

Test Report No.: <i>Prüfbericht-Nr.:</i>	50290569 001	Order No.: <i>Auftrags-Nr.:</i>	252100502	Page 1 of 7 <i>Seite 1 von 7</i>	
Client Reference No.: <i>Kunden-Referenz-Nr.:</i>	622061	Order date: <i>Auftragsdatum:</i>	04-Sep-2019		
Client: <i>Auftraggeber:</i>	Aldridge Traffic Systems P/L 12-14 Leeds St, Rhodes, NSW 2138, Australia				
Test item: <i>Prüfgegenstand:</i>	LED street light				
Identification / Type No.: <i>Bezeichnung / Typ-Nr.:</i>	BOS2.TE.520				
Test specification: <i>Prüfgrundlage:</i>	Refer to page 2				
Date of receipt: <i>Wareneingangsdatum:</i>	04-Sep-2019				
Test sample No.: <i>Prüfmuster-Nr.:</i>	A000987040-001 to A000987040-010				
Testing period: <i>Prüfzeitraum:</i>	04-Sep-2019 to 11-Sep-2019				
Place of testing: <i>Ort der Prüfung:</i>	TUV Rheinland Australia Pty Ltd				
Testing laboratory: <i>Prüflaboratorium:</i>	TUV Rheinland Australia Pty Ltd				
Test result*: <i>Prüfergebnis*:</i>	Samples were submitted for measurement only, no compliance limits				
tested by / geprüft von:		reviewed by / kontrolliert von:			
11-Sep-2019	Yang Jiang / Test Engineer		11-Sep-2019	Daniel Ngo / Reviewer	
Date <i>Datum</i>	Name / Position <i>Name / Stellung</i>	Signature <i>Unterschrift</i>	Date <i>Datum</i>	Name / Position <i>Name / Stellung</i>	Signature <i>Unterschrift</i>
Other / Sonstiges:					
- Power consumption measurement at rated voltage for AEMO (Australian Energy Market Operator) at lab condition (Ambient (20±5)°C, Relative Humidity (45–75)%).					
Condition of the test item at delivery: <i>Zustand des Prüfgegenstandes bei Anlieferung:</i>			New sample, no damage		
* Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet					
This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark. <i>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</i>					

Test Report

General remarks:

1. This report shall not be reproduced, except in full.
2. Details in test data / test plan no. 252100502.
3. Reporting of results herein is in accordance with NATA recommendations taking into account U of M.
 - (a) For minimum limits - Where measurement is on the limit or above the limit it is deemed to comply. Where measurement is below the limit it is deemed not to comply.
 - (b) For maximum limits - Where measurement is on the limit or below the limit it is deemed to comply. Where measurement is above the limit it is deemed not to comply.
4. For reporting of results the estimated uncertainty for measurement taken into account at 95% confidence level.
5. This test report is based on assessment and tests applied to the specific test item(s) as submitted by the client.
6. TÜV Rheinland Australia disclaims any and all responsibility or obligation for any other item.
7. LCP test was conducted on 10 fittings per requested schemes.

Description of the test item:

Test items are branded: **Aldridge Traffic Systems**

Model / type number: **BOS2.TE.520**; Rating: 230VAC, 50Hz, 0.86A, 20W, IP65, IK06. Lamp control gear: INVENTRONICS; Model Number: EUC-026S045DS; Input: 100-240VAC, 50/60Hz, 0.4A max; Output: 28-56VDC, 450mA, Vo max: 59VDC; Rating: P_{in max}: 40W, t_c: 90°C.

Options/accessories/ancillary equipment:

The equipment was tested without any optional accessory installed. Hence, this report does not cover parameters that are influenced by the installation of optional accessory that might affect safety in the meaning of this standard.

