

# Daylight Simulation

## Building Performance Simulation

Guide :  
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Submitted by :  
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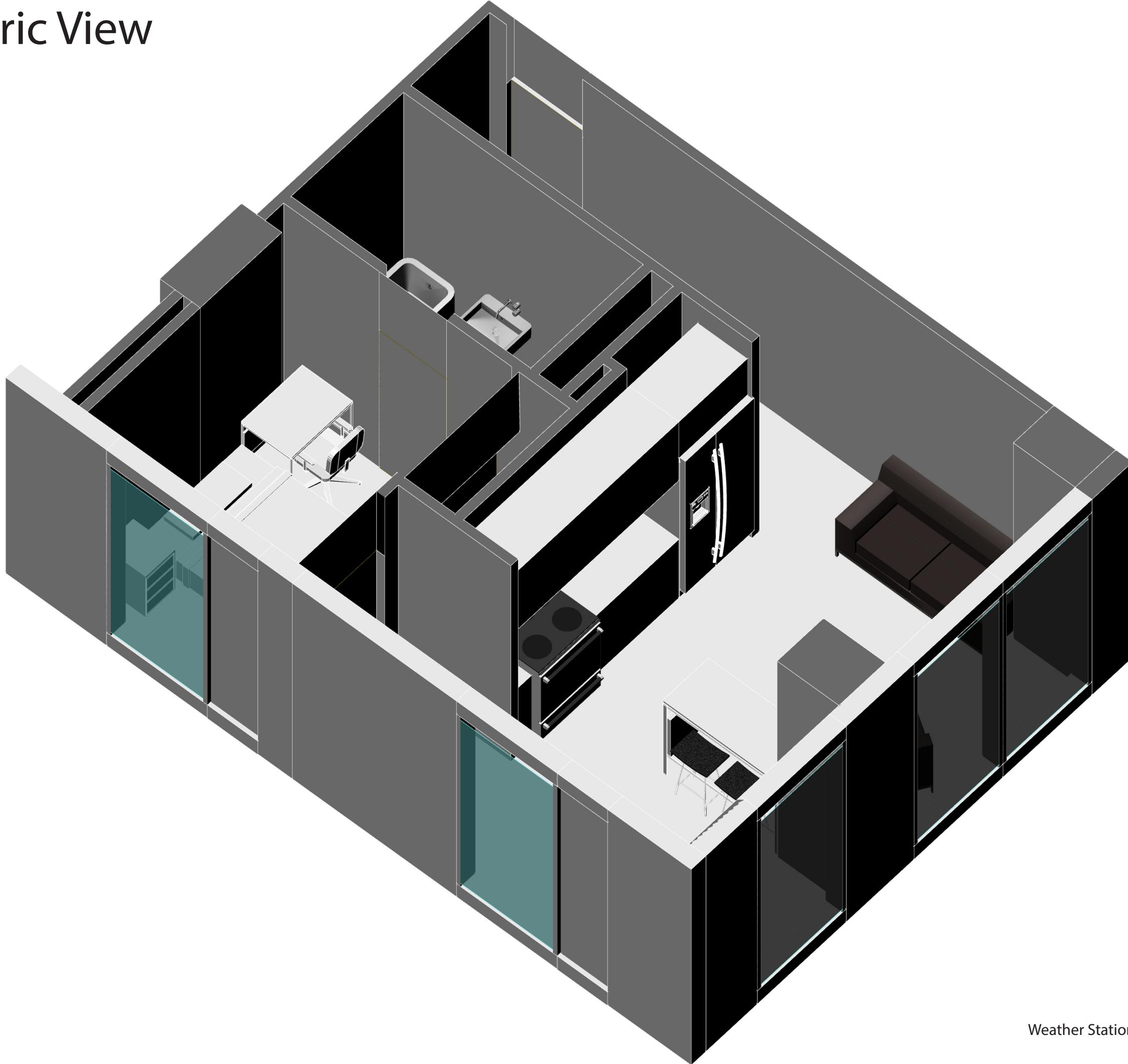
# Plan



