

**Site**

Private Residence

**Location**

Denver, Colorado

**Window Film**

Mirage V38 SR CDF

**Product Series**

Dual-Reflective Series



**SITUATION**

In this case, it is a dramatic three-story home with cathedral ceilings and huge trapezoidal windows that truly bring the outside in. The home, set high in the Rockies near Denver, Colorado, is continually drenched in sunlight and features panoramic views in every direction. As breathtaking as the views are, the sun's brightness compromised the views, and the sun's ultraviolet rays damaged the furnishings, wood floors, and precious artifacts in the interior. Therefore, in the summer months, there was a real problem with solar heat.

**SOLUTION**

In discussing the sunlight problem with the neighbors, it was learned that solar control window film had proven to be the solution to a similar residential problem in a nearby home. A professional window film dealer in the area was consulted, who quickly assessed the situation and provided an individual specific solution to the dilemma.

The recommendation was for the installation of Vista™ by LLumar® Mirage V38, an innovative dual-reflective film with many benefits. It blocks more than 99 percent of ultraviolet rays, helping protect against premature fading. Vista Mirage also helps reduce glare by 57 percent and lowers solar heat by 56 percent.

**RESULT**

Vista Mirage provides excellent visibility from inside to out at all times of the day and night.

With Vista film on the windows, the problem with sun glare and heat have gone away, and yet the magnificent day and evening views have been preserved. Moreover, the furnishings, fabrics, artwork and wood flooring are not going to fade away. And no one will know that the film is in place.

**Performance Data**

	% Total Solar Transmittance	% Total Solar Reflectance	% Total Solar Absorbance	% Visible Light Transmittance	% Visible Reflectance (exterior)	% Visible Reflectance (interior)	Winter U-value	Shading Coefficient	% Ultraviolet Ray Protection (wavelengths 280-380nm)	Emissivity	Solar Heat Gain Coefficient	% Total Solar Energy Reflected	Light-to-Solar Heat Gain Ratio (LSG)	% Summer Solar Heat Gain Reduction	% Winter Heat Loss Reduction	% Glare Reduction
Clear Glass	83	8	9	90	8	8	1.03	1.00	29	0.84	0.86	14	1.05	-	-	-
Dual-Reflective Series																
Mirage V38 SR CDF	30	26	44	39	26	17	1.01	0.49	>99	0.78	0.43	57	0.91	50	3	57

**EASTMAN**

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The solar performance data reported for LLumar architectural window films was captured using the National Fenestration Rating Council's (NFRC) standard guidelines for window film solar performance measurement as measured on single pane, 1/8 inch (3 mm), clear glass. Reported values are taken from representative product samples and are subject to normal manufacturing variances. Actual performance will vary based on a number of factors, including glass type and properties. \*Films do not eliminate fading—they reduce it. UV rays and heat are contributing factors to fading but other factors exist. For further information see LLumar.com/download-library. ©2008, revised 2016 Eastman Chemical Company. VISTA™, the VISTA® logo, LLumar®, the LLumar® logo and Enerlogic® are trademarks of Eastman Chemical Company or one of its wholly owned subsidiaries. As used herein, ® denotes registered trademark status in the U.S. only. (11/16) SP1126