Uncertainty of equipment used:

Equipment	Equipment No.	Range used	Uncertainty (%)	Calibration Due Date
Digital Power Meter Model: WT310	MEL-1464	Voltage: 240V	±0.10	22-Oct-2019
		Current: 100mA	±0.20	
		Power: 23W	±0.20	
		Power Factor: 0.5 (lagging) – 0.5 (leading)	±0.50	

Test procedure:

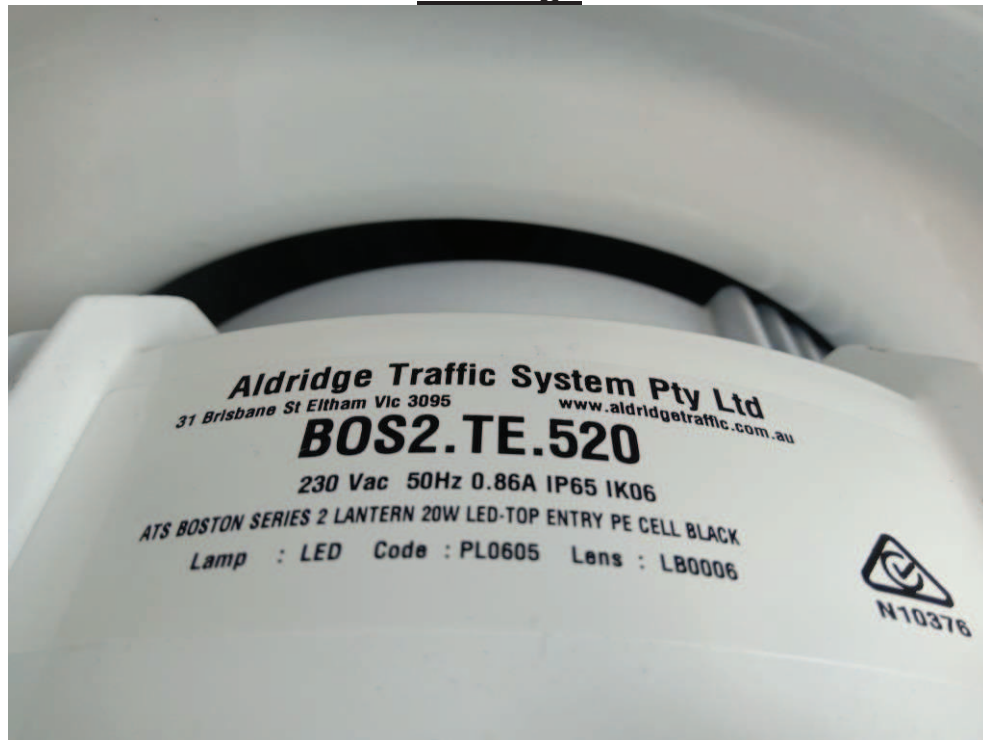
The submitted test samples (consisted of the supplied lamp and control gear combination, if applicable) for the lamp circuit power consumption measurement were placed in a draught free room and at the laboratory condition (Ambient (20±5)°C, Relative Humidity (45–75)%) for 24 hours before and during the measurement.

The test samples were connected to the power source and supplied with voltage and frequency as listed in "TABLE: Power Measurement". The test samples were operated until the conditions of overall temperature equilibrium were established or at least 4 hours in stabilized operation with the supplied sources. Then the total power consumption measurements have been taken by power meter.

	Test Item	Supplied Voltage (V)	Frequency (Hz)	Measured Power (W)	Measured Current (A)	Power Factor
1	BOS2.TE.520	220	50	18.05	0.0865	0.9566
		230	50	18.13	0.0835	0.9495
		240	50	18.21	0.0812	0.9417
2	BOS2.TE.520	220	50	18.10	0.0862	0.9596
		230	50	18.20	0.0835	0.9533
		240	50	18.27	0.0809	0.9469
3	BOS2.TE.520	220	50	18.37	0.0883	0.9546
		230	50	18.44	0.0853	0.9476
		240	50	18.51	0.0828	0.9399
4	BOS2.TE.520	220	50	18.17	0.0867	0.9608
		230	50	18.27	0.0839	0.9547
		240	50	18.37	0.0812	0.9476
5	BOS2.TE.520	220	50	18.46	0.0888	0.9535
		230	50	18.53	0.0859	0.9467
		240	50	18.60	0.0833	0.9385
6	BOS2.TE.520	220	50	18.27	0.0875	0.9577
		230	50	18.37	0.0845	0.9518
		240	50	18.45	0.0819	0.9445
7	BOS2.TE.520	220	50	18.14	0.0868	0.9563
		230	50	18.18	0.0839	0.9495
		240	50	18.27	0.0813	0.9410
8	BOS2.TE.520	220	50	18.45	0.0881	0.9576
		230	50	18.54	0.0851	0.9516
		240	50	18.63	0.0826	0.9445
9	BOS2.TE.520	220	50	18.27	0.0877	0.9550
		230	50	18.29	0.0845	0.9470
		240	50	18.36	0.0820	0.9399

