



Test Report

Report No : L14757
Client: : Fisher and Company Engineering Services Ltd
2-4 Cary Court
Somerton Business Park
Somerton, Somerset, TA11 6SB
Description : 12W LED Refuge Beacon
Manufacturer : Not Disclosed
Type/Model : LED3NF
Test Specification : Measurement of power consumption in accordance with the
"Unmetered Supplies Operational Information" document –
Version 13.0 (7/11/13)
Date Tested : 16/12/14
Conclusion : Refer to body of Report
Date of Issue : 17/12/14
Date of Expiry : 16/12/19

Tested by: C.LOVEITT
Position: Laboratory Technician

Approved by: J.ADAMS
Position: Laboratory Supervisor



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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	12W LED Refuge Beacon
Model No.	LED3NF
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	Not Applicable
Product Supply Requirement	240V 50Hz
Lamp Type and Power	LED 30W
Sampling Method: Test samples selected and supplied by client, no sampling method specified by client.	

RESULTS

Table 2. Wattage and VA results for

Operating Mode	100%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	12.93	12.55	13.14	13.60	13.00
220	12.98	12.60	13.23	13.69	13.07
230	13.02	12.65	13.32	13.79	13.16
240	13.09	12.72	13.40	13.87	13.25
250	13.20	12.81	13.50	13.98	13.35
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	30.55	30.31	30.42	33.35	32.95
220	30.13	29.86	30.08	32.25	31.75
230	30.39	30.08	30.45	31.12	30.52
240	29.54	29.19	29.68	32.01	31.36
250	29.49	29.14	29.61	32.15	31.53

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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;

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