

Site

Private Residence

Location

Haiku, Maui

Window Film

Luminance V28

Crystal Elegance V58

Product Series

Dual-Reflective Series

Neutral Series



SITUATION

What to do when your home is finally just as you want it, with a brand new glassed-in lanai, but the sun is making life impossible and your fine furnishings and floors are fading? This was the problem facing the new owner of a heavenly home on the magical island of Maui. Since the sun shines all day and the average temperature is 85° F, being comfortable in the home and reducing sun damage becomes a real challenge.

SOLUTION

Through the recommendation of their interior designer, a solar control expert, (the area Vista™ by LLumar® dealer) was invited to review their solar dilemma. A thorough survey of the prevailing solar conditions revealed that there were two distinct areas with differing problems. In the new lanai, the principal challenge was the heat that the sun generated. In the living and dining areas the fading of precious teak floors, furniture and furnishings were of primary concern. Both areas commanded magnificent views of the countryside and the ocean but were being jeopardized by the sun's rays.

The answer was the installation of window films that would specifically address the primary problems: Vista™ by LLumar® Luminance V28 for the inside of the glass in the lanai and Vista™ by LLumar® Crystal Elegance V58 for living and dining areas. Both films are a complex laminate of UV-treated polyester, metallic particles, and UV-absorbing adhesives which among other attributes, block more than 99 percent ultraviolet rays, helping protect against premature fading.* The films, when professionally installed on the inside of window glass, are virtually invisible and do not in any way impair views. They are both finished with a clear distortion-free scratch-resistant surfacing that is easily maintained with common cleaning products, including those that contain ammonia.

RESULT

The owner enjoys glare-free views throughout the year in comfort and the fading of precious wood and furnishings is no longer a matter of concern.



Performance Data

	% Total Solar Transmittance	% Total Solar Reflectance	% Total Solar Absorptance	% 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																
Luminance V28 SR CDF	23	33	44	30	33	21	1.01	0.41	>99	0.77	0.36	64	0.83	58	3	67
Neutral Series																
Crystal Elegance V58 SR CDF	55	10	35	60	11	9	1.07	0.76	>99	0.90	0.66	34	0.91	23	-3	33

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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. ©2007, 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) SP1136