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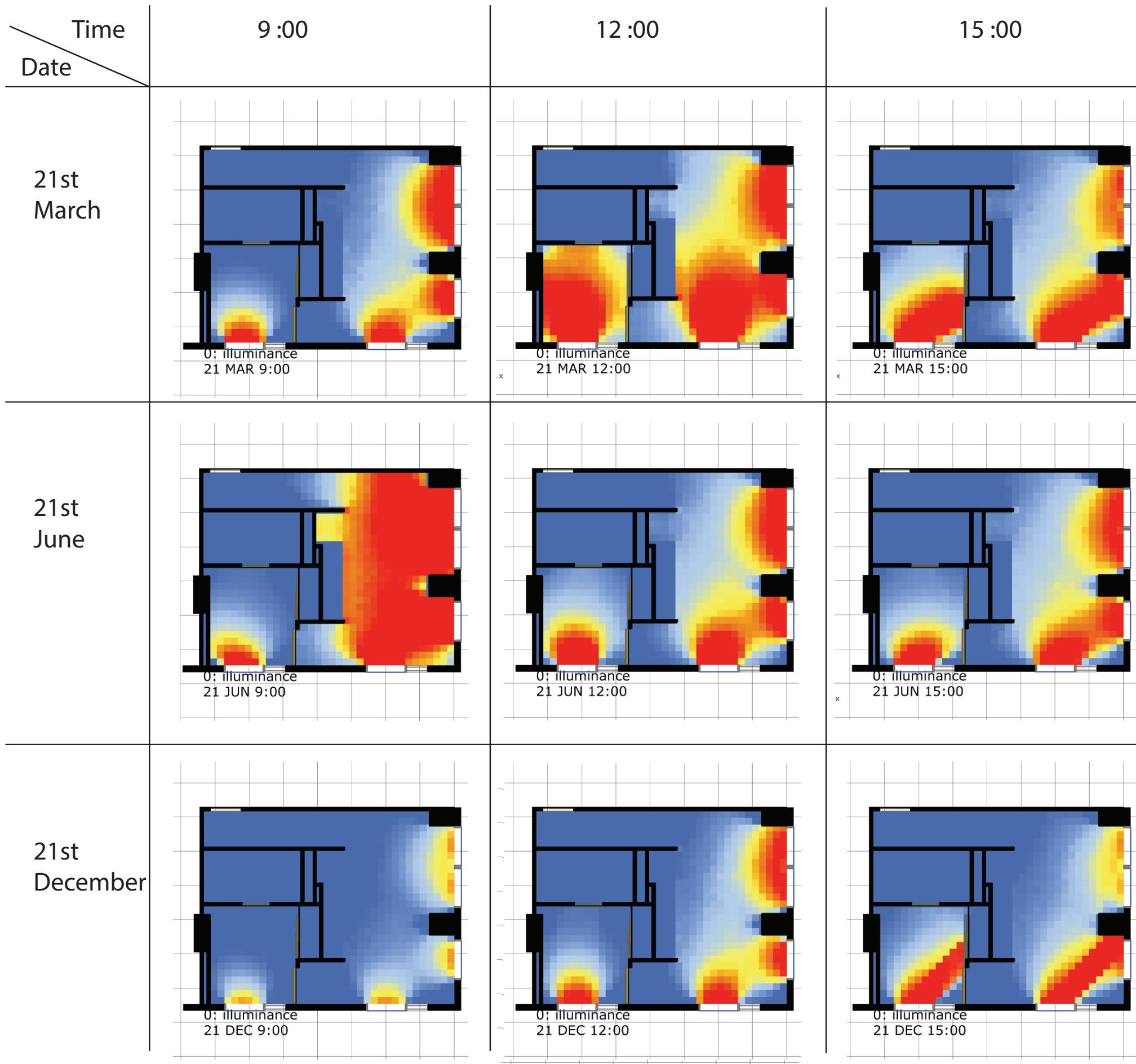
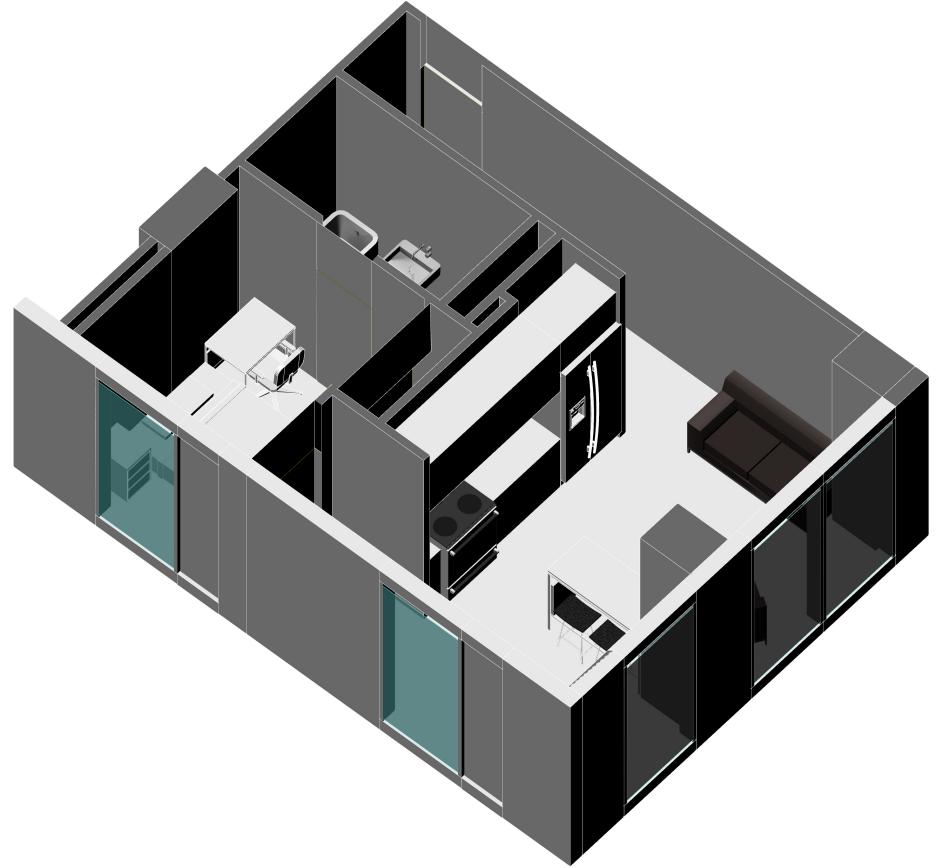
Philadelphia  
39°57' N 75°10' W  
Weather Station : Philadelphia International Airport  
Data Source : TMY3

