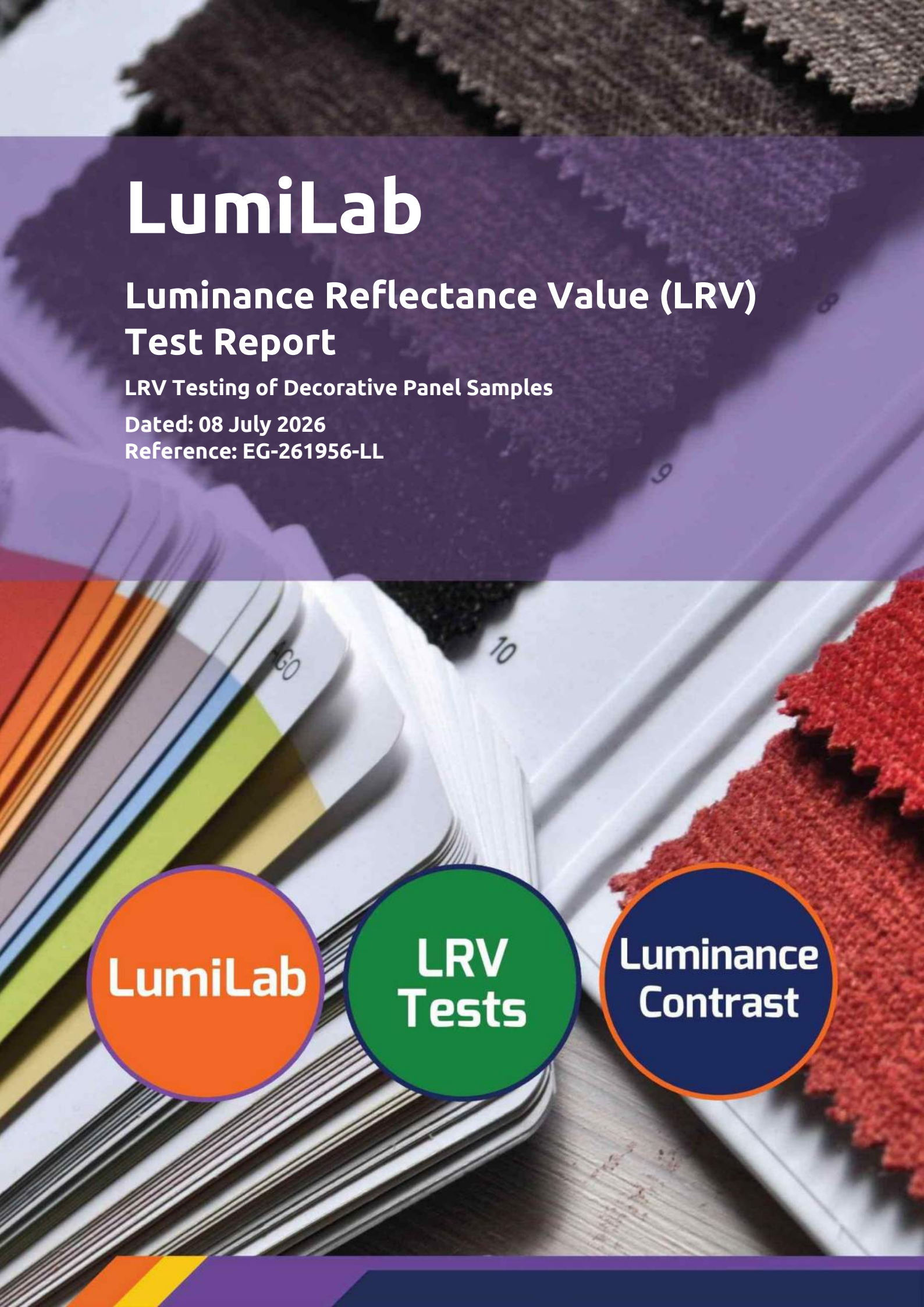
LumiLab

Luminance Reflectance Value (LRV) Test Report

LRV Testing of Decorative Panel Samples

Dated: 08 July 2026
Reference: EG-261956-LL



LumiLab (Egress Group)
Unit 29/89 Lewis Road
Wantirna South VIC 3152

08 July 2026

Tested for: ForestOne

Luminance Reflectance Value (LRV) Test Report

Background

ForestOne has engaged LumiLab to:

- Undertake luminance reflective value testing of the decorative panel samples provided to our office; and
- Prepare a Luminance Reflectance Value (**LRV**) Test Report that presents the test findings.

