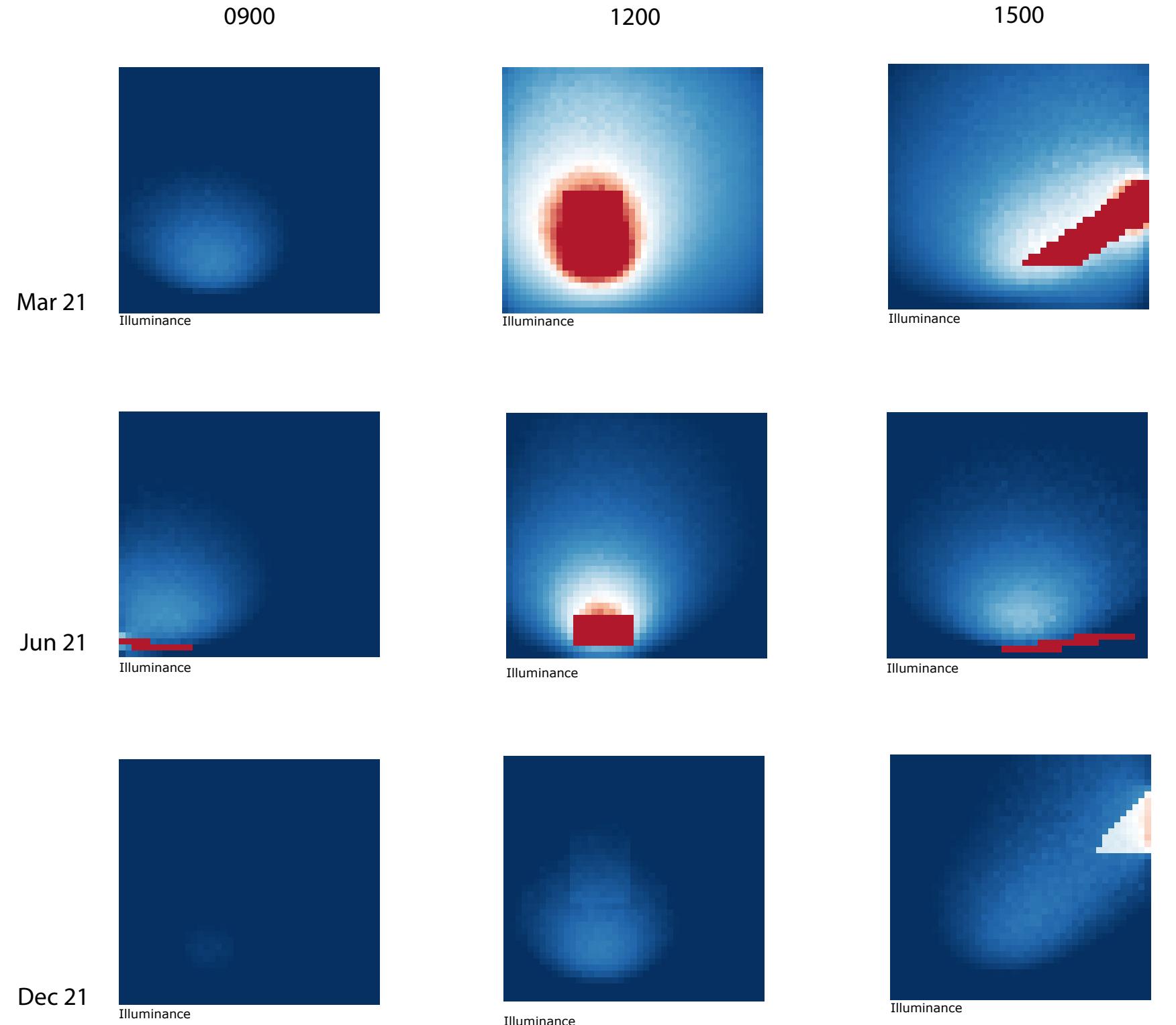
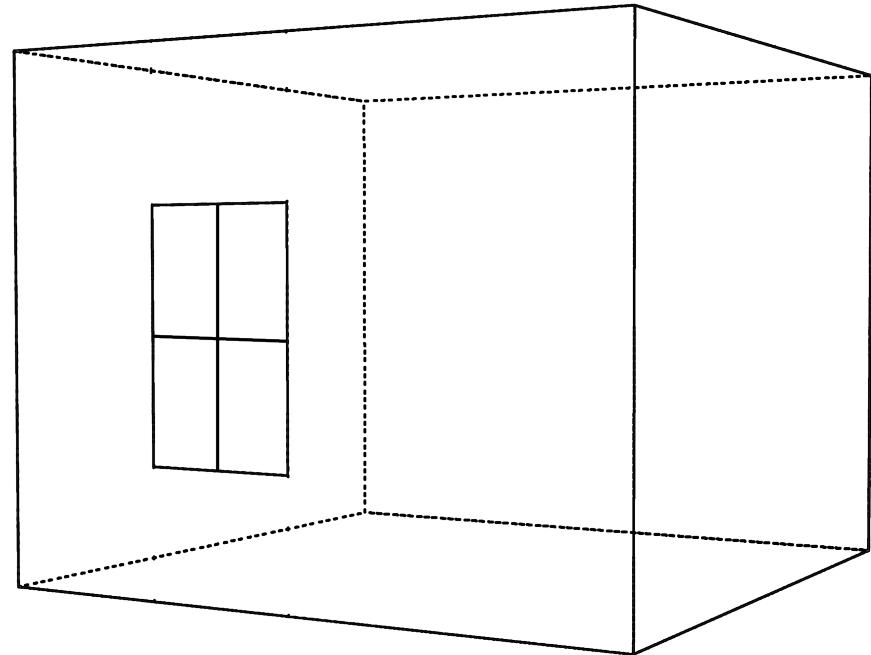


