Light Emission Distribution Laboratory
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Accredited for compliance with ISO/IEC 17025 Accreditation No. 19541

Test Report: 215184

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

for Sylvania 13W 4K Samsung LED module Model No. SL-I7T1F33LZWW

Prepared for: Gerard Professional Solutions

Request No. PTR 4163

Type of product: LED Module for Streetlight luminaires

Model: SL-I7T1F33LZWW

Prepared for: Gerard Professional Solutions

Description: Sylvania 13W 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 12/08/2015 Authorised Signatory Date: 17/08/2015

Alain Yetendje

Uncertainties

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

Supply Voltage: ± 0.07%
Supply Current: ± 0.14%
Supply Power: ± 0.19%
Power Factor: ± 0.05
Ambient Temperature: ± 1°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

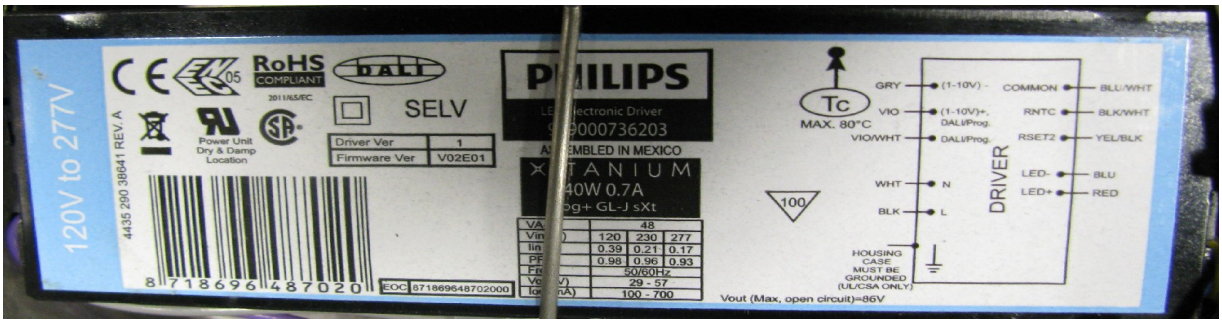

Illustration 3: Philips Xitanium driver programmed at 245mA

Results

Full details are given in Illustration 4.

Electrical operating parameters of Sylvania 13W 4K Samsung LED Module

Sample No.	Supply Voltage (Vrms)	Input Current (mArms)	Input Power (W)	Power Factor
Sample 1	239.900	78.761	16.401	0.871
Sample 2	240.032	78.808	16.414	0.871
Sample 3	239.928	78.551	16.279	0.867
Sample 4	239.828	79.623	16.541	0.869
Sample 5	239.979	78.332	16.332	0.872
Sample 6	240.057	78.115	16.196	0.867
Sample 7	239.991	79.710	16.725	0.877
Sample 8	239.958	78.800	16.318	0.866
Sample 9	239.986	78.957	16.472	0.872
Sample 10	239.882	77.730	16.174	0.870
Average	**239.95**	**78.74**	**16.39**	**0.870**

Illustration 4: Electrical operating parameters of Sylvania 13W 4K LED module SL-I7T1F33LZWW