Description of Samples

Twenty-four (24) different materials were provided, as detailed below:

No.	Colour	Finish	Size (mm)	Quantity
1.	Aluminium Haze	Natural	90x60	5
2.	Banstead Oak	Natural	210x148	1
3.	Battleship	Natural	90x60	5
4.	Caramel Hickory	Drift	210x148	1
5.	Charred Oak	Drift	210x148	1
6.	Cinnamon Walnut	Drift	210x148	1
7.	Classic Oak	Drift	210x148	1
8.	Cocoa	Natural	90x60	5
9.	Coastal Oak	Drift	210x148	1
10.	Canyon Oak	Drift	210x148	1
11.	Deep Space	Stipple	90x60	5
12.	French Grey	Natural	90x60	5
13.	Grigio Linen	Natural	90x60	5
14.	Grand Oak	Drift	210x148	1
15.	Highland Mist	Natural	90x60	5
16.	Lunar Grey	Natural	90x60	5
17.	Mink	Natural	90x60	5
18.	Mocha Walnut	Drift	210x148	1
19.	Pearl White	Natural	90x60	5
20.	Powder Grey	Natural	90x60	5
21.	Prestige Oak	Drift	210x148	1

No.	Colour	Finish	Size (mm)	Quantity
22.	Sheer White	Natural	90x60	5
23.	Urban Oak	Drift	210x148	1
24.	Weathered Ash	Natural	210x148	1

Photos of each sample are provided in Attachment 3.

Technical Reference

This report references the following:

- Appendix B of Australian Standard (AS) 1428.1-2009 'Design for access and mobility, Part 1: General requirements for access – New building work' (**AS 1428.1-2009**)
- Appendix B of Australian Standard (AS) 1428.1-2021 'Design for access and mobility, Part 1: General requirements for access – New building work' (**AS 1428.1-2021**)
- Appendix E of Australian Standard AS/NZS 1428.4.1-2009 'Design for access and mobility, Part 4.1: Means to assist the orientation of people with vision impairment—Tactile ground surface indicators' (**AS/NZS 1428.4.1**)

Laboratory Testing Equipment

LumiLab uses compliant testing apparatus meeting AS 1428.1 Appendix B and AS 1428.4.1 Appendix E requirements:

- Model: Konica Minolta CR-400 tristimulus colorimeter
- Illuminating and viewing system: Diffuse illumination/0<° (d/0) viewing angle, specular component included. Conforms to JIS Z 8722 condition c standard
- Light source: Pulsed xenon lamp
- Measurement time: 1 second
- Minimum measurement interval: 3 seconds
- Measurement/illumination area: ⌀ 8mm
- Observer: 2° Closely matches CIE 1931 Standard Observer
- Illuminant used: CIE Standard Illuminant D65
- Color space and colorimetric data: CIE for Yxy

Testing Methodology

The following is a summary of the laboratory testing methodology, conducted in accordance with the requirements of AS 1428.1, Clause B3.3 and AS/NZS 1428.4.1, Clause E3.3:

- The apparatus was first calibrated according to the manufacturer's instructions.
- The tristimulus value 'Y' (LRV measurements) was taken in five (5) random locations in a dry condition.
- As some surfaces are not uniformly coloured, additional measurements were taken in random locations:
    - A total of 15 measurements for samples 1, 3, 8, 11, 12, 15, 16, 17, 19, and 20
    - A total of 30 measurements for sample 13
    - A total of 40 measurements for samples 2, 4, 5, 6, 7, 9, 10, 14, 18, 21, 23, and 24
- These results are presented in Appendix 2.
- For note, the minimum number of measurements in AS 1428.1 and AS/NZS 1428.4.1 is five (5) only.

