

CASE STUDY: Increased profits after removing excess heat and glare

Building

CAFAM Conference Center

Location

Bogotá, Colombia

Window Film

DL-O5G SR CDF (Gray)

Type

Solar Control Film



SITUATION

The CAFAM Conference Center's newest building was designed to provide state-of-the-art rental space for meetings and conferences, offering more than 25 different rooms and layouts for a variety of corporate needs. Many of its rooms featured a modern look with large windows of clear glass. However, extreme light and heat from these windows rendered the rooms unusable. With these rooms not rented, the building's bottom line was suffering.

SOLUTION

A local LLumar® window film distributor proposed the installation of a unique, dark window film specially designed for architectural glass, DL-O5G SR CDF. No other company in the region offered such a product. The owners were delighted to hear that they had an alternative to curtains, which would have impacted the modern look the windows helped provide, or expensive glass replacement.

RESULT

The results were nothing short of exceptional. While the exterior of the building maintained its sleek, modern appearance, the interior became dramatically more comfortable. The film eliminated excessive heat and glare, enabling the rooms with windows to be rented. The owners praised the professionalism of the LLumar distributor and his installers, and said the benefits of LLumar window film paid for the project in no time.

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 Rejected	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	-	-	-
Deluxe Series <small>Deluxe films are specified for commercial buildings where high levels of heat rejection and glare reduction are needed. Deluxe films are ideal for exterior aesthetics, providing a uniform, non-mirrored appearance. They are scratch-resistant and shield >99% of UV rays.</small>																
DL-O5G SR CDF (Gray)	14	26	60	7	11	11	0.95	0.35	>99	0.68	0.31	69	0.23	64	9	92

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. © 2016 Eastman Chemical Company. LLumar® and the LLumar® logo 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) L1876