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INTERNATIONAL



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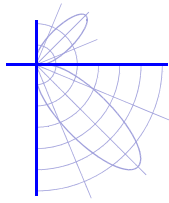
Report of Test

LL16767

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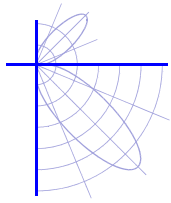
This test report was issued by LightLab International without alterations or amendments





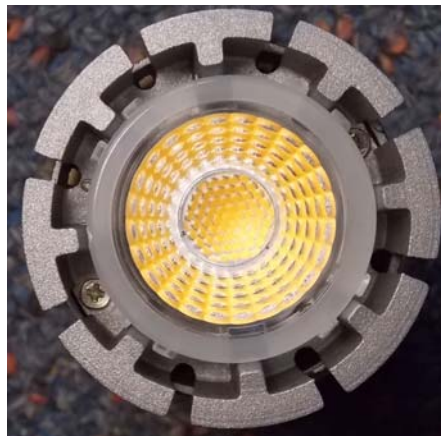
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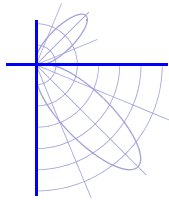
Client	Empyrean Lighting
Contact	Kevin Day
Address	90 Sippy Downs Drive, Sippy Downs. QLD. 4556.
Devices Tested	An MR16 LED Lamp and driver, Cat No.: Polaris XPH-AT7WMR16-W25 (c/w Osram Redback).
Nature of Tests	To determine the total circuit power (known as Lamp Circuit Power or 'LCP') of the supplied MR16 LED lamp and driver combination while operating under standard laboratory conditions with the supply set to 240 V 50 Hz.
Sample Selection	This laboratory has not exercised control over the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent to which the test sample is representative of production units.
Procedure	The sample was tested in a simulated ceiling in free air and beam downwards in a draft free room. The supply voltage and frequency to the control gear was set according to the values in Table 1 and the sample was operated for a minimum of 6 hrs prior to recording measurements. The relevant measurements are recorded in Table 1. All measurements were performed in a controlled environment of 25 ± 1 ° Celsius.



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Photographs





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Test Results

Supply Voltage (Vac)	Supply Frequency (Hz)	Supply Current (Aac)	Power Factor	Measured Total Circuit Power (W)
240.0	50.0	0.033	0.92	7.3

Table 1 – measurements

The control gear used for this test:

“Osram ET-Redback 60VA 230-240V~ 50Hz”.

Uncertainties

Temperature	± 1° Celsius
Electrical Power (ac)	± 0.5%
Electrical Voltage (ac)	± 0.5%
Electrical Current (ac)	± 0.5%
Frequency (Hz) *	± 0.2%
Power Factor	± 0.02

Uncertainties are calculated at the 95% confidence interval with coverage factor k = 2.
* NATA accreditation does not cover the performance of this service.

Date of Test 2nd August 2013
Date of Report 19th August 2013

Authorised Signatory

P. Lawrance

