

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



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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	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:



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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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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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