

Granite School District Lowers Infection Risk Through Lighting



Project: Skyline & Cypress High Schools
Location: Salt Lake Valley, UT
Specifier: Envision Engineering

“To complement the school’s forward-thinking design, we knew it was important to upgrade the lighting technology from what was in the previous athletic building.”

—Philip Borup, Associate Project Manager, Envision Engineering



Project Summary: Quantum Lighting Group of Salt Lake City chose Indigo-Clean luminaires for the Granite School District to help protect students and staff against illness. Garrett Ledger, Quantum’s director of Specification Sales, specified Indigo-Clean lighting for its environmental disinfection system, which blends white and indigo light via a lighting control system to disinfect space.

Challenge: Help reduce the spread of infection in school athletic spaces through the installation of disinfecting lighting that kills harmful viruses and bacteria automatically and continuously, in the air and on surfaces.

Solution: Indigo-Clean MLHA8 linear surface-mounted fixtures were installed in the locker rooms, and pendant-mounts in the weight and wrestling rooms. Indigo-Clean HADL6 downlights were installed in the toilet stalls, dressing rooms and shower stalls. And Indigo-Clean HASEDI recessed 1’x4’ fixtures were chosen for the cardio room.

Benefits:

- Kills harmful bacteria, including Staph such as MRSA, linked to community associated infections (CAIs)
- Kills harmful viruses, such as SARS-CoV-2 and Influenza-A
- Provides bright, even illumination
- Sealed housing prevents harboring of bacteria inside the luminaires

Use of Indigo-Clean Technology at Utah’s Skyline and Cypress High Schools Helps Reduce Pathogens



To address the problem of outdated and unsafe school buildings, Granite School District, located in the Salt Lake Valley, announced site layouts in May 2019 for construction of 21st century high schools. Skyline and Cyprus High Schools, located in Millcreek and Magna, Utah, were included in the strategic plans.

Architectural firms Fanning Howey and Naylor Wentworth Lund created a program focused on Granite’s central vision of flexibility, while allowing for customization at each site.ⁱ Work began with Skyline first, followed by Cyprus.

“Early visioning and planning sessions involved District administrators, as well as leaders and faculty from both schools, to build a common vision,” said Michael Hall, AIA, lead architect at Fanning Howey. “The design allows Granite to continue its departmental approach to high school education, but with an emphasis on next-generation learning.”

The team’s focus on flexibility includes the athletic portions of the high schools. Instead of a traditional gymnasium, the design team created large fieldhouses with four courts, partitions, and upper level running tracks. Each high school also has an eight-lane, 25-yard competition pool with seating for 500.ⁱⁱ

A state-of-the-art athletics building constructed at Skyline High School was completed in late 2021. A similar building is currently under construction at the new Cyprus High School campus. To help reduce the spread of potential infection in the spaces, each athletic building includes the installation of disinfecting lighting that uses safe, visible light to kill harmful viruses and bacteria, automatically and continuously, in the air and on surfaces.

Quantum Lighting Group of Salt Lake City chose Indigo-Clean luminaires from Kenall Lighting to provide an opportunity for Granite School District to help protect students and staff against illness. Garrett Ledger, director of Specification Sales, Quantum Lighting Group, specified Indigo-Clean lighting for its environmental disinfection system, which combines blended white and indigo light via a lighting control system to disinfect spaces. Unlike ultraviolet light, Indigo-Clean luminaires are safe for room occupants.

“Ultimately, the lighting installation should help reduce the amount of illness in the schools,” said Ledger. “As a bonus beyond a reduction in bacteria, the district can anticipate low maintenance costs for the lighting because of the LED technology.”

The installations include Indigo-Clean MLHA8 linear surface-mounted fixtures in locker rooms, and pendant-mounted in the weight room and wrestling room. Indigo-Clean HADL6 downlights were selected for the toilet stalls, dressing rooms and shower stalls. And Indigo-Clean HASEDI recessed 1’x4’ fixtures were chosen for the cardio room.

Indigo-Clean lighting, a continuous disinfection technology, is patented and proven to kill harmful viruses, such as SARS-CoV-2 and Influenza-A, and bacteria linked to community associated infections (CAIs). Using a combination of 405nm Indigo and white LEDs, Indigo-Clean technology emits narrow spectrum light that kills viruses and bacteria while providing ambient illumination for the space.



MLHA8



HADL6



HASEDI

ⁱ <https://fhai.com/projects/skyline-high-school-and-cyprus-high-school/> . fhai.com. Retrieved Dec. 21, 2023.
ⁱⁱ <https://fhai.com/projects/skyline-high-school-and-cyprus-high-school/> . fhai.com. Retrieved Dec. 21, 2023.

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