10	BOS2.TE.520	220	50	18.11	0.0871	0.9537
		230	50	18.18	0.0841	0.9474
		240	50	18.27	0.0816	0.9413

Markings

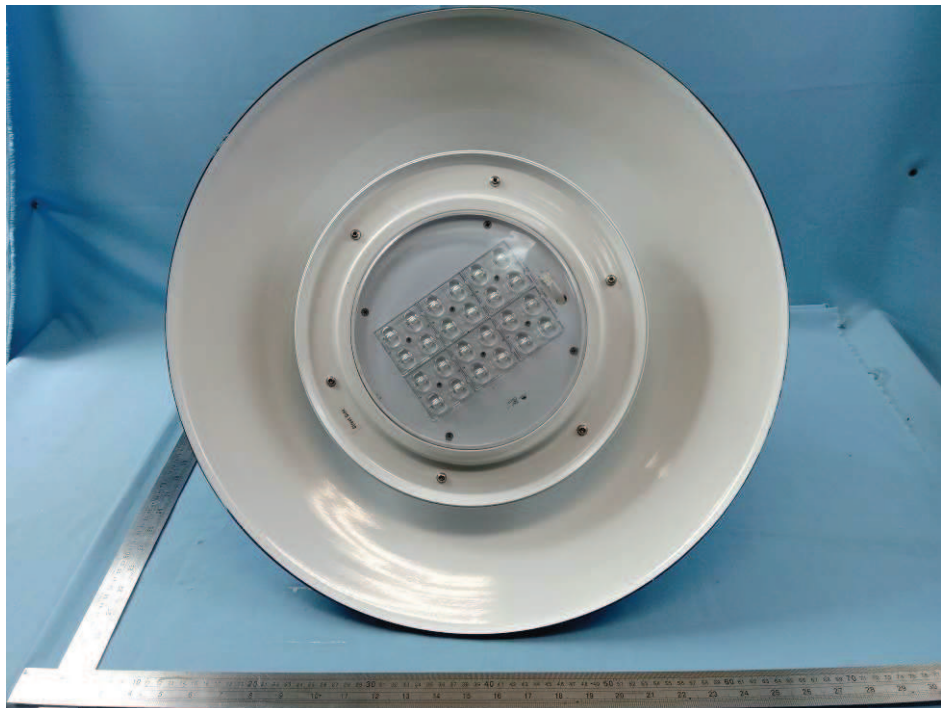


Rating Label

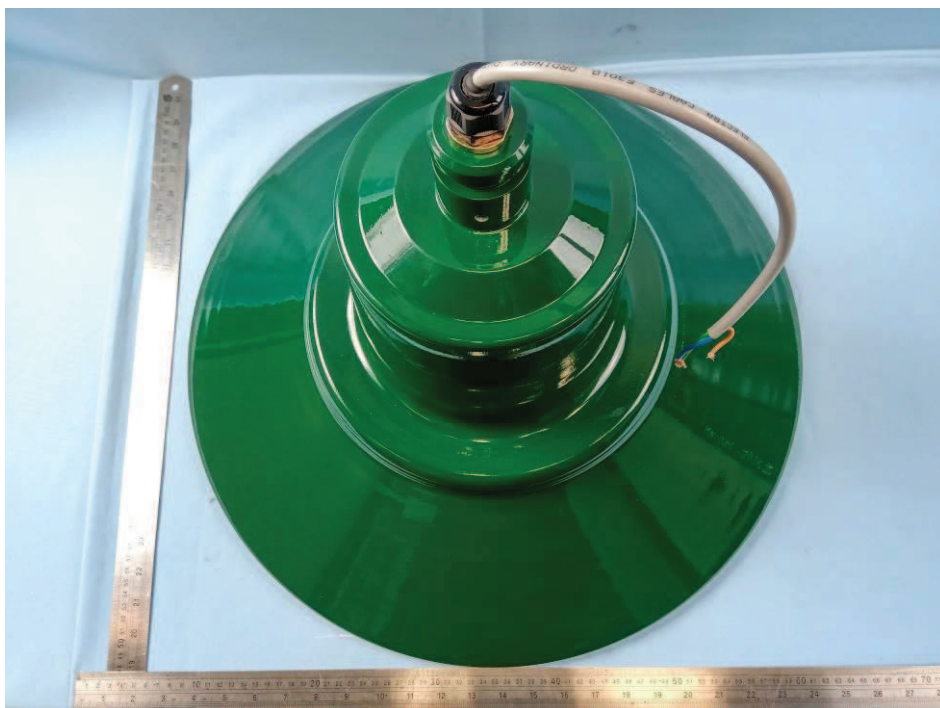