Daylighting Design for “Dream Room”

Philadelphia

110 N 34th Street

Initial Analysis - without any changes



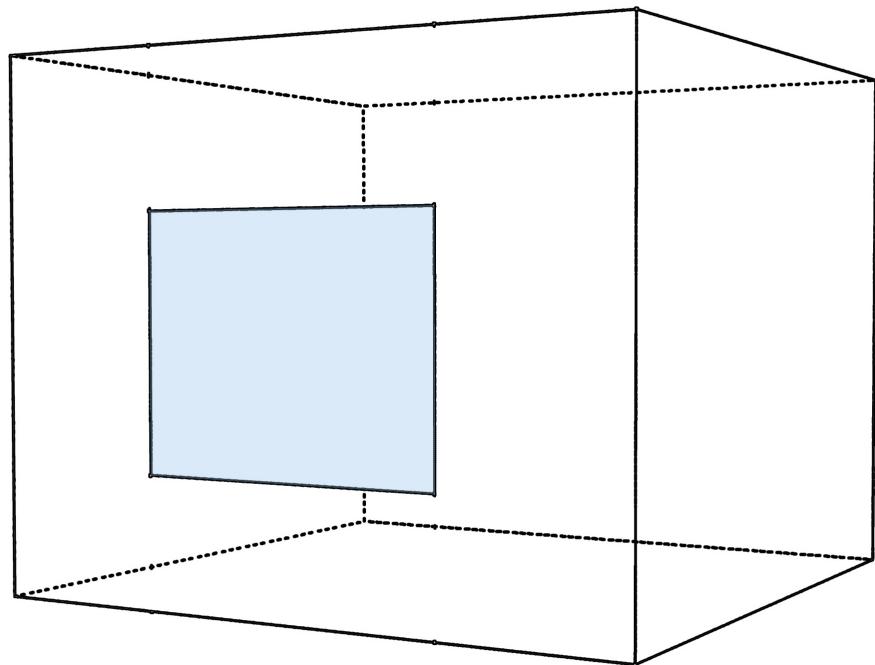
Size of Window: 1m

Daylighting Design for “Dream Room”