# Isometric View



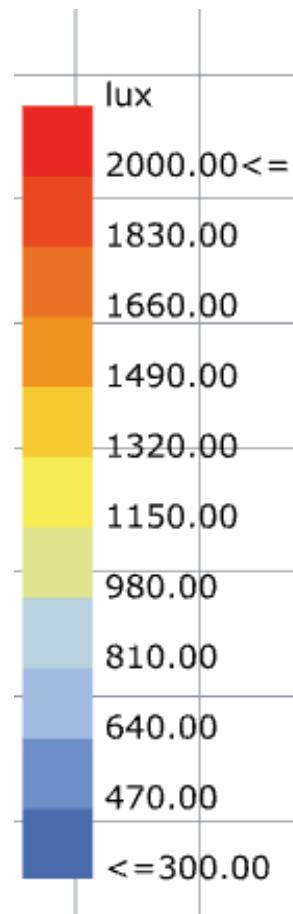
Philadelphia  
39°57' N 75°10' W  
Weather Station : Philadelphia International Airport  
Data Source : TMY3

# Baseline Case

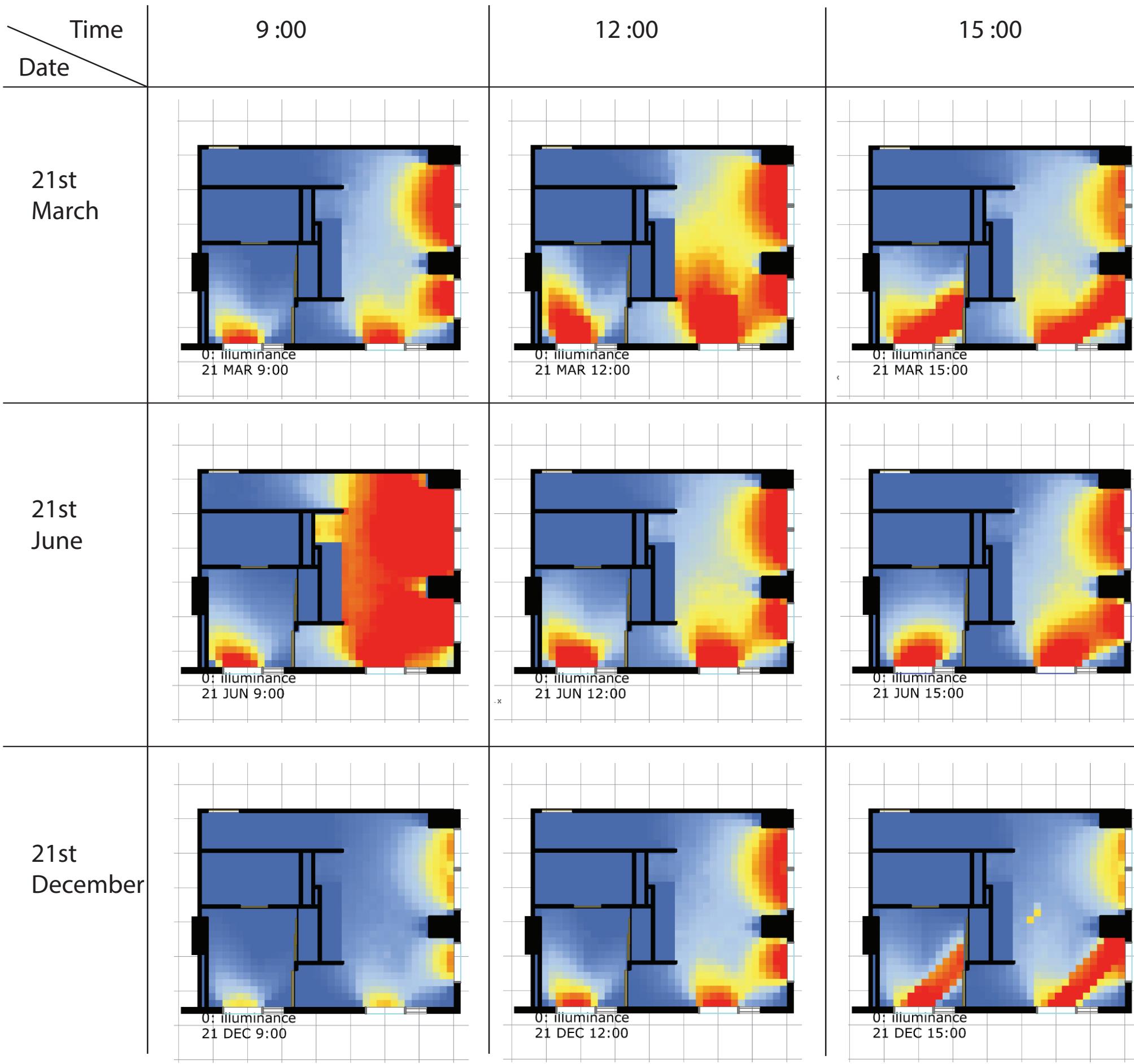
