

Test report

Light Reflectance Value

What is Light Reflectance Value (LRV)?

Light Reflectance Value (LRV) is the total quantity of visible light reflected by a surface, e.g. floorings, ceilings, walls and furniture, at all wavelengths and directions when illuminated by a light source.

The LRV scale runs from 0, which is a perfectly absorbing surface that could be assumed to be totally black, up to 100, which is a perfectly reflective surface that could be considered to be the perfect white. Because of practical influences in any application, black is always greater than 0 and white never equals 100. Additional to colour, the structure and gloss of the product or surface are determining factors for LRV.

The LRV value is directly measured according to British Standard 8493:2008 'Light Reflectance Value (LRV) of a surface'.

The L*-value (colour depth) is sometimes being used to calculate visual contrast, but should not be mixed up with the LRV as it is significantly higher. However, the L*-value can be used to calculate the LRV of a surface (also referred to as the 'ρ-value' (rho)), as a close approximation of the directly measured LRV according to BS 8493.

Formula: $\rho = 100 \times ((L+16)/116)^3$

Product name: **Palatino**

Results:

Colour	L*	LRV
7218	41.95	12.47
9505	45.76	15.09
9502	29.49	6.03
7062	49.31	17.85
9970	30.96	6.63
7831	30.83	6.58
6431	61.62	29.95
7571	27.42	5.24
8152	35.60	8.80
9531	19.18	2.79
8921	21.03	3.25
7862	37.22	9.66

Colour	L*	LRV
8508	27.14	5.14
3118	21.17	3.29
3841	16.53	2.21
8522	36.53	9.29
8901	17.56	2.42
3923	31.97	7.07
9031	15.42	1.99
8501	22.27	3.59
8431	26.18	4.81
8822	35.22	8.61
8406	32.97	7.52
9025	49.33	17.86

Colour	L*	LRV
4411	34.42	8.21
9092	25.59	4.61
1957	56.46	24.37
4031	21.49	3.38
2117	21.05	3.26
6017	53.84	21.82
4218	26.00	4.75
2923	49.09	17.66
2941	19.52	2.87
9091	20.42	3.09
4301	32.94	7.51
4007	28.62	5.69

Measurements tool/equipment/conditions

- standard illuminant CIE D65
- 10° standard colorimetric observer
- 100% UV
- specular component included
- aperture: large

For more information on LRV in general and test results per product, visit www.desso.com