



LLumar® Architectural Window Film
Upgrade your glass.

Trust LLumar® window film for your next project



As one of the world's leading brands of architectural window film, LLumar has been enhancing iconic, well-known buildings around the world for decades. From the Red Bull Racing Office in Milton Keynes, United Kingdom to the Hyatt Hotel in Houston, Texas, LLumar consistently exceeds the expectations of the most discerning customers.

The diverse line of window film products can help provide the tools to raise the style, performance and safety of buildings to new levels. LLumar is the choice of many architects, designers, energy solution providers, contractors, and building owners around the world and for good reasons:

- *Provides comfort*
- *Conserves energy*
- *Enhances aesthetics*
- *Provides privacy and inspires design*
- *Improves safety and security*

All LLumar films are installed by authorized dealers in accordance with factory procedures and carry a limited manufacturer's warranty for film and labor. Your dealer can provide you with technical information and warranty details.

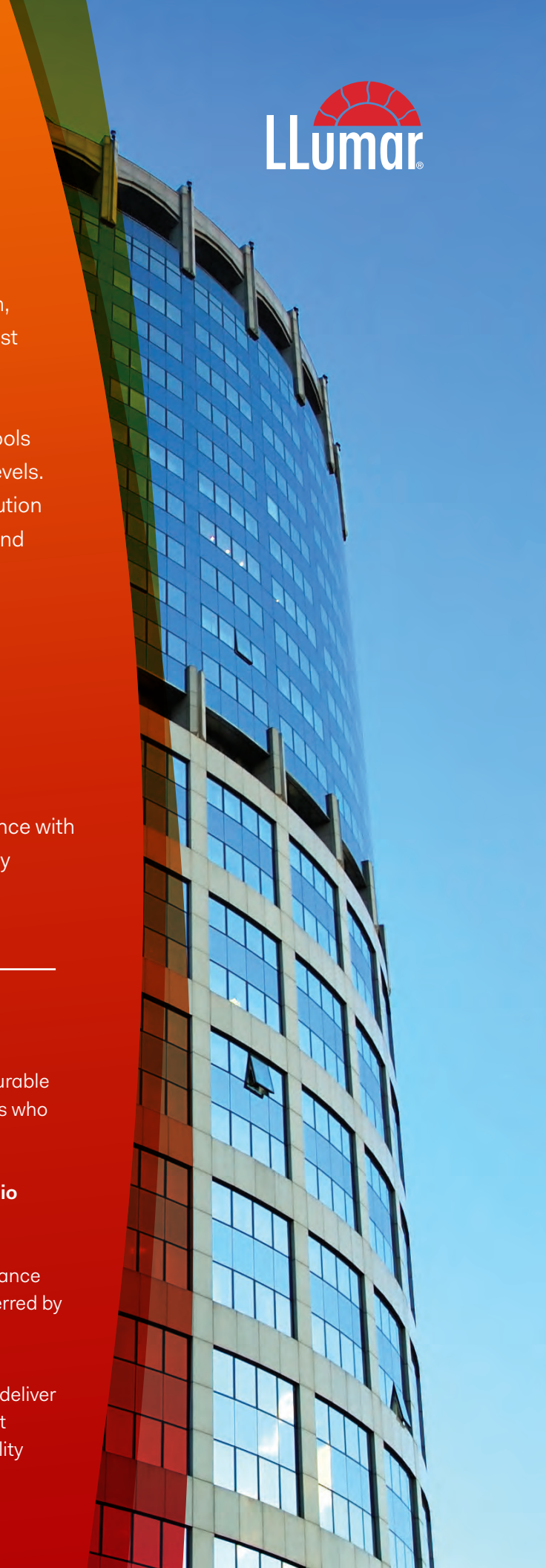
Trust our professional installers

LLumar window film bonds to the glass and forms a strong seal for durable and long-lasting performance. The result is happy building occupants who appreciate the beauty and function of their windows and glass.

An exclusive group of dealers offer an expanded product portfolio featuring high performance window films.

Our **Vista™ by LLumar** product series provides optimal performance with a broader selection. These high heat rejection films are preferred by designers and their clients for their neutral appearance.

This series also includes our revolutionary **EnerLogic®** films that deliver year-round comfort and energy cost savings. These ultra-efficient low-e films are preferred by commercial building owners and facility managers for their return on investment.



Provides comfort

If either you or your client is considering replacing an existing glazing system with tinted windows, there's a less expensive yet effective alternative you should know about: LLumar solar-control window film.

