

## PHOTOVOLTAIC SKYLIGHT RENOVATION

The Lumen Shopping Center in Mexico City boasts a PV skylight, covering 2,300 m<sup>2</sup> (24,700 SqFt).

This energy-generating sunshade structure manages direct solar radiation for a comfortable outdoor experience.

Onyx Solar crafted 800 PV Glass units with crystalline silicon solar cells. The system size amounts to 258 kWp, leveraging optimal sun exposure to generate over 347,000 kWh/year. This power supply keeps 19,800 light points active continuously while preventing the emission of 233 tons of CO<sub>2</sub> into the atmosphere annually.

The layout was tailor made for Lumen to create an energy generating lattice that provide a comfortable shadow to the customers meanwhile they do shopping, it also allows the entrance of light optimizing the nominal power of each square meter following the customer's desires.



### TECHNICAL DATA

Nominal Power (Wp/m <sup>2</sup> )	128 Wp/m <sup>2</sup>
Visible Light Transmittance (VLT)	36%
Solar Factor (g-value)	29%
U value (W/m <sup>2</sup> K)	N/A
U value (Btu/h ft <sup>2</sup> °F)	N/A
Light Reflection (external)	8%



TECHNICAL DATA SHEET



## LUMEN SHOPPING CENTER MEXICO CITY, MEXICO

### SKYLIGHT

CRYSTALLINE SILICON TECHNOLOGY



MORE INFO IN VIDEO

