



## Light Emission Distribution Laboratory

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# Test Report: 215043

## Testing of Street Light Power for AEMO's NEM Load Table and other tests on optical systems

for Cornea® Street Light 120W

*Type of product:* Category V Street Lights

*Model Number:* C065 X2Cxx (xx=45, xx=60, xx=90, xx=X2)

*Prepared for:* LED4Life

*Description:* Pure aluminium double coated body with 2 CREE LED, contact lens design and driven from a Mean well driver CLG-150-36A.

### Test objective

Determination of the luminaire supply operating parameters Voltage, Current, Power and Power Factor when tested at 240V. Note that this test report covers the full Cornea® Street Light 120W series namely with 45, 60, 90 and 120 degrees contact lenses.

### Test configuration

Four luminaires samples were tested. The luminaires were operated at 25°C ambient temperature until the luminaire parameters stabilised. Upon Stabilisation 30 readings were taken one every 10 seconds using a Clark Hess Model 2335 SN 52164, calibration report Ausgrid 220537. The 30 readings were averaged and the result given for that luminaire sample. 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.

Tested by: Alain Yetendje on 05/03/2015

Authorised Signatory

Date: 19/03/2015

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The data specified in this report relates to the sample measured under standard conditions specified in the Test Specification, and may not necessarily relate to other similar luminaires or other operating conditions. The tests and measurements covered by this document are traceable to Australian national standards of measurement. This report shall only be reproduced in full unless approved in writing by Light Emission Distribution Laboratory (LEDLab).

## 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: Clarke Hess Model 2335 SN 52164

Power meter integration time (s): 5

Calibration Report: Ausgrid 220537

Luminaire thermometer: 14076

## Photographs



Illustration 1: Luminaire

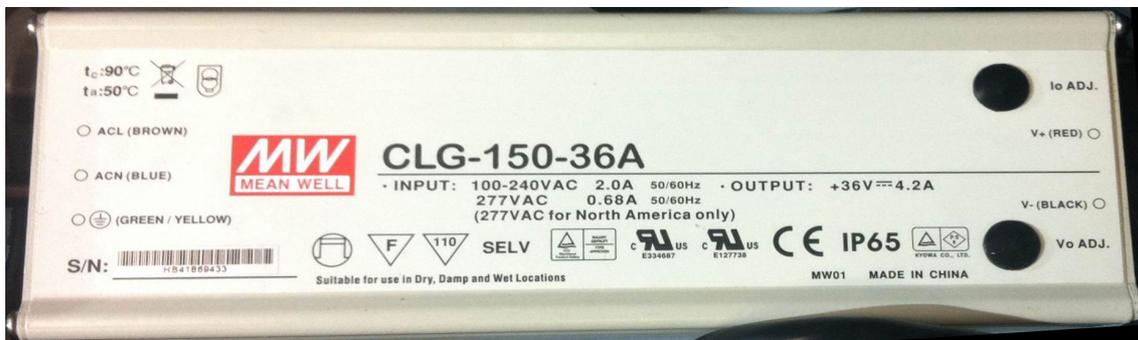


Illustration 2: Mean well driver

## Results

Full details are given in Illustration 3.

### Electrical operating parameters of Cornea® Street Light 120W

Sample No.	Supply Voltage (Vrms)	Input Current (Arms)	Input Power (W)	Power Factor
Sample 1	240.21	544.09	126.42	0.967
Sample 2	240.25	545.47	126.52	0.966
Sample 3	240.32	545.37	126.53	0.966
Sample 4	239.91	545.53	126.44	0.966
<b>Average</b>	<b>240.17</b>	<b>545.12</b>	<b>126.48</b>	<b>0.966</b>

*Illustration 3: Summary results*