

# UMS SUMMARY TEST REPORT

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



Report No: **U0032R2** 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: **27<sup>th</sup> November, 2013**  
Receipt Date of Test Item: **27<sup>th</sup> November, 2013**

## **Sample 1**

Test Item Description: **30W LED Street Lighting**  
Model Number: **RL2R1014**  
Serial Number: **A30311304220018B**

## **Sample 2**

Test Item Description: **30W LED Street Lighting**  
Model Number: **RL2R1014**  
Serial Number: **A30311304220019B**

## **Sample 3**

Test Item Description: **30W LED Street Lighting**  
Model Number: **RL2R1014**  
Serial Number: **A30311304220003B**

## **Sample 4**

Test Item Description: **30W LED Street Lighting**  
Model Number: **RL2R1014**  
Serial Number: **A30311304220002B**

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## Sample 5

Test Item Description: **30W LED Street Lighting**  
Model Number: **RL2R1014**  
Serial Number: **A30311304220006B**

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            | 35.4       | 35.5     | 35.6     | 35.7     | 36.1     |
| 220            | 35.4       | 35.6     | 35.6     | 35.8     | 36.1     |
| 230            | 35.5       | 35.6     | 35.7     | 35.8     | 36.2     |
| 240            | 35.5       | 35.7     | 35.8     | 35.9     | 36.2     |
| 250            | 35.6       | 35.7     | 35.8     | 35.9     | 36.3     |

| VA             |            |          |          |          |          |
|----------------|------------|----------|----------|----------|----------|
| Voltage (Vrms) | Sample No. |          |          |          |          |
|                | Sample 1   | Sample 2 | Sample 3 | Sample 4 | Sample 5 |
| 210            | 37.8       | 37.9     | 37.9     | 38.1     | 38.4     |
| 220            | 38.2       | 38.3     | 38.4     | 38.6     | 38.8     |
| 230            | 38.7       | 38.8     | 38.9     | 39.1     | 39.3     |
| 240            | 39.3       | 39.4     | 39.5     | 39.7     | 39.9     |
| 250            | 40.0       | 40.0     | 40.1     | 40.3     | 40.5     |

Ambient temperature range recorded during test period:  
19.0°C

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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%.