Test Report No.: *Prüfbericht-Nr.:*	**50318259 001**	**Order No.:** *Auftrags-Nr.:*	**252100668**	**Page 1 of 7** *Seite 1 von 7*
Client Reference No.: *Kunden-Referenz-Nr.:*	**622061**	**Order date:** *Auftragsdatum:*	**26-Nov-2019**	
Client: *Auftraggeber:*	**Aldridge Traffic Systems P/L** 12-14 Leeds St, Rhodes, NSW 2138, Australia			
Test item: *Prüfgegenstand:*	**LED street light**			
Identification / Type No.: *Bezeichnung / Typ-Nr.:*	**BER510**			
Test specification: *Prüfgrundlage:*	**Refer to page 2**			

Date of receipt: *Wareneingangsdatum:*	**26-Nov-2019**
Test sample No.: *Prüfmuster-Nr.:*	**A001043049-001 to A001043049-010**
Testing period: *Prüfzeitraum:*	**03-Dec-2019 to 10-Dec-2019**
Place of testing: *Ort der Prüfung:*	**TUV Rheinland Australia Pty Ltd**
Testing laboratory: *Prüflaboratorium:*	**TUV Rheinland Australia Pty Ltd**
Test result*: *Prüfergebnis*:*	**Samples were submitted for measurement only, no compliance limits**

Detailed photo documentation
See photo document section of this report

Detaillierte Fotodokumentation
Siehe Fotodokument dieses Berichts

tested by / *geprüft von*:

Date *Datum*	**Name / Position** *Name / Stellung*	**Signature** *Unterschrift*
19-Dec-2019	Sathvik Varma P. / Test Engineer	

reviewed by / *kontrolliert von*:

Date *Datum*	**Name / Position** *Name / Stellung*	**Signature** *Unterschrift*
19-Dec-2019	Daniel Ngo / Reviewer	

Other / *Sonstiges*:

- Power consumption measurement at rated voltage for AEMO (Australian Energy Market Operator) at lab condition (Ambient (20±5)ºC, Relative Humidity (45–75)%).

Condition of the test item at delivery:
Zustand des Prüfgegenstandes bei Anlieferung: **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*

Test Report

General remarks:

1. This report shall not be reproduced, except in full.
2. Details in test data / test plan no. 252100668.
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 Pty Ltd**

Model / type number: **BER510**; Rating: 230Vac 50 Hz 0.077A 17W CCT=4200K. Lamp control gear: Mean Well; Model Number: LPF-16D-36; Input: 100-240VAC, 50/60Hz, 0.4A; Output: +36VDC, 0.45A; Rated Power: 16.2W, t_c: 70°C, t_a: 50°C, IP30, Class II.

Uncertainty of equipment used:

Equipment	Equipment No.	Range used	Uncertainty (%)	Calibration Due Date
Digital Power Meter Model: WT210	MEL-1400	Voltage: 230V	±0.10	15-Jan-2020
		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.

