

# Bristolite<sup>®</sup> Daylighting Systems

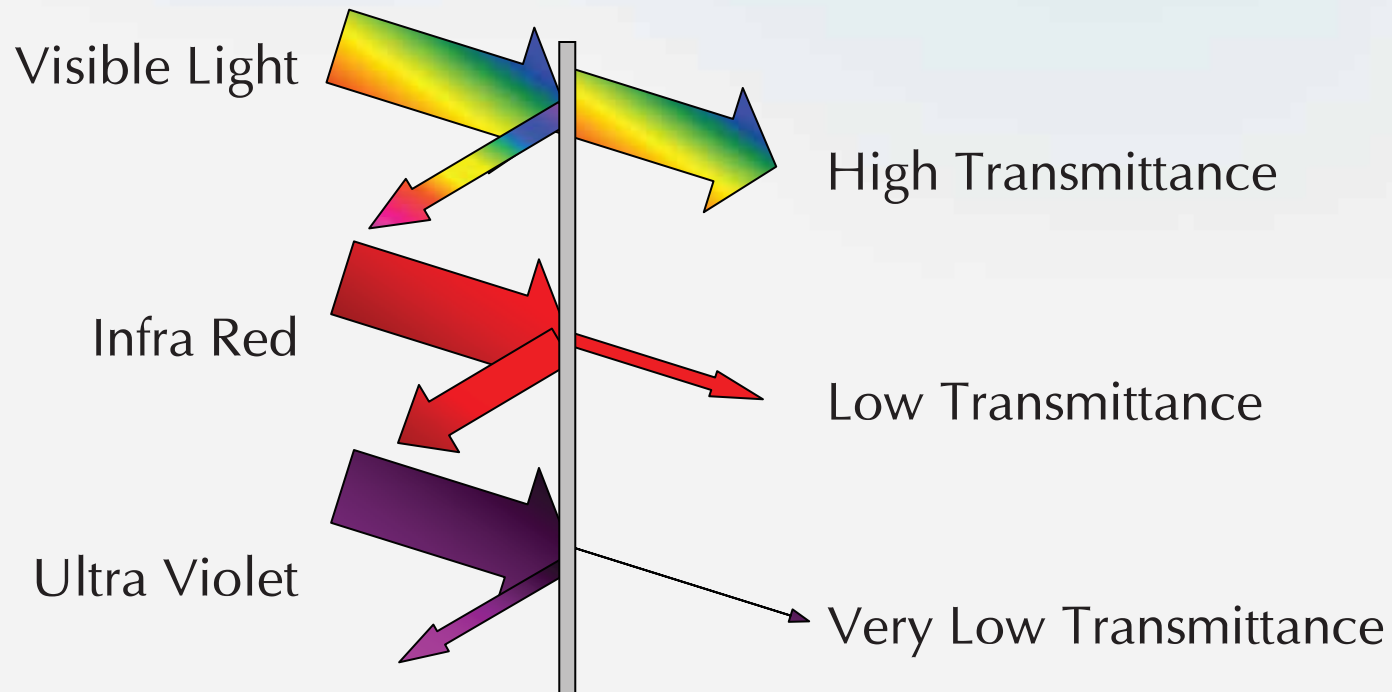
*Coollite*

Spectrally Selective Skylights & Coatings

- Product
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## Product

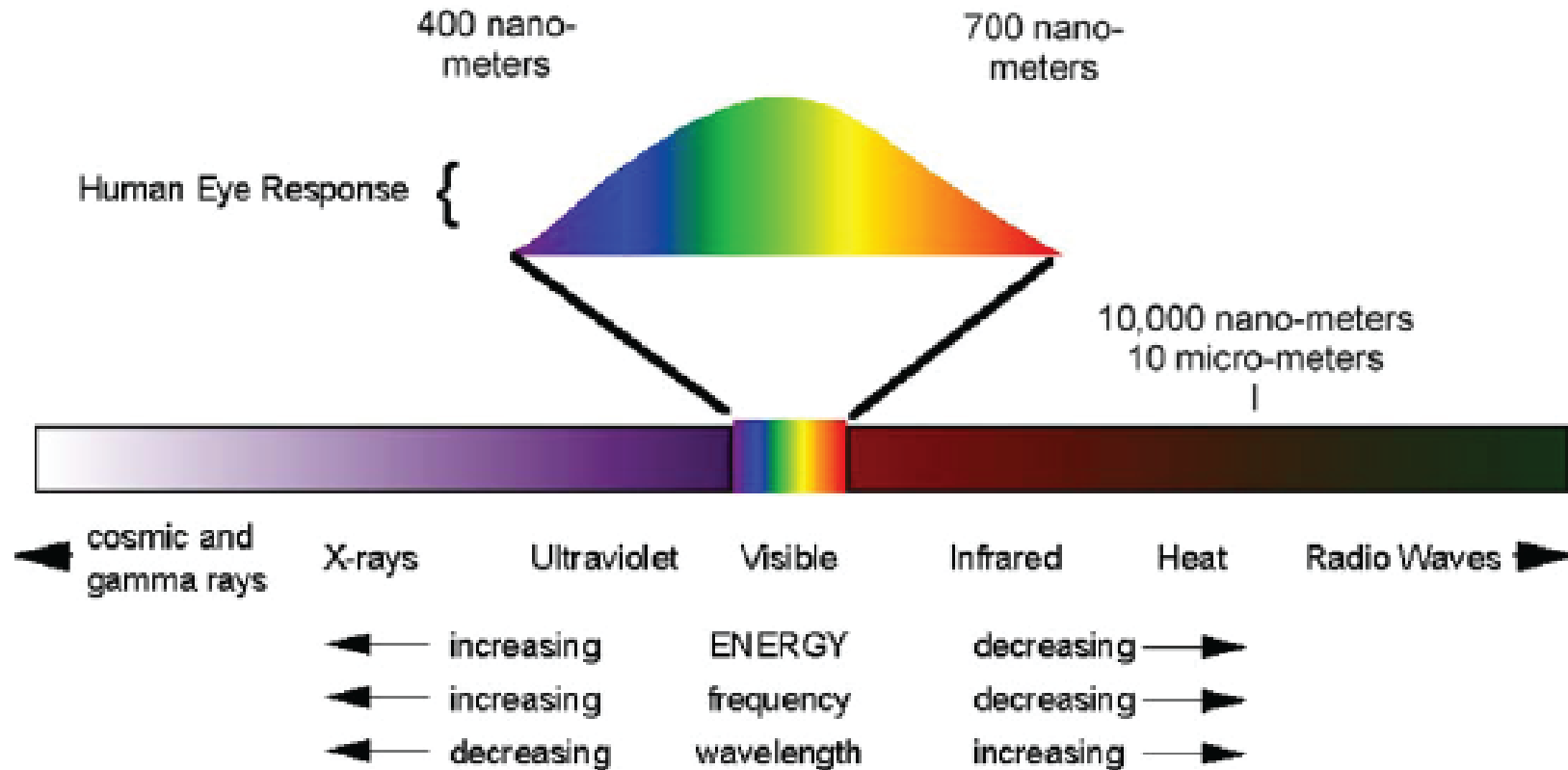
- Energy Efficient Spectrally Selective Low-E Skylights & Coating.
- Spectrally selective Low-E glazing allows for high visible light transmission with substantially reduced heat transmission.



## Product (cont...)

- Is vision enhanced by matching the spectral sensitivity of human eyes to sunlight.
- Different colors are available with different energy reduction characteristics based on coating thickness.
- Blocks out almost all UV(99.9%).
- Depending on thickness the coating transmits 70% to 30% visible light and blocks 50% to 95% of infrared light.

