

Test Report No.: <i>Prüfbericht-Nr.:</i>	50289040 001	Order No.: <i>Auftrags-Nr.:</i>	252100499	Page 1 of 8 <i>Seite 1 von 8</i>	
Client Reference No.: <i>Kunden-Referenz-Nr.:</i>	622061	Order date: <i>Auftragsdatum:</i>	30-Aug-2019		
Client: <i>Auftraggeber:</i>	Aldridge Traffic Systems P/L 12-14 Leeds St, Rhodes, NSW 2138, Australia				
Test item: <i>Prüfgegenstand:</i>	Floodlight				
Identification / Type No.: <i>Bezeichnung / Typ-Nr.:</i>	FU.M.240W				
Test specification: <i>Prüfgrundlage:</i>	Refer to page 2				
Date of receipt: <i>Wareneingangsdatum:</i>	30-Aug-2019				
Test sample No.: <i>Prüfmuster-Nr.:</i>	A000987036-001 to A000987036-010				
Testing period: <i>Prüfzeitraum:</i>	30-Aug-2019 to 06-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:				
06-Sep-2019	Yang Jiang / Test Engineer		06-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. 252100499.
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: **FU.M.240W**; Rating: 240VAC, 50/60Hz, IP66, IK 09. Lamp control gear: Mean Well; Model Number: HLG-240H-54B; Input: 100-240VAC, 4.0A, 50/60Hz; Output: 54VDC 4.45A; Rating: t_a : 50°C, t_c : 90°C, IP67.

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: 2A	±0.20	
		Power: 460W	±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	FU.M.240W	220	50	242.40	1.118	0.9849
		230	50	241.80	1.073	0.9820
		240	50	241.30	1.027	0.9802
2	FU.M.240W	220	50	244.10	1.128	0.9853
		230	50	244.10	1.081	0.9826
		240	50	244.30	1.040	0.9814
3	FU.M.240W	220	50	243.30	1.126	0.9840
		230	50	242.70	1.076	0.9826
		240	50	241.90	1.030	0.9806
4	FU.M.240W	220	50	246.90	1.142	0.9849
		230	50	246.60	1.092	0.9834
		240	50	247.00	1.053	0.9795
5	FU.M.240W	220	50	247.25	1.141	0.9862
		230	50	246.89	1.095	0.9829
		240	50	246.68	1.050	0.9806
6	FU.M.240W	220	50	245.80	1.133	0.9858
		230	50	245.80	1.090	0.9827
		240	50	246.10	1.049	0.9809
7	FU.M.240W	220	50	245.40	1.129	0.9893
		230	50	244.80	1.079	0.9883
		240	50	243.70	1.031	0.9857
8	FU.M.240W	220	50	246.00	1.137	0.9852
		230	50	247.30	1.094	0.9832
		240	50	246.90	1.052	0.9796
9	FU.M.240W	220	50	245.70	1.137	0.9842
		230	50	244.90	1.086	0.9829
		240	50	244.00	1.039	0.9811