Definitions

The following terms are used in this report:

Term	Definition
Luminance contrast	The light reflected from one surface or component, compared to the light reflected from another surface or component.
LRV	Luminance reflective value
Bowman-Sapolinski equation	To determine the luminance contrast between the samples tested, the LRVs are entered into the Bowman-Sapolinski equation: C = 125 (Y2 – Y1)/(Y1 + Y2 + 25), where: C = luminance contrast Y1 and Y2 = LRV of each surface

Testing Conditions

The testing was undertaken under the following conditions:

- Date tested: 08 July 2026
- Consultant: Lee Wilson
- Temperature: 24.8◦c
- Humidity: 34%

LRV Test Results

The following are the test results of the tristimulus value Y (LRV):

No.	Colour	LRV
1.	Aluminium Haze	20.06
2.	Banstead Oak	53.66
3.	Battleship	23.11
4.	Caramel Hickory	25.19
5.	Charred Oak	12.05
6.	Cinnamon Walnut	14.42
7.	Classic Oak	37.84
8.	Cocoa	12.14
9.	Coastal Oak	50.63
10.	Canyon Oak	49.53
11.	Deep Space	4.60
12.	French Grey	37.56

No.	Colour	LRV
13.	Grigio Linen	36.43
14.	Grand Oak	13.44
15.	Highland Mist	47.25
16.	Lunar Grey	10.57
17	Mink	25.67
18.	Mocha Walnut	9.88
19.	Pearl White	82.07
20.	Powder Grey	57.30
21.	Prestige Oak	22.28
22.	Sheer White	86.35
23.	Urban Oak	40.25
24.	Weathered Ash	37.47

The test measurements for each sample are provided in Attachment 2.

Please contact the undersigned to discuss this report.

Yours sincerely,

Lee Wilson, Accredited Access Consultant / Director
CertIV Access, BTech(BuildSurv), GradCert PBBFC, MProjMgt

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Attachment 1: Statement of Limitations

This report has been prepared in accordance with the agreement between the Client and Egress Group Pty Ltd / LumiLab. Within the limitations of the agreed-upon scope of services, this engagement has been undertaken and performed professionally, by generally accepted practices, using a degree of skill and care ordinarily exercised by members of its profession and consulting practice. No other warranty, expressed or implied, is made.

Egress Group Pty Ltd / LumiLab owns the intellectual property outlined in this report. The report shall only be presented in full and may not be used to support any other objective than those set out in the report, except where Egress Group Pty Ltd provides written approval. The report must not be copied, reproduced, adapted, rebranded, modified or altered in any way. The unauthorised use of this report in any form is prohibited.

It is important to note that the material tested is subject to surface variations. The random nature of testing samples with surface variations will result in different results when retested or tested by different parties. Egress Group Pty Ltd / LumiLab cannot be held accountable or responsible for any variations in LRVs across different samples of the same material tested.

LumiLab is not currently accredited by the National Association of Testing Authorities (NATA).

Attachment 2: LRV Test Results Table

No.	Colour	Dry LRV Measurements (Yd)	Mean Dry LRV (Yd)
1.	Aluminium Haze	20.07 20.24 19.96 20.11 20.26 19.93 20.35 19.91 20.02 20.18 19.92 20.20 19.73 20.07 20.01	20.06
2.	Banstead Oak	55.97 54.60 55.77 54.20 48.51 55.94 54.60 54.70 52.93 48.90 57.95 54.38 53.62 51.74 51.94 57.45 55.22 53.42 54.67 48.91 58.22 53.79 54.14 49.87 53.16 57.60 54.00 53.09 47.61 56.33 54.91 55.32 54.63 50.62 56.68 55.19 54.04 47.31 52.59 52.07	53.66
3.	Battleship	22.96 23.25 23.56 23.22 23.08 22.09 23.31 23.32 23.32 23.18 22.03 23.25 23.27 23.71 23.12	23.11
4.	Caramel Hickory	27.46 24.75 24.67 25.74 25.52 25.53 25.72 24.63 24.32 25.41 24.52 26.79 24.06 25.22 25.39 24.25 28.08 24.17 25.30 26.28 23.82 26.53 25.81 25.28 25.61 24.06 25.35 24.39 24.41 25.95 23.34 24.59 24.77 24.66 26.61 22.71 24.88 24.77 26.17 26.24	25.19
5.	Charred Oak	11.90 12.30 11.61 11.21 11.48 12.62 12.91 11.61 11.70 12.34 11.84 12.63 11.55 12.13 12.06 11.41 12.68 11.61 11.23 11.43 12.91 13.07 11.78 11.58 12.74 12.95 13.49 11.75 12.18 11.97 11.55 12.99 13.16 11.53 11.00 11.47 12.01 12.20 11.23 12.24	12.05
6.	Cinnamon Walnut	13.61 15.20 13.91 14.98 13.32 13.51 16.01 13.95 14.89 13.43 13.64 16.04 13.55 14.82 14.18 14.07 14.54 13.15 14.64 14.54 13.32 14.42 13.25 16.04 15.03 14.03 15.05 13.80 14.69 15.63 14.53 14.99 13.90 14.29 15.52 14.28 14.11 14.34 14.74 14.93	14.42

