

## CASE STUDY: Helping Red Bull Racing gain pole position

### Building

Red Bull Racing Office

### Location

Milton Keynes, United Kingdom

### Window Film

R-20 SR CDF (Silver)

### Type

Solar Control Film



## SITUATION

Red Bull bought Jaguar Racing; a logical continuation of Red Bull's longtime enthusiasm for motor and extreme sports. Following the change of ownership, the team's offices were refurbished and restyled to reflect Red Bull's official colors. Accordingly, the bulk of the building's exterior was painted silver, and the architect wanted to continue the effect across the whole façade.

## SOLUTION

The architect asked LLumar to suggest a silver-effect high performance window film to cover the glazing on the façade. LLumar reflective solar control window film R20 SR CDF was recommended for the job. Not only would this film give the modern mirror look sought by the architect, it would also significantly reduce solar glare; another important benefit the client desired.

## RESULT

After the film was professionally installed within the deadline and within budget, Red Bull Racing was able to achieve sophisticated style with the added benefits of heat and glare reduction. Now Red Bull has a 21st century office to match its racing ambitions.

## 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	-	-	-
Reflective Series	Reflective films feature reflectance on both interiors and exteriors for superior reduction in summer cooling costs and heat retention in winter. Providing a high level of glare and heat control, they are scratch-resistant, shield >99% of ultraviolet rays, and provide excellent heat rejection.															
R-20 SR CDF (Silver)	11	57	32	15	62	63	0.90	0.22	>99	0.58	0.20	80	0.75	77	13	83

## 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](http://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) L1862