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## Test Report: 215179

Testing of LED Module Power for AEMO's NEM Load Table and other tests on optical systems

for Sylvania 37W 4K Samsung LED module Model No. SL-I7T1F33LZWW

Prepared for: Gerard Professional Solutions

Request No. PTR 4140

*Type of product:* LED Module for Streetlight luminaires

*Model:* SL-I7T1F33LZWW

*Prepared for:* Gerard Professional Solutions

*Description:* Sylvania 37W 4K LED module for Streetlight luminaires.

### Test objective

Determination of the sample supply operating parameters Voltage, Current, Power and Power Factor when tested at nominal test voltage of 240V.

### Test configuration

Ten LED module samples were tested. The samples were operated at 25°C ambient temperature until the sample parameters stabilised. Twenty readings were taken ten seconds apart and the average found. The average value is multiplied by the Calibration Correction given in the latest NATA calibration report then has Voltmeter losses subtracted based on Watt meter impedance and test voltage.

### Client:

Gerard Professional Solutions contact Vishal Galchar, 96 Gow St, Padstow, NSW 2211

Tested by: Alain Yetendje on 06/08/2015 Authorised Signatory

Date: 06/08/2015

Alain Yetendje

## Uncertainties

At a Confidence Level of 95% with a Coverage Factor of 2

**Supply Voltage:**  $\pm 0.07\%$

**Supply Current:**  $\pm 0.14\%$

**Supply Power:**  $\pm 0.19\%$

**Power Factor:**  $\pm 0.05$

**Ambient Temperature:**  $\pm 1^\circ\text{C}$

## Test Equipment Used

*Power meter:* Clark Hess Model 2335 SN 52164

*Power meter integration time (s):* 5

*Calibration Report:* Ausgrid 220537

*Luminaire thermometer:* AMA S No. 1086110-0.1deg

## Photographs

The general construction of the luminaire is shown in the photographs.



Illustration 1: LED module



Illustration 2: LED module marking

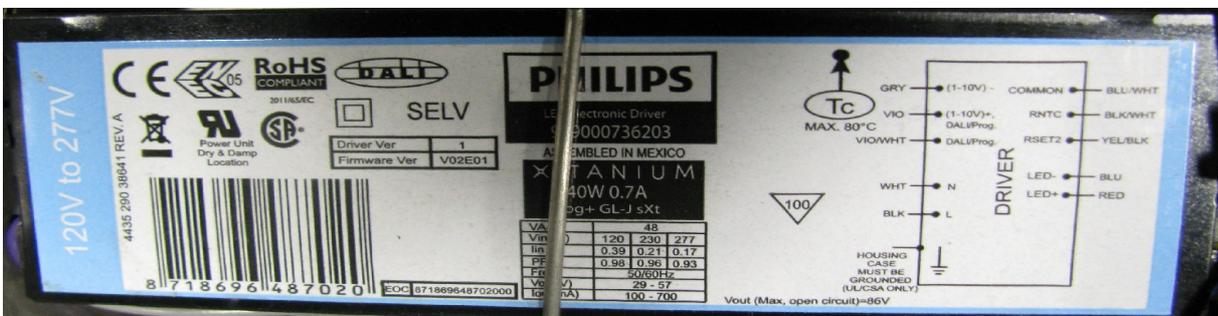


Illustration 3: Philips Xitanium driver

## Results

Full details are given in Illustration 4.

Electrical operating parameters of Sylvania 37W 4K Samsung LED Module

Sample No.	Supply Voltage (Vrms)	Input Current (mArms)	Input Power (W)	Power Factor
Sample 1	239.937	182.226	42.23	0.967
Sample 2	240.061	181.449	42.07	0.967
Sample 3	239.952	181.639	42.113	0.967
Sample 4	239.968	184.498	42.791	0.968
Sample 5	240.016	183.288	42.519	0.968
Sample 6	239.977	181.000	41.925	0.966
Sample 7	239.919	185.760	43.118	0.969
Sample 8	240.023	181.826	42.158	0.967
Sample 9	239.984	184.337	42.769	0.968
Sample 10	239.935	180.726	41.899	0.967
<b>Average</b>	<b>239.98</b>	<b>182.68</b>	<b>42.36</b>	<b>0.967</b>

*Illustration 4: Electrical operating parameters of Sylvania 37W 4K LED module SL-I7T1F33LZWW*