

# UMS SUMMARY TEST REPORT

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ISSUED BY:  
CRANAGE EMC TESTING LIMITED  
STABLE COURT  
OAKLEY  
MARKET DRAYTON  
SHROPSHIRE, TF9 4AG



Report No: **U0032R3** Date of Issue: **28<sup>th</sup> November, 2013**

This document summarises the results of testing to ascertain the appropriate Elexon Charge Codes for inclusion in BSCP520.

Tested & Inspected for: **Easy Energy Solution Ltd.  
Unit C Parkway Point  
224 Springhill  
Parkway  
Glasgow Business Park  
Baillieston  
Glasgow  
G69 6GA.**

Test Dates: **28<sup>th</sup> November, 2013**  
Receipt Date of Test Item: **27<sup>th</sup> November, 2013**

## **Sample 1**

Test Item Description: **157W LED Street Lighting**  
Model Number: **RL2R1070**  
Serial Number: **A31081307250001B**

## **Sample 2**

Test Item Description: **157W LED Street Lighting**  
Model Number: **RL2R1070**  
Serial Number: **A31081307250116B**

## **Sample 3**

Test Item Description: **157W LED Street Lighting**  
Model Number: **RL2R1070**  
Serial Number: **A31081307250016B**

## **Sample 4**

Test Item Description: **157W LED Street Lighting**  
Model Number: **RL2R1070**  
Serial Number: **A31081307250007B**

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## **Sample 5**

Test Item Description: **157W LED Street Lighting**  
Model Number: **RL2R1070**  
Serial Number: **A31081307250010B**

Approved Signatories: K.G. Richens - Technical Director

Handwritten signature of K.G. Richens in black ink.

APPROVED SIGNATORY

Verification Signatories: R. Flynn - Test Engineer

Handwritten signature of R. Flynn in black ink.

VERIFICATION SIGNATORY

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Mode of Operation: The test item was powered 'On' and gave a constant 100% light output. A photograph showing the test item can be found on page 4. Figures rounded to 1 D.P.

Test Condition: - 30 minutes stabilisation period given prior to measurements. Measurements were subsequently taken after 5 minutes at each voltage level. This was found to be an adequate time window for the purpose of the test measurements.

| Watts          |            |          |          |          |          |
|----------------|------------|----------|----------|----------|----------|
| Voltage (Vrms) | Sample No. |          |          |          |          |
|                | Sample 1   | Sample 2 | Sample 3 | Sample 4 | Sample 5 |
| 210            | 153.8      | 151.4    | 151.7    | 152.7    | 152.7    |
| 220            | 153.7      | 151.3    | 151.7    | 152.6    | 152.6    |
| 230            | 153.6      | 151.3    | 151.7    | 152.6    | 152.5    |
| 240            | 153.5      | 151.3    | 151.6    | 152.6    | 152.5    |
| 250            | 153.5      | 151.3    | 151.6    | 152.6    | 152.5    |

| VA             |            |          |          |          |          |
|----------------|------------|----------|----------|----------|----------|
| Voltage (Vrms) | Sample No. |          |          |          |          |
|                | Sample 1   | Sample 2 | Sample 3 | Sample 4 | Sample 5 |
| 210            | 156.2      | 153.7    | 154.0    | 155.1    | 155.0    |
| 220            | 156.4      | 154.1    | 154.4    | 155.5    | 155.3    |
| 230            | 156.8      | 154.5    | 154.9    | 155.9    | 155.7    |
| 240            | 157.2      | 154.9    | 155.3    | 156.4    | 156.1    |
| 250            | 157.8      | 155.5    | 155.8    | 156.9    | 156.6    |

Ambient temperature range recorded during test period:  
19.0°C

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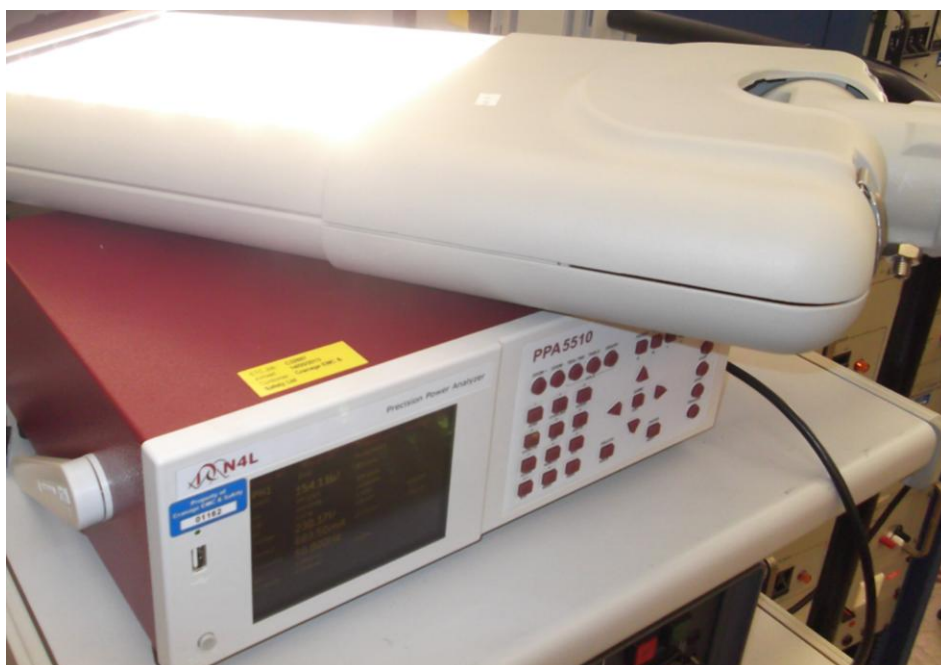


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## Test Equipment

| Asset Number | Description    | Calibration Date | Calibration Due |
|--------------|----------------|------------------|-----------------|
| AN874        | Power Source   | -                | -               |
| AN1162       | Power Analyser | 14/05/2013       | 13/05/2013      |
| AN452        | Timer          | -                | -               |

## Photograph of the Test Item



## Measurement Uncertainty

The 95 % confidence measurement uncertainty for AC Power (Analyser) is 0.17%.