14 Nelson Street, Chatswood, NSW 2067 PO Box 841, Artarmon, NSW 2064, Australia Facsimile: 61 (02) 9415 1567 Telephone: 61 (02) 9410 5134

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# TEST REPORT 44488.1

E-mail COPY

# POWER CONSUMPTION TESTS

#### SUBJECT

ALDRIDGE LED Type Traffic Lanterns, Models: RA983, RA983A, RA453. RA453A and RL452

### **CLIENT**

Roads and Traffic Authority

Address: 85 Flushcombe Road (PO Box 558, Blacktown N.S.W. 2148)

Signed quotation No.: 04035564 Date of quote: 24 March 2004

Attention: Mr. Bale Kuzmanovski

### NATURE OF TEST

Test all five models of traffic lanterns for power consumption at nominated voltages of 184V, 216V, 230V and 253V.

## SUMMARY OF RESULTS

See Results.

## DATE OF COMPLETION OF TESTS

30 March 2004

## DATE OF ISSUE

22 April 2004

APPROVED SIGNATORY Robert L. Tulloch



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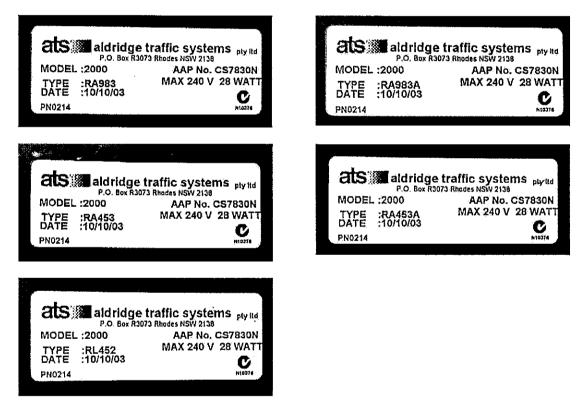
## DESCRIPTION

Class I, 3 x 300 mm and 3 x 200 mm diam. traffic lanterns and a 2 x 200 mm pedestrian lantern, each having multiple LED lamps and associated extra-low voltage transformers. The units were made up of a main aluminium enclosure with thermoplastic, hinged, clip-in LED assemblies and lenses which were sealed to the enclosures with elastomer gaskets.

## MEANS OF CONNECTION

Leads for connection to terminals of a traffic control system.

## MARKING DETAILS



#### SELECTION OF SAMPLES

The test samples were selected and delivered to the laboratory by the Client.

#### LABORATORY IDENTIFICATION OF SAMPLES

Adhesive labels bearing number 44488.1 affixed to the samples.



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#### **DATE SAMPLES RECEIVED**

21 December 2003

### RESULTS

## Power Consumption

Model:	Lens Colour	Meas'd Power (W)	Applied Voltage (V)	Meas'd Power (W)	Applied Voltage (V)	Meas'd Power (W)	Applied Voltage (V)	Meas'd Power (W)	Applied Voltage (V)
RA983	Red	9.273	184.07	14.811	216.03	17.414	230.00	20.161	253.03
	Amber	12.694	184.06	22.083	216.01	25.976	230.03	29.904	253.09
	Green	8.130	184.07	15.302	216.02	17.891	230.06	20.571	253.03
RA983A	Red	4.321	184.07	6.782	216.02	7.943	230.00	9.356	253.04
	Amber	4.444	184.08	6.942	216.05	8.208	230.01	9.678	253.05
	Green	5.890	184.08	9.271	216.04	10.871	230.00	12.697	253.03
RA453	Red	5.135	184.07	8.050	216.03	9.398	230.06	10.942	253.01
	Amber	8.291	184.06	13.063	216.01	15.256	230.05	17.510	253.01
	Green	6.603	184.07	11.062	216.03	12.917	229.99	14.906	253.03
RA453A	Red	3.614	184.06	5.647	216.02	6.627	229.99	7.867	253.03
	Amber	3.664	184.07	5.755	216.03	6.763	230.00	8.966	253.03
	Green	4.643	184.07	7.249	216.03	8.454	230.00	9.872	253.03
DI 450	Red	3.730	184.04	5.792	216.01	6.771	230.05	7.992	253.01
RL452	Green	4.909	184.05	7.603	216.01	8.854	230.00	10.466	253.00

#### Measurement Uncertainty:

The estimated uncertainties at a 95% confidence level are:

1. Measured voltage ±0.16 %.

2. Measured power ±0.25 %.



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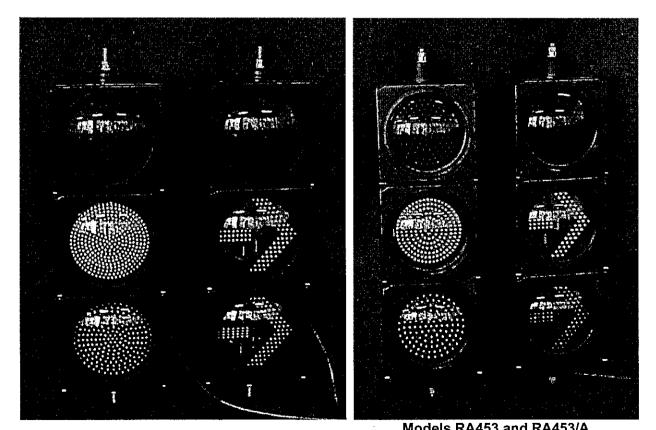


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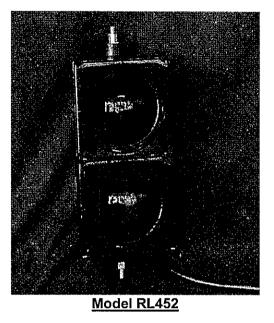
This laborate the samples tested.

Test Report 44488.1

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