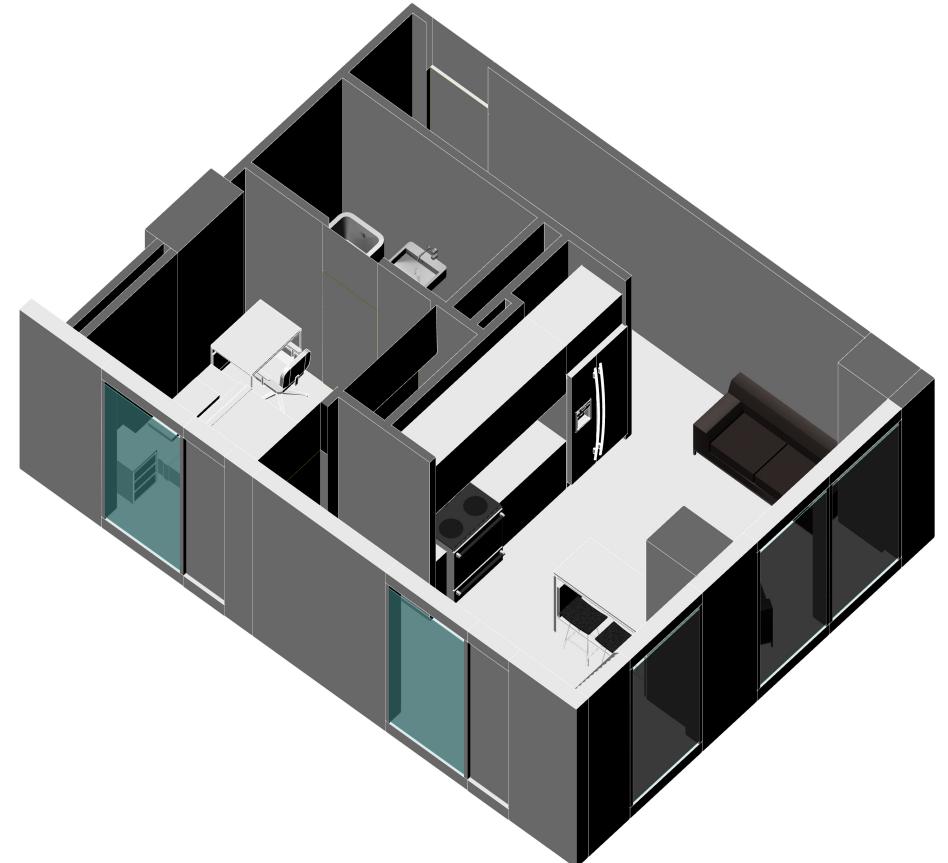


The space is well daylit in December with some patches of excess light.

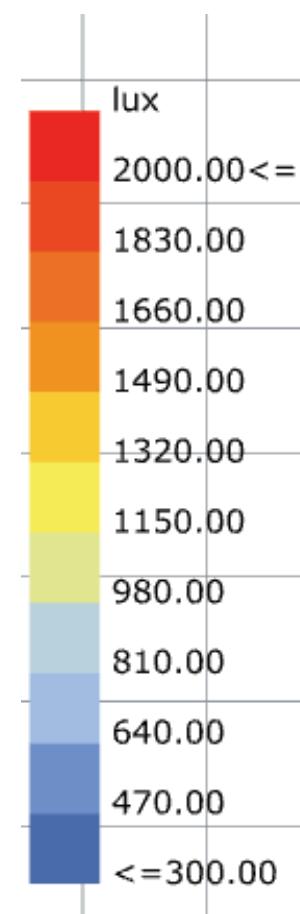
March and June face excessive daylight which needs to be reduced using different design techniques.