## Vision Enhanced



## Applications

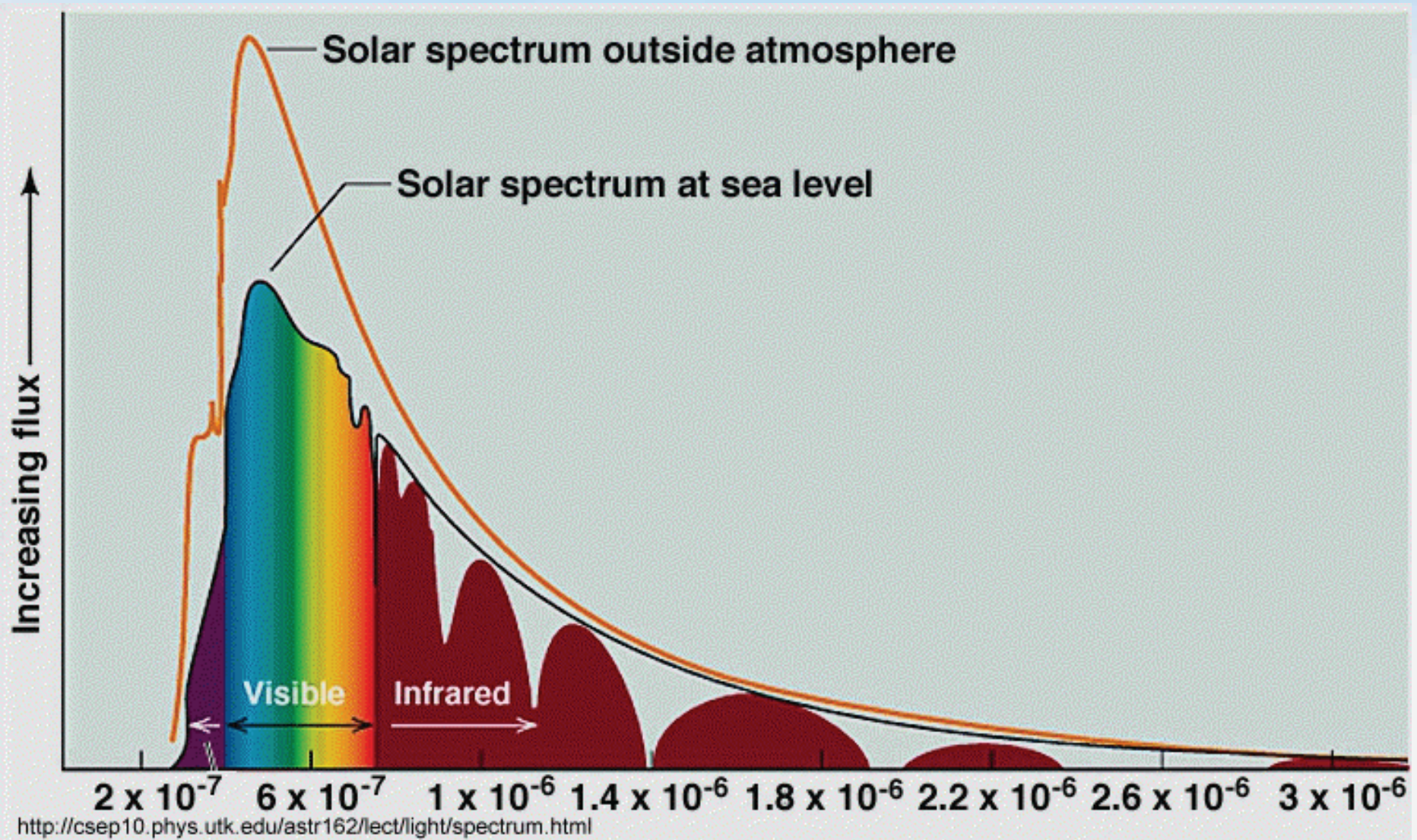
- Can be provided on Acrylic, Cellular Polycarbonate, Polycarbonate Sheet, PET, Nylon, Glass and other glazing materials.
- Excellent for roof domes, skylights, walk ways, conservatories and other buildings where it is desirable to admit sufficient light while keeping excess heat to a minimum and to reduce cooling load in buildings with large windows, awnings, indoor pools, etc.
- Can be incorporated into new construction or be 'added-on' in some applications by replacing existing glazings.
- Currently the Bristolite standard Coollite is: Coollite acrylic over white prismatic.

