



**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

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	
Test Report	R1206073-C1	Material	PVC Membrane	Model Number	SRS-99-20
Tested	7 June 2012	Manufacturer	Newmat	Reflectance	99%
Created	7 June 2012	Catalog No.	L1/White Lacquer	Manufacturer	Labshpere
Sphere Temperature	25.4 °C	Serial No.	N/A		
Humidity	14.2 %	Finish	White Lacquer		

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.



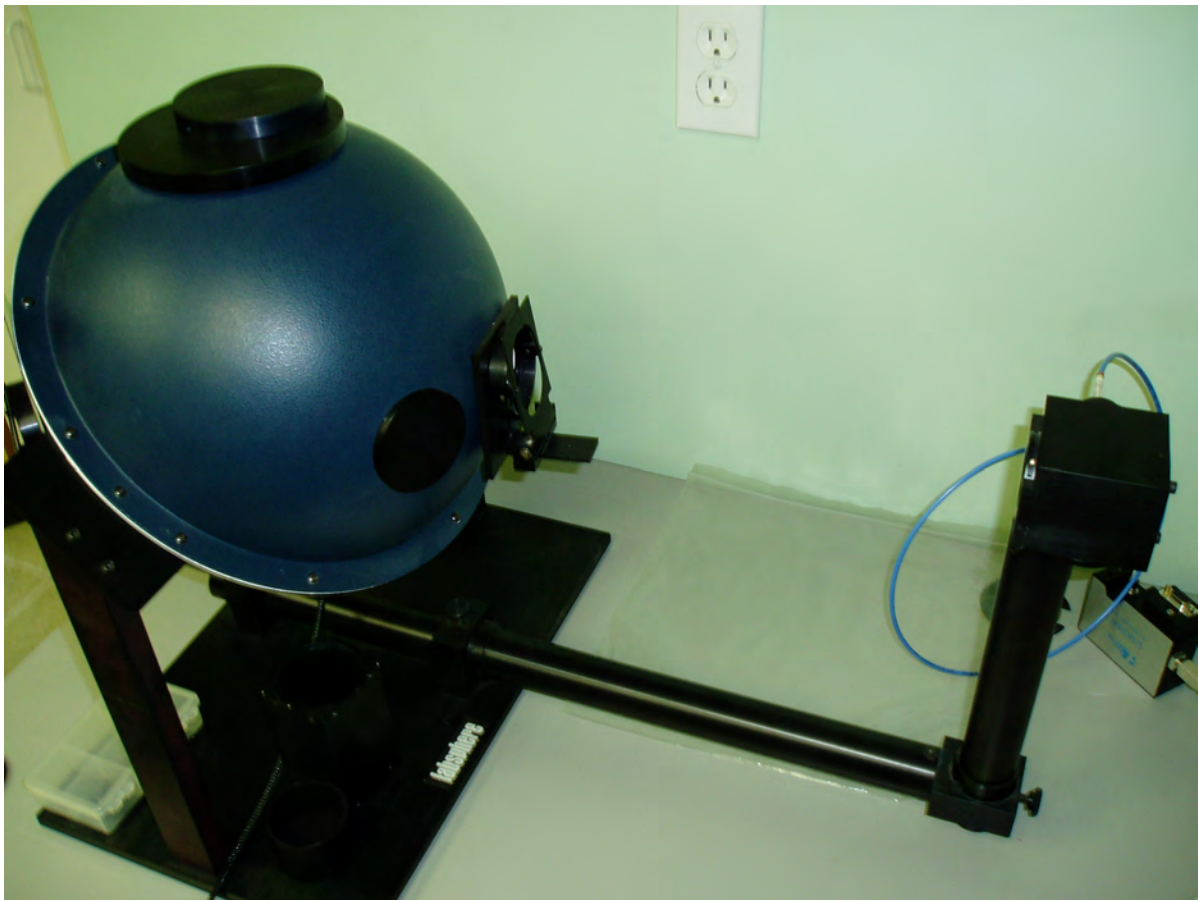
Reflectance Test Method

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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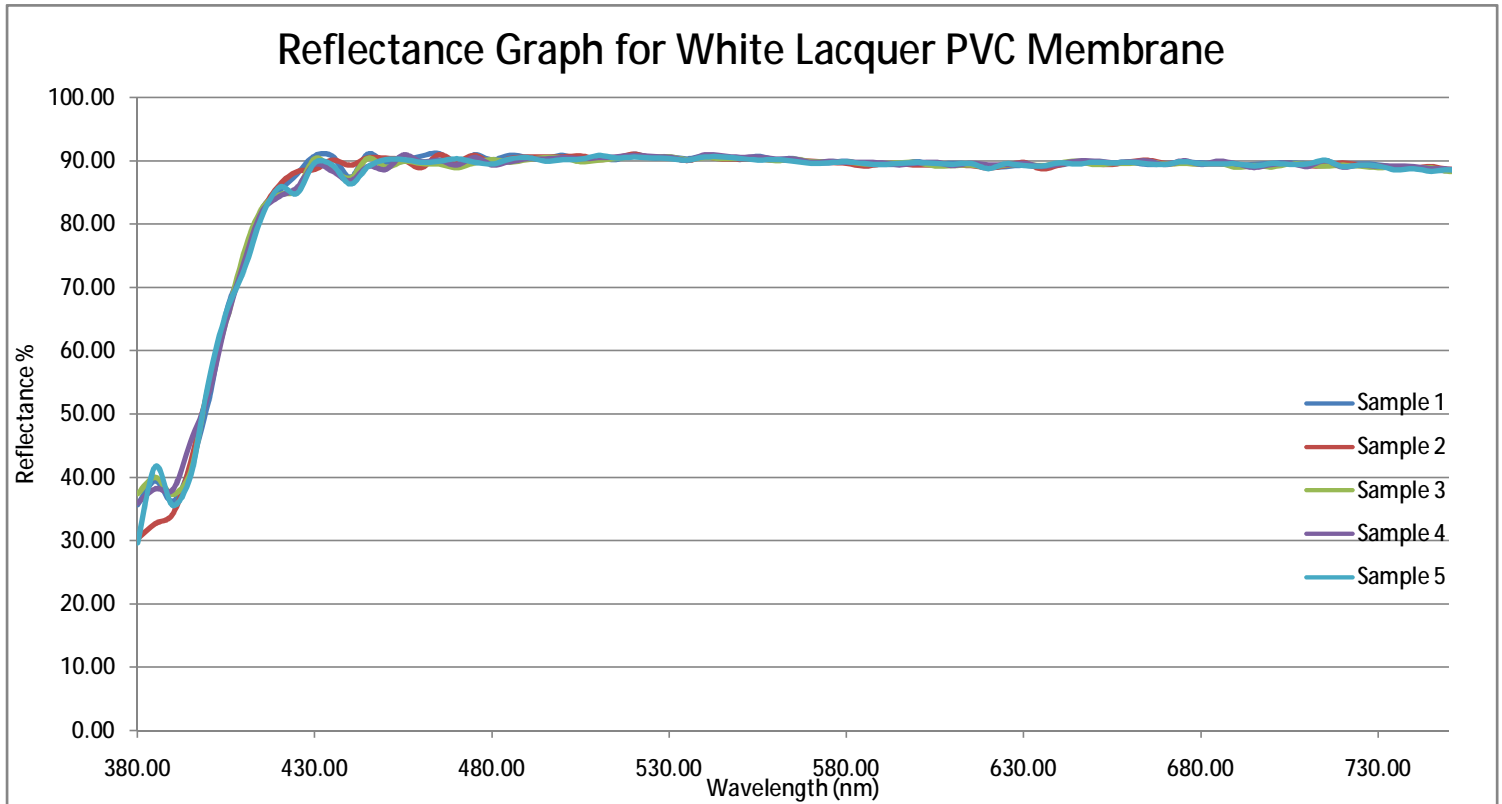
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Equipment List

