

<b>Test Report No.:</b> <i>Prüfbericht - Nr.:</i>		<b>50163130 001</b>		<b>Page 1 of 7</b> Seite 1 von 7	
<b>Client:</b> <i>Auftraggeber:</i>		<b>Aldridge Traffic Systems Pty Ltd</b> 12 – 14 Leeds Street, Rhodes, NSW 2138, Australia			
<b>Test item:</b> <i>Gegenstand der Prüfung:</i>		<b>LED Street Light</b>			
<b>Identification:</b> <i>Bezeichnung:</i>		<b>FU.L.400W</b>	<b>Serial No.:</b> Serien-Nr.:	<b>N/A</b>	
<b>Receipt No.:</b> <i>Wareneingangs-Nr.:</i>		<b>1113010434</b>	<b>Date of receipt:</b> Eingangsdatum:	<b>2018-07-05</b>	
<b>Condition of test item at delivery:</b> <i>Zustand des Prüfgegenstandes bei Anlieferung:</i>		<b>Production sample</b>			
<b>Testing location:</b> <i>Prüfart:</i>		<b>TÜV Rheinland Australia Pty. Ltd.</b> 182 Dougharty Road, Heidelberg West, VIC 3081, Australia			
<b>Test specification:</b> <i>Prüfgrundlage:</i>		-			
<b>Test Result:</b> <i>Prüfergebnis:</i>		<b>The item was supplied for results only with no compliance limits.</b> Das Objekt wurde nur für Ergebnisse geliefert, ohne Konformitätsgrenzen.			
<b>Testing Laboratory/</b> <i>Prüflaboratorium:</i>		<b>TÜV Rheinland Australia Pty. Ltd.</b> 182 Dougharty Road, Heidelberg West, VIC 3081, Australia			
<b>Compiled by/ zusammengestellt:</b>			<b>Reviewed by/kontrolliert:</b>		
<i>11-Jul-2018</i>	Daniel Ngo/ Project Engineer		<i>11-Jul-2018</i>	Grant Li/ Reviewer	
<i>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
<b>Other Aspects/ Sonstiges:</b>					
- Power consumption measurement at rated voltage for AEMO (Australian Energy Market Operator) at lab condition (Ambient (20±5)°C, Relative Humidity (45–75)%).					
<b>Abkürzungen:</b>			<b>Abbreviations:</b>		
P(ass) = entspricht Prüfgrundlage			P(ass) = passed		
F(ail) = entspricht nicht Prüfgrundlage			F(ail) = failed		
N/A = nicht anwendbar			N/A = not applicable		
N/T = nicht getestet			N/T = not tested		
<b>This test report 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 safety mark on this or similar products.</b>					
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.					

Revision 5.0

Accredited for compliance  
with ISO/IEC 17025  
Technical Competence



<b>Test Report</b>																				
<p><b>General remarks:</b></p> <ol style="list-style-type: none"> <li>1. This report shall not be reproduced, except in full.</li> <li>2. Details in test data / test plan no. 1113010434.</li> <li>3. Reporting of results herein is in accordance with NATA recommendations taking into account U of M.                             <ol style="list-style-type: none"> <li>(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.</li> <li>(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.</li> </ol> </li> <li>4. For reporting of results the estimated uncertainty for measurement taken into account at 95% confidence level.</li> <li>5. This test report is based on assessment and tests applied to the specific test item(s) as submitted by the client.</li> <li>6. TÜV Rheinland Australia disclaims any and all responsibility or obligation for any other item.</li> <li>7. LCP test was conducted on 10 fittings per requested schemes.</li> </ol>																				
<p><b>Description of the test item:</b></p> <p>Test items are branded: <b>Aldridge Traffic Systems Pty Ltd</b></p> <p>Model / type number: <b>FU.L.400W</b>; Rating: 240VAC 50/60Hz 400W, IP66, IK09, Class I. Lamp control gears: Mean Well; Model Number: ELG-240-42A; Input: 100-240VAC 2.2A 50/60Hz, <math>\lambda = 0.95</math>; Output: 42VDC, 5.71A 239.82W (Input: 200-240VAC), 4.28A 179.76W (Input: 100-200VAC); Rating: <math>t_a</math>: 50°C <math>t_c</math>: 90°C, IP65.</p>																				
<p><b>Options/accessories/ancillary equipment:</b></p> <p>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.</p>																				
<p><b>Uncertainty of equipment used:</b></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 15%;">Equipment</th> <th style="width: 15%;">Equipment No.</th> <th style="width: 20%;">Range used</th> <th style="width: 15%;">Uncertainty (%)</th> <th style="width: 35%;">Calibration Due Date</th> </tr> </thead> <tbody> <tr> <td rowspan="4" style="vertical-align: top;">Digital Power Meter  Model: WT310</td> <td rowspan="4" style="vertical-align: middle; text-align: center;">MEL-1464</td> <td>Voltage: 1.5V-600V</td> <td style="text-align: center;">±0.4</td> <td rowspan="4" style="vertical-align: middle; text-align: center;">11-Oct-2018</td> </tr> <tr> <td>Current: 20A</td> <td style="text-align: center;">±0.5</td> </tr> <tr> <td>Power: 100W</td> <td style="text-align: center;">±0.5</td> </tr> <tr> <td>Power Factor: 0.8 - 1</td> <td style="text-align: center;">±0.8</td> </tr> </tbody> </table>					Equipment	Equipment No.	Range used	Uncertainty (%)	Calibration Due Date	Digital Power Meter  Model: WT310	MEL-1464	Voltage: 1.5V-600V	±0.4	11-Oct-2018	Current: 20A	±0.5	Power: 100W	±0.5	Power Factor: 0.8 - 1	±0.8
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<p><b>Test procedure:</b></p> <p>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.</p> <p>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.</p>																				

