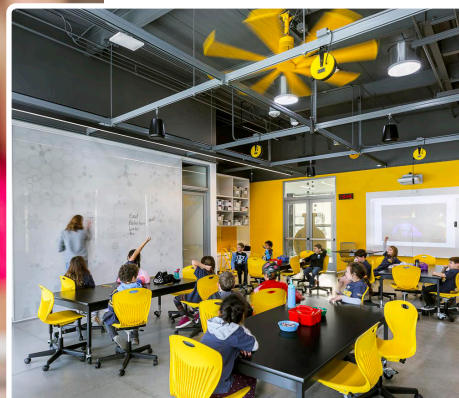




Benefits of Tubular Daylighting in Education



Why Daylight Matters in Education

Lighting is one of the most influential elements of the indoor environment, directly impacting student health, cognitive performance, and learning outcomes. Solatube tubular daylighting systems make it possible to deliver high-quality natural light deep into classrooms and interior spaces - supporting student success in areas where traditional daylight access is limited.

Proven Human Benefits

Improved Academic Performance

- Students in classrooms with higher levels of daylight have been shown to perform better academically, with measurable gains in math and reading scores¹
- Additional studies of daylit schools report improved student performance compared to non-daylit environments²

Enhanced Focus & Cognitive Function

- Access to daylight supports concentration, memory, and overall cognitive performance³
- Students in daylit environments have demonstrated higher cognitive function and improved test performance compared to peers in low-daylight settings⁴

Reduced Absenteeism & Increased Engagement

- Daylit classrooms have been associated with improved attendance and higher levels of student engagement²
- High-quality daylighting creates more comfortable teaching environments, supporting improved teacher satisfaction and long-term retention

Supports Circadian Rhythm & Better Sleep

- Daylight exposure helps regulate the body's internal clock, supporting better sleep quality and daytime alertness³
- Building occupants with greater access to daylight have been shown to experience improved sleep patterns and cognitive outcomes³

Supports Attention & Behavioral Outcomes

- Higher levels of natural light exposure have been associated with reduced hyperactivity and attention-related challenges in children, with research suggesting daylight may support the same neurochemical pathways involved in attention regulation⁵

Visual Comfort & Reduced Eye Strain

- Balanced daylight improves visual clarity and supports reading comfort and sustained attention
- In daylit environments, occupants have reported reductions in eyestrain, headaches, and drowsiness⁶



The Outcome: Better Learning Environments

Schools designed with effective daylighting strategies can achieve:

- Higher student performance
- Greater engagement and attendance
- Improved health and well-being
- More comfortable, visually supportive classrooms
- Support for Cognitive Function and Focus
- Improved teacher satisfaction and retention

1. Heschong Mahone Group, 1999 – Daylight and student performance

2. Nicklas, M. & Bailey, G., Innovative Design – Daylighting in Schools studies, 1996–2002

3. Boubekri, M. et al., 2020 – Daylight exposure, sleep, and cognitive performance

4. Baloch, R.M. et al. (2020). "Daylight and School Performance in European Schoolchildren." International Journal of Environmental Research and Public Health.

5. Ulset, V.S. et al., 2021 – Environmental light exposure and symptoms of inattention and hyperactivity in preschool children

6. Hedge, A., 2018 – Daylight and visual comfort (Cornell University; occupant-reported outcomes)