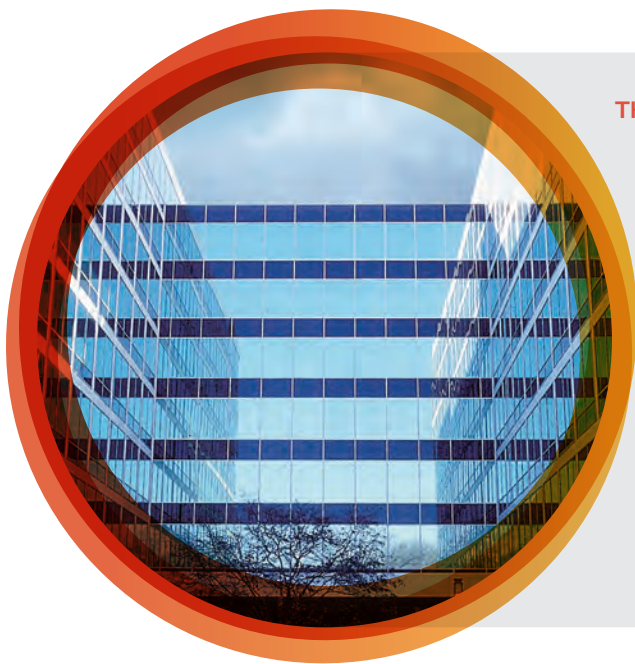
Applying window film to existing windows provides a cost-effective option that can increase occupant comfort. A recent study reports that 80% of office workers have trouble concentrating if the temperature is higher than normal. And nearly two-thirds say that performing typical tasks take up to 25% longer.

In addition to reducing heat in your building, windows treated with LLumar solar-control window film allow natural light in without glare. Leaving blinds and shades open reduces the need for lamps and overhead lighting – reducing energy costs further – while helping people maintain a much desired connection with the outdoors.

By reducing heat and solar energy, windows tinted with LLumar solar-control window film can help “even out” the hot and cold spots throughout your building. The result is more satisfied, comfortable building occupants.

It also works in attracting premium tenants who are searching for a sustainable work environment and “green upgrades” that can provide proven energy savings.

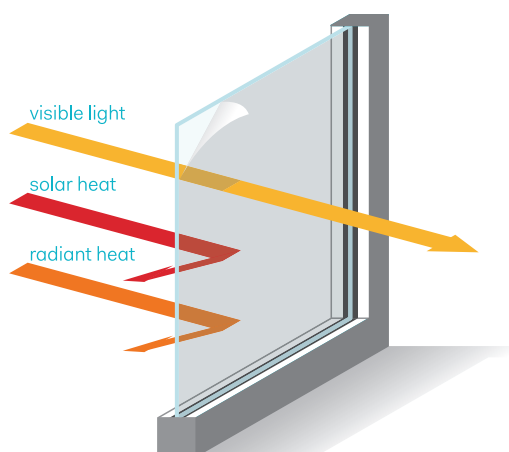
When comparing costs, it's important to remember that the latest solar-control window film technology costs a fraction of what you'd spend for replacement windows, and works to reduce the HVAC load.



THE HALL OF THE STATES | Washington, DC

The building's impressive exterior windows left its interior office space simmering in summer heat, which led to high energy costs, resulting from the building's heavy use of air conditioning.

Building management struggled with excessive energy costs. After a consultation with the local LLumar dealer, the Hall of the States opted for LLumar reflective series R20 Silver window film, fitted on the inside of the building's handsome green window glass. After the window film was installed the owners realized how much it enhanced the beauty of the building as it created a mirrored green façade. Most importantly, the film rejected 77% of the solar energy that impacted the glass.



Professionally installed window film allows visible light in while it blocks solar heat and harmful UV rays.



Conserves energy

LLumar energy-saving window film can boost the performance of nearly any glazing system, significantly reducing energy consumption and peak demand and lowering carbon emissions. Professional energy audits estimate that buildings retrofitted with LLumar energy-saving window film could realize annual energy savings as high as 15%. Return on investment can be achieved in as little as three years.

EnerLogic® by LLumar window film has year-round impact. The low-e film keeps heat in its place whether it is hot or cold outside. With improved window insulating performance EnerLogic helps maintain indoor comfort.

Is Your Building Energy Efficient? The U.S. Department of Energy estimates that one-third of a building's cooling load is from solar heat gain through windows, and nearly 75% of existing windows are not energy efficient. LLumar offers an energy audit process that applies widely accepted U.S. Department of Energy data to analyze how LLumar energy-saving window films help improve efficiency to deliver significant savings and rapid payback.