	Test Item	Supplied Voltage (V)	Frequency (Hz)	Measured Power (W)	Measured Current (A)	Power Factor
1	<b>FU.L.400W</b> 240VAC	220	50	380.41	1.7624	0.9810
		230	50	380.10	1.6878	0.9791
		240	50	379.73	1.6193	0.9769
2	<b>FU.L.400W</b> 240VAC	220	50	385.73	1.7877	0.9806
		230	50	385.52	1.7125	0.9788
		240	50	385.40	1.6440	0.9768
3	<b>FU.L.400W</b> 240VAC	220	50	382.80	1.7735	0.9808
		230	50	382.06	1.6971	0.9798
		240	50	381.69	1.6285	0.9767
4	<b>FU.L.400W</b> 240VAC	220	50	370.51	1.7189	0.9799
		230	50	370.37	1.6460	0.9782
		240	50	370.45	1.5816	0.9761
5	<b>FU.L.400W</b> 240VAC	220	50	387.78	1.7959	0.9815
		230	50	387.30	1.7188	0.9796
		240	50	386.90	1.6491	0.9774
6	<b>FU.L.400W</b> 240VAC	220	50	388.63	1.8000	0.9812
		230	50	388.20	1.7233	0.9793
		240	50	387.83	1.6536	0.9772
7	<b>FU.L.400W</b> 240VAC	220	50	386.46	1.7907	0.9810
		230	50	386.24	1.7150	0.9791
		240	50	386.15	1.6462	0.9770
8	<b>FU.L.400W</b> 240VAC	220	50	396.88	1.8365	0.9822
		230	50	395.91	1.7559	0.9804
		240	50	395.46	1.6839	0.9783
9	<b>FU.L.400W</b> 240VAC	220	50	382.98	1.7760	0.9802
		230	50	382.70	1.7010	0.9784
		240	50	382.56	1.6327	0.9764

10	<b>FU.L.400W</b> 240VAC	220	50	382.67	1.7727	0.9808
		230	50	382.25	1.6971	0.9790
		240	50	381.90	1.6284	0.9769

