

## TEST REPORT

**Lucideon Reference:** SH/CS08-9374T

**Project Title:** Light Reflectance Value Measurements on  
1 Lime Plaster samples for  
Lime Green Products Ltd

**Client:** Lime Green  
Coates Kilns  
Stretton Road  
Much Wenlock  
Shropshire  
TF13 6DG

**For the Attention of:** James Ayres

**Date Logged:** 5<sup>th</sup> July 2024

**Date Tested:** 5<sup>th</sup> July 2024

**Report Date:** 8<sup>th</sup> July 2024

**Purchase Order Nos:** P.O 0008998

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**Work Location:** Lucideon UK

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Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation.



Sean Hillman  
Colour Standards Laboratory  
Business Manager

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**Lucideon Reference: SH/CS08-9374T**  
**Material Type: Lime Plaster Samples**  
**Your Reference: P.O 0008998**  
**Date(s) of Test(s): 5<sup>th</sup> July 2024**

## 1 TEST METHOD

The measurements were made on a Datacolor 650 spectrophotometer, an integrating sphere instrument with dual beam architecture and a pulsed xenon light source. It is calibrated using a white standard with values directly traceable to standards at the National Physical Laboratory.

The test procedure follows Lucideon In House Test Method WW22, and complies with the requirements of BS.8493:2008+A1:2010.

Measurements were made in the Specular Included (8°:di) mode with a 30 mm diameter aperture.

The below LRV values for sample number 035/24 are the average of 12 measurements at different points (around the edges and in middle) on each specimen.

## 2 TEST SPECIMENS

These were Lime Plaster Samples

1 specimens of each sample were supplied of each sample.

Lab. No.	Client's Mark	Y <sub>10</sub>	X <sub>10</sub>	y <sub>10</sub>
035/24	Lime Green Solo One Lime Plaster	71.5	0.3254	0.3409

Y<sub>10</sub>X<sub>10</sub>y<sub>10</sub> is the approximate colour identification of the material (the figures are for the individual measurement closest in Y value to the average).

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### 3 RESULTS

The results are given as Light Reflectance Values (Specular Included) in Table 1.

Light Reflectance Value is a value which simplifies the % Reflectance data to one value which represents the overall 'Lightness' - termed the LRV - and LRV is equivalent to CIE Y<sub>10</sub>. This is usually presented as a reading on a scale of 0 (black) to 100 (white).

The LRV is quoted for D65/10°. D65 represents natural light illumination, while 10 degree represents a large area of view.

The results in this Test Report are traceable to the "NPL - 2007" scale.

**Table 1**  
**Light Reflectance Values for Sample 035/24**

Lab. No.	Client's Mark	LRV (D65/10°)						
		Individual Measurements				Mean	Range	Uncertainty
035/24	Lime Green Solo One Lime Plaster	71.01	69.34	70.95	71.70	<b>71.5</b>	4.33	+/- 2.34
		71.80	72.27	73.67	70.59			
		72.16	71.20	71.94	70.78			

**NOTE: The results given in this report apply only to the samples that have been tested.**

**END OF REPORT**