HYATT HOTEL | Houston, TX

The 924,000-square-foot Hyatt Regency Houston offers state-of-the-art technology, 360-degree views of the city from an award-winning revolving restaurant, and spacious guest rooms. But temperature complaints from guests due to the solar heat were diminishing an otherwise high-quality experience. A high-performance window film was suggested as an energy-efficient investment that would immediately lower utility costs and solve guest discomfort. After analyzing dozens of window films, EnerLogic® by LLumar outperformed all competitors in total energy savings and insulation performance.

When savings were calculated by comparing sub-meter data, the rooms with window film showed a 23 percent reduction in cooling energy use and 25 percent in heating energy. Using national average installation costs, these energy savings provided a payback on the hotel's investment in three-and-a-half years, or an ROI of 28 percent.



Enhances aesthetics

When needed, window film can dramatically change the exterior appearance of a building. Many times a large building can look like a chessboard when occupants use shades in different positions throughout the day, and choose to “personalize” their space with window clutter. Such a look can give a building a negative and outdated feel.

By installing the appropriate LLumar window film, a unified and updated look is given to an outdated building. In fact, installing window film can be a much more economical solution than changing the façade of the building. And, the new look can be achieved with minimal disruption to occupants during the installation process. Vista by LLumar offers an extended portfolio of high heat rejection with the added appeal of a neutral appearance.



RED BULL RACING OFFICE | Milton Keynes, United Kingdom

After Red Bull bought Jaguar Racing, they wanted to refurbish and restyle the office 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. The architect asked LLumar to suggest a silver-effect high performance window film to cover the glazing on the façade. LLumar reflective series R20 Silver window film was recommended for the job. This film gives the modern mirror look and significantly reduces solar glare—another important benefit desired by the client.