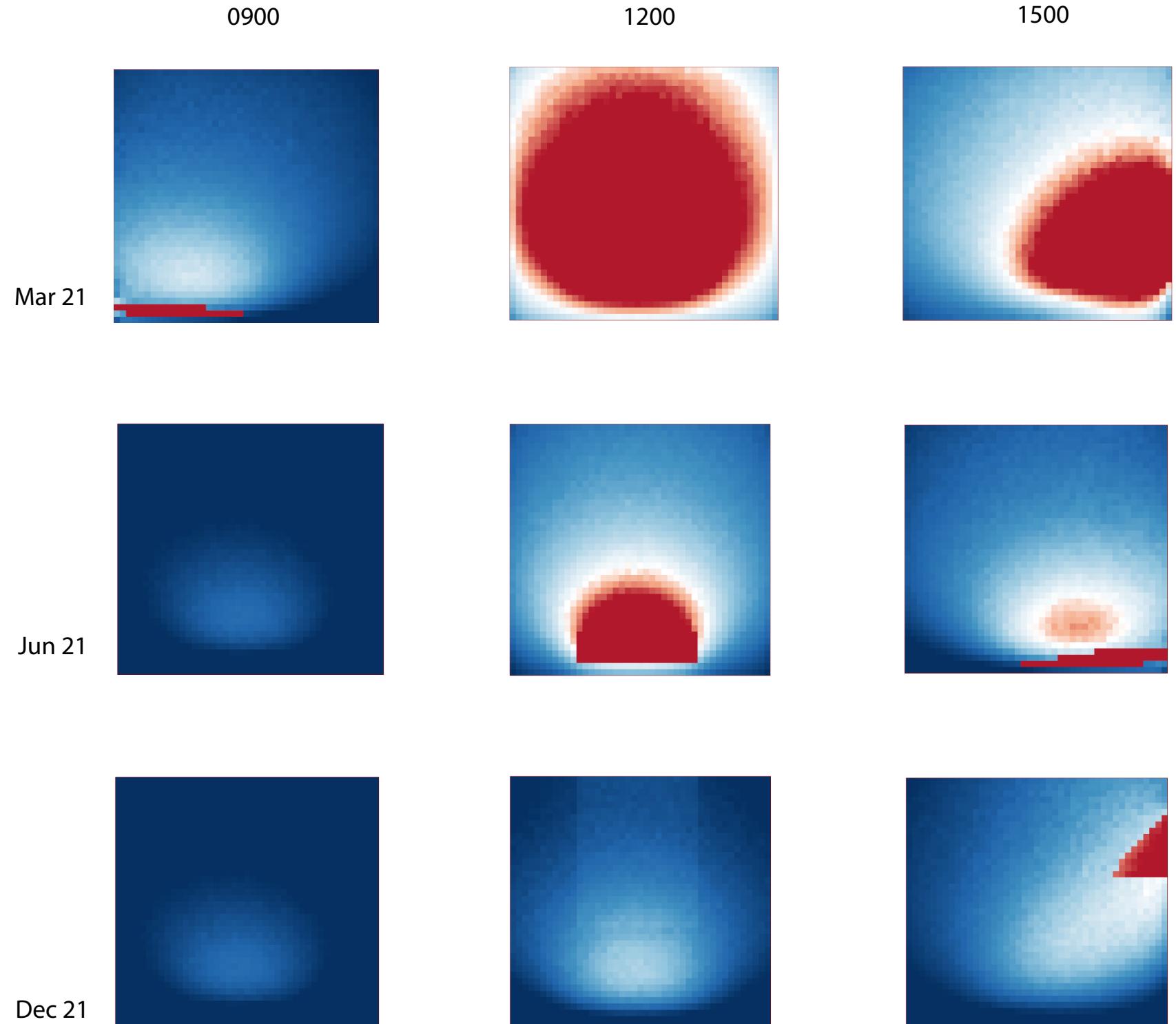
Philadelphia

110 N 34th Street

Window size increased



Size of Window: 2m
While daylighting has increased, amount of glare has also increased.

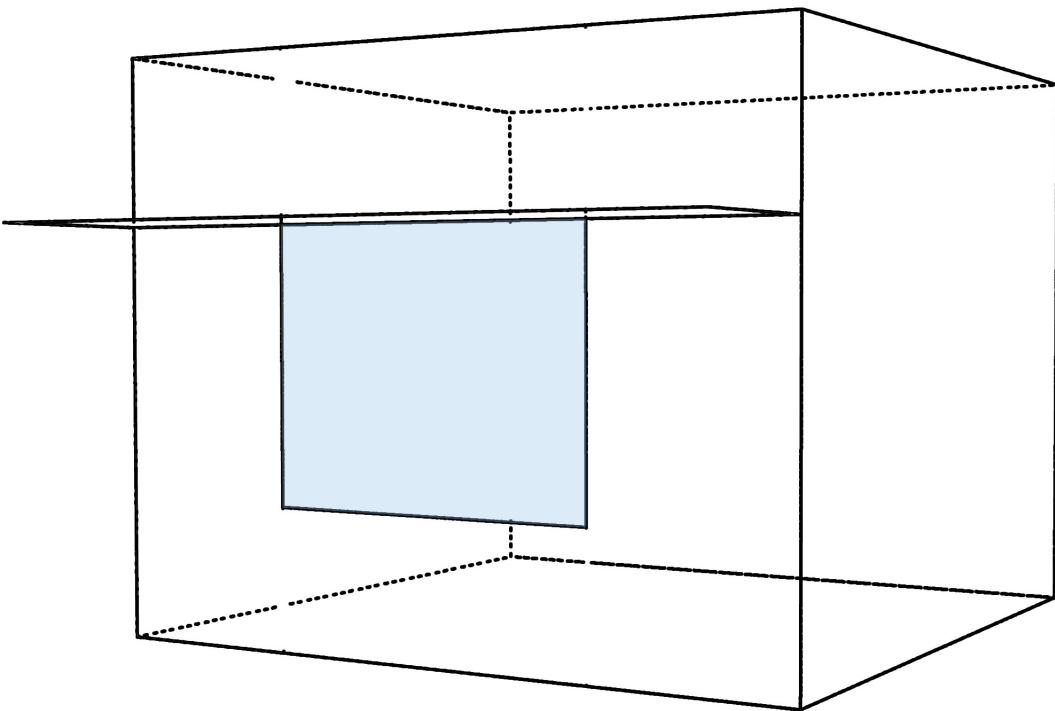


Daylighting Design for “Dream Room”