## Benefits ...

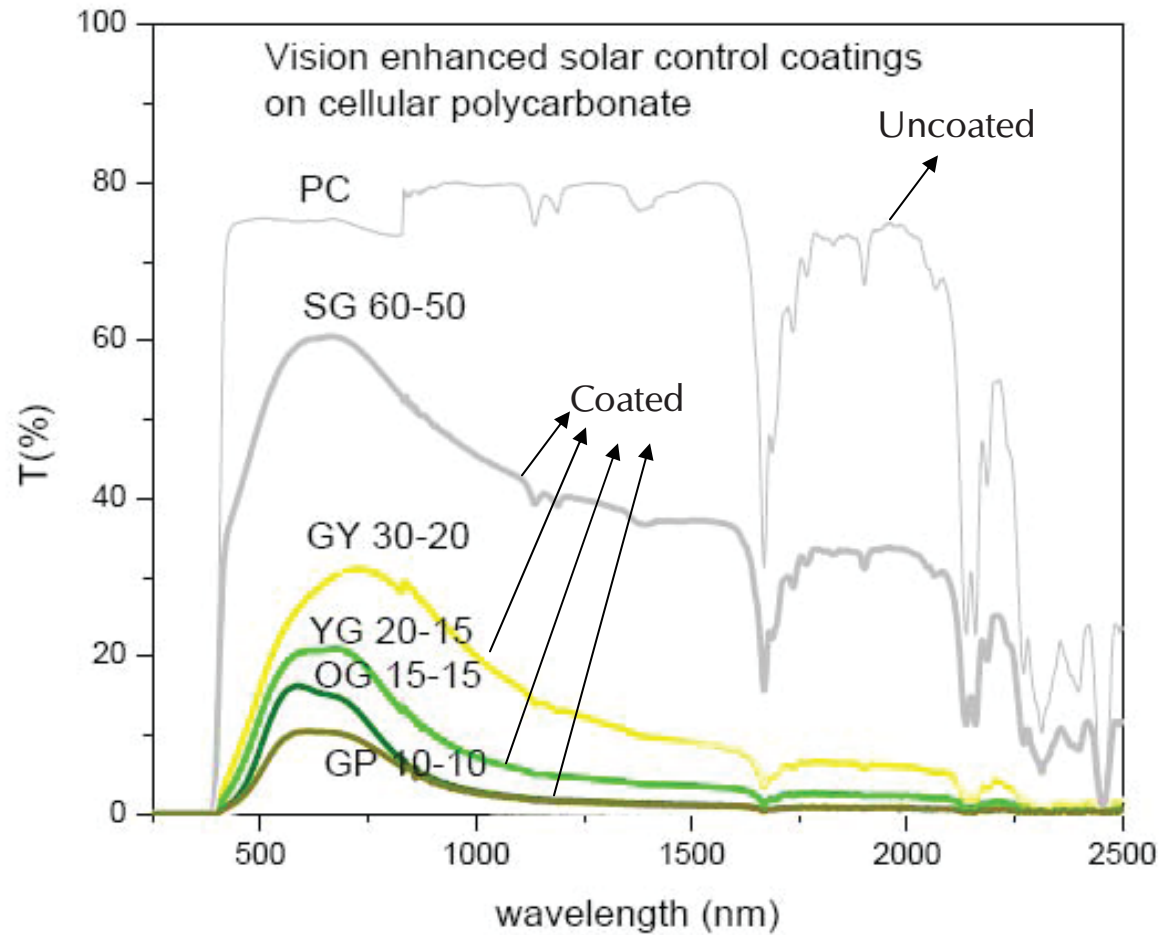
- Reduce cooling load & cost due to incident solar energy.
- Install smaller and more efficient air conditioners. Increase life span of cooling equipment.
- Secondary benefit of reduced green house gases due to reduced energy demand.
- Cuts down inefficient energy production by reducing peak demand due to hot sunny days.
- Meets state and local mandates for installing energy efficient skylights.
- Creates significant energy savings and is environmentally friendly.

