



Bristolite[®] Skylights

Custom Division – engineering@bristolite.com

401 East Goetz Avenue

Santa Ana, California 92707

714-540-8950 Phone • 714-545-2364 Fax

Light Level Comparison Test Report

Series/Model: 6072-ES-CMG-2-MF

(Bristolite Energy Star Curb Mount Dual Glazed Skylight)

Report No. BR-ES-061307

Date of Testing: 6/13/2007

Test Sample Description:

Series/Model: 6072-ES-CMG-2-MF
(Refer to attached model drawing for detail)

Test Procedure:

Random skylights were selected from the Costco Mira Loma, CA distribution warehouse. Units were originally provided to Span Construction on _____. Subsequently further units were provided for an addition to the original Costco project to Span Construction on _____.

These units would be tested to obtain and compare levels of light allowed inside the units for comparative purposes only. This test was not performed to any specific ASTM or other nationally recognized procedure and therefore would **not** provide actual transmittance values but rather simple comparative light level values. This test would also **not** be for comparison of unit appearance, color, structure or any other unit attributes.

Twelve (12) samples that had been installed on the roof were identified, marked, and removed from the roof per the following:

- | | |
|----------------|--|
| 1A, 1B, 1C, 1D | Approximately 10 year old units (units that were originally provided to Span Construction) that had the outer Energy Star composite dome cleaned inside and outside and had the inner clear acrylic dome replaced. |
| 2A, 2B, 2C, 2D | Approximately 2 year old units (units provided to Span Construction for an addition to the original project) that were not cleaned and were in the “as is” condition.* |
| 3A, 3B, 3C, 3D | Approximately 10 year old units (units that were originally provided to Span Construction) that were not cleaned and were in the “as is” condition.* |

A test chamber was constructed and set up at the Bristolite facility per the attached drawing to mount the skylights onto. This chamber would be set into another chamber to provide a controlled and consistent light source at the exterior of the dome.

*Although efforts were made to maintain “as is” or existing dust/debris levels on these units, handling/transport strap areas were identifiable and did reduce the amount of dust/debris on these units in those areas. Because this

affected less than 5% of the affected domes' areas, it was determined that the test results would not be significantly affected.

Test Procedure (cont.)

The light source consisted of (4) 500w halogen lamps spaced equally on the sides of the dome. Readings were taken with a Minolta T-1H Illuminance meter. The meter was positioned on a strut at the lower center of the chamber and its position was maintained throughout the testing for consistency.

The meter self-calibrated prior to each reading and a lux (measure of Illuminance) reading was taken for each unit. The results are as follows:

1A	68.0	
1B	67.1	
		Average reading for 10 year old cleaned units = 69.2
1C	69.7	
1D	72.0	
2A	67.0	
2B	60.0	
		Average reading for 2 year old "as is" units = 68.25
2C	79.1	
2D	66.9	
3A	51.1	
3B	55.1	
		Average reading for 10 year old "as is" units = 52.45
3C	52.7	
3D	50.9	

After obtaining the above results this testing was concluded.

Testing witnessed by (all or partial testing): Rudy Pavlik, Emiliano Monje, Paul Dudley
(Bristolite Skylights)

Testing conducted and witnessed by: Carl Schmidt (Bristolite Skylights)