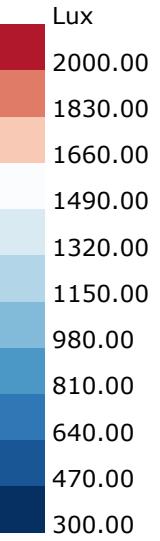
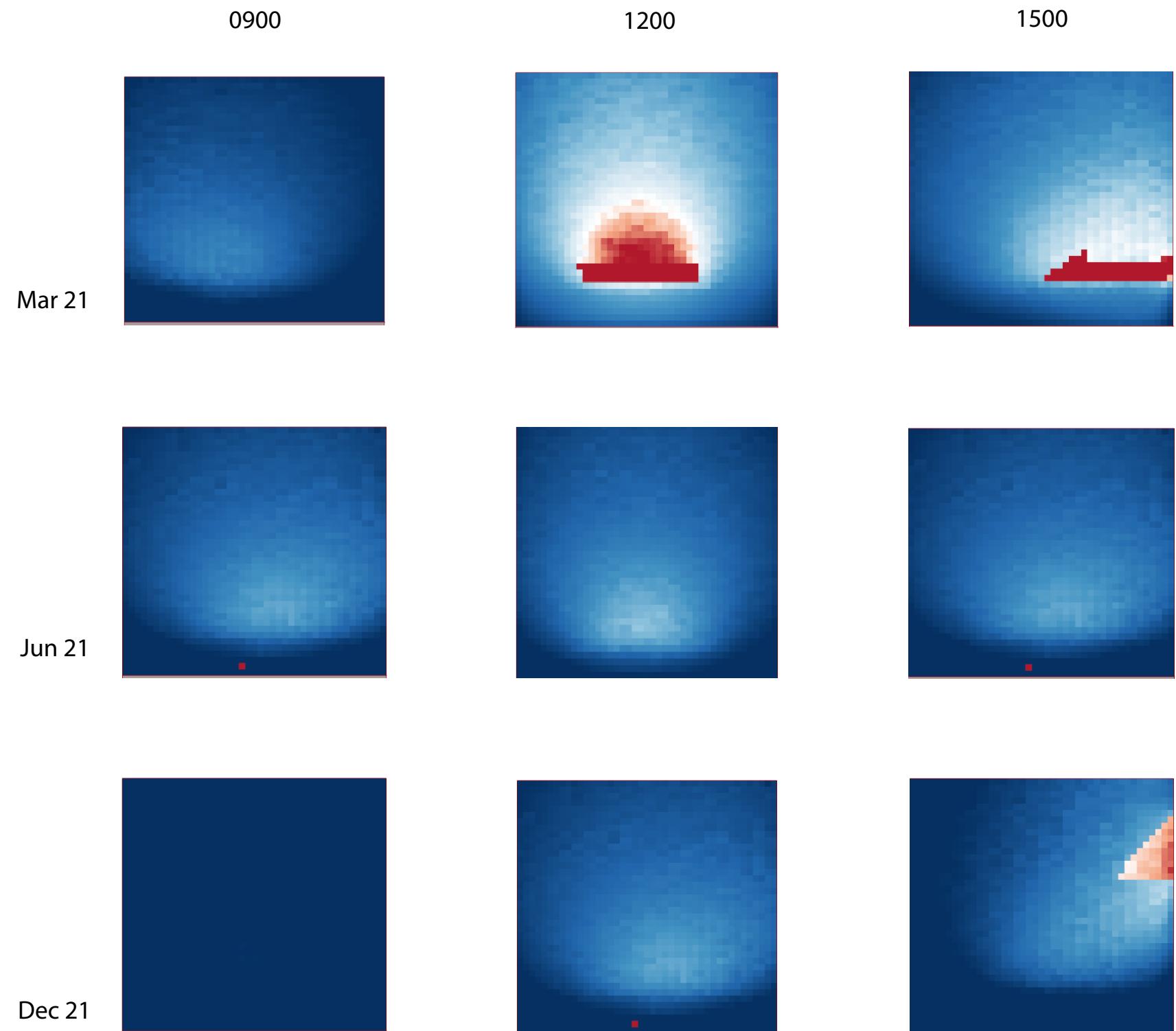
Philadelphia