## Performance Data

### Solar Spectrum

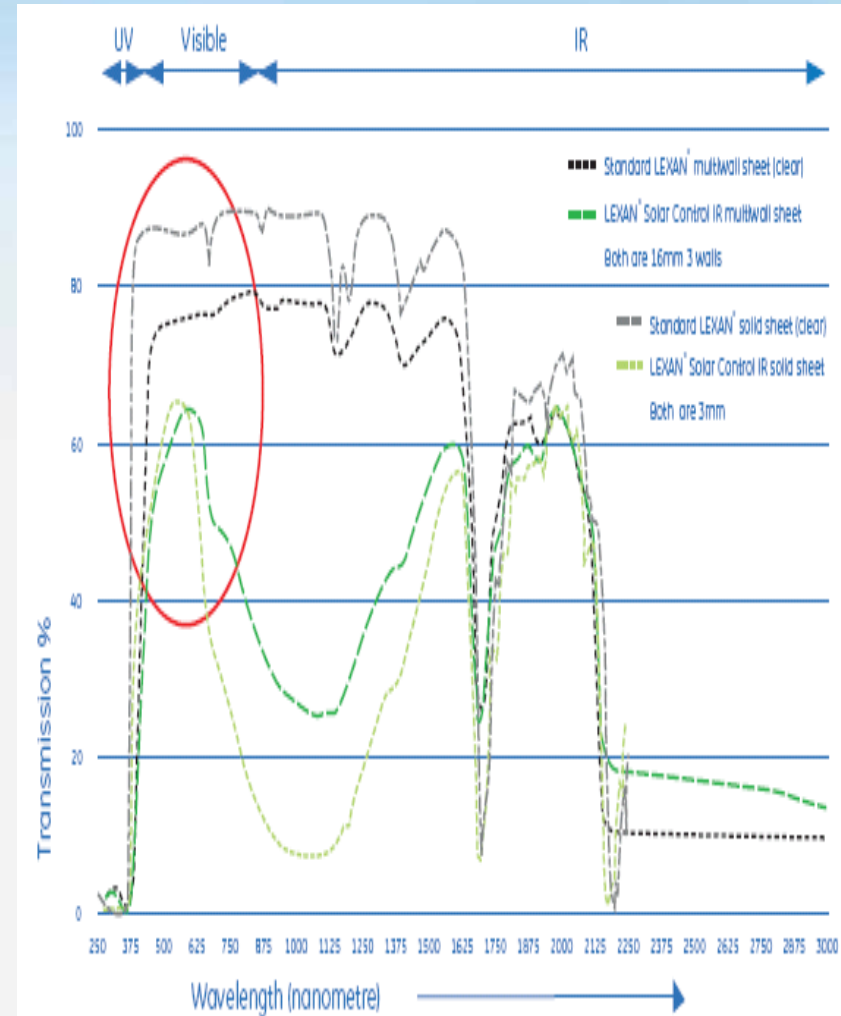
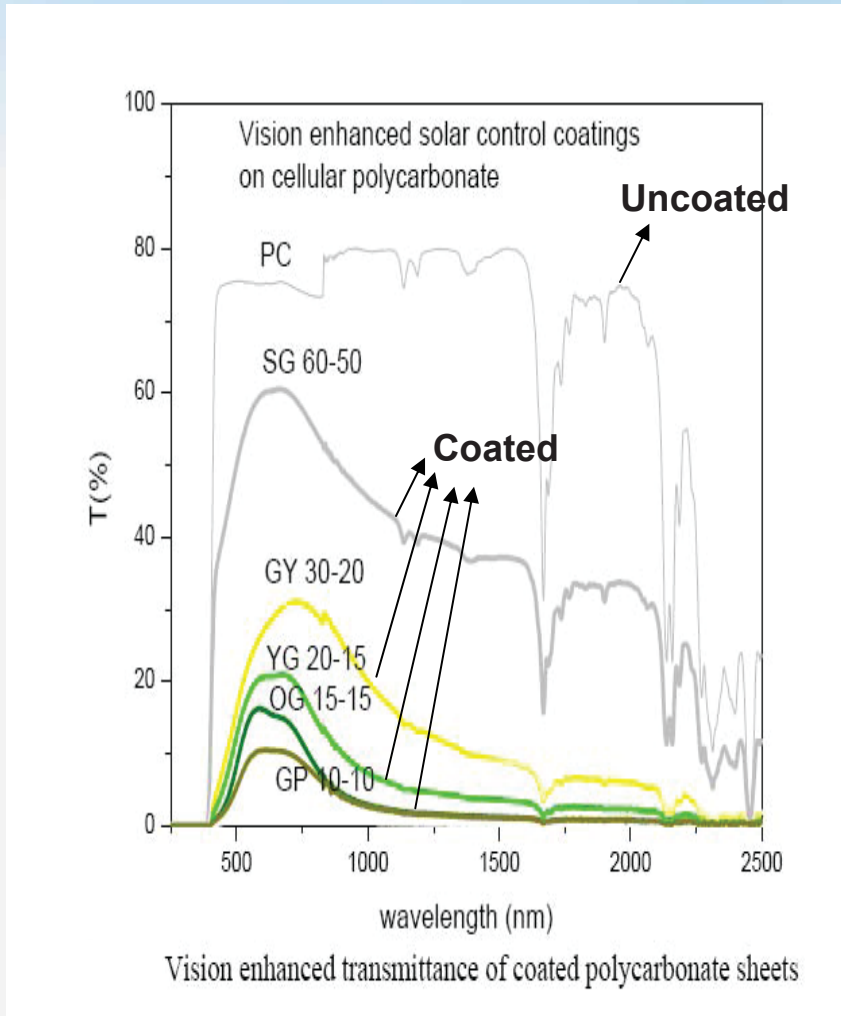


