

ELECTRICAL LOAD REPORT

REPORT NO.: IANZ LR 1001 **Date of Issue:-** 3 October 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 Schreder Luminaires in accordance with the AEMO Unmetered Load Guidelines and LM79 electrical load reporting.

DEVICE UNDER TEST (DUT):-

1. Schröder TECEO 1 16 LEDs 700mA luminaire
2. Schröder TECEO 2 56 LEDs 700mA luminaire
3. Schröder TECEO 2 80 LEDs 700mA luminaire

TEST METHOD:

The testing is carried out in our Photometric Laboratory. The laboratory is temperature controlled to 24 ± 2 degrees.

The luminaires were mounted on the frame and oriented to be as per normal mounting at 0 degrees spigot tilt and zero degrees luminaire tilt. The luminaire has 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

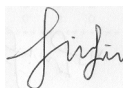
EQUIPMENT:

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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RESULTS SUMMARY

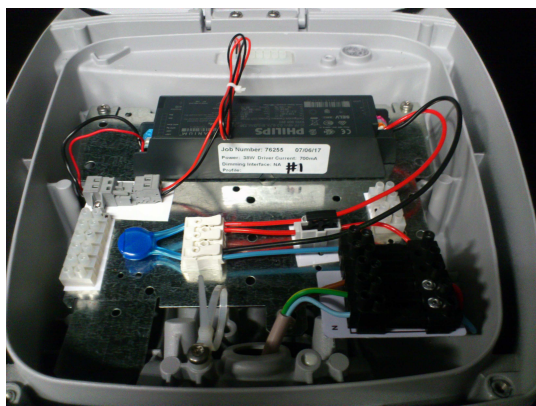
Luminaire	TECEO 1 16 LEDs
Driver	PHILIPS Xi FP 40W 0.2-0.7A SNLDAE 230V S175 sXt

Electrical Characteristics

Applied Nominal Voltage 250V

Luminaire Test #	Voltage (Volts)	Current (mA)	Wattage (Watts)	Power Factor	Ta (degrees C)
1	250.0	155.61	38.1	0.979	23.1
2	250.0	155.27	38.01	0.979	23.6
3	249.9	153.59	37.60	0.979	23.8
4	250.0	155.30	38.01	0.979	23.3
5	250.0	154.07	37.70	0.979	23.6
6	250.0	153.31	37.51	0.979	23.7
7	250.0	153.52	37.55	0.979	23.8
8	250.0	154.19	37.75	0.979	21.7
9	250.0	153.88	37.66	0.979	22.1
10	250.0	154.29	37.79	0.979	22.4
Average Values	250.0	154.30	37.80	0.979	23.1

Measurement Sample Photo:



DUT



Luminaire set up

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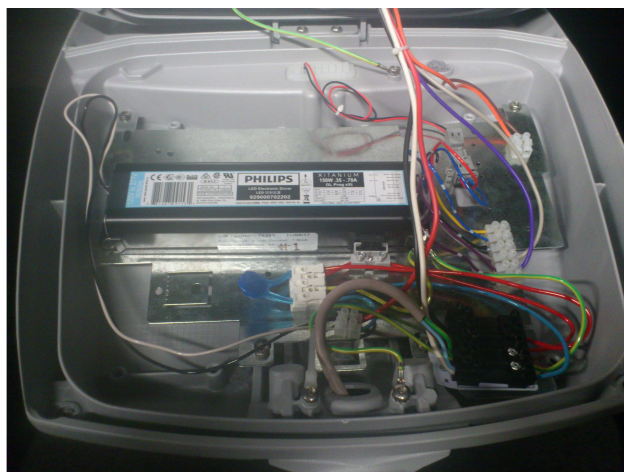
Luminaire	TECEO 2 56 LEDs
Driver	1 off PHILIPS XITANIUM 150W 0.35 – 0.70A GL Prog sXt

Electrical Characteristics

Applied Nominal Voltage 250V

Luminaire Test #	Voltage (Volts)	Current (mA)	Wattage (Watts)	Power Factor	Ta (degrees C)
1	249.9	529.3	127.55	0.964	22.2
2	249.8	525.6	126.41	0.963	23.2
3	249.9	531.9	127.31	0.956	23.3
4	249.9	530.6	127.34	0.961	23.7
5	249.9	533.6	127.67	0.958	23.6
6	250.0	532.6	127.81	0.960	22.3
7	249.9	524.5	125.95	0.961	22.8
8	249.9	527.6	126.76	0.962	23.9
9	249.9	503.2	123.82	0.985	24.1
10	249.8	507.1	124.74	0.985	24.8
Average Values	249.9	524.6	126.54	0.966	23.4

Measurement Sample Photo:



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FILE NAME:-

IANZ_LR1001 - TECEO Load Report.doc

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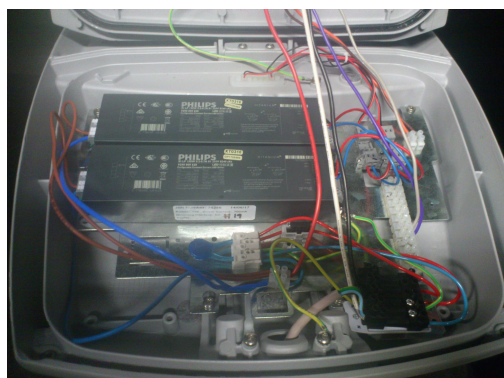
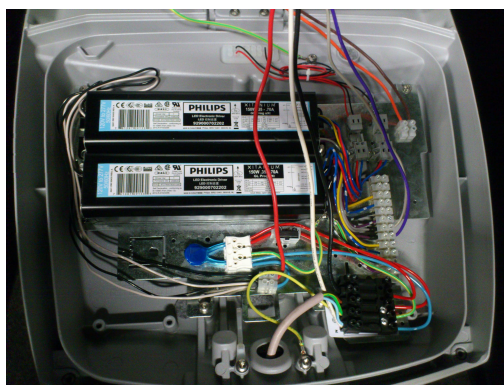
Luminaire	TECEO 2 80 LEDs
Drivers	2 off PHILIPS XITANIUM 150W 0.35 – 0.70A GL Prog sXt

Electrical Characteristics

Applied Nominal Voltage 250V

Luminaire Test #	Voltage (Volts)	Current (mA)	Wattage (Watts)	Power Factor	Ta (degrees C)
1	249.9	792.5	184.34	0.931	23.0
2	249.6	810.1	185.85	0.918	23.6
3	249.9	802.4	184.66	0.921	22.7
4	249.9	813.1	186.12	0.916	23.1
5	249.8	741.4	180.25	0.973	22.9
6	249.9	799.6	185.86	0.930	23.0
7	249.9	797.2	185.71	0.933	23.4
8	249.9	807.0	181.69	0.901	21.9
9	249.9	747.5	181.51	0.972	23.6
10	249.9	736.8	178.70	0.971	24.1
Average Values	249.9	784.8	183.47	0.937	23.1

Measurement Sample Photo:



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