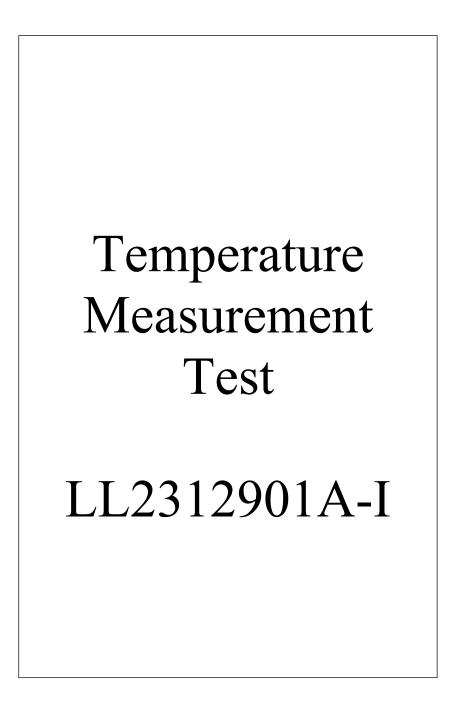
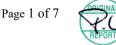




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Test Report Number LL2312901A-I			
Client	Western Power 363 Wellington Street, Perth, WA 6000.		
Contact	Thomas Marchant		
Sample Description	An 18 W LED replacement lamp in a weathered Sylvania Urban 75MA LPF PEB 240 V 50 Hz streetlantern. The streetlantern comprises: cast aluminium housing with black plastic backshell, clear lens with prismatic section & two specular peened side reflectors. The original Tridonic OMS70A-05 iron-core ballast, PF correction capacitor and ignitor remained in circuit for testing (the photocell did not form part of sample as received). The spigot was horizontal. One Philips 9290023499 220-240V 50/60 Hz 18W 3000K 3000lm integrated replacement lamp.		
Reference Document Summary	No reference document is defined for this test		
Nature of Tests	To determine the maximum value of Tc for an LED replacement lamp in a customer supplied streetlight fitting, Measurement methods and conditions in accordance with the standards noted in the Observations and Determinations table:		
	 the sample supply voltage and frequency were set to the input values noted in the Observations and Determinations table. lamp Tc was measured other points of interest were measured for temperature 		
Sample Selection	This laboratory has not exercised control over the selection of samples to be tested. The significance of the report is limited to the extent that the sample is representative of the population.		
Applicability	The results apply only to the sample that was tested.		
Uncertainties	Uncertainties available on request.		
Procedure Details	LightLab procedure Test-B3038. Testing was performed in a draught free, controlled environment. The sample was energised and operated until it reached thermal and electrical stability prior to measurements being performed. Observations and determinations relevant to the test are listed in the Observations and Determinations Table. Measurements are recorded in the Measurements Table.		
Results of Tests	Compliance not relevant to the tests. Refer to the tables for test conditions, determinations and measurements.		

Authorised Signatory

P. Lawrance

Date of Test11th May, 2023Date of Report5th Jun, 2023

B3007 ISTM Report & 60598-1 12.4 report, V5.1, 15th Mar 21



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Observation	Determination		
Standard(s) tested	 (a) ASNZS60598.1:2017 section 12.4.1 excepting: clause 12.4.1 (d) & applicable 60598-2-X document Temperature measurement points limited to those listed in the results section. Ambient temperature not set to the T_a rating of the luminaire Supply voltage set to 240 V 50 Hz. 		
Sample (manufacturer, model)	Sylvania – Urban 75MA LPF PEB		
Integrated LED lamp (manufacturer, model)	Philips - 9290023499		
Manufacturer's installation instructions	Not supplied		
Luminaire type specific observations	Spigot mount luminaire		
Sample mounting	Horizontal		
Sample T _a rating	40°C, tested at 25°C per customer instructions		
Sample electrical input rating	240 V 50 Hz		
Supply setpoint	240 V 50 Hz		
Luminaire configuration	As supplied		
Lamp Tc location			

Observations & Determinations Table



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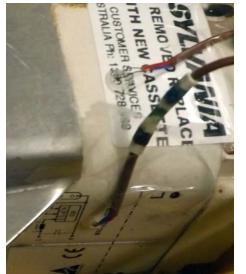
Electrical & environmen	t	Temperatures ⁽¹⁾	
Supply Voltage (ac)	240 V	Driver Tc point (TC #7)	31.9 °C
Supply Power	21.5 W	Driver Tc point (TC #8)	31.8 °C
Supply Current (ac)	108 mA	LED Tc (TC #9)	58.8 °C
Supply Frequency	50 Hz	Lamp chamber T (TC #10)	37.7 °C
Power Factor	0.83		
Measured Ambient Temperature	25.6 °C		
Stabilisation time *	21.75 hours		
Test duration *	0.25 hours		

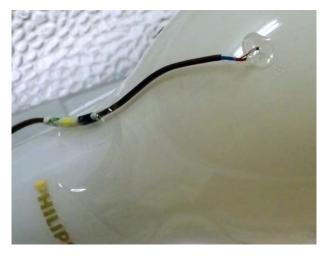
Measurements Table

* NATA accreditation does not cover the performance of this service.

ightLab

⁽¹⁾ All temperature measurements, apart from Measured Ambient, have been normalised to 25°C.





NATA

Thermocouple attachment points



Replacement lamp

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Test Report Number LL2312901A-I

Photographs:







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Thermocouple placement:











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TC# 8

TC# 7

TC# 9

TC# 10

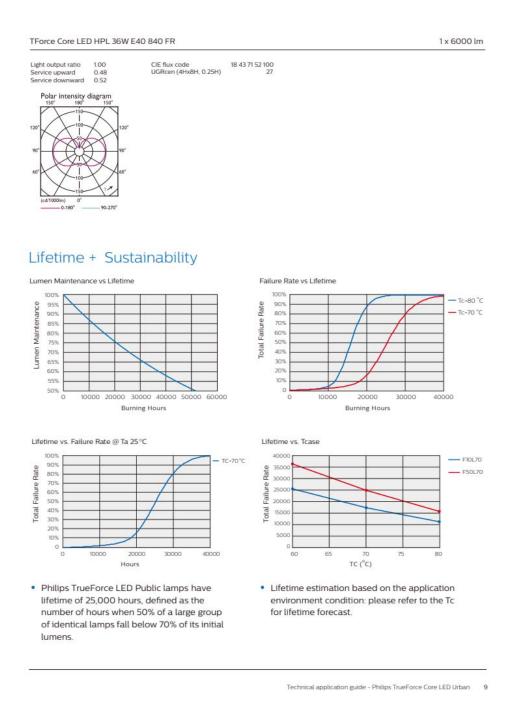
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Test Report Number LL2312901A-I

NATA

Annex 1 – External documents

Extract from "Technical application guide – Philips TrueForce Core LED Urban" dated 02/2021, Published by Philips Lighting. Extract shows data for lamp, including expected lifetime of the lamp vs case temperature.



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