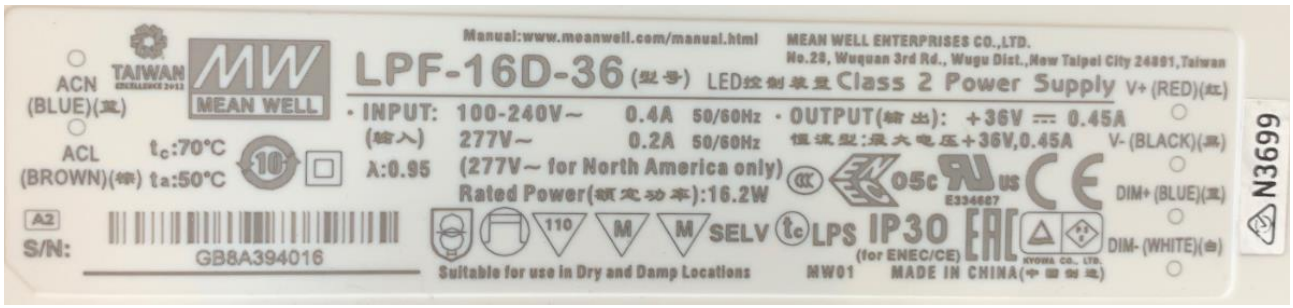
The test samples were connected to the power source and supplied with voltage and frequency as listed in “TABLE: Power Measurement”. The test samples were operated until the conditions of overall temperature equilibrium were established or at least 4 hours in stabilized operation with the supplied sources. 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	**BER510**	220	50	19.10	0.089	0.9734
		230	50	19.10	0.086	0.9687
		240	50	19.20	0.083	0.9613
2	**BER510**	220	50	18.90	0.088	0.9738
		230	50	18.90	0.085	0.9684
		240	50	19.00	0.082	0.9596
3	**BER510**	220	50	19.10	0.089	0.9741
		230	50	19.20	0.086	0.9688
		240	50	19.20	0.086	0.9644
4	**BER510**	220	50	18.60	0.087	0.9732
		230	50	18.70	0.084	0.9683
		240	50	18.80	0.081	0.9600
5	**BER510**	220	50	19.00	0.089	0.9734
		230	50	19.10	0.086	0.9673
		240	50	19.10	0.083	0.9619
6	**BER510**	220	50	19.10	0.089	0.9705
		230	50	19.20	0.087	0.9601
		240	50	19.20	0.083	0.9600
7	**BER510**	220	50	19.20	0.090	0.9704
		230	50	19.30	0.087	0.9595
		240	50	19.40	0.084	0.9595
8	**BER510**	220	50	19.30	0.090	0.9713
		230	50	19.40	0.088	0.9604
		240	50	19.50	0.084	0.9616
9	**BER510**	220	50	19.00	0.089	0.9698
		230	50	19.00	0.086	0.9600
		240	50	19.10	0.083	0.9585

10	**BER510**	220	50	19.20	0.090	0.9703
		230	50	19.30	0.087	0.9627
		240	50	19.30	0.084	0.9592

Markings

Rating Label

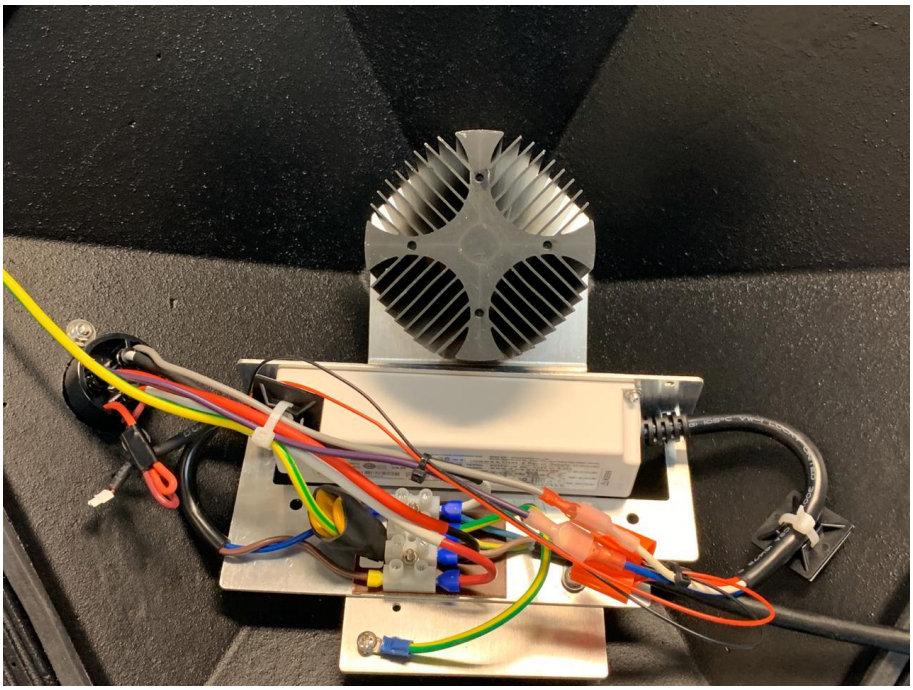


LED Driver Label

Photos

Overview View

LEDs Overview



Electrical Connection Compartment

PE Cell

End of the Test Report