

ELECTRICAL LOAD REPORT

REPORT NO.: Date of Issue:-26 March 2018 IANZ I R1010

CUSTOMER: Name Schréder Australia (Pty) Ltd

> Address 6 Jayelem Crescent, Padstow, NSW 2211,

> > **AUSTRALIA**

OBJECT OF TEST: To produce an electrical load report for a range of Schréder Luminaires in

accordance with the AEMO Unmetered Load Guidelines and LM79 electrical

load reporting.

DEVICE UNDER TEST (DUT):-

1. Schréder AVENTO 2 240 LED NW 178W 700mA luminaire

- 2. Schréder AVENTO 2 288 LED NW 244W 700mA luminaire
- 3. Schréder AVENTO 2 336 LED NW 244W 700mA luminaire

TEST METHOD:

The testing is carried out in our Photometric Laboratory. The laboratory is temperature controlled to 24 $^{\circ}$ C ± 2 $^{\circ}$ 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 V \pm 0.2% and the supply frequency was 50 Hz. The laboratory ambient temperature is maintained in the range 24 °C ± 2 °C.

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IANZ LR1010 - AVENTO 2 Load



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% or 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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Luminaire	Schréder AVENTO 2 240 LED NW 178W 250V							
Driver	Single ELG -240 - C700							
Electrical Characteristics								
Applied Nomin	ominal Voltage 250 V							
Luminaire Test #	Voltage (Volts)	Current (mA)	Wattage (Watts)	Power Factor	Ta (degrees C)			
1	249.8	740.7	179.51	0.97	25.4			
2	249.8	740.6	179.05	0.968	24.3			
3	249.8	736.9	177.96	0.967	25			
4	249.8	742.7	179.33	0.967	25.1			
5	249.9	738.1	178.66	0.969	24.7			
6	249.8	732.8	177.18	0.968	25.1			
7	249.8	740.9	179.4	0.969	25.2			
8	249.8	736.8	178.08	0.967	26.6			
9	249.8	744.8	179.91	0.967	25.2			
10	249.7	740.1	179.02	0.969	27			
Average Values	249.8	739.4	178.81	0.968	25.4			



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FILE NAME:-



RESULTS SUMMARY

Luminaire	Schréder AVENTO 2 288 LED NW 212W 250V							
Driver	Single ELG -240 - C700							
Electrical Characteristics								
Applied Nomin	nal Voltage 250 V							
Luminaire Test #	Voltage (Volts)	Current (mA)	Wattage (Watts)	Power Factor	Ta (degrees C)			
1	249.8	872.1	212.8	0.977	24.6			
2	249.8	868.5	211.6	0.975	25.1			
3	249.8	864.3	210.4	0.975	25.6			
4	249.8	869.7	211.7	0.975	26			
5	249.7	865.3	210.8	0.976	26.3			
6	249.7	862.1	210	0.975	24.7			
7	249.8	871	212.3	0.976	24.8			
8	249.8	865.3	210.8	0.975	25			
9	249.7	874.3	212.8	0.975	25.2			
10	249.8	870.5	212.2	0.976	25			
Average Values	249.8	868.3	211.5	0.976	25.2			



Luminaire Set up



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Luminaire	Schréder AVENTO 2 336 LED NW 244W 250V							
Driver	Single ELG -240 - C700							
Electrical Characteristics								
Applied Nomin	nal Voltage 250 V							
Luminaire Test #	Voltage (Volts)	Current (mA)	Wattage (Watts)	Power Factor	Ta (degrees C)			
1	249.7	1002	245.6	0.981	24.7			
2	249.7	998	244.2	0.98	25.1			
3	249.7	994	243.1	0.98	25			
4	249.7	999.1	244.4	0.98	25.4			
5	249.6	996	243.8	0.98	26.1			
6	249.7	992	242.8	0.98	23.9			
7	249.6	1003	245.6	0.981	24.2			
8	249.7	995	243.4	0.98	25			
9	249.7	1005	245.9	0.98	25.6			
10	249.7	1001	245.1	0.981	26.1			
Average Values	249.7	998.5	244.39	0.980	25.11			



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End of Report



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