

# Luminance Contrast Report

Product:Duratac Eco Directional TactilesProduct Code:TGSI-FD3060/ - VariousAddress:8a Lara Way, Campbellfield VIC 3061Testing Date:16/08/2022

As requested, we have determined the luminance contrast of the sample provided. These test results and report should be used as a good guidance only with the test method specified in the standards AS/NZS 1428.4.1.2009 Paragraph E3, Appendix E.

## Product

**Product Name:** 

Duratac Eco Directional Tactiles

#### **Product Description:**

Intergrated Directional Tactile 600 x 300mm - Fibreglass Construction



## **Test Results**

Overall view of test results per colour - Please see table of results on next page

Colour	Dry LRV Average	Wet LRV Average
Black	4.265	3.925
White	72.282	77.468
Yellow	52.925	52.417





## Table of LRV Results

### **Dry Measurements**

#### Wet Measurements

## **Dry Measurements**

### Wet Measurements

Colour	Black
4.323	4.408
4.313	4.33
4.437	4.506
4.423	4.02
4.066	4.566
4.257	4.323
3.831	4.137
4.285	4.266
4.18	4.216
4.226	4.191
Mean Dry	1 265

LRV

4.045	4
3.788	3.679
3.841	4.329
3.712	3.865
4.112	3.848
3.879	3.91
3.879	3.903
4.006	3.911
3.889	4.041
3.955	3.905
Mean	2.025
Wet LRV	3.925

Colour	White
71.111	72.39
72.46	71.966
72.339	72.101
71.95	72.415
72.544	71.741
73.47	72.18
72.054	71.783
73.132	72.11
72.096	72.159
72.961	72.682
Mean Dry LRV	72.282

76.863	77.105
77.709	77.815
76.53	77.044
78.824	77.545
77.443	77.372
77.103	76.296
78.514	76.895
77.425	78.592
78.245	77.169
78.095	76.771
Mean	

Wet LRV 77.468

#### Colour Yellow 51.969 52.727 53.862 52.852 52.214 52.893 53.283 52.343 52.729 53.882 52.59 53.027 51.821 52.493 53.119 53.952 53.349 53.476 52.181 52.591 Mean Dry 52.925 LRV

4.265

51.891	53.324
52.451	52.002
53.26	52.392
52.612	52.582
52.36	51.833
53.554	52.07
51.809	52.352
52.413	53.076
51.86	52.312
51.57	52.625
Mean	F2 447
Wet LRV	52.417





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	To determine the luminance contrast between the samples tested, the	
equation	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	
TGSI	Tactile Ground Surface Indicator	
Integrated TGSI	Tactile ground surface indicators that are in a defined pattern and which	
	are of the same luminance and material as the base surface.	
Discrete TGSI	Individually installed TGSIs, which provide the same luminance for the	
	sloping sides and upper surface of the truncated cone.	
Composite Discrete	Tactile ground surface indicators that are individually installed and which	
TGSI	provide a differing luminance for the sloping sides and upper surface of the	
	truncated cone.	
Stair Nosing	A strip not less than 50 mm and not more than 75 mm deep across the full	
	width of the path of travel.	

## **Onsite Laboratory Testing Equipment**

Sterling Supplies uses compliant testing apparatus meeting AS/NZS 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; Ø 8mm
- Observer: 2° Closely matches CIE 1931 Standard Observer
- Illuminant used: CIE Standard Illuminant D65
- Colour space and colorimetric data: CIE for Yxy

## Testing Methodology

The following is a summary of the testing methodology, conducted in accordance with requirements of AS 1428.4.1, Clause E3.3:

- The apparatus was firstly calibrated in accordance with the manufacturer's instructions.
- The tristimulus value 'Y' (LRV measurements) were taken of the surface in random locations in dry & wet conditions.
- 20 measurements were taken. See table of results.
- Surface area was swept with a rag to remove dust particles and soiling prior to testing
- Wet Measurements were determined after 5 minutes of water ponding on the surface.