

**Test Report**

**Report No.: GZEE240200063631**  
**Date: 2024-02-29**

The following sample(s) was/were submitted and identified on behalf of the client as:

Applicant: Schröder Australia Pty Ltd  
 Bldg 4A Parklands Estate, 21-23 South Street, Rydalmere, NSW 2116, Australia

Manufacturer: Same as Applicant

Factory: Schreder (China) Lighting Industrial Co., Ltd.  
 2#XINYE Street 40, TEDA WEST Tianjin, 300462 China

Testing location/address: SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch  
 198 Kezhu Road, Science City, Economic & Technology Development Area, Guangzhou, Guangdong, China

Test request: Load (wattage) test

Test or reference Standard: AEMO Unmetered Load Guideline v2.0\*  
 Determination Of Device Load And Annual Energy Consumption For Type 7 Unmetered Devices  
 SA/SNZ TS 1158.6: 2015  
 IES LM-79-08

Test item description: LED street lighting (AVENTO)

Trade Mark/Brand: **Schröder**

Model/Type reference: AV2S99K12L75, AV199K12L142, AV299B171L232

Ratings: AV2S99K12L75: 220-240 V, 50-60 Hz, 75 W;  
 AV199K12L142: 220-240 V, 50-60 Hz, 142 W;  
 AV299B171L232: 220-240 V, 50-60 Hz, 232 W

Test result: See page 4

Remark: Throughout this report a point is used as the decimal separator.  
 \*For reference only and not in GZ Safety NVLAP scope

*Alex Tan*  
 Alex Tan  
 Reviewer  
 E&E Safety Laboratory

*Venice Liu*  
 Venice Liu  
 Project Engineer



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|  |   |                          |
|--|---|--------------------------|
| Testing .....                          | : |                          |
| Date of receipt of test item.....      | : | 2024-02-08               |
| Date (s) of performance of tests ..... | : | 2024-02-08 to 2024-02-28 |

**General product information:**

This LED street light can emit white light and get stabilized when turned on at its rated voltage.

| Part No.      | General Product information                    |
|---------------|--|
| AV2S99K12L75  | AVENTO 2S 96L 75W4K 5400AS DALI PZN7 RAL9006B  |
| AV199K12L142  | AVENTO 1 192L 142W4K 5400AS DALI PZN7 RAL9006B |
| AV299B171L232 | AVENTO 2 336L 232W4K 5400AS DALI PZN7 RAL9006B |



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### 1. TEST CONDITIONS

Before measurements are taken, there is no seasoning for the LED street lights.

The ambient temperature during measurements was  $25^{\circ}\text{C} \pm 1.2^{\circ}\text{C}$ . The relative humidity during measurements was 10% to 65%. The airflow during measurements was lower than 0.2 m/s.

LED street lights were supplied by the power source PCR500M. The test voltage shall be stable within  $\pm 0.5\%$ .

The current, wattage and power factor were measured by Yokogawa digital power analyzer WT310. The test measurement accuracy for current, wattage and power factor are  $\pm 0.15\%$ .

10 samples LED street lights were measured, and the test input was 250 V, 50 Hz.

The LED street lights were measured after a continuous 2-hour period of operation and reaching the stabilization in accordance with IES LM-79-08 before input voltage, current, power factor and load (watts) measurements are taken.



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Guangzhou Branch Inspection & Testing Services Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663  
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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**2. RESULTS OF TESTS**

**Model no.: AV2S99K12L75**

| Sample No. | Test voltage (V) | Current (A) | Power Factor (PF) | Wattage (W) |
|------------|------------------|-------------|-------------------|-------------|
| 1          | 250.00           | 0.317       | 0.952             | 75.36       |
| 2          | 250.00           | 0.313       | 0.963             | 75.33       |
| 3          | 250.00           | 0.320       | 0.954             | 76.23       |
| 4          | 250.00           | 0.315       | 0.961             | 75.80       |
| 5          | 250.00           | 0.314       | 0.960             | 75.38       |
| 6          | 250.00           | 0.317       | 0.953             | 75.48       |
| 7          | 250.00           | 0.316       | 0.955             | 75.40       |
| 8          | 250.00           | 0.317       | 0.956             | 75.67       |
| 9          | 250.00           | 0.317       | 0.956             | 75.79       |
| 10         | 250.00           | 0.318       | 0.952             | 75.76       |
| Min.       | 250.00           | 0.313       | 0.952             | 75.33       |
| Max.       | 250.00           | 0.320       | 0.963             | 76.23       |
| Ave.       | 250.00           | 0.316       | 0.956             | 75.62       |

**Model no.: AV199K12L142**

| Sample No. | Test voltage (V) | Current (A) | Power Factor (PF) | Wattage (W) |
|------------|------------------|-------------|-------------------|-------------|
| 1          | 250.00           | 0.580       | 0.974             | 141.21      |
| 2          | 250.00           | 0.580       | 0.973             | 141.13      |
| 3          | 250.00           | 0.582       | 0.973             | 141.62      |
| 4          | 250.00           | 0.579       | 0.977             | 141.49      |
| 5          | 250.00           | 0.580       | 0.974             | 141.15      |
| 6          | 250.00           | 0.581       | 0.974             | 141.48      |
| 7          | 250.00           | 0.580       | 0.975             | 141.43      |
| 8          | 250.00           | 0.581       | 0.975             | 141.72      |
| 9          | 250.00           | 0.581       | 0.974             | 141.41      |
| 10         | 250.00           | 0.579       | 0.975             | 141.12      |
| Min.       | 250.00           | 0.579       | 0.973             | 141.12      |
| Max.       | 250.00           | 0.582       | 0.977             | 141.72      |
| Ave.       | 250.00           | 0.580       | 0.974             | 141.38      |



