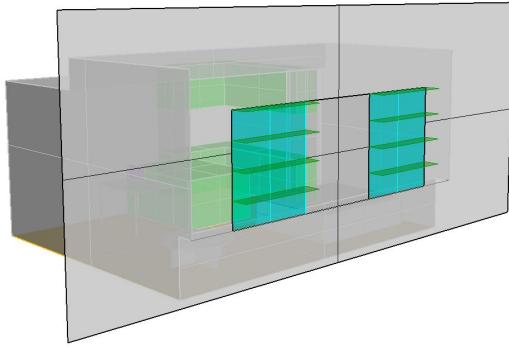


Daylighting Simulation

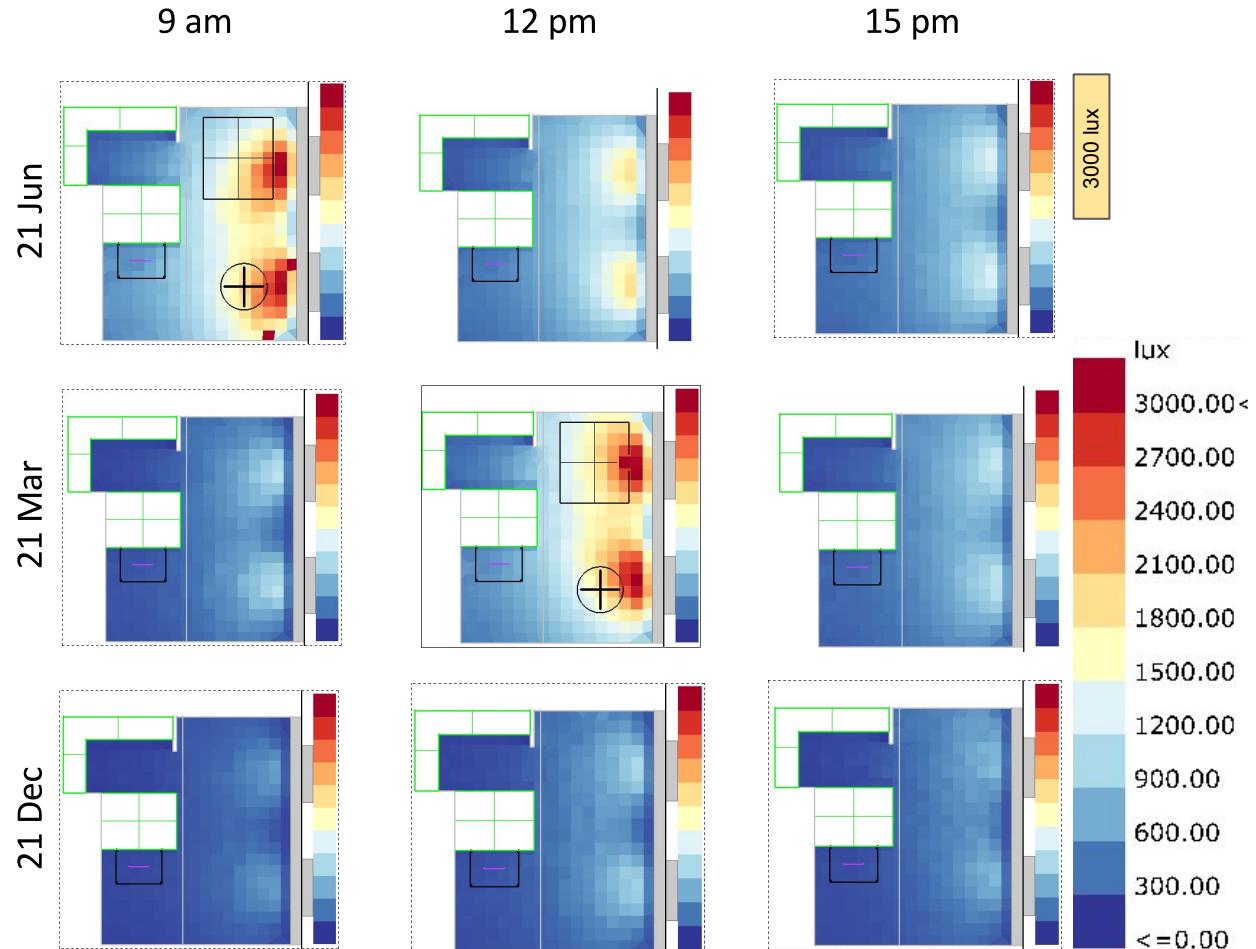
Niccolò Benghi



Design Intent:

For reference I used the IESNA 9th Edition Handbook: for bedrooms in dormitories the Maintained Average Illuminance at working level should be 300 lux.

For this case study, I considered acceptable light levels in the range 500 - 1000 lux. The first step was addressing minimum lux levels during December, 21 Dec at noon, using a 0-1000 lux range (more resolution). Then I considered glare on 21 March at 12:00, working on the depth and number of shading fins (4 fins with 30 cm depth) using a 0-3000 lux range (less resolution).



Daylighting Simulation

Niccolò Benghi

