

# *Silvermere Lighting*

*A Division of Silvermere Group*

High-Performance Skylights for Commercial  
Day-lighting.



*Raise Your Standard of Lighting!*

# Introduction of Silvermere

Silvermere is a Minnesota USA based international distributor of US made sustainable infrastructure products, including high-performance skylights for daylighting and energy-saving LED lighting systems. These products can reduce a facility's electricity for lighting by up to 90%, while improving the quality of light.

With offices in USA and Sri Lanka, Silvermere is dedicated to helping commercial/municipal customers around the world to improve quality & energy efficiency of lighting, and to working closely with our dealership partners in various countries to serve customers with the highest-quality energy saving lighting products available.



# What is Daylighting?

**Daylighting is using natural sunlight to illuminate interior space.** Natural light from the sun is the highest quality of light. It offers true color rendering and best visibility for human eyes. It provides connection to nature and improves mood and productivity, including student test scores.

In addition to better light, daylighting saves energy and money by allowing electrical lights to switch off during daytime hours, reducing a building's electricity load and operating cost for the lifetime of the building.

**Everybody wants the corner office, because that's where the daylight is!**



# Problems with traditional skylights

Traditional glass skylights are not effective day lighting systems for several reasons:

- **Controllability:** Light comes in from various angles and intensity according to the sun's position, resulting in major light contrast ratios, not uniformity.
- **Heat & UV:** Direct sunlight contains heat & UV not blocked by traditional skylights, causing heat gain and color fading.
- **Aperture:** Traditional skylights utilize large gaps in the building structure.



# Silvermere Tubular Skylights

Silvermere tubular skylights capture daylight at the roof and reflect it through a highly reflective tube to delivery the daylight where it is needed, diffused for uniformity, and filtered of harmful UV and heat, providing effective daylighting with just 1% aperture of the roof.



# Industrial Tubular Skylights

Silvermere industrial tubular skylights deliver large amounts of natural daylight through small roof apertures for minimal disruption of roof integrity and penetration of insulation.

Just 21 inches diameter, each unit can deliver 16,000 – 20,000 lumens of through 95% reflective tubes.



# Economic Benefits of Industrial Daylighting

For many industrial buildings such as warehouses and factories, electrical lighting can account for 30-50% of the facility's energy load, often used mostly during daylight hours, at peak energy costs. Daylighting can eliminate the need for electrical lighting for 3,000 – 4,000 hours per year, saving thousands of kilowatt hours. With today's rising energy costs and increasing and overburdened electrical grids, building owners are more often demanding natural lighting to reduce energy dependence, energy costs and environmental impact while improving lighting quality and productivity.

Installing a daylighting system is a one-time cost that will be returned in energy savings many times over the lifespan of the building.



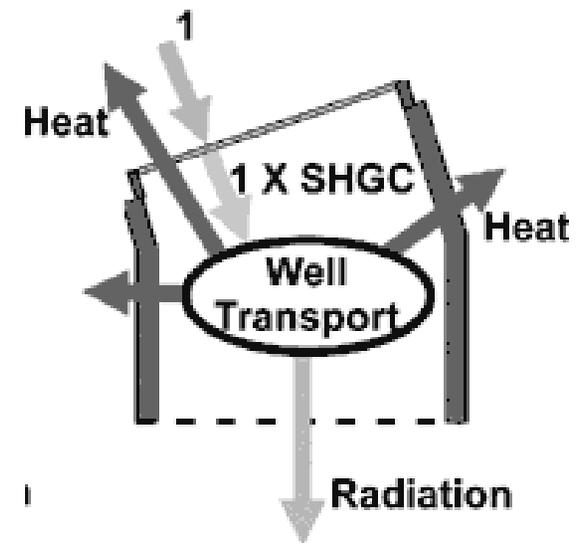
# Reducing Solar Heat Gain

Tubular skylights offer the lowest solar heat gain of any daylighting system, as low as .33 SHGC, due to the design and materials.

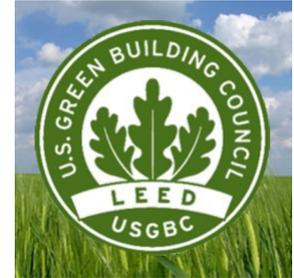
The polymer dome and diffuser block UV. The metal tube acts as a heat well with the walls absorbing heat and radiating it up & outward through convection.

Very little heat gets delivered to the interior space, just safe visible spectrum daylight.

In addition to energy reduction for lighting, facilities switching from electrical lighting to daylighting also experience up to 12% reduction in energy requirements for Air Conditioning, due to reduced heat gain.



# Leadership in Energy and Environmental Design (LEED) program



- LEED is a program of eco-friendly design features, awarding up to 69 points for following its guidelines. The program was created by the US Green Building Council ([www.usgbc.org](http://www.usgbc.org)) but is being adopted worldwide.
- Up to 17 points can be gained just by daylighting, which can be designed into new buildings or retrofitted into existing buildings.
- Daylighting is the most noticeable “green” feature of a building, showing commitment to sustainability.

# Retail Environment

Major retailers use daylight not only to reduce energy, but to provide a better quality of light and improve the color and appearance of their products. This translates to better worker productivity and **BETTER SALES**.

Daylight provides **TRUE COLOR RENDITION**, allowing the vividness of colors to be seen. Macy's had reported that up to **15%** of product returns had been due to improper color perception of clothing in artificial light.



# Examples of daylighting projects using tubular skylights from Silvermere



Unilever,  
Colombo  
Sri Lanka



Lion Brewery,  
Colombo  
Sri Lanka



Hatton  
National Bank,  
Colombo  
Sri Lanka



Rexam Pharmaceuticals, Bangalore India



Garment Factory,  
Ishwardi,  
Bangladesh

# Reasons to Daylight

- Reduced electricity, maintenance & cost of lighting
- Reduced electricity for cooling
- Reduced dependence on electrical grid
- Enhanced human mood & productivity
- More pleasant environment & connection to outside world
- True color perception of merchandise and interior color design. Maximum benefit of vivid colors
- Reduced carbon footprint
- Most noticeable “green” feature of a building
- Sustainable design regulations or incentives (LEED)

Silvermere Lighting is dedicated to helping facilities worldwide to improve lighting quality and reduce operating cost with high performance daylighting systems, and LED lighting systems.

To discuss lighting needs for your facility, or your customers' facilities, please contact us.

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