

ELECTRICAL LOAD REPORT

REPORT NO.: IANZ LR 1003 **Date of Issue:-** 17 August 2017
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
2. Schröder AVENTO 1 144 LED NW 108W 700mA luminaire
3. Schröder AVENTO 1 192 LED NW 142W 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

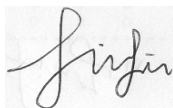
RESULTS:

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

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

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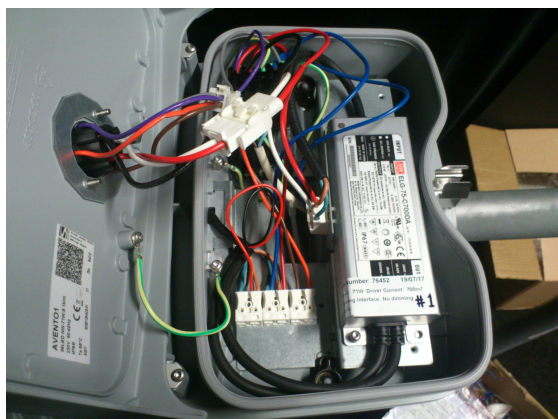
RESULTS SUMMARY

Luminaire	Schröder AVENTO 1 96 LED NW 71W 230V
Driver	Single MW ELG -75 - C700DA or Single PHILIPS XITANIUM 150W 0.35 – 0.70A GL Prog sXt

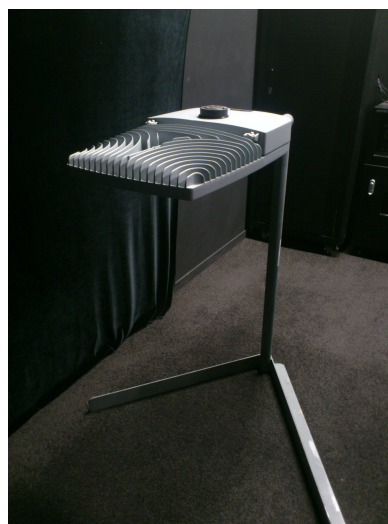
Electrical Characteristics

Applied Nominal Voltage		250 V			
Luminaire Test #	Voltage (Volts)	Current (mA)	Wattage (Watts)	Power Factor	Ta (degrees C)
1	249.9	322.7	72.25	0.896	22.8
2	249.9	329.5	76.44	0.928	21.1
3	249.9	328.3	75.96	0.926	21.8
4	249.9	335.4	76.57	0.913	21.9
5	249.9	332.8	76.49	0.920	22.5
6	249.9	336.0	76.68	0.913	23.3
7	249.9	333.7	76.64	0.919	23.1
8	249.9	331.4	76.43	0.923	21.1
9	249.9	328.8	75.74	0.922	21.1
10	249.9	330.9	77.05	0.932	21.5
Average Values	249.9	331.0	76.03	0.919	22.0

Measurement Sample Photo:



DUT



Luminaire set up

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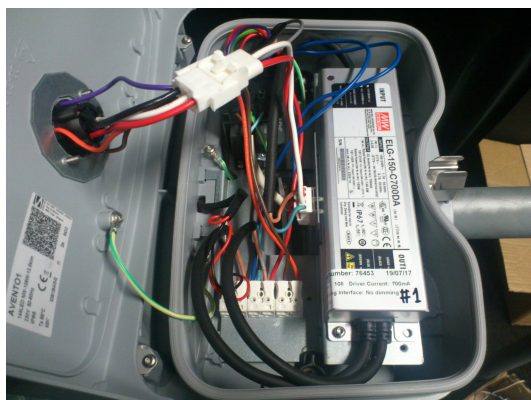
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FILE NAME:-

IANZ_LR1003 - AVENTO 1 Load
Report.doc**BETACOM (1988) LTD**80 Maces Road, Christchurch, New Zealand
Tel +64-3-384-4049 Fax +64-3-384-4603
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Luminaire	Schröder AVENTO 1 144 LED NW 108W 230V				
Driver	Single MW ELG -150 - C700DA or Single PHILIPS XITANIUM 150W 0.35 – 0.70A GL Prog sXt				
Electrical Characteristics					
Applied Nominal Voltage		250 V			
Luminaire Test #	Voltage (Volts)	Current (mA)	Wattage (Watts)	Power Factor	Ta (degrees C)
1	249.9	468.2	108.11	0.924	22.2
2	249.8	461.1	110.15	0.956	22.4
3	249.9	459.2	109.57	0.955	21.8
4	249.9	465.4	110.28	0.948	23.0
5	249.8	462.9	110.06	0.952	23.4
6	249.8	466.5	110.48	0.948	23.7
7	249.7	464.5	110.32	0.951	24
8	249.8	460.7	109.70	0.953	24.2
9	249.9	458.3	109.09	0.952	22.1
10	249.9	464.2	111.14	0.958	22.4
Average Values	249.8	463.1	109.89	0.950	22.9

Measurement Sample Photo

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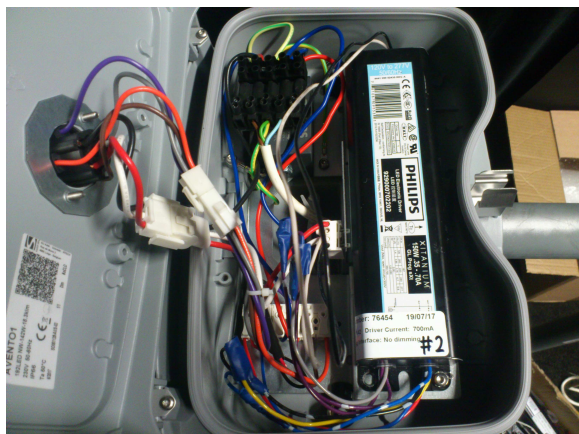
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Luminaire	Schröder AVENTO 1 192 LED NW 142W 230V				
Driver	Single ELG -150 - C700DA or Single PHILIPS XITANIUM 150W 0.35 – 0.70A GL Prog sXt				
Electrical Characteristics					
Applied Nominal Voltage		250 V			
Luminaire Test #	Voltage (Volts)	Current (mA)	Wattage (Watts)	Power Factor	Ta (degrees C)
1	249.8	610.5	145.45	0.954	23.1
2	249.8	591.3	143.17	0.969	23.4
3	249.8	587.5	142.07	0.968	23.4
4	249.8	595.8	143.5	0.964	22.1
5	249.8	592.8	143.13	0.966	22.3
6	249.9	596.6	143.73	0.964	23.2
7	249.9	594.9	143.66	0.966	23.3
8	249.8	590.8	142.76	0.967	23.3
9	249.8	586.3	141.55	0.967	23.2
10	249.8	597.1	144.76	0.970	22.1
Average Values	249.8	594.4	143.38	0.966	22.94

Measurement Sample Photo**End of Report**

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