LED Driver Label

Photos



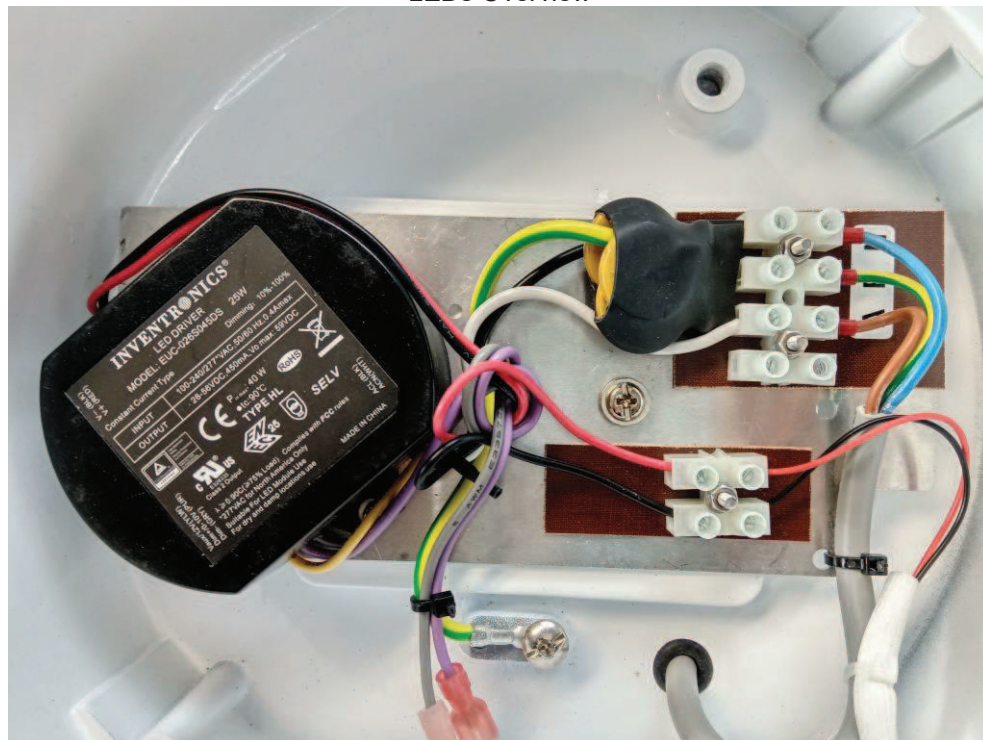
Front View



Bottom View



LEDs Overview



Electrical connection compartment

End of the Test Report