

The University of New South Wales

Optics & Radiometry Laboratory

School of Optometry and Vision Science

COMMERCIAL-IN-CONFIDENCE

LAMP CIRCUIT POWER MEASUREMENTS

Report Number 16041.1

for

**Nikon 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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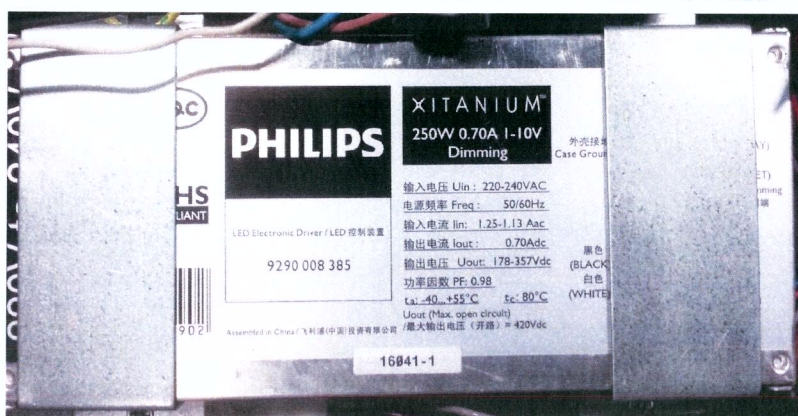
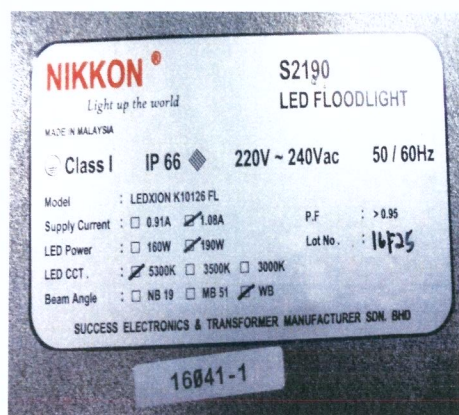
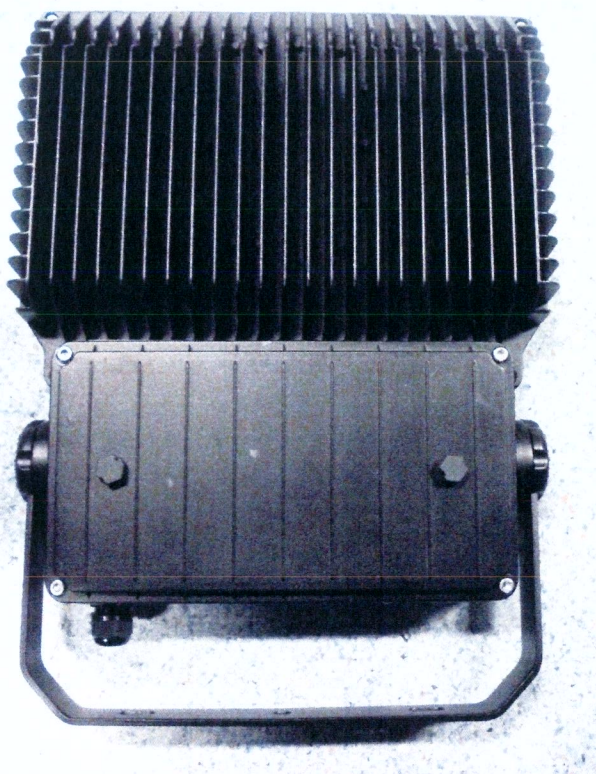
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LAMP CIRCUIT POWER MEASUREMENTS

Description of sample

ORLAB Sample ID	Make	Model	Control Gear	Description
16041-1	Nikkon Lighting	S2190-190W S2110-190W	PHILIPS Model : 9290008385	LED floodlight, 190 watts nominal with clear lens, energised with integral Philips (178-357Vdc 0.70Adc) LED driver.

NB. The customer has advised that the 2 models listed are electrically identical. Only model S2190-190W 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
16041-1	0.874 \pm 0.002	206.5 \pm 0.8	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
16041-1	0.840 \pm 0.002	206.5 \pm 0.8	0.98 \pm 0.01

Stephen Dain

Stephen Dain
Authorised Signatory

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