110 N 34th Street

Horizontal Shading



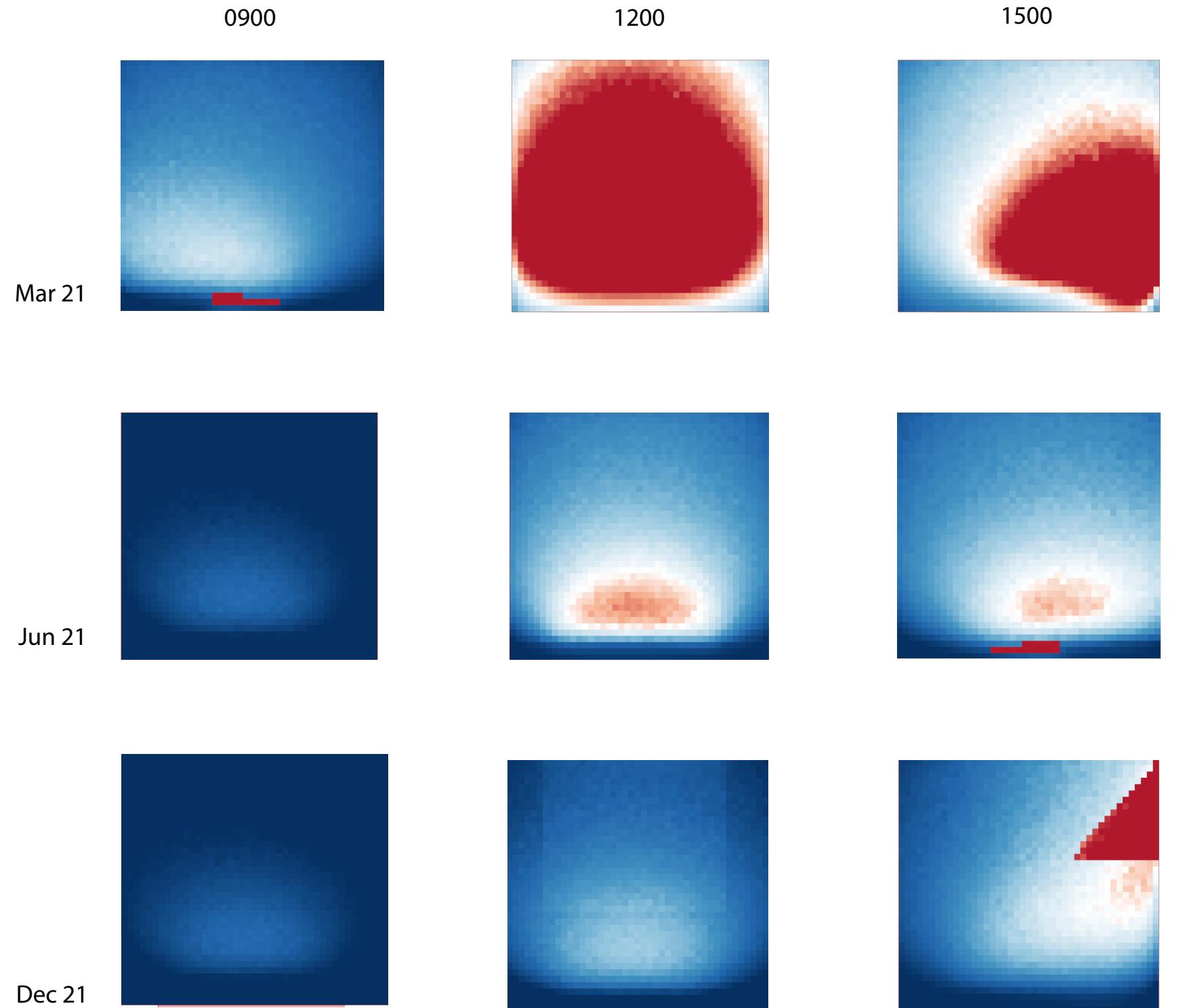
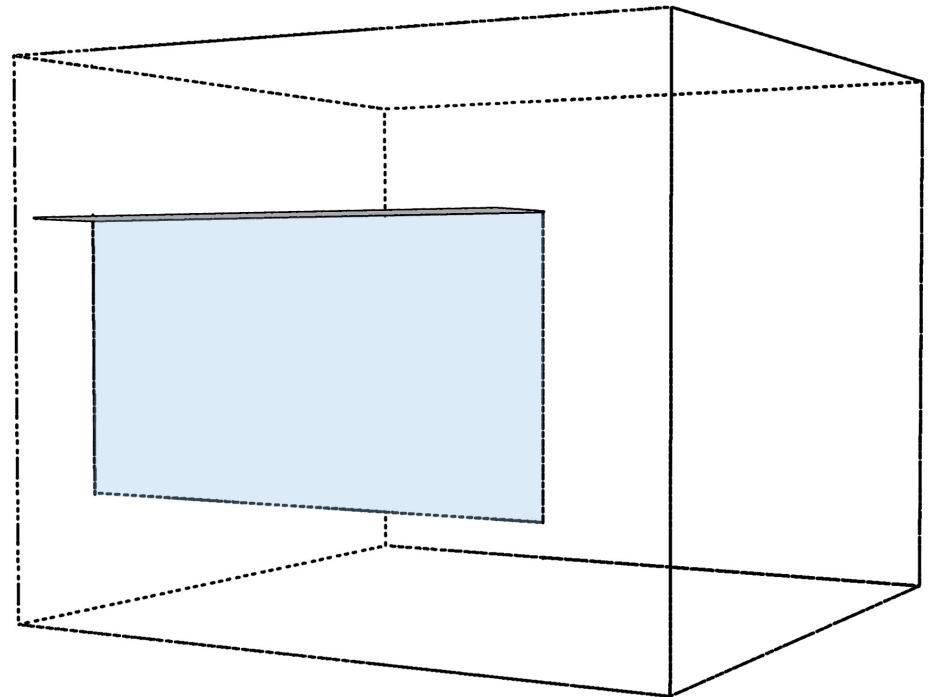
Horizontal Shading: 1m
Horizontal shading reduces
the glare substantially



