

The University of New South Wales

Optics & Radiometry Laboratory

School of Optometry and Vision Science

COMMERCIAL-IN-CONFIDENCE

LAMP CIRCUIT POWER MEASUREMENTS

Report Number 16041.3

for

**Nikkon Lighting Pty. Ltd.
Unit 3, 30-32 Artisan Road
Seven Hills NSW 2147**

Testing completed: 23 February 2016

Report issued: 23 February 2016

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Page 1 of 3

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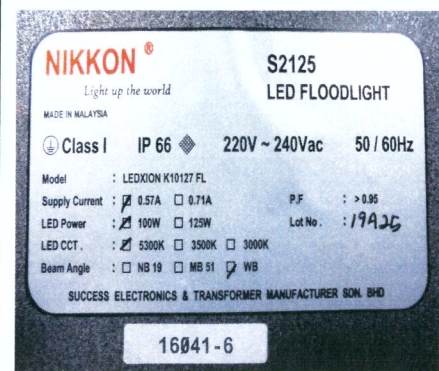
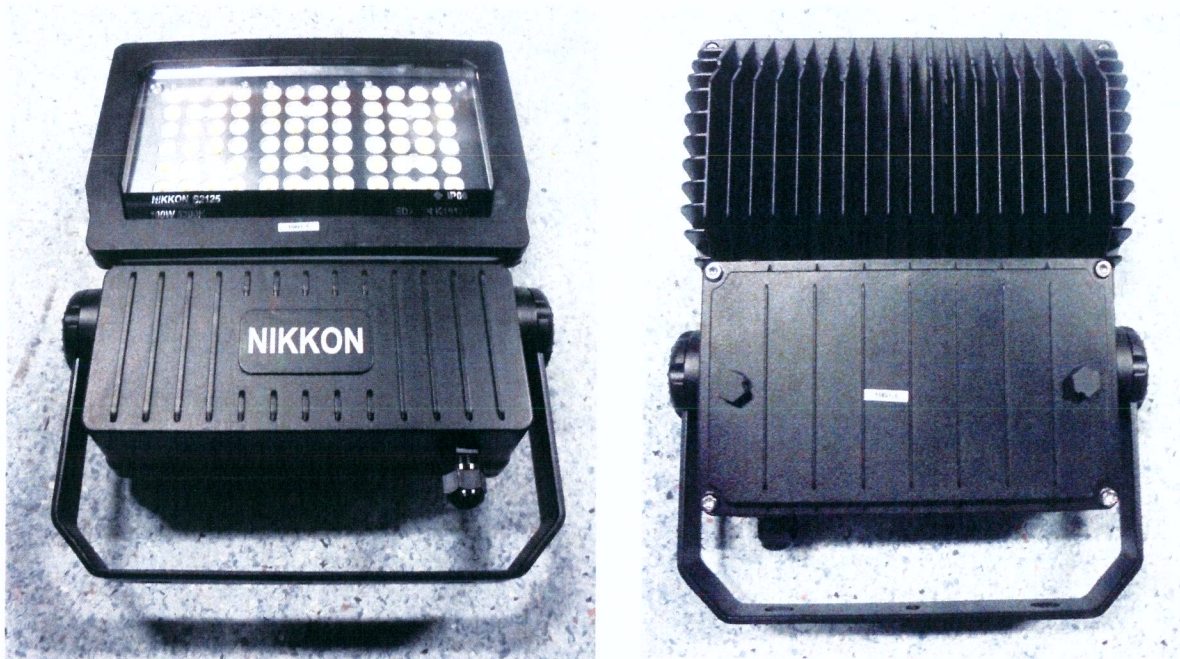
A handwritten signature in black ink, appearing to be 'my'.

LAMP CIRCUIT POWER MEASUREMENTS

Description of sample

ORLAB Sample ID	Make	Model	Control Gear	Description
16041-5	Nikkon Lighting	S2125-100W	PHILIPS 9137108590	LED floodlight, 100 watts nominal with clear lens energised with integral Philips (150W 0.70A) LED driver.
16041-6		S2110-100W		
16041-7		S2110-100W		

NB. The customer has advised that the 2 models listed are electrically identical. Only model S2125-100W was tested.



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Equipment used

ID	Description	Calibration due
237	Hewlett Packard 34401A Digital multimeter as a volt and frequency meter	15-Feb-17
123	Fluke 45 Digital multimeter as an ammeter	02-Feb-17
311	Hameg Powermeter HM8115-2	19-Oct-16

Temperature

Ambient temperature 25.1 °C

Uncertainties of measurement

The uncertainty values stated in this report have been calculated at the 95% level of confidence (k=2). This means that the chance that a result is in error by more than the value of its uncertainty is not more than five in one hundred.

Results

Voltage 240.0 \pm 0.5 VAC
Frequency 50.00 \pm 0.02 Hz

Sample ID	Current AAC	Power WAC	Power factor
16041-5	0.460 \pm 0.002	107.9 \pm 0.4	0.98 \pm 0.01
16041-6	0.462 \pm 0.002	108.5 \pm 0.4	0.98 \pm 0.01
16041-7	0.461 \pm 0.002	108.2 \pm 0.4	0.98 \pm 0.01
AVERAGE	0.461 \pm 0.002	108.2 \pm 0.4	0.98 \pm 0.01

Voltage 250.0 \pm 0.5 VAC
Frequency 50.00 \pm 0.02 Hz

Sample ID	Current AAC	Power WAC	Power factor
16041-5	0.444 \pm 0.002	107.9 \pm 0.4	0.97 \pm 0.01
16041-6	0.445 \pm 0.002	108.5 \pm 0.4	0.97 \pm 0.01
16041-7	0.444 \pm 0.002	108.3 \pm 0.4	0.98 \pm 0.01
AVERAGE	0.444 \pm 0.002	108.2 \pm 0.4	0.97 \pm 0.01

Stephen Dain
Authorised Signatory

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Page 3 of 3

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