

## **Test Report: 213305**

### Testing Electrical operating parameters of StreetLED ECO 18

*Type of product:* Cat P Street Light

*Vendor identification:* StreetLED ECO 18

*Model/Catalogue number:* JL99XXXL22

*Prepared for:* Sylvania Lighting Australasia

#### Test specification

Determination of the StreetLED ECO 18 supply operating parameters Voltage, Current, Power and Power Factor when tested at the nominal test voltage of 240 V. This report supplements Test Report 213236 which gives complete photometric information but only on one sample.

#### Test configuration

Ten luminaire samples were tested, then the results were averaged. The luminaires were operated at 25°C ambient temperature until the luminaire parameters stabilised. Upon Stabilisation 30 readings were taken one every 5 seconds using a Clark Hess Sampling Watt Meter model 2335; Serial No: 105845. The 30 readings were averaged and the result given for that luminaire sample. The watt meter was calibrated in April 2013 by Ausgrid calibration laboratory. The Wattmeter was supplied from an electronically regulated low distortion power supply Alpha Power Systems Model 6000VA; Serial No: 10022650907.

#### Conclusions

Supply Power to the StreetLED ECO 18 is 21.9 Watts, full details are given on page 2.

Tested by: Paul Bennett      From 19/09/2013      Authorised Signatory  
to 20/09/2013



Date: 02/10/2013

David Ford

## DUT description

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

*Description:* Cast aluminium street light with clear visor. Samsung Street Light LED module PCB label: STOSEW750; 30003LS01; N701; **000689**; R3; 5000K - S; driven by Philips Xitanium driver 929000708803 set to 350 mA.

## Uncertainties

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

*Supply Voltage:*  $\pm 0.18\%$

*Supply Current:*  $\pm 0.09\%$

*Supply Power:*  $\pm 0.22\%$

*Power Factor:*  $\pm 0.01$

*Ambient Temperature:*  $\pm 2^\circ\text{C}$

## Results

Sample No.	Supply Voltage (Vrms)	Input Current (mA rms)	Input Power (W)	Power Factor
Luminaire_1	240.1	101.9	22.1	0.902
Luminaire_2	240.2	101.6	22.0	0.901
Luminaire_3	240.1	101.2	21.8	0.897
Luminaire_4	240.1	101.7	21.9	0.898
Luminaire_5	240.1	101.6	21.9	0.897
Luminaire_6	240.1	101.2	21.9	0.901
Luminaire_7	240.1	101.1	21.9	0.903
Luminaire_8	240.0	101.2	21.9	0.901
Luminaire_9	240.0	101.1	21.8	0.899
Luminaire_10	239.9	101.1	21.8	0.900
<b>Averages</b>	<b>240.06</b>	<b>101.37</b>	<b>21.90</b>	<b>0.900</b>

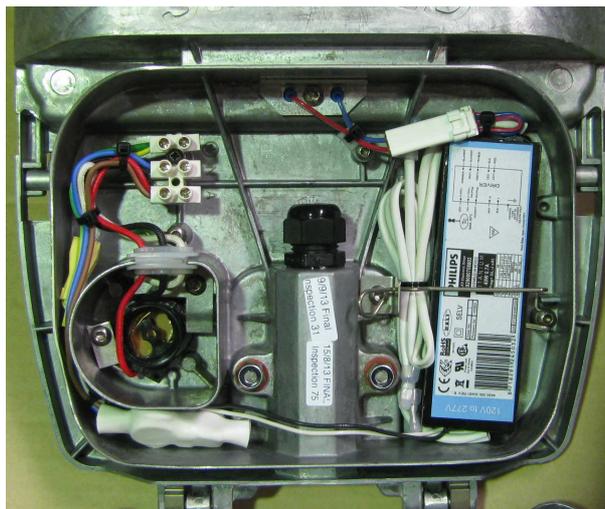
General Photographs



*Illustration 2: Luminaire bottom*



*Illustration 1: Luminaire top*



*Illustration 3: Gear tray*