

The University of New South Wales
Optics & Radiometry Laboratory
School of Optometry and Vision Science

COMMERCIAL-IN-CONFIDENCE

**LAMP CIRCUIT POWER
MEASUREMENTS**

Report Number 16041.2

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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Page 1 of 3

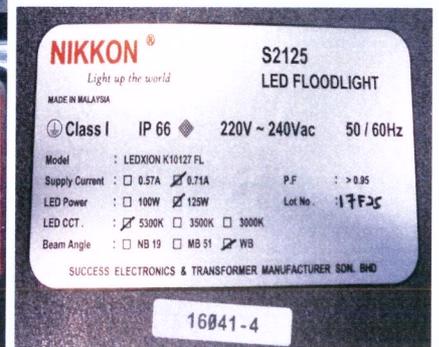
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LAMP CIRCUIT POWER MEASUREMENTS

Description of sample

ORLAB Sample ID	Make	Model	Control Gear	Description
16041-2	Nikon Lighting	S2125-125W	PHILIPS	LED floodlight, 125 watts nominal with clear lens energised with integral Philips (150W 0.70A) LED driver.
16041-3		S2110-125W	9137108590	
16041-4		S2110-125W	9137108590	

NB. The customer has advised that the 2 models listed are electrically identical. Only model S2125-125W was tested.



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Page 2 of 3

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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 ±0.5 VAC
 Frequency 50.00 ±0.02 Hz

Sample ID	Current AAC	Power WAC	Power factor
16041-2	0.559 ±0.002	131.9 ±0.5	0.98 ±0.01
16041-3	0.560 ±0.002	132.1 ±0.5	0.98 ±0.01
16041-4	0.559 ±0.002	132.5 ±0.5	0.99 ±0.01
AVERAGE	0.559 ±0.002	132.2 ±0.5	0.98 ±0.01

Voltage 250.0 ±0.5 VAC
 Frequency 50.00 ±0.02 Hz

Sample ID	Current AAC	Power WAC	Power factor
16041-2	0.538 ±0.002	131.9 ±0.5	0.98 ±0.01
16041-3	0.539 ±0.002	132.2 ±0.5	0.98 ±0.01
16041-4	0.538 ±0.002	132.1 ±0.5	0.98 ±0.01
AVERAGE	0.538 ±0.002	132.1 ±0.5	0.98 ±0.01

Stephen V Dain

Stephen Dain
 Authorised Signatory

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Page 3 of 3

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