



**Les Industries Spectralux Inc.  
Spectralux Industries Inc.**

2750 Sabourin, Saint-Laurent (Quebec) H4S 1M2 Canada  
Tel.: (514) 332-0082 Fax: (514) 332-3590 [www.spectralux.ca](http://www.spectralux.ca)

ISO/IEC 17025



NVLAP LAB CODE: 200899-0

**Reflectance Test Report**

**Standard(s)** IES LM-58:1994, IES LM-45:2009

**Customer** Newmat USA, 81 Mahan St., W. Babylon, NY 11704

General Information		Sample Details		Reflectance Standard	
<b>Test Report</b>	R1206071-C1	<b>Material</b>	PVC Membrane	<b>Model Number</b>	SRS-99-20
<b>Tested</b>	7 June 2012	<b>Manufacturer</b>	Newmat	<b>Reflectance</b>	99%
<b>Created</b>	7 June 2012	<b>Catalog No.</b>	M15/White Matt	<b>Manufacturer</b>	Labshpere
<b>Sphere Temperature</b>	25.4 °C	<b>Serial No.</b>	N/A		
<b>Humidity</b>	14.2 %	<b>Finish</b>	White Matt		

**Tested By:** Jean-Paul Ojeil

**Approved Signatory:** Chrisnel Blot

**Signature:**

**Notes**

- 1) Field performance may differ from laboratory measurements. Results are valid for tested material only.
- 2) The original electronic file or paper report cannot be edited in whole or in part without written consent of Spectra Lux Industries Inc.
- 3) This test report describes the performance of a single product and does not necessarily represent the average performance of a group of the same product.



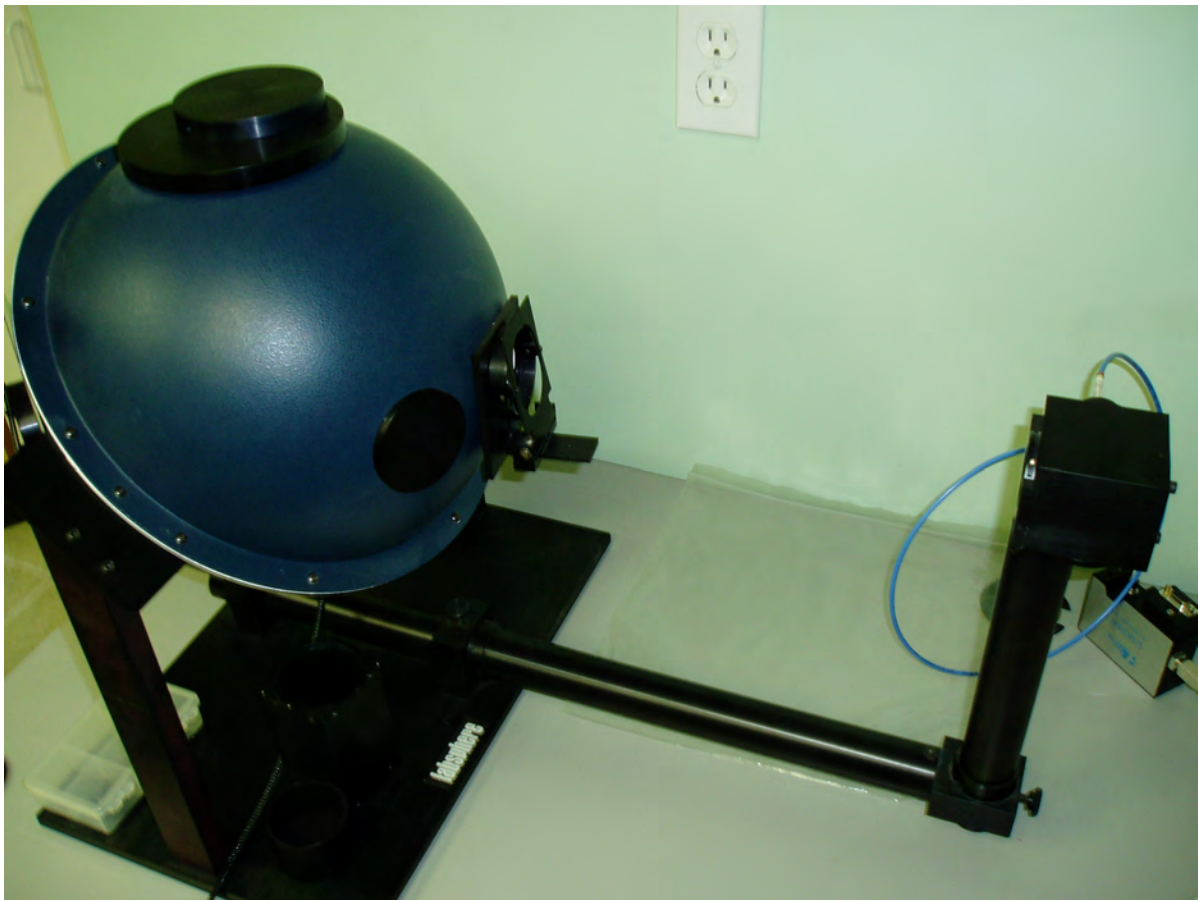
## Reflectance Test Method

The test was performed in a 0.3 meter diameter sphere with a spectrophotometer covering the full visible spectrum range from 380 to 780 nanometers.

