



## Fading & Sun damage:

There are lots of misconceptions about what causes furniture fading, and that's probably because many people hear different things about the actual damage caused by solar heat and radiation. Fading is the change in color over time in furniture upholstery, wood, art and paintings, and other items.

So, what actually causes furniture to fade?

### ULTRAVIOLET LIGHT

Testing and science have shown that – contrary to common understanding – ultraviolet light (UV A & UV B) makes up about 40 percent of the cause of furniture fading. This is the most harmful part of sunlight, and it certainly speeds along the fading process. One of the most notable benefits of LLumar window films is that it reduces 99 percent and more, of ultraviolet light.

### VISIBLE LIGHT

In addition to UV rays, visible light (such as the rays of sunlight you see on a sunny day) makes up about 25 percent of the cause of fading. Window film with darker tinting can help to reflect and/or block some of the visible light that is fading your furniture.

### SOLAR HEAT

Solar heat – the warm sun that you *feel* – also causes furniture to fade. It makes up another 25 percent of the cause. LLumar's High Performance film solutions can provide some heat rejection benefits to reduce this cause of furniture fading.

### OTHER FACTORS

While window film can reduce and slow down fading with all of the above causes, it – unfortunately – has little effect on the remaining 10 percent of the cause of fading. Some factors making up this 10 percent include interior lighting, humidity, pollutants, and the stability and quality of the dyes and your furniture, itself.

While no window films or any other window tinting or covering can completely stop fading, LLumar High performance films significantly reduce the major causes of fading.