



Light Emission Distribution Laboratory

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Test Report: 215315

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

for CLIP34 LED 95W 4000K Model No. EC99xxL95

Prepared for: Gerard Lighting Pty Ltd

Request No. PTR 4142

Type of product: Category P & V

Model: EC99xxL95

Prepared for: Gerard Lighting Pty Ltd

Description: CLIP34 LED 95W 4000K LED Streetlight luminaire. This report is also representative of the CLIP28 LED 95W that has the same LCP data and only differs in the size of the fitting.

Test objective

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

Test configuration

Ten luminaires samples were tested. The luminaires were operated at 25°C ambient temperature until the luminaire 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:

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Tested by: Alain Yetendje on 20/11/2015 Authorised Signatory

Date: 25/11/2015

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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: ± 0.01

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

Test Equipment Used

Power meter: Newton 4th PPA2520 SN 133-00467

Power meter integration time (s): 5

Calibration Report: Ausgrid 221983

Luminaire thermometer: AMA S No. 1086110-0.1deg

Photographs

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



Illustration 1: Luminaire sample



Illustration 2: LED driver

Results

Full details are given in Illustration 4.

Electrical operating parameters of CLIP34 LED 95W 4000K

Sample No.	Supply Voltage (Vrms)	Input Current (Arms)	Input Power (W)	Power Factor
Sample 1	240.213	0.390	93.00	0.990
Sample 2	240.516	0.390	93.15	0.990
Sample 3	240.703	0.386	92.10	0.990
Sample 4	240.307	0.388	92.41	0.990
Sample 5	239.900	0.390	92.76	0.990
Sample 6	240.561	0.390	92.95	0.990
Sample 7	239.571	0.389	92.50	0.990
Sample 8	240.530	0.389	92.74	0.990
Sample 9	240.251	0.390	92.86	0.990
Sample 10	240.393	0.390	92.98	0.990
Average	240.29	0.3892	92.75	0.99

Illustration 3: Electrical operating parameters of EC99xxL95