## Performance Data – 8mm Cellular Polycarbonate

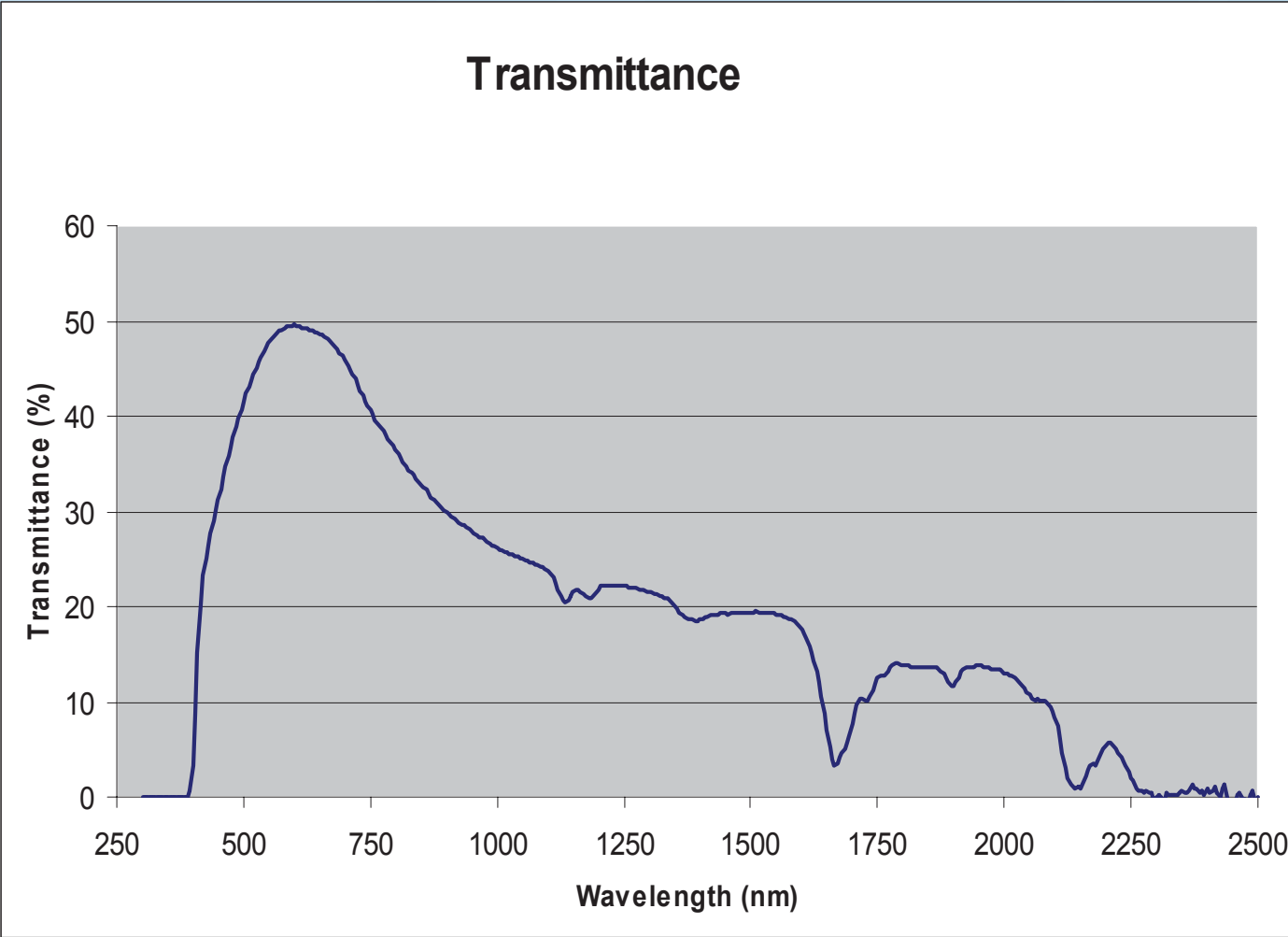


Vision enhanced transmittance of coated polycarbonate sheets

## Comparison of Coollite Coating vs. GE Lexan



# Performance Data: 3mm Acrylic Sheet



## Skylights



Residential



Commercial

# Skylights



Municipal Buildings & Schools

## Skylights



Municipal Buildings & Schools

# Skylights



Municipal Buildings & Schools

## Skylights



Municipal Buildings & Schools

# Bus Shelters



# Greenhouses



# Canopies



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