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**Model no.: AV299B171L232**

| Sample No. | Test voltage (V) | Current (A) | Power Factor (PF) | Wattage (W) |
|------------|------------------|-------------|-------------------|-------------|
| 1          | 250.00           | 0.960       | 0.964             | 231.36      |
| 2          | 250.00           | 0.968       | 0.972             | 235.23      |
| 3          | 250.00           | 0.964       | 0.971             | 234.12      |
| 4          | 250.00           | 0.961       | 0.972             | 233.57      |
| 5          | 250.00           | 0.968       | 0.967             | 234.01      |
| 6          | 250.00           | 0.958       | 0.971             | 232.47      |
| 7          | 250.00           | 0.967       | 0.966             | 233.47      |
| 8          | 250.00           | 0.958       | 0.972             | 232.64      |
| 9          | 250.00           | 0.957       | 0.972             | 232.46      |
| 10         | 250.00           | 0.970       | 0.965             | 234.16      |
| Min.       | 250.00           | 0.957       | 0.964             | 231.36      |
| Max.       | 250.00           | 0.970       | 0.972             | 235.23      |
| Ave.       | 250.00           | 0.963       | 0.969             | 233.35      |

**3. UNCERTAINTY OF THE MEASUREMENT**

$U_{Wattage} (k=2): \pm 0.17 \%$

$U_{current} (k=2): \pm 0.2834 \%$

$U_{PF} (k=2): \pm 0.002$



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## Test Report

Report No.: GZEE240200063631

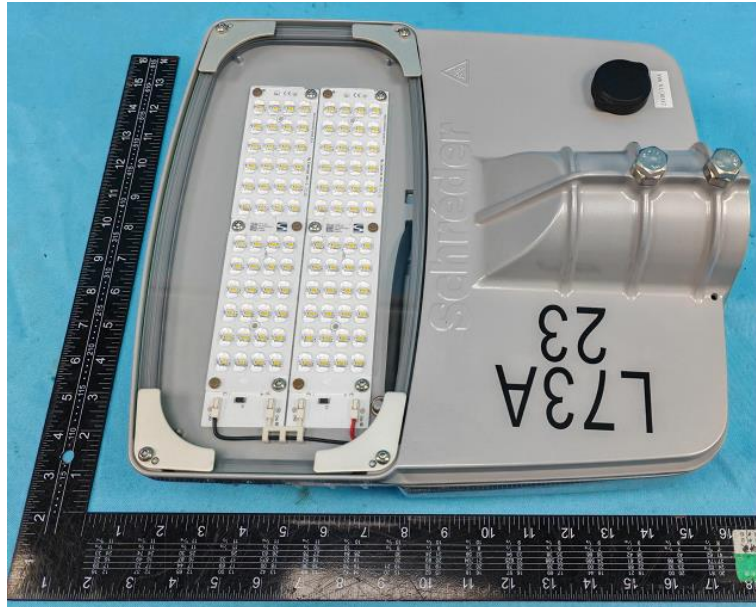
Date: 2024-02-29

Annex 2: Photo documentation

Details of: View for product AV2S99K12L75

View:

- general
- front
- rear
- right
- left
- top
- bottom
- internal



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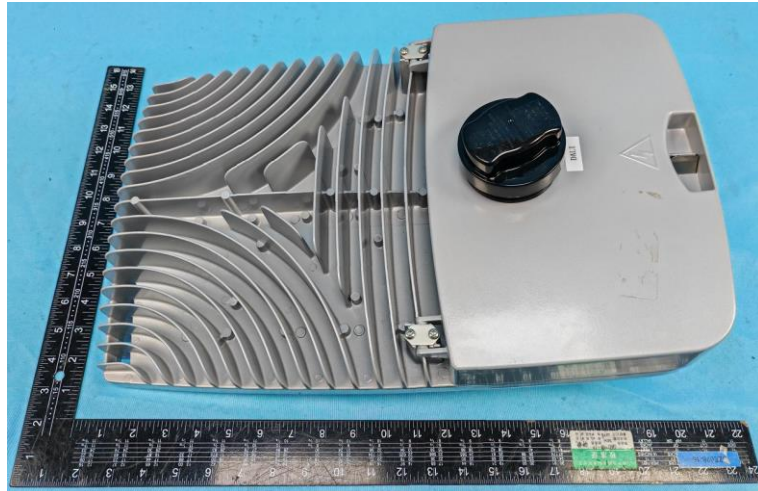
Report No.: GZEE240200063631

Date: 2024-02-29

Details of: View for product AV199K12L142

View:

- general
- front
- rear
- right
- left
- top
- bottom
- internal



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## Test Report

Report No.: GZEE240200063631

Date: 2024-02-29

Details of: View for product AV299B171L232

View:

- general
- front
- rear
- right
- left
- top
- bottom
- internal



--- END OF REPORT ---



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