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Test Report: 216003

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

for *CORNEA*® Street Light 24W

Type of product: Category P Street Lights

Model Number: C065 24Cxx (xx=45, xx=60, xx=90, xx=X2)

Prepared for: LED4Life

Description: Pure aluminium double coated body with 1 CREE LED, contact lens design and driven from a Mean well class 2 Power supply HLG-60H-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 24W series namely with 45, 60, 90 and 120 degrees contact lenses.

Test configuration

One luminaire sample was tested. The luminaire 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 222080. 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 06/01/2016 Authorised Signatory Date: 07/01/2016

David Ford

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

Test Equipment Used

Power meter: Clarke Hess Model 2335 SN 52164
Power meter integration time (s): 5
Calibration Report: Ausgrid 222080
Luminaire thermometer: 14076

Photographs

Illustration 1: Luminaire

Illustration 2: Mean well driver

Results

Full details are given in Illustration 3.

Sample 1		Supply Voltage (Vrms)	Input Current (mArms)	Input Power (W)	Power Factor
Average		240.216	100.7591	23.19	0.958
Min		240.000	100.6000	23.16	
Max		240.300	100.9000	23.23	
Calibration correction (see Clark Hess calibration report)		0.9988	0.9998	0.9987	
Instrument impedance correction (CH)			0.00023	0.053	
Final value		239.92	100.734	23.11	

Illustration 3: Summary results