During the test, a reference lamp was used and a certified reflectance standard was used at an incident angle of 8° from normal.

Good electrical contacts have been used to ensure the control of electrical parameters and an adequate stabilization prior to collecting spectrographs acquisition.

Equipment, reference standards and methods are traceable to NRC (National Research Council of Canada).





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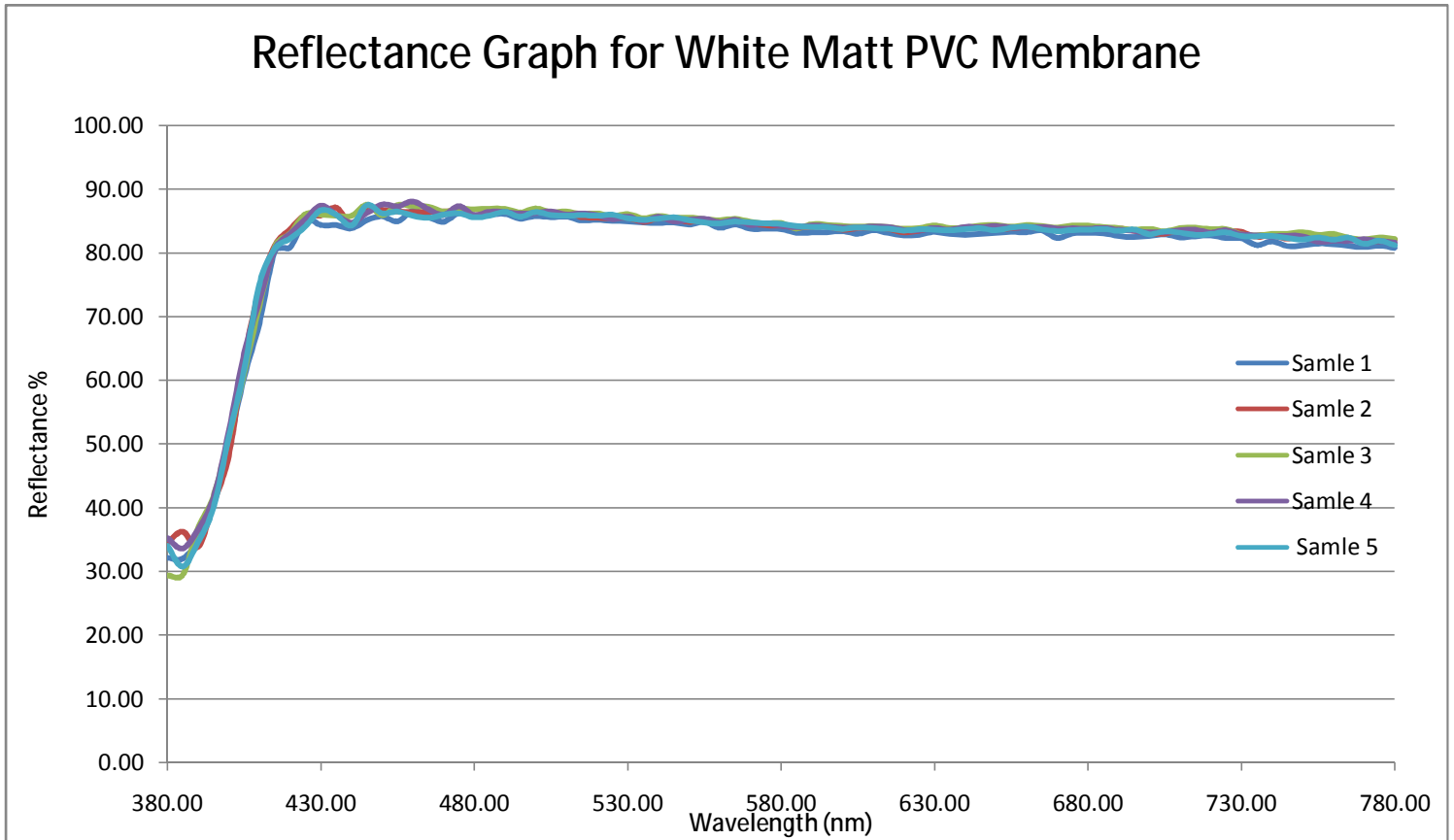
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## Equipment List

Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
Auxiliary Power Supply	American Reliance	SPS150-7	B10155	2011/12/29	2012/12/29
Shunt Resistor	Fluke	Y5020	5675014	2012/01/05	2013/01/05
Current Multimeter	HP	HP3458A	25B746	2010/01/06	2013/01/06
Voltage Multimeter	HP	HP3458A	25B747	2010/01/06	2013/01/06
Spectrometer	Ocean Optics	USB2000N	USB2E3864	2011/08/24	2012/08/24
Temperature Humidity Sensor	Omega	HH311	060703153	2011/08/16	2012/08/16