No.	Colour	Dry LRV Measurements (Yd)	Mean Dry LRV (Yd)
7.	Classic Oak	35.92 35.41 38.42 38.22 38.11 36.74 37.11 38.29 38.17 38.26 37.42 37.91 37.57 38.19 37.99 37.06 37.82 38.13 38.30 37.93 36.87 38.28 38.34 37.85 37.91 37.10 38.40 38.40 38.86 37.60 36.34 38.79 38.39 38.34 38.68 35.84 38.56 38.36 38.34 39.19	37.84
8.	Cocoa	12.35 12.02 12.25 11.98 12.07 12.30 12.23 12.28 11.76 11.90 12.26 12.30 12.23 11.95 12.16	12.14
9.	Coastal Oak	47.32 48.01 52.20 49.46 46.17 50.45 47.79 51.73 56.45 50.17 52.18 52.30 51.79 55.08 46.50 48.65 53.59 49.13 53.85 47.36 47.17 56.35 55.77 48.46 47.20 47.67 56.23 55.61 42.98 49.47 47.22 56.91 55.40 42.92 50.55 47.90 56.33 55.48 46.55 48.89	50.63
10.	Canyon Oak	50.23 52.79 50.68 49.47 46.97 50.06 52.38 50.44 49.69 47.19 50.34 52.44 50.31 48.61 45.61 50.85 52.49 50.17 48.53 48.49 51.60 50.89 47.92 48.62 48.64 52.24 50.81 46.71 48.00 48.32 51.32 50.72 45.32 47.13 48.59 53.08 50.72 45.34 48.74 48.59	49.53
11.	Deep Space	4.77 4.63 4.61 4.61 4.34 4.60 4.68 4.68 4.74 4.24 4.52 4.62 4.67 4.70 4.55	4.60
12.	French Grey	37.76 37.46 37.19 37.53 37.84 37.67 37.51 37.23 37.65 37.74 37.63 37.45 37.23 37.61 37.85	37.56
13.	Grigio Linen	35.57 36.50 36.90 36.13 36.66 35.51 37.18 36.38 36.54 37.15 35.29 36.53 36.58 35.98 36.02 35.80 36.00 36.83 36.47 35.97 35.64 37.03 36.43 37.51 37.41 35.54 37.26 36.38 36.70 36.94	36.43