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 : 85.92 %



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Wavelength	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
380.00	35.69	30.34	37.38	35.96	29.66
385.00	39.49	32.70	39.97	38.23	41.70
390.00	36.21	34.31	37.25	38.11	35.55
395.00	41.93	42.50	40.88	45.68	40.39
400.00	52.08	54.38	54.51	53.15	55.09
405.00	66.02	65.23	64.56	64.63	66.05
410.00	73.50	74.14	75.47	73.95	72.71
415.00	82.20	81.95	82.35	81.87	81.10
420.00	85.27	86.20	84.57	84.36	85.81
425.00	87.99	88.36	85.40	85.80	84.86
430.00	90.82	88.68	90.32	89.43	89.69
435.00	90.75	90.15	88.59	88.34	89.28
440.00	87.40	89.34	87.23	86.83	86.32
445.00	91.11	90.52	90.37	89.11	89.06
450.00	89.68	90.46	88.98	88.64	90.17
455.00	89.97	90.14	89.90	90.92	90.20
460.00	90.76	88.95	89.54	89.83	89.78
465.00	91.15	91.01	89.48	90.06	89.91
470.00	89.33	89.94	88.90	89.32	90.31
475.00	90.95	90.90	89.66	90.53	89.78
480.00	90.15	89.72	90.18	89.36	89.47
485.00	90.90	90.39	89.77	89.86	90.27
490.00	90.55	90.68	90.17	90.33	90.51
495.00	90.37	90.66	90.50	90.26	89.95
500.00	90.88	90.66	90.44	90.50	90.20
505.00	90.18	90.83	89.83	90.32	90.26
510.00	90.47	90.26	90.05	90.49	90.83
515.00	90.24	90.55	90.35	90.63	90.45
520.00	91.08	91.08	90.66	90.83	90.58
525.00	90.51	90.57	90.54	90.67	90.47
530.00	90.65	90.60	90.60	90.56	90.35
535.00	90.32	90.09	90.16	90.06	90.10
540.00	90.74	90.66	90.52	90.92	90.60
545.00	90.50	90.31	90.31	90.76	90.62
550.00	90.24	90.34	90.39	90.53	90.39
555.00	90.72	90.34	90.32	90.63	90.10
560.00	90.17	90.13	90.00	90.24	90.19
565.00	90.36	90.15	90.24	90.29	89.89
570.00	89.77	89.94	89.83	89.72	89.60
575.00	89.70	89.78	89.87	89.91	89.69
580.00	89.95	89.65	89.78	89.73	89.84
585.00	89.47	89.21	89.52	89.72	89.55



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Wavelength	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
590.00	89.48	89.57	89.52	89.68	89.39
595.00	89.48	89.61	89.69	89.35	89.58
600.00	89.89	89.37	89.66	89.62	89.73
605.00	89.43	89.38	89.18	89.77	89.58
610.00	89.65	89.36	89.20	89.26	89.45
615.00	89.48	89.30	89.31	89.62	89.58
620.00	89.03	88.94	89.01	89.37	88.76
625.00	89.14	89.32	89.33	89.39	89.54
630.00	89.33	89.77	89.47	89.61	89.23
635.00	89.07	88.78	89.20	89.10	89.15
640.00	89.35	89.35	89.61	89.46	89.66
645.00	89.79	89.90	89.91	89.96	89.48
650.00	89.64	89.55	89.38	89.95	89.79
655.00	89.67	89.50	89.56	89.68	89.67
660.00	89.78	89.89	89.58	89.81	89.77
665.00	89.45	90.13	89.82	89.97	89.54
670.00	89.57	89.62	89.45	89.38	89.45
675.00	89.81	89.70	89.56	90.01	89.88
680.00	89.66	89.53	89.47	89.43	89.49
685.00	89.58	89.56	89.61	89.93	89.51
690.00	89.35	89.47	88.94	89.54	89.53
695.00	89.44	89.20	89.27	88.95	89.18
700.00	89.61	89.42	89.01	89.44	89.55
705.00	89.71	89.63	89.53	89.56	89.44
710.00	89.55	89.25	89.38	89.11	89.48
715.00	89.52	89.28	89.13	90.04	90.07
720.00	89.34	89.70	89.28	88.99	89.06
725.00	89.54	89.39	89.12	89.37	89.34
730.00	89.37	89.18	88.92	89.14	89.19
735.00	88.98	89.01	88.99	89.19	88.55
740.00	88.83	88.85	88.92	89.07	88.77
745.00	88.58	89.13	88.89	88.77	88.35
750.00	88.42	88.67	88.32	88.66	88.60
755.00	88.27	88.93	88.75	88.34	88.43
760.00	88.54	88.13	88.25	88.52	88.33
765.00	88.35	87.79	88.15	88.46	88.24
770.00	88.51	88.61	89.06	88.09	88.30
775.00	88.60	88.39	88.53	88.15	88.60
780.00	87.81	87.98	87.67	87.32	88.13
Average	86.06	85.89	85.89	85.95	85.81