Daylighting Design for “Dream Room”

Philadelphia
110 N 34th Street

Horizontal Shading



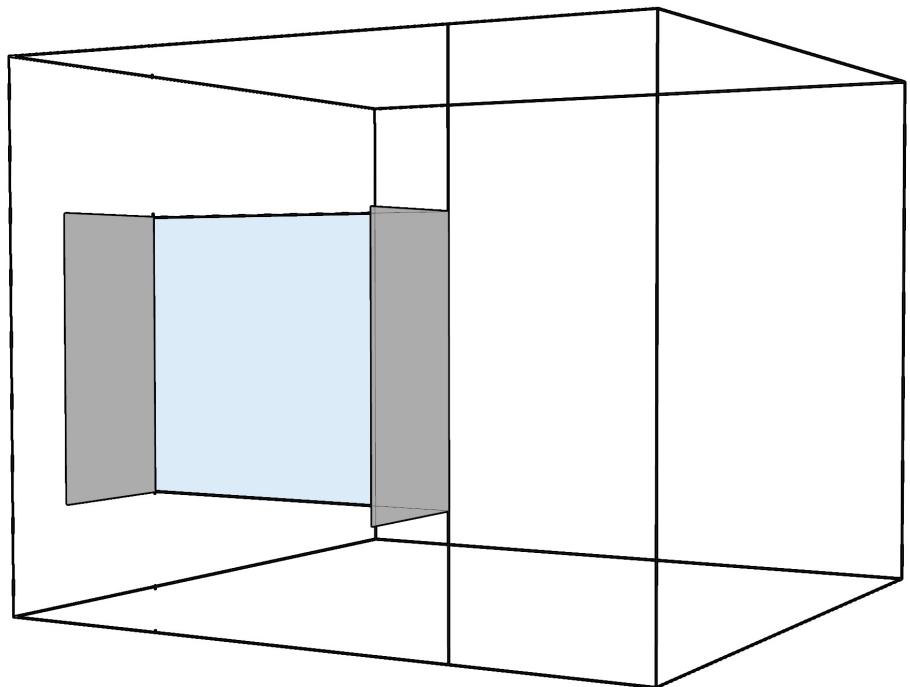
Horizontal Shading: 0.5 m
Decreasing the depth os horizontal shading also increases the glare

Daylighting Design for “Dream Room”

