

## 8.2 Light Reflectance

Light reflectance will vary depending on the texture and finish color of the product specified. The report below is based on the Fellert Ultra finish in a white color.

Test report number **401453 Report of color analysis<sup>1</sup>**  
 Test date **August 21, 2008**  
 Project **Color evaluation**  
**ASTM E1477-98a**

Sample ID			Average Luminous Reflectance Factor <sup>2</sup>		Light Reflectance <sup>3</sup>
CTL ID	Client ID	Material	Illuminant	CIE Y	
2178101	Ultra Finish Fellert White	Acoustical plaster	D 65	79.9	0.80
			F 2	80.1	0.80
2178101 Repeat	Ultra Finish Fellert White	Acoustical plaster	D 65	79.9	0.80
			F 2	80.0	0.80

**Average = 0.80**

1 Color analysis was performed in general accordance with ASTM E1477-98a, "ASTM E1477-98a (2008) Standard Test Method for Luminous Reflectance Factor of Acoustical Materials by Use of Integrating-Sphere Reflectometers." The instrument used for this analysis was an X-Rite SP 68 Sphere Spectrophotometer using the CIE 1964 (10°) standard observer with the specular component included.

2 The average of three measurements taken from different locations on the white side of the submitted sample is reported. ASTM E1477 defines "luminous reflectance factor" as the "CIE tristimulus value Y for the CIE 1964 (10°) standard observer and CIE standard illuminant D 65 (daylight) or F 2 (cool white fluorescent)."

3 ASTM E1477 does not define or determine "Light Reflectance." Therefore, it is assumed by the industry that light reflectance is calculated by dividing the measured CIE Y value by 100.



### LABORATORY CERTIFICATION

The results reported above apply to specific samples submitted for measurement. Analysis instrument: X-Rite® Sphere Spectrophotometer model SP68. Specular component included. Illuminant/standard observer: D65/10° (Daylight 6500k Illuminant, 10° observer). Ten measurements were taken on each surface and the average of these measurements reported; this was repeated for another ten measurements per sample.