10	FU.M.240W	220	50	245.15	1.131	0.9846
		230	50	245.03	1.086	0.9831
		240	50	245.57	1.047	0.9797

Marking



Rating Label



LED Driver Label

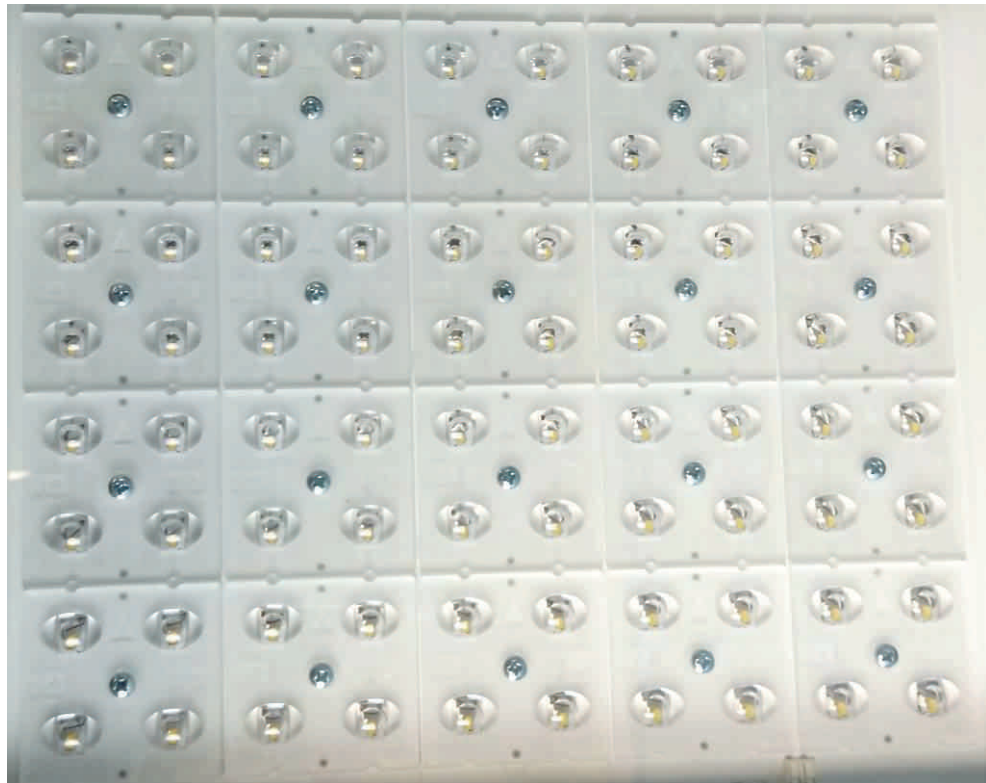
Photos



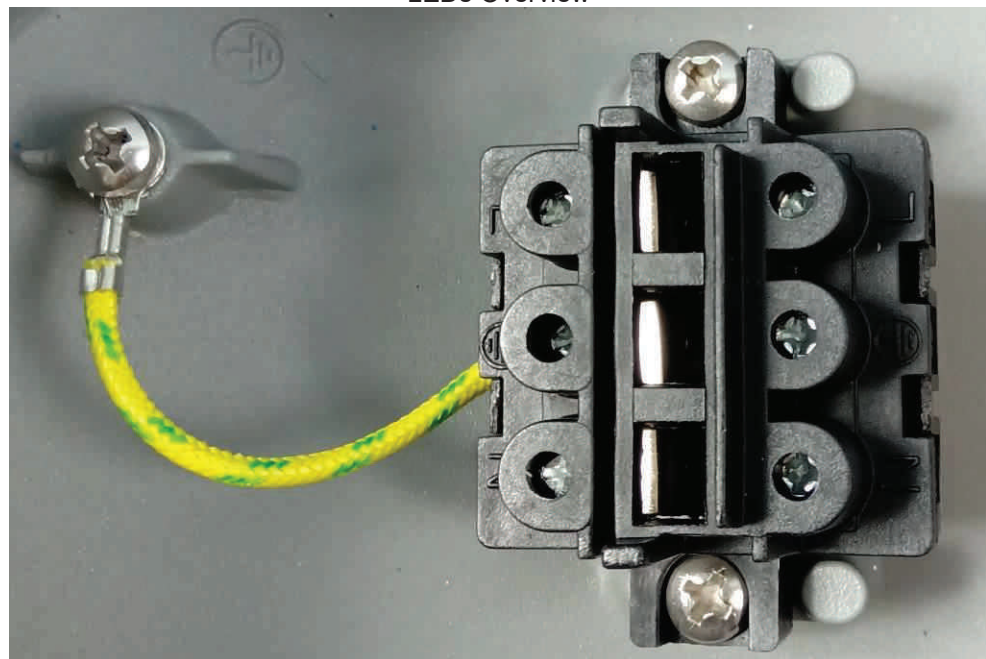
Front View



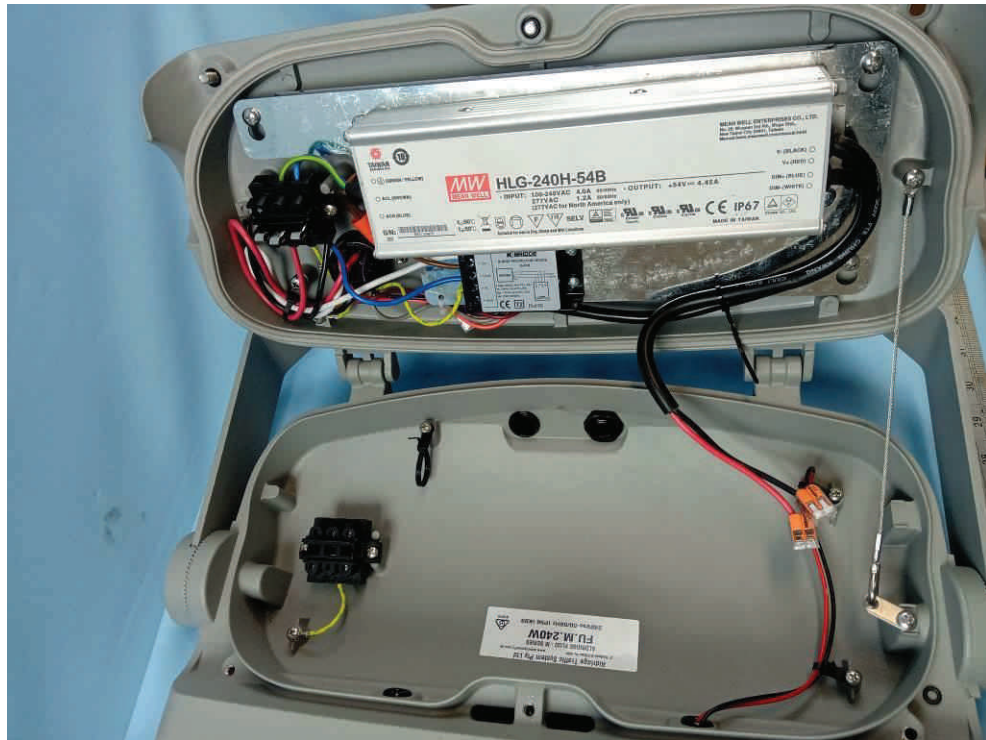
Back View



LEDs Overview



Electrical connection compartment



Internal construction



Shorting Cap
End of the Test Report