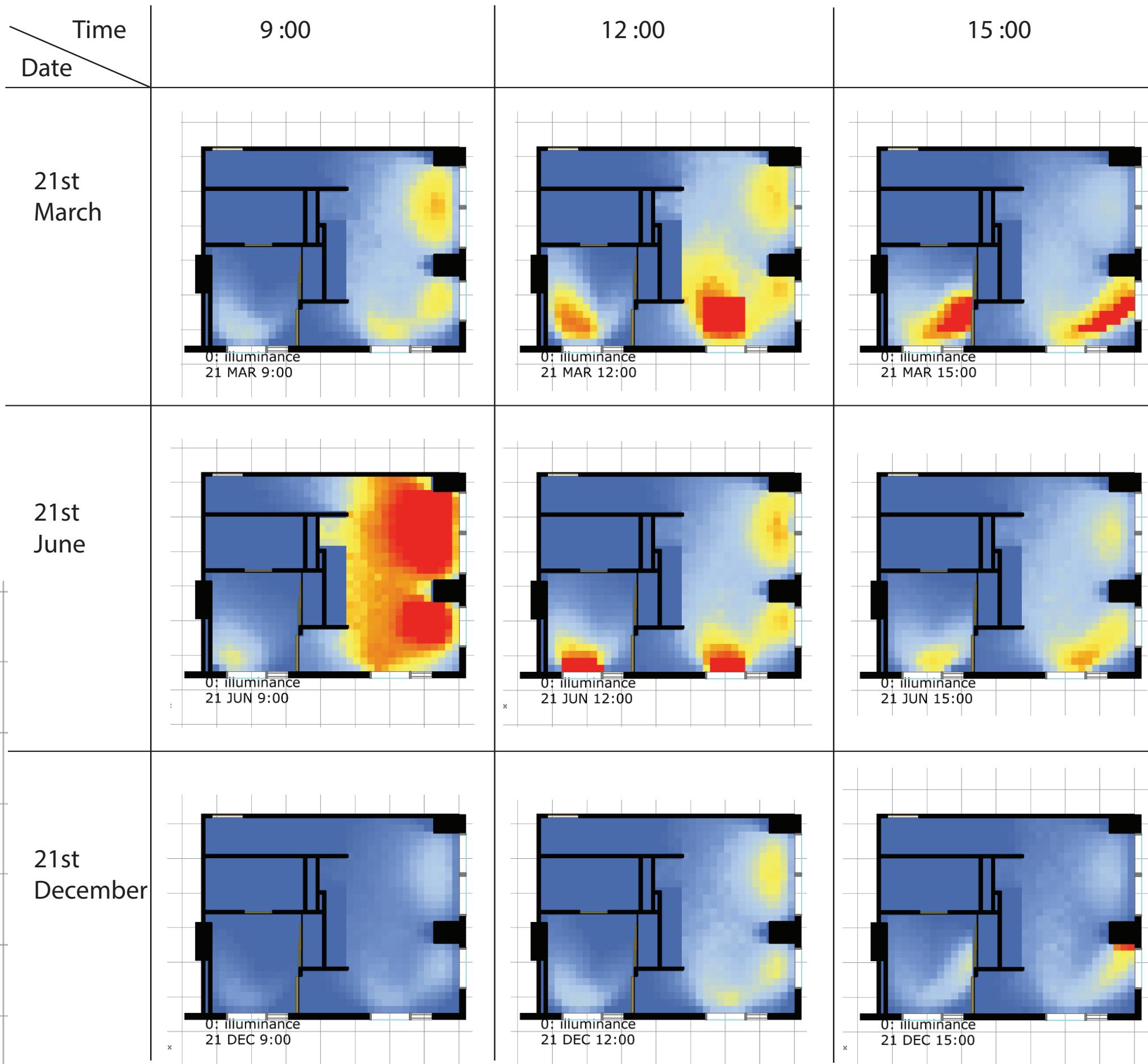
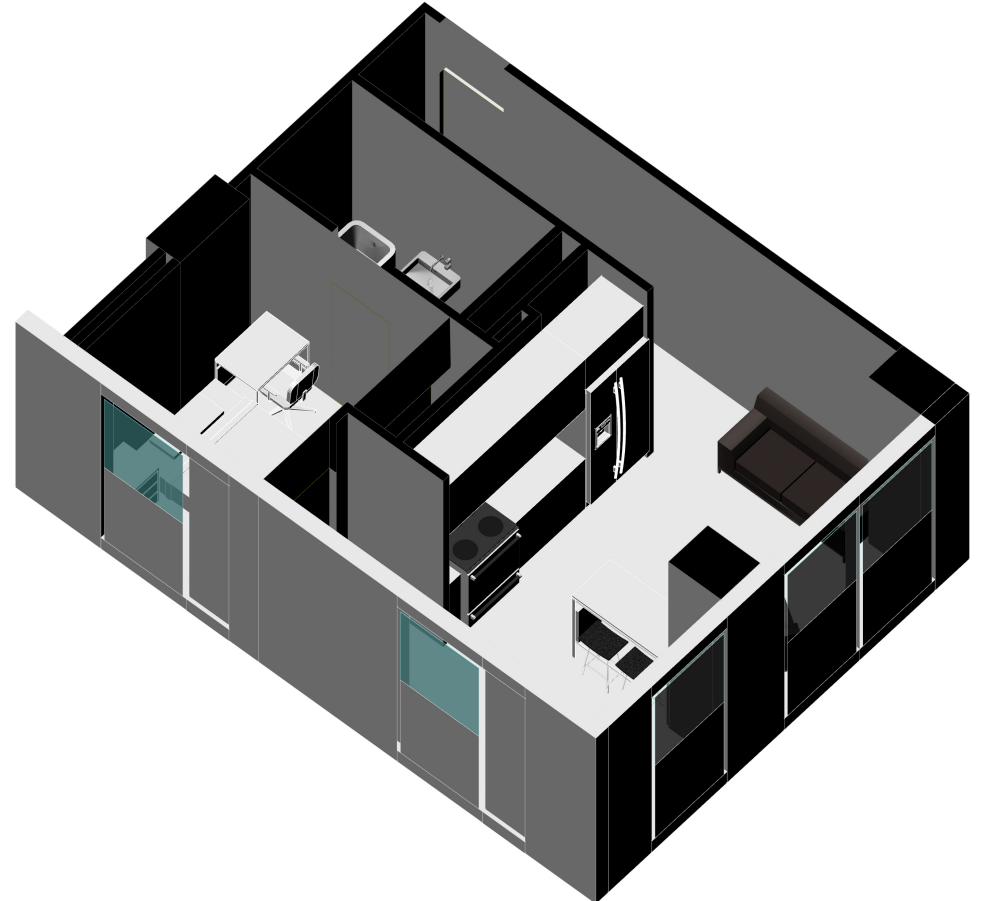
# Baseline Case with Context



