



Test Report

Report No : L14441
Client: : Fisher and Company Engineering Services Ltd
2-4 Cary Court
Somerton Business Park
Somerton, Somerset, TA11 6SB
Description : Illuminated Refuge Beacon Conversion Unit
Manufacturer : Not Disclosed
Type/Model : IRB-CV
Test Specification : Measurement of power consumption in accordance with the
"Unmetered Supplies Operational Information" document –
Version 13.0 (7/11/13)
Date Tested : 08/08/14
Conclusion : Refer to body of Report
Date of Issue : 22/08/14
Date of Expiry : 21/08/19

Tested by: C.LOVEITT
Position: Laboratory Technician

Approved by: T.MALIK
Position: Quality Accreditation &
Certification Officer



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These test results relate only to the unit(s) tested. This Report and any subsequent report(s) may not be reproduced except in full without the written approval of the Testing Laboratory.



INTRODUCTION

Fisher and Company Engineering Services Ltd has supplied the product identified in table 1 for measurement of power consumption in accordance with the "Unmetered Supplies Operational Information" document – Version 13.0 (7/11/13).

PRODUCT DETAILS

Table 1. Test Sample Details

Product Description	Illuminated Refuge Beacon Conversion Unit
Model No.	IRB-CV
Number of Samples	Five
Condition on Receipt	Good
Product Supply Requirement	240V 50Hz
Lamp Type and Power	LED 27W
Sampling Method: Test samples selected and supplied by client, no sampling method specified by client.	

RESULTS

Table 2. Wattage and VA results for Illuminated Refuge Beacon Conversion Unit

Watts	100%				
Voltage	Sample Number				
	1	2	3	4	5
210	34.23	34.28	34.16	34.15	33.86
220	34.27	34.35	34.27	34.15	33.89
230	34.25	34.41	34.39	34.23	33.99
240	34.26	34.52	34.52	34.33	34.08
250	34.37	34.68	34.69	34.46	34.24

VA					
Voltage	Sample Number				
	1	2	3	4	5
210	44.66	43.56	43.42	44.92	44.92
220	45.41	42.72	43.48	44.84	44.96
230	44.79	43.00	43.73	45.49	44.63
240	45.14	43.45	43.76	45.79	45.53
250	47.06	43.93	44.74	46.18	46.05

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This page is to be read in conjunction with the first page of this report

DEVIATION(S) FROM TEST STANDARD

No reported deviations from test standard.

MEASUREMENT UNCERTAINTY

The following expanded uncertainties apply to the measurements shown in the results;

Apparent Power (W): $\pm 0.69\%$, True Power (VA): $\pm 0.61\%$

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

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ILLUSTRATION

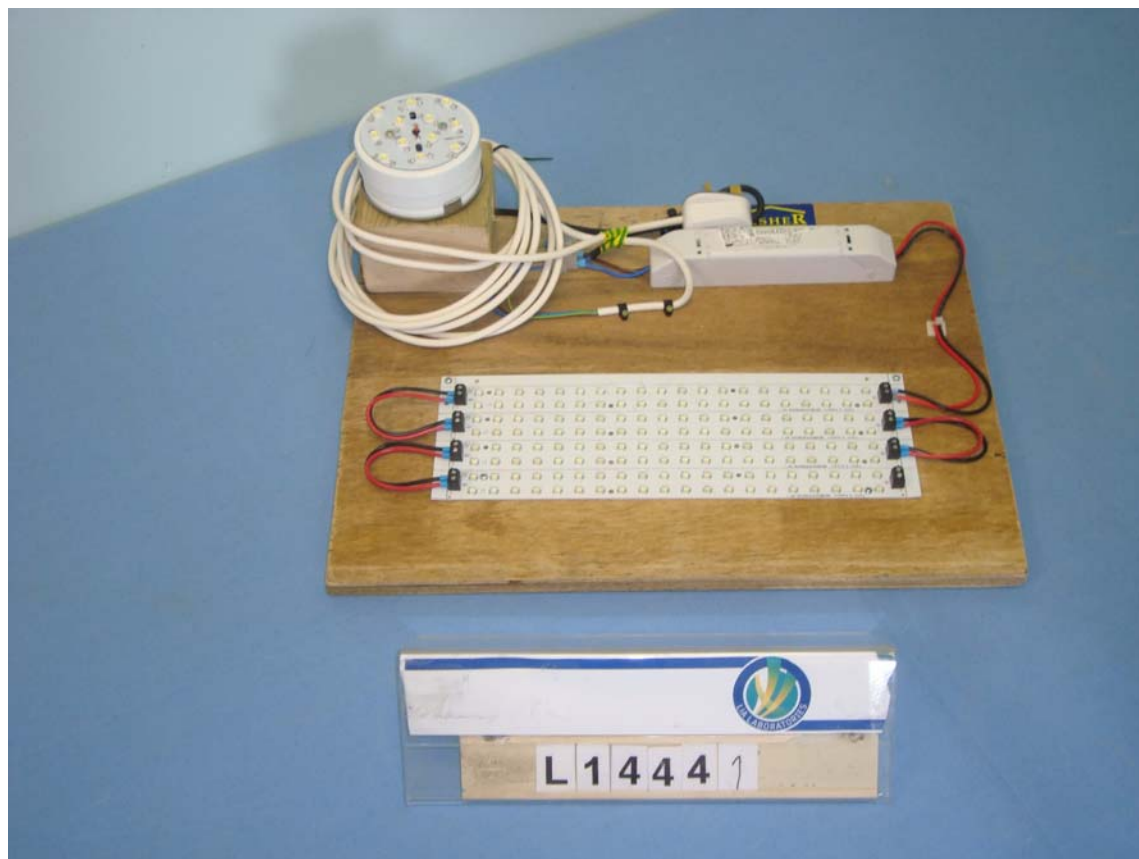


Figure 1. *Image of tested samples*

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