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Accredited for compliance with ISO/IEC 17025 Accreditation No. 19541

Test Report: 216055

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

for *CORNEA*® Flood Light 100W

Type of product: Floodlight

Model Number: C065 X0Cxx (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 an LED Power Supply JL-C4004.

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*® Flood Light 100W series namely with 45, 60, 90 and 120 degrees contact lenses.

Test configuration

One luminaire was tested. The luminaire was operated at 25°C ambient temperature until the luminaire parameters stabilised. Thirty 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.

Tested by: Alain Yetendje on 03/03/2016 Authorised Signatory Date: 04/03/2016

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: ± 0.005
Ambient Temperature: ± 1°C

Test Equipment Used

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

Photographs

Illustration 1: Luminaire

Illustration 2: LED Power Supply

Results

Full details are given in Illustration 3.

Electrical operating parameters of Cornea® Flood Light 100W

Sample No.	Supply Voltage (Vrms)	Input Current (Arms)	Input Power (W)	Power Factor
Sample 1	240.06	0.4259	98.78	0.964

Illustration 3: Summary results