

Measurement of Luminous Reflectance AS 1428.1-2009

Appendix B Paragraph B3

Design for access and mobility

Part 1: General requirements for access—New building work

B3 MEASUREMENT OF LUMINANCE CONTRAST—LABORATORY

MIST - CALM #771

Report Number: R28360a

Report Date: 24 March 2023

Total Number of Pages 2

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Issued by

Safe Environments Pty Ltd
Unit 4, 40 Bessemer Street
Blacktown NSW 2148

Prepared for

Inspired Floor Coverings
51 Tramway Road
North Avoca NSW 2260

Approved by



Nasser Cura
Authorised Signatory

24 March 2023

Test Report No. R28360a

Measurement of Luminous Reflectance

AS 1428.1-2009, Appendix B Paragraph B3

Note: Some products may absorb water at different rates and will take different lengths of time to dry, a single calculation of luminous reflectance may be insufficient in some applications, particularly since some sections of accessible paths of travel may be exposed to more wetting, and other sections to better drainage. Wet calculations were determined after 5 minutes of water ponding on the surface. The luminous reflectance values reported relate to samples provided by the client and analysed as received. The luminous reflectance of surfaces in-service may be affected by the latent effects of time including, but not limited to, installation, surface treatments, maintenance, wear & contamination, cleaning regimes, chemicals, soiling and ultraviolet light.

Building Element: Floor - Carpet

Product Manufacturer: Inspired Floor Coverings

Product Description: MIST - CALM #771

Test conducted according to: AS/NZS 1428.1-2009, Appendix B Paragraph B3

Colour meter: Minolta Chroma Meter CR-400 tristimulus colour analyser

Diffuse Illumination: Pulsed xenon arc (PXA) lamp inside a mixing chamber (D65)

Viewing angle geometry: 0° (specular component included)

Aperture: 8mm-diameter

Test Location: 4/40 Bessemer Street, Blacktown NSW 2148

Test Date: 23 March 2023

Sample Preparation: Analysed as received

Results:

Measurement	Test Specimen	Dry (Y _d)	Wet (Y _w)
1	1	16.7	-
2	1	14.4	-
3	2	14.7	-
4	2	15.8	-
5	3	13.5	-
6	3	18.9	-
7	4	14.6	-
8	4	16.6	-
9	5	13.2	-
10	5	15.3	-
Mean Luminous Reflectance (Y):		15.4	NA
Uncertainty U₉₅		2.4	NA

Note: Not all measurements were within 20 % of the mean and has been considered as part of the sampling component in the overall estimate of uncertainty. The expanded uncertainty values (U₉₅) stated in this report have been calculated at the 95% level of confidence with a coverage factor (k) of approximately 2.1.

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