

## CASE STUDY: Restaurant regains its lunch crowd thanks to LLumar

### Building

Crep Away Restaurant

### Location

Riyadh, Saudi Arabia

### Window Film

AIR-80 BL SR HPR

### Type

Solar Control Film



## SITUATION

Though it's part of one of Saudi Arabia's most popular restaurant chains, few people were visiting the Crep Away restaurant on Takhassussi Street in Riyadh during daylight hours. The reason? Sunlight flooding through the restaurant's glass walls made its interior seating areas unbearably hot. The building's air conditioning system strained to cool the space, therefore the environment remained too uncomfortable for most to bear.

## SOLUTION

Mohammed Musallam, the general manager, consulted with the local LLumar® dealer and together they selected LLumar AIR 80 window film as the solution to the problem. Once applied to the inside surface of the building's glass walls, this spectrally selective film could immediately improve Crep Away's interior atmosphere by offering 44% total solar energy rejection, 76% visible light transmission, and 99% ultraviolet ray protection.

## RESULT

Musallam reports that LLumar has met all of his expectations. "The film has created a pleasing environment inside the restaurant," he said. "Now the number of guests is increasing during lunchtime, and there are no more complaints about heat. LLumar really is a perfect solution for our restaurant." Thanks to this simple transformation in interior comfort, Crep Away is now drawing a daytime crowd.

## 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 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	0	0	0
Specialty	While other films employ very dark tinting to achieve similar levels of heat rejection, AIR film's lightly-shaded tint reduces heat but not visibility. AIR not only provides protection against harmful ultraviolet radiation; it also significantly reduces heat.															
AIR-80 BL SR HPR	40	6	54	76	9	9	1.03	0.65	99	0.82	0.56	44	1.36	35	0	16

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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 (3mm), clear glass. All values averaged from routinely accumulated quality control data.

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