An Exploration of Daylight in Schools:
Putting Ecotect and Daysim into practice

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New Elementary / Middle School

Fort Recovery Local School District

Fort Recovery, Ohio

By Fanning/Howey Associates, Inc.

www.fhai.com
Fort Recovery, Ohio

Halls
Fort Recovery, Ohio

Classrooms
The Original Model
The Original Model
The Original Model: Daylight Factor in DAYSIM

Analysis Grid
Annual illuminance
Value Range: 0.0 - 10.0 %

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The Original Model: Daylight Autonomy in DAYSIM

Analysis Grid
Annual illuminance
Value Range: 0 - 100 %

1/3 of room at 0%!
The Original Model
Sloped Ceilings and Skylights
Sloped Ceilings and Skylights
Sloped Ceilings and Skylights
Sloped Ceilings and Skylights: DF (DAYSIM)

Daylight Analysis
Annual illuminance
Value Range: 0.0 - 10.0 %

[Color-coded grid map of annual illuminance values]
Sloped Ceilings and Skylights: DA (DAYSIM)

Daylight Analysis
Annual illuminance
Value Range: 0 - 100 %

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Sloped Ceilings and Skylights
Sloped Ceilings and Skylights
Sloped Ceilings and Skylights
Clustered Classrooms: a different plan

Geometric Concepts
Clustered Classrooms: a different plan
Clustered Classrooms
Clustered Classrooms: Daylight Factor (DAYSIM)

Daylight Analysis
Annual illuminance
Value Range: 0.0 - 20.0 %

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Clustered Classrooms: Daylight Autonomy (DAYSIM)

Daylight Analysis
Annual illuminance
Value Range: 0 - 100 %
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Images of light...