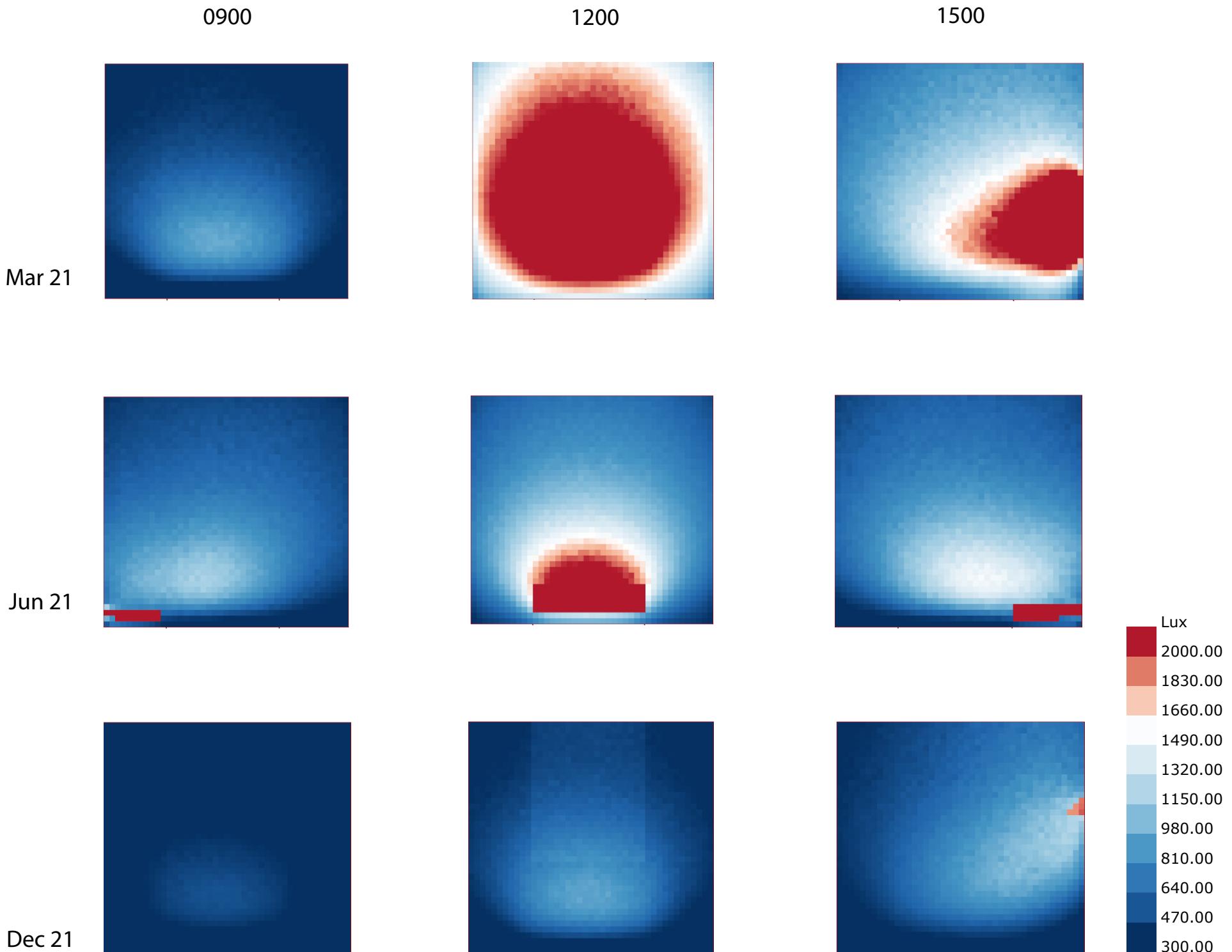
Philadelphia

110 N 34th Street

Vertical Shading



Vertical Shading: 0.75 m
Vertical shading increases the
daylighting while also increas-
ing the glare

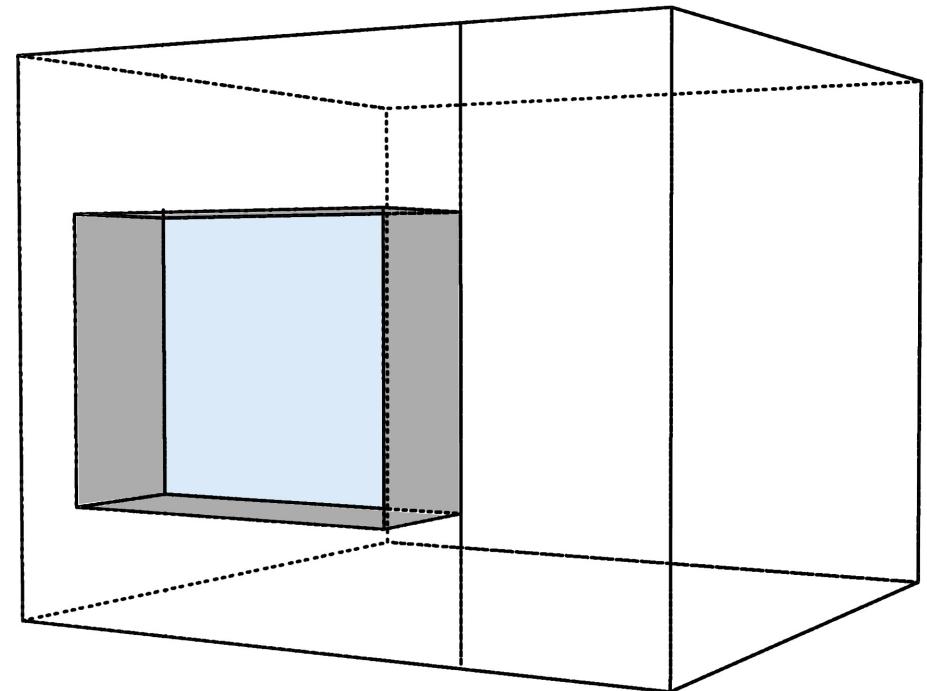


Daylighting Design for “Dream Room”

