

**PERFORMANCE TEST REPORT**

**Rendered to:**

**VELUX America Inc.**

**PRODUCT: Square Diffuser**

**Report No: D3964.05-106-31**

**Report Date: 04/11/14**

**Test Record Retention Date: 03/16/18**

**PERFORMANCE TEST REPORT**

Rendered to:

VELUX America Inc.  
P.O. Box 5001  
1418 Evans Pond Road  
Greenwood, South Carolina 29648-5001

Report No: D3964.05-106-31  
Test Date: 03/16/14  
Report Date: 04/11/14  
Test Record Retention Date: 03/16/18

**Product:** Square Diffuser

**Project Summary:** Architectural Testing, Inc. was contracted by VELUX America, Inc. to evaluate the square diffuser sample for their SUN TUNNEL tubular daylighting devices (TDD) for high temperature exposure.

**Test Method:** The test specimen was evaluated in accordance with IBC 2606.7.2, *Light Diffusing Systems, Installation*.

**Test Procedure:** The square diffuser was mounted into a box consisting of fire rated drywall and 2 x 4's and placed over a hot plate to achieve a temperature at which the square diffuser would fall from the mountings before igniting. The specimen remained in place for fifteen minutes at an ambient room temperature of 79 °C. The square diffuser fell from the mountings at 156 °C. This temperature is more than 111 °C below the ignition test results for the same material presented in ATI Report No. D3964.04-106-31. (See attached photographs of before and after testing.)

Architectural Testing will service this report for the entire test record retention period. Test records that are retained such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation will be retained by Architectural Testing, Inc. for the entire test record retention period.

Results obtained are tested values and were secured using the designated test methods. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimens tested. This report may not be reproduced, except in full, without the written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC.:

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Rodney E. Holland - Technician I  
Components / Materials Testing

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Gary Hartman, P.E. - Director  
Components / Materials Testing

REH:reh/nlh

Attachments (pages)      This report is complete only when all attachments listed are included.  
Appendix A - Photographs (1)

### Revision Log

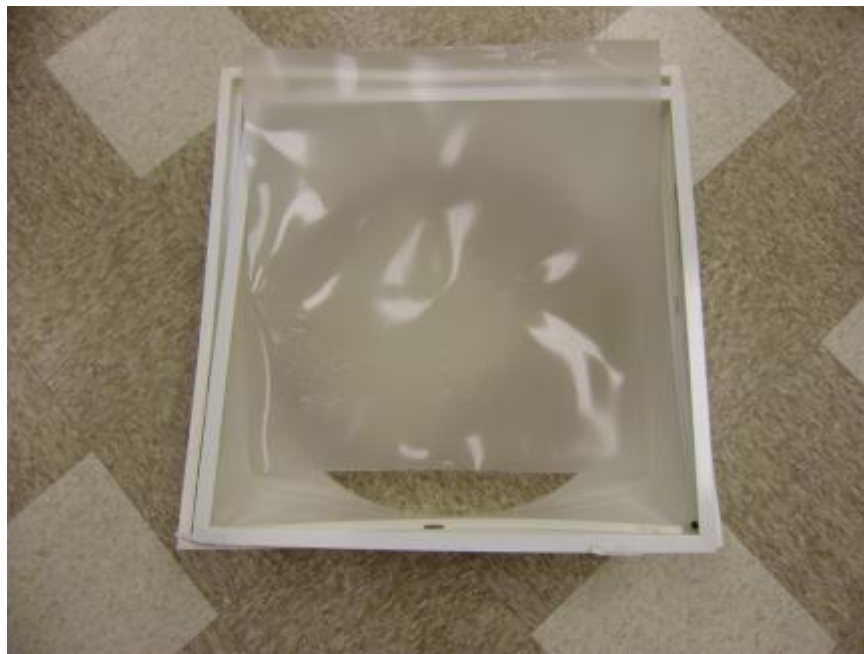
<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	04/11/14	N/A	Original report issue.

**APPENDIX A**

**Photographs**



**Photo No. 1**  
**Pre-test**



**Photo No. 2**  
**Post-test**