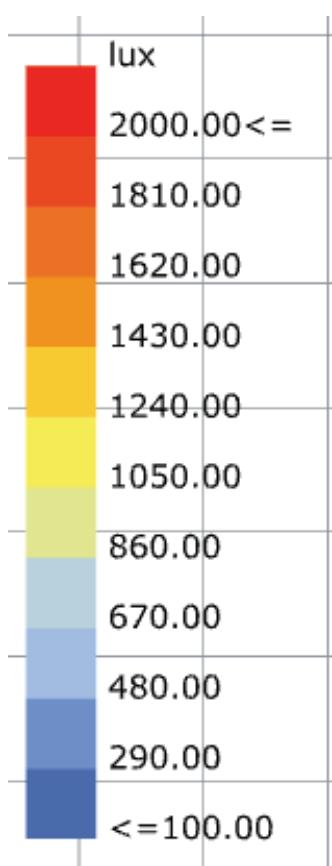
Addition of context (high rise on the south side)  
reduces daylight in March and June at noon.



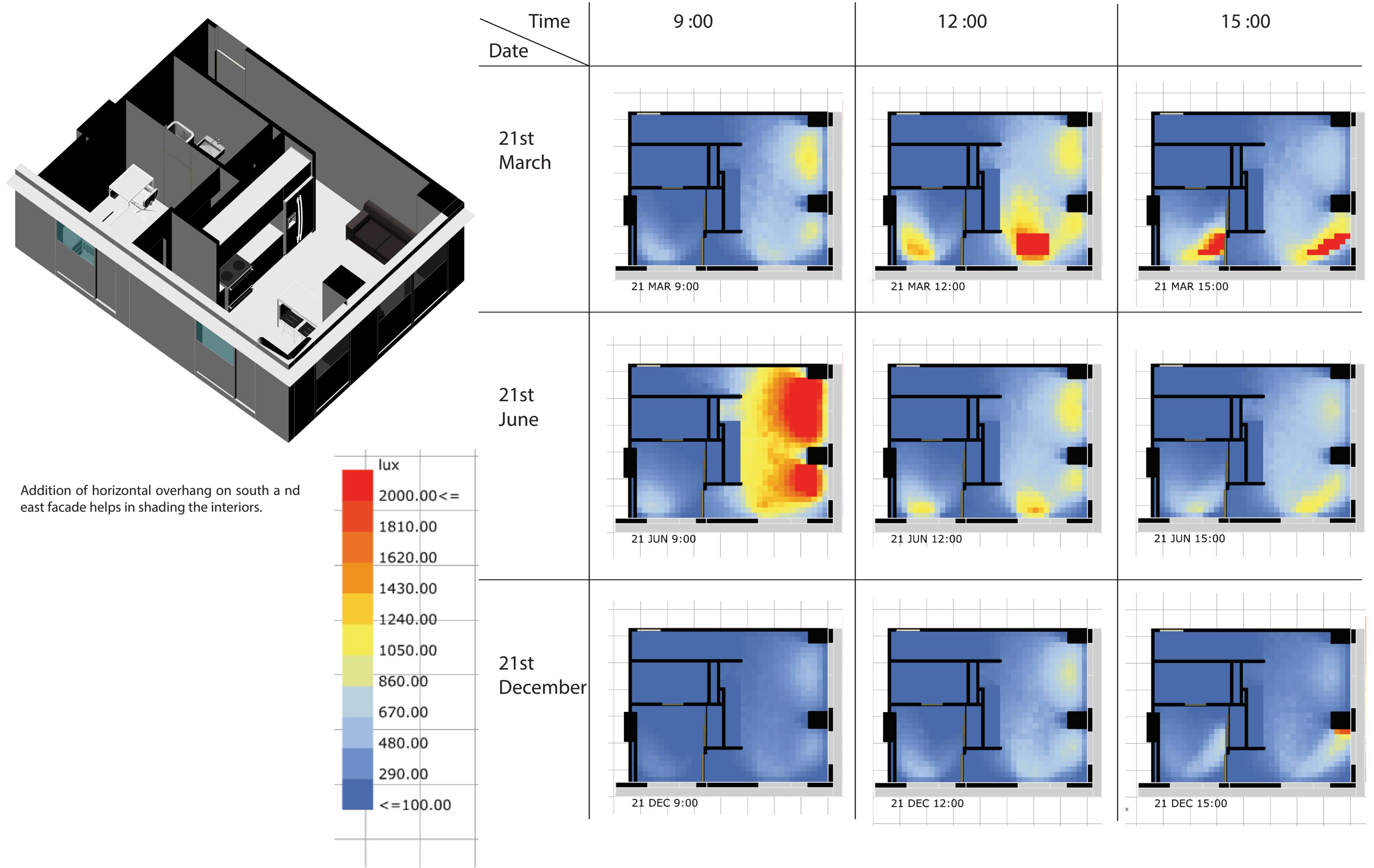
