

**ELECTRICAL LOAD REPORT**

**REPORT NO.:** IANZ LR1010 **Date of Issue:-** 26 March 2018  
**CUSTOMER:** Name **Schröder Australia (Pty) Ltd**  
Address 6 Jayelem Crescent, Padstow, NSW 2211,  
AUSTRALIA

**OBJECT OF TEST:** To produce an electrical load report for a range of Schröder Luminaires in accordance with the AEMO Unmetered Load Guidelines and LM79 electrical load reporting.

**DEVICE UNDER TEST (DUT):-**

1. Schröder AVENTO 1 96 LED NW 71W 700mA luminaire

**TEST METHOD:**

The testing is carried out in our Photometric Laboratory. The laboratory is temperature controlled to  $24\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$ .

The luminaires were mounted on a suitable frame and oriented to be as per normal mounting for photometric measurements at 0 degrees spigot tilt and zero degrees luminaire tilt. The luminaire had voltage applied to it and was allowed to stabilised in accordance with the requirements of the IES LM-79-08 procedures.

10 separate tests were conducted on each luminaire type. Measurements of supply voltage, supply current, supplied power and power factor were recorded for each test.

The luminaires were provided with power from an AC stabilized power supply.

All measurements were recorded using a Digital Power Analyser.

**REFERENCE DATA**

The supply voltage was  $250\text{ V} \pm 0.2\%$  and the supply frequency was 50 Hz. The laboratory ambient temperature is maintained in the range  $24\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$ .

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**MEASUREMENT UNCERTAINTIES:**

Electrical Property	Least Uncertainty of Measurement
AC current up to 20 A	0.6% of reading + 1 digit
AC Voltage up to 300V	0.3% of reading + 1 digit
AC power up to 5 kW	0.5% of reading + 1 count
Power Factor (PF)	0.5% of reading +1 count, at unity
	0.002 + 0.001/PF x frequency, for non-unity

Confidence Level:- As per M3003 and ISO5725, a 95% level of confidence is defined with a coverage factor k=2

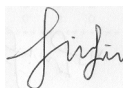
**RESULTS:**

The results for each luminaire are given on pages 3, 4 and 5 of this report. The frequency of the AC supply was nominally 50 HZ

**EQUIPMENT:****POWER MEASUREMENT INSTRUMENTATION**

Digital Power Analyser :- Voltech Digital Power Analyser – Model Number:- PM1000+  
Calibration certificate number:- C107962.

Laboratory Thermometer:-- Zeal Thermometer A26599A.

**APPROVED SIGNATORIES**

(Jin Lin)  
Electrical and Lighting Engineer

The measurements reported only  
apply to the samples tested –  
which are representative of  
production units



(G.R.Culling)  
Senior Engineer - Standards and Compliance  
**BETACOM (1988) LIMITED**

**All tests reported herein have been performed in accordance with the laboratory's scope of accreditation.**

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FILE NAME:-

IANZ\_LR1010 - AVENTO 1 Load  
Report.pdf

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**RESULTS SUMMARY**

<b>Luminaire</b>	Schröder AVENTO 1 96 LED NW 71W 250V
<b>Driver</b>	Single ELG -75 - C700DA

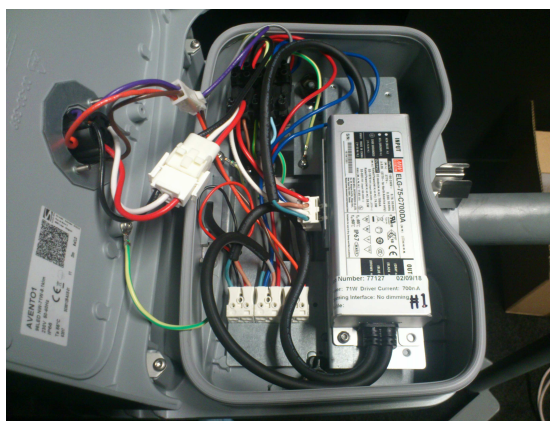
**Electrical Characteristics**

Applied Nominal Voltage 250 V

Luminaire Test #	Voltage (Volts)	Current (mA)	Wattage (Watts)	Power Factor	Ta (degrees C)
1	250	328.5	73.73	0.898	24.7
2	249.9	320.6	72.18	0.901	25.8
3	250	323.2	73.44	0.909	24
4	250	321.2	72.82	0.907	24.4
5	249.9	322.2	72.47	0.900	24.9
6	249.9	325.0	73.37	0.903	25.2
7	249.9	322.4	72.48	0.899	24.7
8	249.9	328.5	74.18	0.903	25.1
9	250	321.5	73.03	0.909	24.6
10	249.9	322.7	72.25	0.896	22.8
<b>Average Values</b>	<b>249.9</b>	<b>323.6</b>	<b>73</b>	<b>0.903</b>	<b>24.6</b>



Luminaire Set up



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