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.

### WINDOW FILM PERFORMANCE DATA

#### Clear Glass

<table>
<thead>
<tr>
<th>% Total Solar Transmittance</th>
<th>% Total Solar Absorptance</th>
<th>Visible Solar Reflectance</th>
<th>% Light-to-Solar Heat Gain Ratio (LSG)</th>
<th>% Summer Solar Heat Gain Reduction</th>
<th>% Winter Heat Loss Reduction</th>
<th>% Clear Reflectance</th>
</tr>
</thead>
<tbody>
<tr>
<td>83</td>
<td>8</td>
<td>9</td>
<td>90</td>
<td>8</td>
<td>8</td>
<td>1.03</td>
</tr>
</tbody>
</table>

#### EnerLogic® Series

- **EnerLogic® VEP5 SR TVA**: 20
- **EnerLogic® VEP70 SR TVA**: 49

#### Spectra-Selective Series

- **SpectraSelect V65 SR CDF**: 35
- **SpectraSelect V66 SR CDF**: 44
- **SpectraSelect V760 SR CDF**: 38

#### Harmony Series

- **Harmony Terre V31 SR CDF**: 19
- **Harmony Ciel V40 SR CDF**: 34
- **Harmony Terre V41 SR CDF**: 29
- **Harmony Terre V51 SR CDF**: 32

#### Dual-Reflective Series

- **Ultimo V14 SR CDF**: 7
- **Celeste V18 SR CDF**: 15
- **Luminance V28 SR CDF**: 23
- **Mirage V38 SR CDF**: 30
- **Nuance V48 SR CDF**: 39
- **Sunrise Bronze V33BR SR CDF**: 25

#### Low-E Series

- **Ambiance VE35 SR CDF**: 20
- **Radiance VE50 SR CDF**: 37

#### Ceramic Series

- **Ceramic 35 SR PS (Neutral)**: 28
- **Ceramic 45 PS (Neutral)**: 39
- **Ceramic 55 PS (Neutral)**: 46
- **Ceramic 65 PS (Neutral)**: 56

#### Atmosphere Exterior Series

- **Atmosphere VAx14 ER HPR**: 7
- **Atmosphere RXA20 ER HPR**: 12
- **Atmosphere RXA35 ER HPR**: 21
- **Atmosphere RXA50 ER HPR**: 38
- **Atmosphere NXA20 ER HPR**: 21
- **Atmosphere NXA35 ER HPR**: 34
- **Atmosphere TXA80 ER HPR**: 41
- **Atmosphere SXA CL ER PS4**: 82
- **Atmosphere SXA CL ER PS7**: 81

#### Safety & Security Series

- **Luminance Safety V28 SR PS8**: 21
- **Mirage Safety V38 SR PS8**: 31

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EnerLogic® series film helps keep the heat out in the summer, like traditional reflective window film. But unlike EnerLogic® window film does what reflective film can’t do it helps keep the heat inside. EnerLogic® Window Film is perfect for common all buildings, schools, government buildings, health care facilities, retail spaces, and residences.

Mirage Safety V38 SR PS8, Luminance Safety V28 SR PS8, Atmosphere SXA CL ER PS4, and Atmosphere SXA CL ER PS7 films are ideal for storefronts, commercial buildings, and home offices that need internal light control and maximum heat protection.

Spectra-Selective series film offers excellent heat rejection and energy savings with a virtually invisible appearance. They’re made with advanced technologies that single out regions of the solar spectrum resulting in a film that lets in more light than heat. These films are ideal for new or existing storefronts, retail buildings, or windows that need internal light control and maximum heat protection.

Harmony films utilize proprietary metals and ceramic layers designed to provide superior heat rejection and moderate glare control with extremely low interior and exterior reflectivity. Excellent for both homes and stores, these products were designed for areas with excessive heat and glare problems.

Dual-reflective films offer superior energy savings through lower interior glare and higher exterior reflectivity allowing for excellent views to the outside but day and night. Dual-reflective films are suggested for commercial applications where heat and glare are the primary concerns.

Neutral series films emit heat and save energy with reduced interior and exterior reflectivity. They provide a very uniform light transmission without any strong coloration. These films are clear favorites for residential and commercial applications including showrooms and high-visibility display windows.

Low-E films are ideal for residential and commercial applications where energy conservation is of primary importance.

Ceramic films feature neutral color and low reflectivity for minimal changes in exterior appearance. Ceramic films improve the view from inside, especially at night, in daylight the film reflects 30% less light, glare, and heat rejection. These low-e films are ideal for coastal environments providing superior color stability and energy efficiency.

Resulting in a film that lets in more light than heat. These films are ideal for storefronts, commercial buildings, and homes that need minimal light control and maximum heat protection.

Spectrally-Selective films offer excellent heat rejection and energy savings with a virtually invisible appearance. They’re made with advanced technologies that single out regions of the solar spectrum resulting in a film that lets in more light than heat. These films are ideal for new or existing storefronts, retail buildings, or windows that need internal light control and maximum heat protection.

EnerLogic® Series, Spectra-Selective Series, Harmony Series, Dual-Reflective Series, Low-E Series, Ceramic Series, Atmosphere Exterior Series, and Safety & Security Series films are applied to the exterior face of the glazing and provide excellent heat rejection performance.

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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.

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