LightLab INTERNATIONAL

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The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.
Accreditation No. 2258.

Report of Test

LL24561-R02

This test report supersedes test report LL24561-R01

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This test report was issued by LightLab International without alterations or amendments

ORIGINAL REPORT

Activity address: 50 Redcliffe Gardens Drive, Clontarf, Qld, 4019, Australia.

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Test Report Number LL24561-R01

Client	Connected Light Solutions
Contact	Remko Verschuur
Address	34-36 Adderley Street East, Lidcombe. NSW 2141.
Devices Tested	Type of product: LED Area Lighter XL. Model number: ALXLUASN500AWBHSG0A. Brand: GE Cast aluminium body and mounting bracket with black finish. One SPL-XL 3030 2X36P8S V1.01 LED PCB with array of 576 LEDs. Complex domed lens about each LED. Two Inventronics EUM-240S670DG electronic drivers. Tested at 250 V 50 Hz with lens surround horizontal and beam downward
Nature of Tests	To determine the total bulk power usage (known as Unmetered Market Load) of 10 supplied LED luminaires with internal driver while operating under standard laboratory conditions with the supply set to 250 V 50 Hz. Performance data in accordance with IESNA LM-79-08.
Applicability	This report is applicable only to the sample that was tested.
Sample Selection	This laboratory has not exercised control over the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent to which the test samples are representative of production units.
Procedure	The sample was tested in free air with lens surround horizontal and face down in a draft free room. The supply voltage and frequency to the control gear was set according to the values in Table 1 and the sample was operated for a minimum of 2 hours till photometric and electrical stability prior to recording measurements. The relevant measurements are recorded in Table 1. All measurements were performed in a controlled environment of 25 ± 1 ° Celsius.
Revision History	LL24561 – original report LL24561-R01 – Product ID updated and average power consumption added. LL24561-R02 – Rearrangement of product “Devices Tested” description.

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Test Report Number LL24561-R01

Photographs

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Test Report Number LL24561-R01

Test Results

Sample ID	Supply voltage (Vac)	Supply frequency (Hz)	Supply current (A)	Supply Power (W)	Power Factor	Voltage THD (%)
LL24560A	250	50	2.024	496.3	0.98	0.04
LL24560B	250	50	2.020	495.2	0.98	0.05
LL24560C	250	50	2.017	494.5	0.98	0.04
LL24560D	250	50	2.018	494.6	0.98	0.04
LL24560E	250	50	2.018	494.8	0.98	0.04
LL24560F	250	50	2.015	494.1	0.98	0.05
LL24560G	250	50	2.015	493.8	0.98	0.05
LL24560H	250	50	2.009	492.3	0.98	0.05
LL24560I	250	50	2.012	492.9	0.98	0.04
LL24560J	250	50	2.003	490.6	0.98	0.04
Average	**250**	**50**	**2.018**	**493.9**	**0.98**	**0.04**

Table 1 – Measurements

Equipment Used	**Asset#**	**Calibration Due Date**
Electrical		
Keysight AC6804A AC Source	B0553	n/a
YEW WT210	B0381	10/02/2024
Environmental		
YEW 7563 Thermometer	B0260	20/10/2023
Photometry (stability only)		
Keithley 6485 Picoammeter	B0425	13/01/2025
LMT V Lamba Cell	B0250	13/01/2025

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Uncertainties

When calculated at the 95% confidence interval with coverage factor $k = 2$, the estimated uncertainties are:

Temperature	± 1° C
Electrical Power (ac)	± 0.4%
Electrical Voltage (ac)	± 0.3%
Electrical Current (ac)	± 0.3%
Frequency (Hz) *	± 0.1%
Power Factor	± 0.01

* NATA accreditation does not cover the performance of this service.

Laboratory

Measurements were performed at the LightLab International Brisbane Laboratory.

Date of Test 17th to 22nd March, 2023
Date of Report 5th April, 2023

Authorised Signatory

Toby Southgate

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