

## CASE STUDY: Restaurant eliminates heat and glare

### Building

Ecco Restaurant

### Location

São Paulo, Brazil

### Window Film

N-1050 SR CDF (Neutral)

### Type

Solar Control Film



## SITUATION

Ecco Restaurant, one of the most highly-reputed dining establishments in Jardins, São Paulo, sought to eliminate the excess heat and glare caused by the sun's rays passing through its large glass windows. The restaurant's owners wanted to improve the comfort of the customers dining near the windows without compromising the view.

## SOLUTION

The restaurant owners chose to have LLumar N-1050 window film professionally installed. This high-performance neutral film features 41% total solar energy rejection, 50% visible light transmittance, and blocks 99% of the damaging ultraviolet rays, increasing comfort and helping to save energy costs.

## RESULT

After the installation, owner Mr. Sérgio Roberto Cusin commented, "LLumar window film gave my customers more privacy, while allowing them to see through the windows. Discomfort and glare were eliminated. The tables by the windows can now be used on hot sunny days. We have reduced energy costs and are able to operate our air conditioning more efficiently. Our LLumar window film also protects against UV rays, which will help to keep our upholstery and decorations from fading."

## 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	-	-	-
Neutral Series																
Neutral films reduce glare, provide good heat rejection and are specified where a soft, neutral appearance is desired. These films are made with sputtered technology. Neutral films are scratch-resistant and shield 99% of UV rays.																
N-1050 SR CDF (Neutral)	46	12	42	50	14	11	1.07	0.68	99	0.89	0.59	41	0.85	31	-3	44