

## Site

Biedenharn Museum

## Location

Monroe, Louisiana

## Window Film

Nuance V48

## Product Series

Dual-Reflective Series



## SITUATION

The Biedenharn Museum needed to maintain the pristine character of its irreplaceable works of art and “objets d’art” without impeding its grand garden views. The museum was originally the home of Joseph Biedenharn, popularly known in Monroe as “Uncle Joe,” the first person to bottle Coca-Cola in 1894. Biedenharn’s innovative bottling venture affected not only the world of business, but also the fine arts world by making possible the realization of the dreams of his musically talented daughter, Emma Louise, whose endeavors he encouraged and underwrote.

The Coca-Cola industry, built upon the foundation he laid, stands as a memorial to his contribution to the world of trade. The Biedenharn Museum stands as a memorial to his support of the arts. Naturally, the museum, which was Biedenharn’s home for most of his adult life, is full of irreplaceable Coca-Cola memorabilia and Emma Louise’s art and musicale artifacts.

A Vista™ by LLumar® dealer who was very familiar with the museum pointed out to the curators that the sunlight flowing through the windows was causing damage to the interior furnishings. The curators had been concerned for a while but did not know what to do to provide solar protection and yet maintain the views of the beautiful gardens surrounding the property.

## SOLUTION

It was decided that Vista™ by LLumar® Nuance be installed on the windows to block more than 99 percent of ultraviolet rays, to help protect against premature fading.\* The film, when installed, rejects almost half of the total solar energy and reduces heat and glare.

## RESULT

The windows, with Vista film in place, no longer imperil the magnificent 1923 Steinway grand piano in the music room, silk covered panels and art in the dining room, and Coca-Cola mementos and precious furnishings throughout the museum. Furthermore, the clear views through the windows are unaffected by the “invisible” film. Uncle Joe would be pleased that his legend is protected!



**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																
Nuance V48 SR CDF	39	15	46	46	16	11	1.04	0.60	>99	0.84	0.53	47	0.87	38	0	49

**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. (06/16) SP1076