

■ **FACTS**

**Building**  
Commercial/Retail  
**Location**  
London  
**Film**  
Helios THE 80 (THE 80 BL ER HPR)  
**Function**  
Significant reduction of direct heat from the sun & protection of interior



■ **INITIAL SITUATION**

The Noble Wine Shop specialises in quality wines and local craft beer and is focused on quality and diversity. In the past, they have experienced problems with heat in the summer, with a further problem of printed labels on the wine bottles in the shop window starting to fade. Also, the labels on in the shop window faded fast.

The team at Noble Wine Shop became aware of high performance window film as a possible solution to their problems and contacted Sun X, a LLumar Authorized Fitment Center.

■ **SOLUTION**

In order to maintain an unrestricted view from the outside into the shop, whilst at the same time protecting from solar heat gain and reducing the likelihood of fading, the external window film Helios THE 80 was chosen because of its excellent performance and very high light transmission.

■ **RESULT**

Once the film was installed, the temperature in the wine shop decreased noticeably, which helped to improve conditions significantly for both employees and customers. Additionally, wine bottles and labels in the shop window are now protected against the effects of UV, helping to reduce fading and maintaining a high quality appearance.

■ **PRODUCT PROPERTIES:**

- “Clear” solar control exterior grade film – very light blue tint complements natural blue/green colour of standard glass
- Infra-red absorber material is contained within the film structure; this material has very little effect on visible light but blocks infra red
- Special technology polymeric scratch resistant coating provides increased durability and easier cleaning – patent applied for
- Helios technology includes hydrophobicity (water resistance), oleophobicity (oil resistance) and UV blocking, giving excellent weather resistance and durability
- Improvement of working conditions – reduction in solar heat gain
- Outstanding optical properties, minimal impact on visual appearance of building
- No metal so it does not interfere with mobile phones, radios, etc., and zero possibility of demetallisation
- Does not increase visible light reflection of glazing, ideal for shop windows

- Excellent UV protection throughout the film structure helps to reduce fading of textiles, furniture, and works of art
- No significant change in haze and no dependence upon viewing angle for appearance
- Well adapted to single, double and double low-E insulating glazing systems
- Exterior installation (can also be used for internal installation)

■ **TABLE OF DATA**

Solar Energy Transmission	43%
Solar Energy Reflection - Exterior	6%
Solar Energy Absorption	50%
Visible Light Transmission	77%
Visible Light Reflection - Exterior	8%
Visible Light Reflection - Interior	8%
UV Transmission	<1%
Glare Reduction	12%
Total Solar Energy Rejected	45%