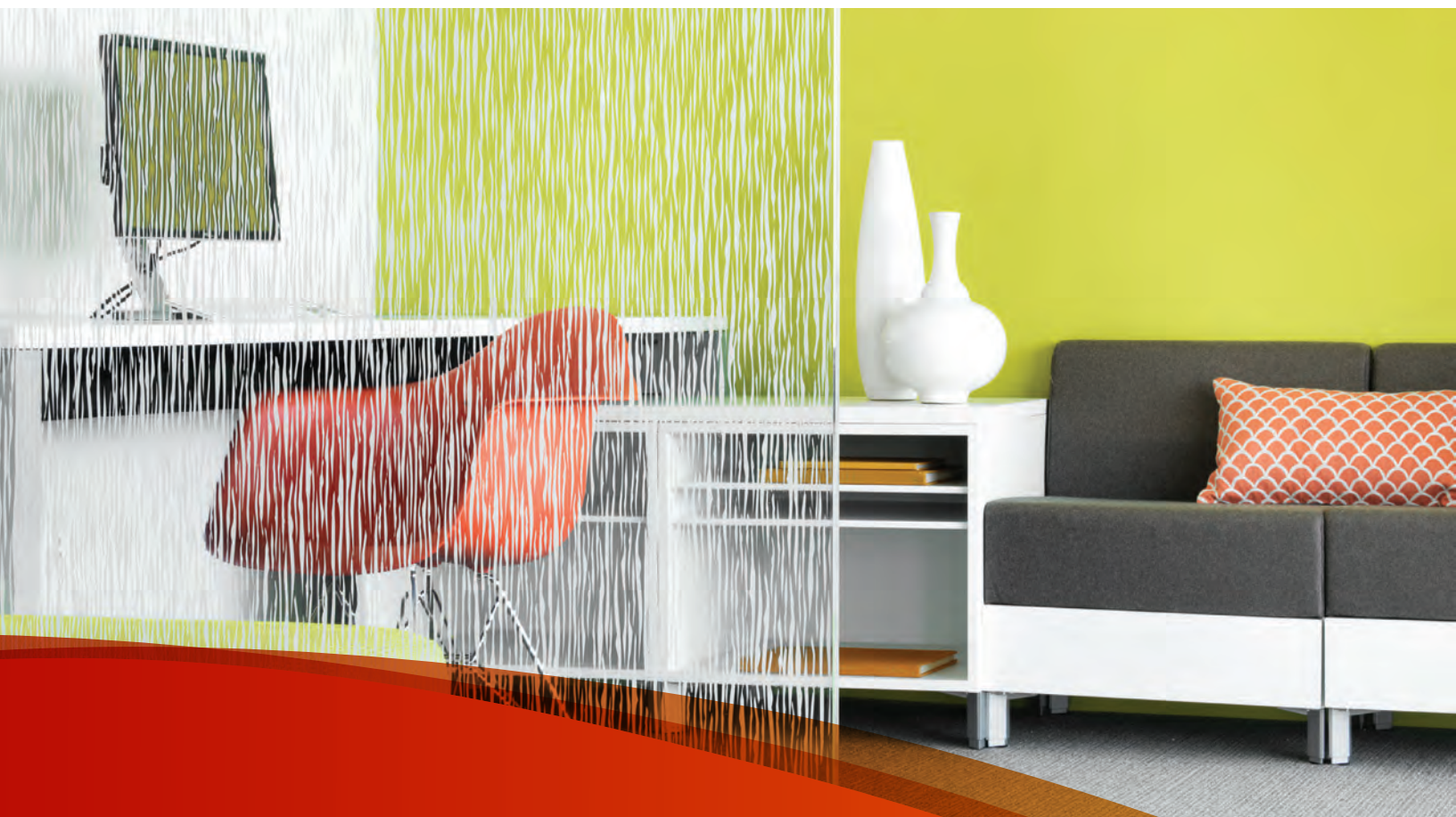
Provides privacy and inspires design

Able to brilliantly enhance existing properties or new projects, LLumar® iLLusions™ is everything you need it to be. Durable yet easy to remove, it can be a lasting feature or a temporary update. For a wide range of design and project goals, you'll find it hard to resist experimenting with LLumar iLLusions. That's because this line of over 50 styles of decorative film has been carefully curated to spark ideas and fuel imagination.

You'll be inspired by how well LLumar iLLusions film complements your design skills and your space. Remarkable choices set you free to create stunning, functional public and private environments. You'll find it easy to add unique depth and personality without sacrificing practical considerations.

ERICSSON HEADQUARTERS | Plano, Texas

Ericsson wanted to maintain an open and contemporary atmosphere while providing privacy for employees, in conference rooms and in common areas. Enclosing spaces or replacing existing glass in the four-story office complex was not an option. LLumar iLLusions Frost (NRM-PS2) window film features an attractive sandblasted appearance that delivers privacy without sacrificing light. Over 20,000 square feet of film was installed on the glass of Ericsson's stairwells, access areas, conference rooms, common spaces, and office cubicles.





Safety and security

LLumar protective window film helps guard against the unexpected. Storms, earthquakes, explosions, vandalism — both natural and man-made disasters are on the rise worldwide and the consequences to people and property can range from unsightly to costly to deadly. Made of a clear, heavy-duty polyester compound, LLumar safety film provides a thin, transparent protective barrier against these threats.

LLumar protective window film helps guard against:

- Forced entry – makes it harder for thieves to “smash and grab” retail display merchandise
- Bomb blast and severe weather – helps reduce damage and likelihood of injury from flying glass
- Graffiti – when vandals strike, the transparent film is peeled away – along with the graffiti

While disasters can't always be predicted, you can prepare with LLumar security window film.



ST. MARY'S SCHOOL | Johnson City, TN

Recent security events have prompted heightened safety awareness for schools of all sizes, with administrators focused on ways to protect students, staff, and faculty. For St. Mary's School in Johnson City, Tennessee, building security is a top priority. “We wanted to make sure we had safety measures in place to help prevent or deter an emergency situation,” explains Randi McKee, principal at St. Mary's School. The security film acts as a barrier to help hold glass in place upon impact reducing possible injuries; helps deter intruders and may slow attempts to break windows.

The faculty and staff feel more secure. Other benefits include improved classroom light quality and lower heating and cooling costs. “Energy savings provided by the window film will be very beneficial to our bottom line,” says McKee, “but the primary driver for us was security and the safety of our children.”



EASTMAN

Corporate Offices



Corporate overview

Eastman is proud to have two of the largest and most integrated window and performance-coated film manufacturing sites in the world. With more than 55 years of experience in film production and technology we have a deep and abiding commitment to operational excellence, developing products that respond directly to market demand.

We work directly with a variety of designers and customers to create products that improve the efficiency and performance of glass. We offer one of the industry's widest arrays of film technologies, produced in a clean-room environment to ensure optimum quality.

Contact us with your building envelope and interior design challenges and questions. We are here to help. We can work with your building's window needs and your budget goals to help you select the right window film.

EASTMAN

LLumar is pleased to have strict quality systems and has been ISO 9001:2008 Certified (Certificate FM 35957).

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