**Marking**



Rating Label



LED Drivers Label

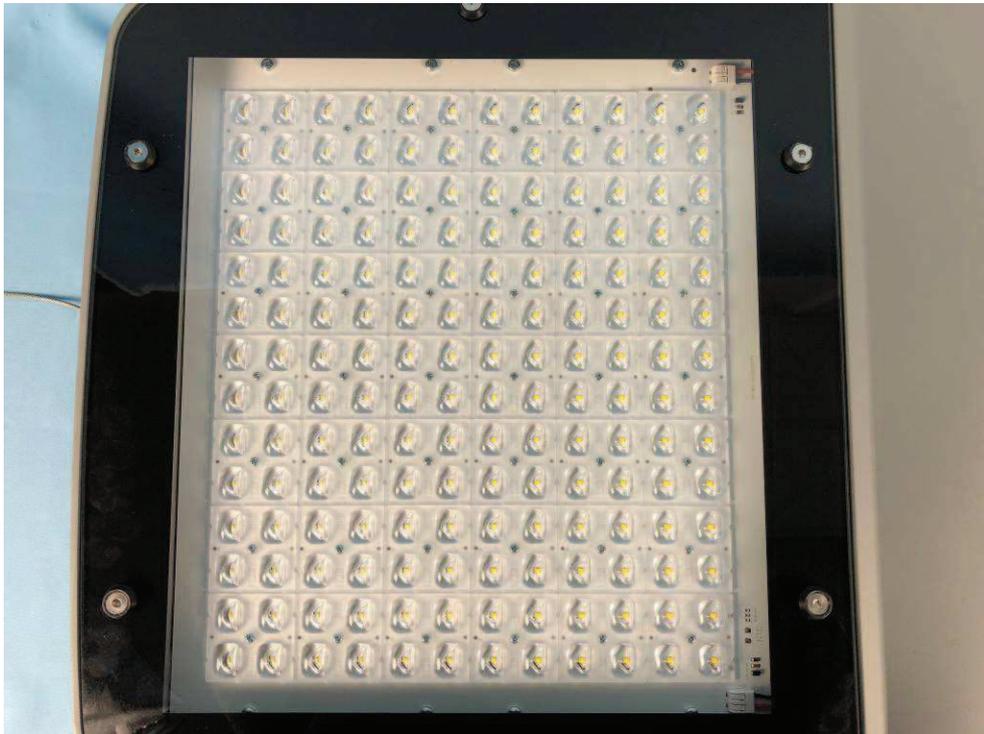
**Photos**



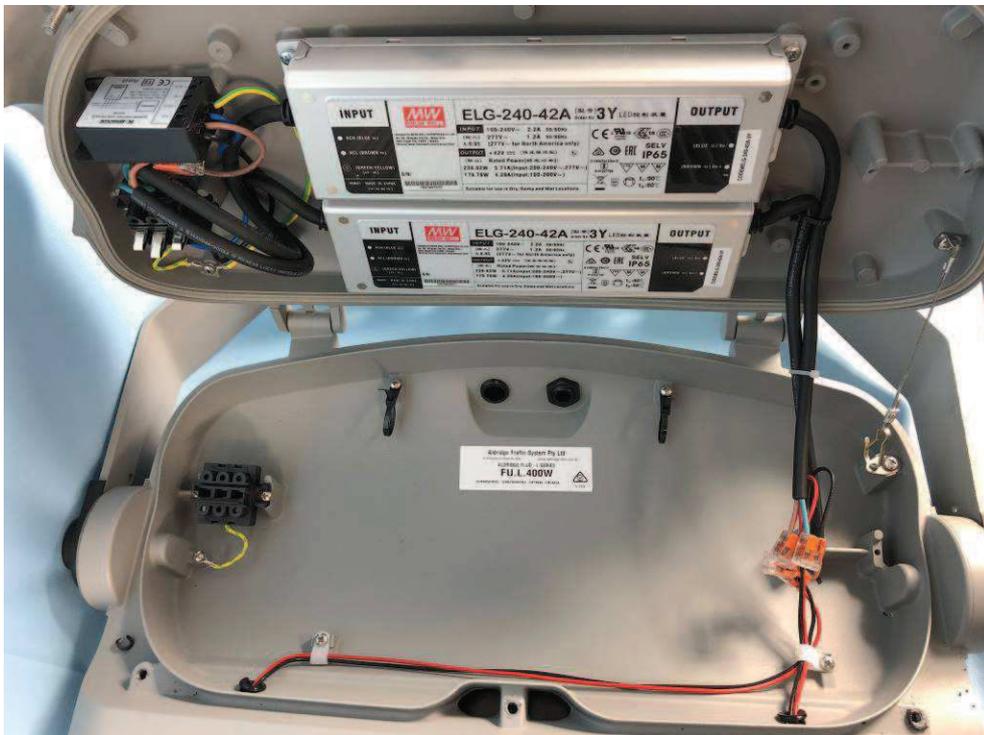
Back View



Front View



LEDs Overview



Control Gear Compartment  
End of the Test Report