# Case1



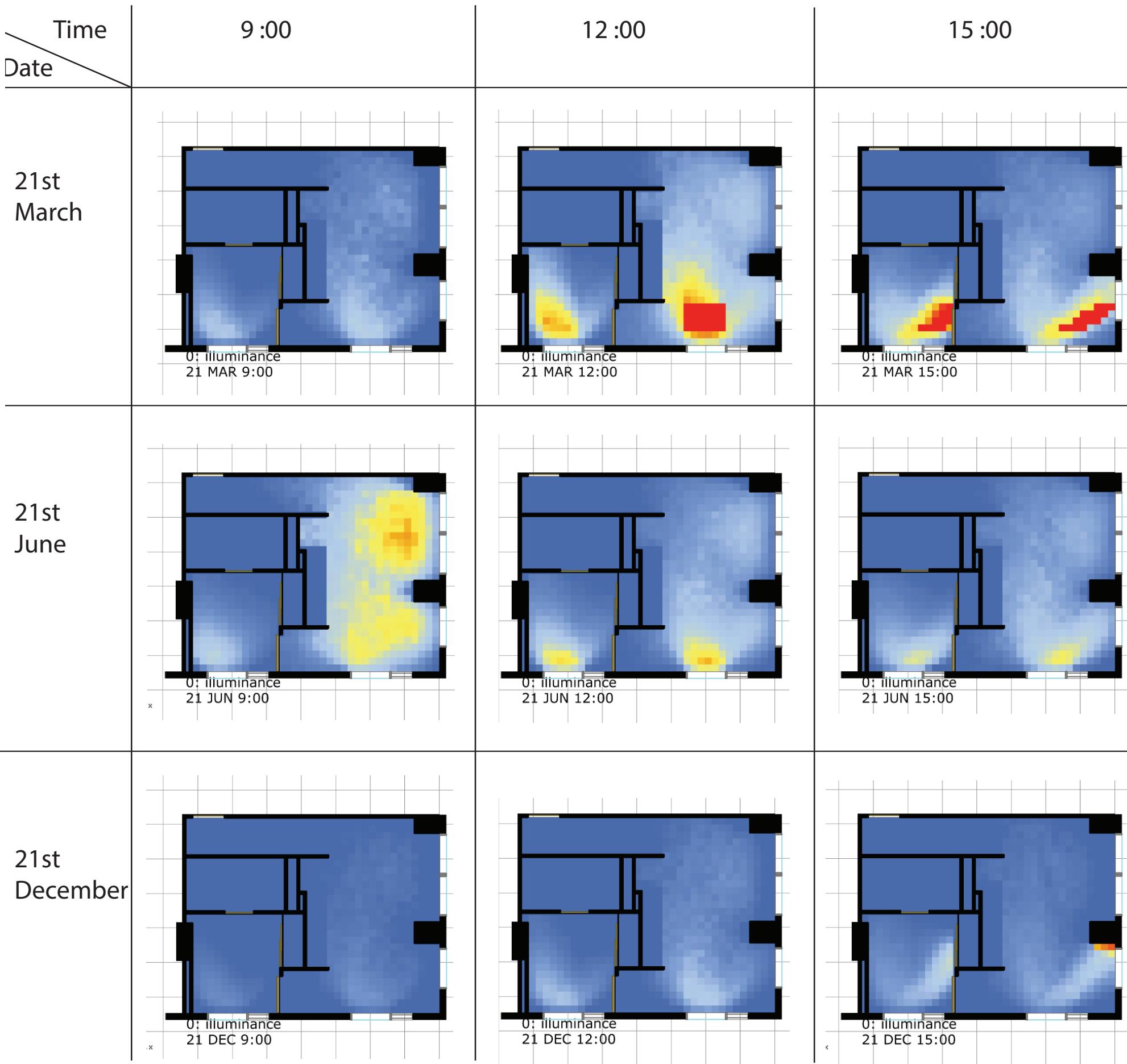
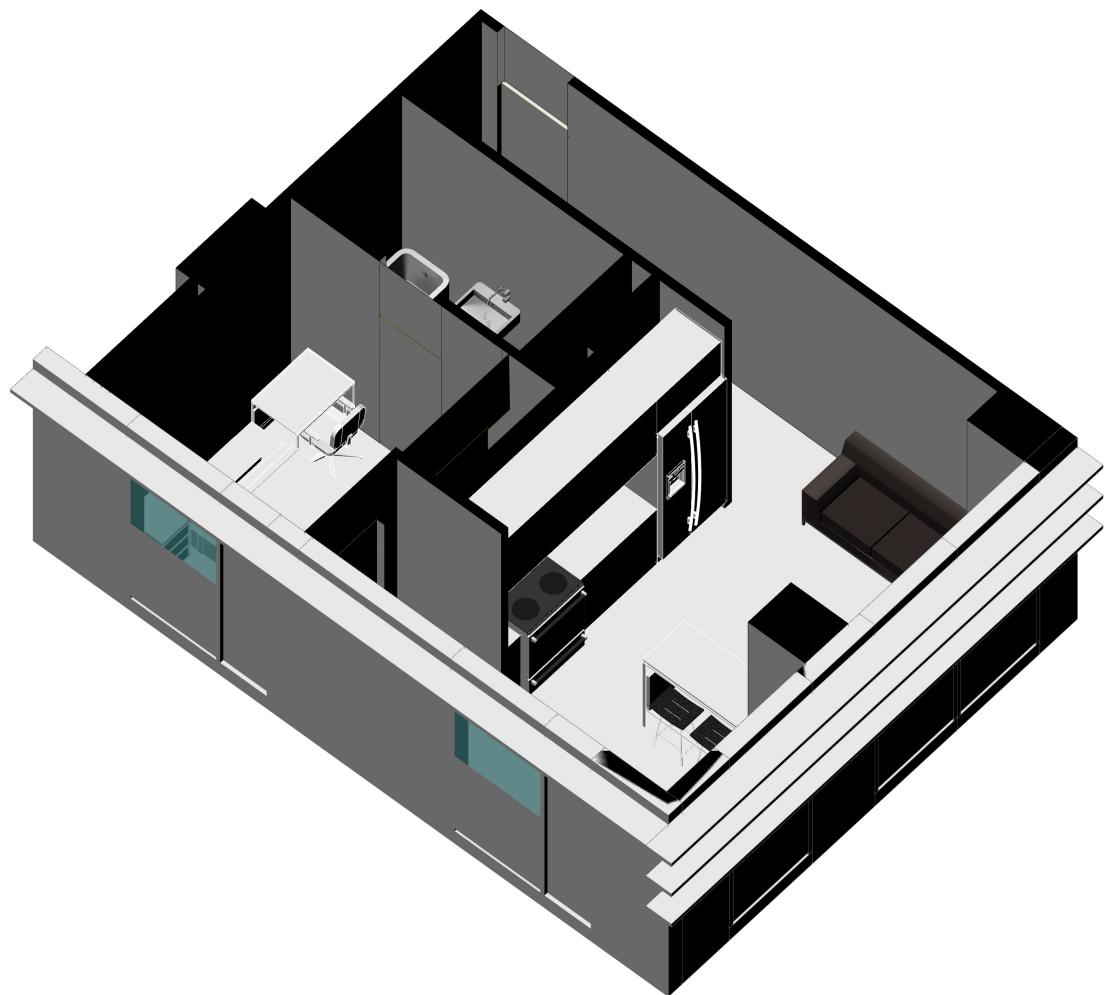
To cut off daylight the window size is reduced and they are kept at the top of wall.



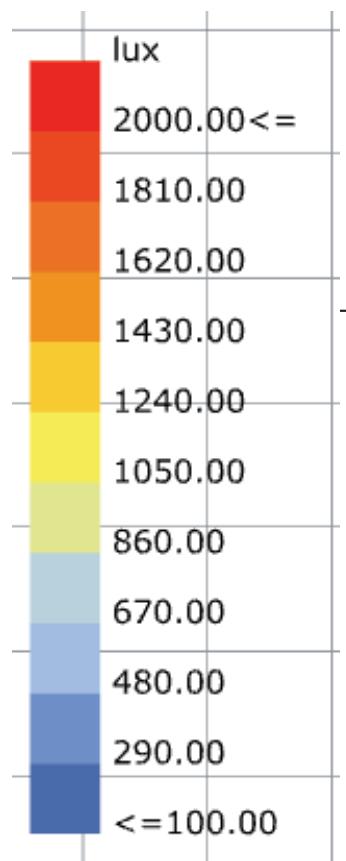
# Case2



# Case3



Addition of horizontal overhang on east face helps in shading the interiors.



# Glare Analysis