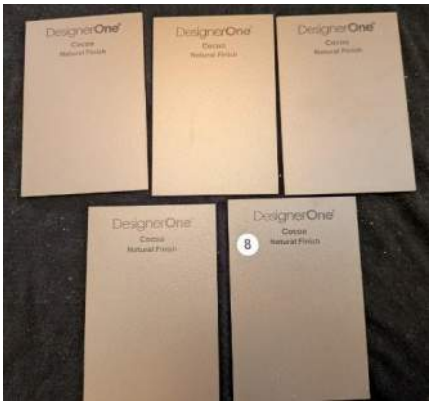
No.	Colour	Dry LRV Measurements (Yd)	Mean Dry LRV (Yd)
14.	Grand Oak	15.06 12.76 13.26 13.71 12.52 15.24 12.77 13.25 13.55 13.46 14.14 12.79 13.34 13.32 13.29 12.78 14.06 13.51 13.37 13.28 12.71 13.27 13.23 13.36 13.78 12.96 13.23 13.15 13.42 13.17 12.57 13.36 13.16 14.04 15.24 12.26 13.25 13.08 13.36 15.46	13.44
15.	Highland Mist	47.14 47.34 47.05 47.40 47.12 47.13 47.43 47.04 47.50 47.27 47.17 47.38 47.03 47.54 47.24	47.25
16.	Lunar Grey	10.35 10.48 10.79 10.85 10.78 9.93 10.50 10.74 10.57 10.75 10.05 10.60 10.80 10.59 10.78	10.57
17.	Mink	25.72 25.39 25.54 25.82 25.73 25.91 25.47 25.42 25.80 25.63 25.91 25.64 25.62 25.82 25.65	25.67
18.	Mocha Walnut	10.21 9.46 9.70 10.04 10.21 9.73 9.40 9.74 10.10 9.24 9.67 9.58 9.70 10.02 9.86 9.60 10.04 9.76 10.31 10.19 9.65 9.72 9.61 10.34 10.27 9.45 9.65 9.73 10.25 10.27 9.76 9.70 9.95 10.08 10.28 9.67 9.68 10.09 10.34 10.28	9.88
19.	Pearl White	82.31 81.91 81.53 81.98 82.07 82.16 82.43 81.85 82.12 82.51 81.77 81.90 81.99 81.97 82.48	82.07
20.	Powder Grey	56.94 56.74 57.47 57.98 57.44 56.94 56.84 57.52 57.66 57.50 56.87 56.74 57.52 57.80 57.56	57.30
21.	Prestige Oak	22.38 21.64 22.31 22.46 22.43 22.44 22.92 22.21 22.32 22.57 22.68 23.00 22.02 22.29 22.35 22.02 23.02 21.97 22.03 22.26 23.12 22.95 21.95 21.83 22.26 21.72 22.34 21.94 21.95 21.90 22.67 21.98 22.28 22.13 22.38 21.56 22.05 22.20 22.13 22.49	22.28
22.	Sheer White	86.40 86.86 86.57 86.01 85.99 86.35 86.93 86.44 86.09 86.03 86.16 86.83 86.23 86.39 86.02	86.35

No.	Colour	Dry LRV Measurements (Yd)	Mean Dry LRV (Yd)
23.	Urban Oak	39.63 39.49 40.96 38.73 42.85 41.97 40.84 41.62 37.87 41.78 41.22 39.37 40.68 39.69 41.47 41.48 39.71 39.93 36.53 39.14 41.01 40.28 39.61 39.61 38.79 42.05 40.11 39.43 42.55 38.41 40.90 40.01 38.84 43.16 39.08 39.62 40.67 38.67 43.04 39.18	40.25
24.	Weathered Ash	37.33 37.27 37.14 36.52 39.46 36.28 37.47 37.03 36.63 39.41 36.37 36.46 36.98 35.94 39.63 38.12 36.64 35.83 38.04 39.27 37.75 36.80 35.68 38.18 39.03 36.78 36.93 35.97 38.10 39.08 36.50 37.03 35.92 40.04 38.91 36.68 37.09 36.08 39.13 39.10	37.47

Attachment 3: Photographs

No.	Colour	Photograph 1	Photograph 2
1.	Aluminium Haze		
2.	Banstead Oak		
3.	Battleship		

4.	Caramel Hickory		
5.	Charred Oak		
6.	Cinnamon Walnut		

7.	Classic Oak		
8.	Cocoa		
9.	Coastal Oak		

10.	Canyon Oak		
11.	Deep Space		
12.	French Grey		
13.	Grigio Linen		

14.	Grand Oak		
15.	Highland Mist		
16.	Lunar Grey		
17.	Mink		

18.	Mocha Walnut		
19.	Pearl White		
20.	Powder Grey		

21.	Prestige Oak		
22.	Sheer White		
23.	Urban Oak		

24.	Weathered Ash		

Photos were taken under dry conditions, with direct illumination.