

## 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 - THUNDER #773

**Report Number: R28360c**

**Report Date: 24 March 2023**

**Total Number of Pages 2**

Accredited for compliance with ISO/IEC 17020

NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration and inspection reports

#### 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. R28360c

## 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 - THUNDER #773

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 <sub>d</sub> )	Wet (Y <sub>w</sub> )
1	1	10.4	-
2	1	8.7	-
3	2	7.9	-
4	2	8.0	-
5	3	9.3	-
6	3	6.0	-
7	4	10.0	-
8	4	11.1	-
9	5	10.9	-
10	5	7.5	-
<b>Mean Luminous Reflectance (Y):</b>		<b>9.0</b>	<b>NA</b>
<b>Uncertainty U<sub>95</sub></b>		<b>2.3</b>	<b>NA</b>

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 (U<sub>95</sub>) stated in this report have been calculated at the 95% level of confidence with a coverage factor (k) of approximately 2.1.

This test report shall not be reproduced unless in full, without written approval of Safe Environments Pty Ltd