Reflectance Measurements



Reflectance Average : 80.97 %



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Wavelength	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
380.00	32.16	34.52	29.38	35.26	34.04
385.00	32.04	36.26	29.47	33.63	30.79
390.00	34.89	33.85	36.78	36.64	34.64
395.00	40.80	40.60	41.76	41.59	40.01
400.00	49.84	48.11	51.07	52.02	51.13
405.00	60.40	63.16	61.06	64.19	61.61
410.00	68.97	74.18	71.73	72.56	75.13
415.00	80.20	81.14	80.93	80.58	80.62
420.00	80.79	83.64	83.02	83.01	82.24
425.00	85.18	85.93	86.01	85.28	84.14
430.00	84.32	85.81	85.97	87.41	86.66
435.00	84.28	87.05	85.81	86.02	85.95
440.00	83.79	84.50	85.75	84.72	84.26
445.00	85.09	87.06	87.51	86.24	87.46
450.00	85.68	86.70	85.87	87.58	86.18
455.00	84.88	86.43	87.43	87.28	86.46
460.00	86.57	86.36	87.31	88.06	85.82
465.00	85.59	86.38	87.20	86.85	85.46
470.00	84.84	86.42	86.42	85.96	85.96
475.00	86.19	86.49	86.81	87.33	86.18
480.00	85.76	85.80	86.78	85.92	85.55
485.00	85.95	86.27	86.87	86.46	85.83
490.00	86.05	86.70	86.85	86.40	86.42
495.00	85.32	85.95	86.29	86.15	85.66
500.00	85.73	86.61	86.90	86.27	86.38
505.00	85.55	86.20	86.33	86.47	85.92
510.00	85.64	86.30	86.43	86.01	85.78
515.00	85.04	85.57	86.05	86.18	85.93
520.00	85.17	85.46	86.15	85.90	85.78
525.00	84.99	85.35	85.65	85.29	85.95
530.00	84.88	85.44	86.03	85.72	85.42
535.00	84.72	84.83	85.38	84.99	85.20
540.00	84.64	85.38	85.71	85.65	85.31
545.00	84.74	85.34	85.44	84.98	85.55
550.00	84.41	84.82	85.50	85.18	85.11
555.00	84.84	85.13	85.22	85.35	84.74
560.00	83.89	84.78	85.07	84.80	84.61
565.00	84.40	84.93	85.27	85.16	84.89
570.00	83.73	84.60	84.84	84.41	84.74
575.00	83.74	84.29	84.55	84.65	84.62
580.00	83.69	84.20	84.62	84.25	84.53
585.00	83.10	83.95	83.79	84.03	84.19



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590.00	83.14	84.01	84.45	84.30	84.06
595.00	83.19	84.11	84.34	84.17	84.04
600.00	83.36	83.61	84.16	83.99	83.74
605.00	82.95	83.85	84.04	83.95	83.97
610.00	83.50	83.92	84.17	84.16	83.83
615.00	83.08	83.72	84.00	84.07	83.76
620.00	82.71	83.19	83.71	83.60	83.48
625.00	82.78	83.43	83.82	83.54	83.67
630.00	83.26	83.90	84.26	83.91	83.61
635.00	82.89	83.62	83.84	83.63	83.51
640.00	82.81	83.88	83.94	84.08	83.69
645.00	82.94	83.91	84.21	84.04	83.83
650.00	83.12	83.64	84.30	84.19	83.52
655.00	83.23	83.83	84.09	84.00	83.92
660.00	83.20	83.99	84.30	84.02	84.11
665.00	83.49	83.76	84.14	84.06	83.66
670.00	82.29	83.71	83.92	83.80	83.39
675.00	83.01	83.94	84.23	83.84	83.57
680.00	83.13	83.92	84.24	83.77	83.62
685.00	83.02	83.77	83.99	83.90	83.73
690.00	82.58	83.79	83.87	83.60	83.44
695.00	82.45	83.43	83.55	83.45	83.64
700.00	82.59	83.08	83.71	83.19	82.91
705.00	82.89	82.97	83.34	83.26	83.33
710.00	82.38	83.51	83.80	83.58	83.16
715.00	82.55	83.25	83.87	83.61	82.80
720.00	82.71	83.28	83.67	83.18	82.92
725.00	82.26	83.39	83.67	83.52	83.20
730.00	82.24	83.24	82.86	82.87	82.61
735.00	81.18	82.48	82.70	82.75	82.59
740.00	81.75	82.70	82.92	82.59	82.65
745.00	81.02	82.20	82.94	82.70	82.28
750.00	81.12	82.77	83.18	82.62	82.06
755.00	81.42	82.38	82.78	81.75	82.39
760.00	81.32	82.12	82.92	81.89	82.04
765.00	81.05	82.16	82.29	81.89	82.35
770.00	80.87	81.84	82.03	82.13	81.39
775.00	81.09	81.83	82.34	81.83	81.88
780.00	80.72	82.04	82.15	81.63	81.19
Average	80.22	81.12	81.28	81.28	80.94