



Calibration Certificate

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Non-traceable LRV Measurements
February 2, 2022
Report #AR20220202(LRV)

Customer Name: Life Floor, Pete Carlson
Samples: 6 Customer supplied samples
Operator: DRW

Measuring Instrument

Model: GretagMacbeth Coloreye 7000A
Type: Hemispherical spectrophotometer
Serial number: 37109171099
Geometry: di:8°, 25mm round (LAV)

Standard of measurement

British Standard 8493 *Light reflectance value (LRV) of a surface. Method of test*
CIE Publication 15.2004 *Colorimetry*

Measurement Conditions

Mean Temperature: 22°C
Relative Humidity: 29%

Instrument and Measurement Details

Bandpass: approximately 10 nm
Wavelength Range: 400-730 nm
Recording Interval: 10 nm
Replicates: Minimum 5 (center, four corners)

Procedure

These measurements were performed on a recently-standardized GretagMacbeth Coloreye 7000A spectrophotometer. This instrument reports hemispherical radiance factor, using diffuse illumination and 8° detection, specular component included (CIE 15.2004 designation di:8°). LRV is calculated from spectral radiance factor using accepted means defined in CIE Publication 15.2004 and British Standard 8493.

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DRY MEASUREMENTS

| Sample ID | L* | a* | b* | LRV | σ_{LRV}^{\dagger} | Munsell Value |
|-----------|-------|--------|--------|-------|--------------------------|---------------|
| Aqua | 85.07 | -19.39 | 0.16 | 66.14 | 0.22 | 8.4 |
| Iceberg | 65.29 | -7.83 | -16.61 | 34.42 | 0.19 | 6.4 |
| Bluebird | 54.31 | -11.94 | -38.27 | 22.27 | 0.10 | 5.3 |
| Ivory | 92.78 | 0.66 | 14.26 | 82.46 | 0.07 | 9.2 |
| Sandbar | 82.95 | 3.46 | 22.08 | 62.07 | 0.10 | 8.2 |
| Porcelain | 94.87 | -0.58 | 5.99 | 87.30 | 0.12 | 9.4 |

WET MEASUREMENTS ‡

| Sample ID | L* | a* | b* | LRV | σ_{LRV}^{\dagger} | Munsell Value |
|-----------|-------|--------|--------|-------|--------------------------|---------------|
| Aqua | 84.51 | -20.89 | -0.20 | 65.05 | 0.16 | 8.3 |
| Iceberg | 64.91 | -8.05 | -16.95 | 33.93 | 0.23 | 6.3 |
| Bluebird | 53.52 | -11.91 | -39.49 | 21.53 | 0.11 | 5.2 |
| Ivory | 92.76 | 0.67 | 14.60 | 82.43 | 0.17 | 9.2 |
| Sandbar | 82.77 | 3.47 | 22.66 | 61.73 | 0.09 | 8.1 |
| Porcelain | 94.97 | -0.51 | 5.62 | 87.55 | 0.13 | 9.4 |

† σ_{LRV} is the standard deviation of LRV values for this sample. It is an indication of the color uniformity of the sample, and can reasonably be used as a tolerance for the measurement precision. The units of σ_{LRV} are the same as LRV.

‡ The samples are made of a material that appears quite hydrophobic. Therefore they do not really get wet. There was some surface water on the samples for the “Wet” measurements, but not enough to significantly change the results from the “Dry” data.

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