 3064        | 0.0012                           | 0.0015 | 0.0022 | 0.0025 | 0.0028 | 0.0031 |
| 14       | 3067        | 0.0013                           | 0.0016 | 0.0019 | 0.0024 | 0.0025 | 0.0028 |
| 15       | 3104        | 0.0012                           | 0.0014 | 0.0021 | 0.0023 | 0.0025 | 0.0027 |
| 16       | 3067        | 0.0013                           | 0.0015 | 0.0022 | 0.0022 | 0.0028 | 0.0031 |
| 17       | 3132        | 0.0013                           | 0.0014 | 0.0021 | 0.0024 | 0.0025 | 0.0029 |
| 18       | 3135        | 0.0013                           | 0.0016 | 0.0021 | 0.0025 | 0.0026 | 0.0032 |
| 19       | 3089        | 0.0014                           | 0.0016 | 0.0022 | 0.0024 | 0.0028 | 0.0032 |
| 20       | 3125        | 0.0013                           | 0.0016 | 0.0021 | 0.0025 | 0.0027 | 0.0033 |
| Average  | 3090        | 0.0013                           | 0.0015 | 0.0021 | 0.0024 | 0.0026 | 0.0030 |
| Median   | 3088        | 0.0013                           | 0.0015 | 0.0021 | 0.0024 | 0.0026 | 0.0031 |
| St, Dev. | 30          | 0.0001                           | 0.0001 | 0.0002 | 0.0001 | 0.0002 | 0.0002 |
| Max      | 3145        | 0.0014                           | 0.0016 | 0.0023 | 0.0026 | 0.0028 | 0.0033 |
| Min      | 3054        | 0.0011                           | 0.0013 | 0.0017 | 0.0021 | 0.0023 | 0.0026 |



**Operating Condition: 105°C/350mA**

| No.      | CCT(K)      | Chromaticity Shift $\Delta u'v'$ |        |        |        |        |        |
|----------|-------------|----------------------------------|--------|--------|--------|--------|--------|
|          | 0h(Initial) | 1000h                            | 2000h  | 3000h  | 4000h  | 5000h  | 6000h  |
| 1        | 3056        | 0.0018                           | 0.0025 | 0.0027 | 0.0035 | 0.0043 | 0.0045 |
| 2        | 3136        | 0.0019                           | 0.0023 | 0.0028 | 0.0033 | 0.0042 | 0.0045 |
| 3        | 3095        | 0.0019                           | 0.0021 | 0.0024 | 0.0031 | 0.004  | 0.0043 |
| 4        | 3115        | 0.0015                           | 0.0019 | 0.0025 | 0.003  | 0.0041 | 0.0043 |
| 5        | 3134        | 0.0016                           | 0.0021 | 0.0024 | 0.0029 | 0.0038 | 0.0042 |
| 6        | 3123        | 0.0018                           | 0.002  | 0.0025 | 0.0031 | 0.0039 | 0.0039 |
| 7        | 3109        | 0.0017                           | 0.0022 | 0.0025 | 0.0032 | 0.0039 | 0.0043 |
| 8        | 3063        | 0.0018                           | 0.002  | 0.0027 | 0.0034 | 0.0042 | 0.0044 |
| 9        | 3082        | 0.0018                           | 0.0021 | 0.0025 | 0.003  | 0.0039 | 0.0044 |
| 10       | 3136        | 0.0016                           | 0.0024 | 0.0026 | 0.003  | 0.0038 | 0.0042 |
| 11       | 3097        | 0.0017                           | 0.0019 | 0.0024 | 0.0029 | 0.0037 | 0.0042 |
| 12       | 3088        | 0.0017                           | 0.0019 | 0.0026 | 0.003  | 0.0036 | 0.0039 |
| 13       | 3121        | 0.0016                           | 0.0019 | 0.0025 | 0.0031 | 0.0036 | 0.0039 |
| 14       | 3058        | 0.0016                           | 0.0018 | 0.0025 | 0.0032 | 0.0037 | 0.004  |
| 15       | 3118        | 0.0016                           | 0.0019 | 0.0025 | 0.0029 | 0.0036 | 0.0041 |
| 16       | 3054        | 0.0017                           | 0.0019 | 0.0025 | 0.0032 | 0.0036 | 0.0043 |
| 17       | 3115        | 0.0016                           | 0.0019 | 0.0024 | 0.0033 | 0.0038 | 0.0038 |
| 18       | 3066        | 0.0017                           | 0.0023 | 0.0027 | 0.0033 | 0.0037 | 0.0039 |
| 19       | 3087        | 0.0021                           | 0.0025 | 0.0027 | 0.003  | 0.0038 | 0.0042 |
| 20       | 3115        | 0.0017                           | 0.0019 | 0.0023 | 0.0029 | 0.0036 | 0.0038 |
| Average  | 3098        | 0.0017                           | 0.0021 | 0.0025 | 0.0031 | 0.0038 | 0.0042 |
| Median   | 3103        | 0.0017                           | 0.0020 | 0.0025 | 0.0031 | 0.0038 | 0.0042 |
| St. Dev. | 28          | 0.0001                           | 0.0002 | 0.0001 | 0.0002 | 0.0002 | 0.0002 |
| Max      | 3136        | 0.0021                           | 0.0025 | 0.0028 | 0.0035 | 0.0043 | 0.0045 |
| Min      | 3054        | 0.0015                           | 0.0018 | 0.0023 | 0.0029 | 0.0036 | 0.0035 |



**Photo 1 General Appearance of the EUT**