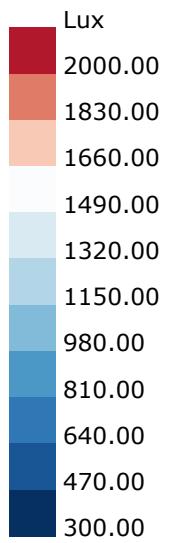
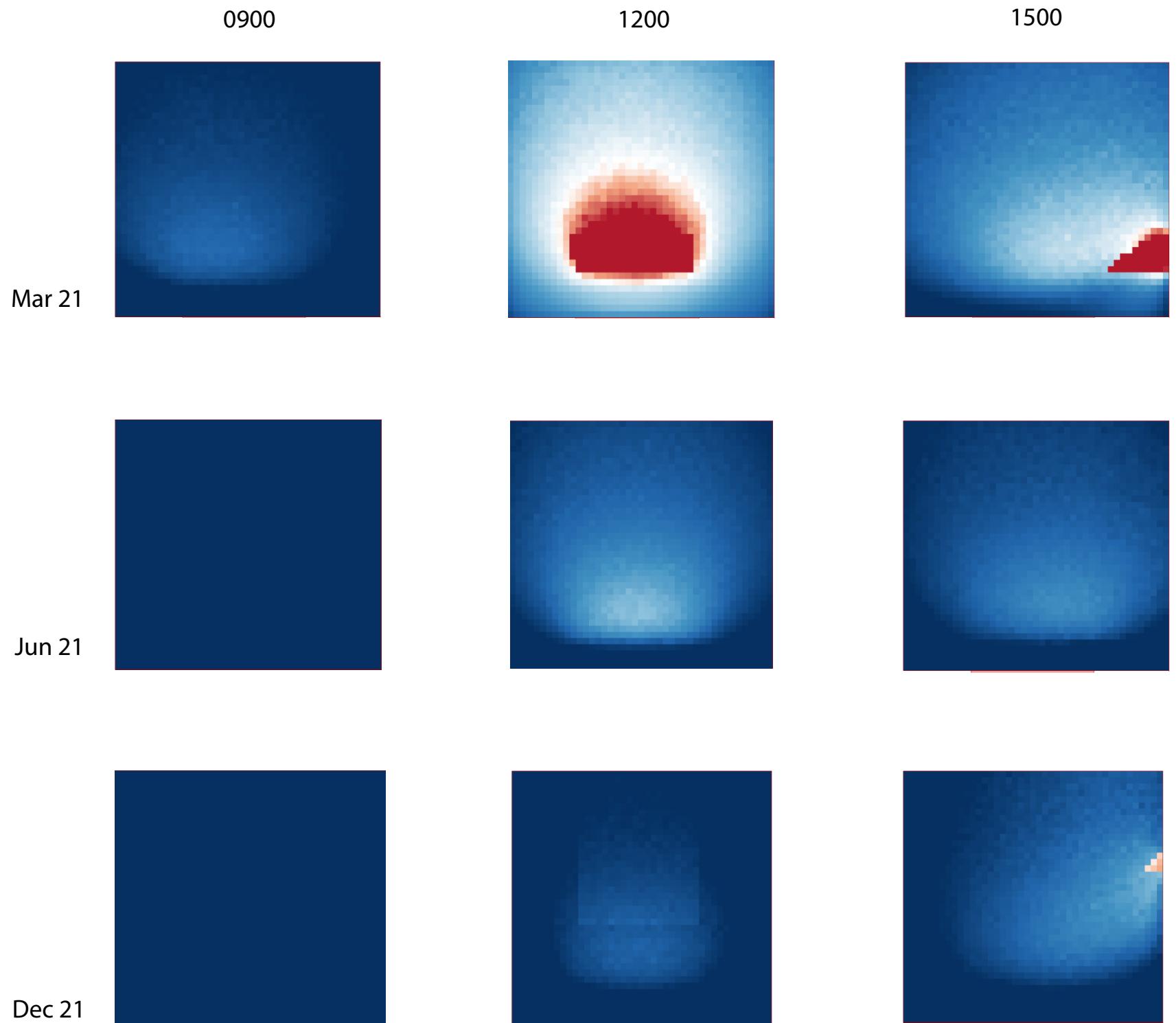
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110 N 34th Street

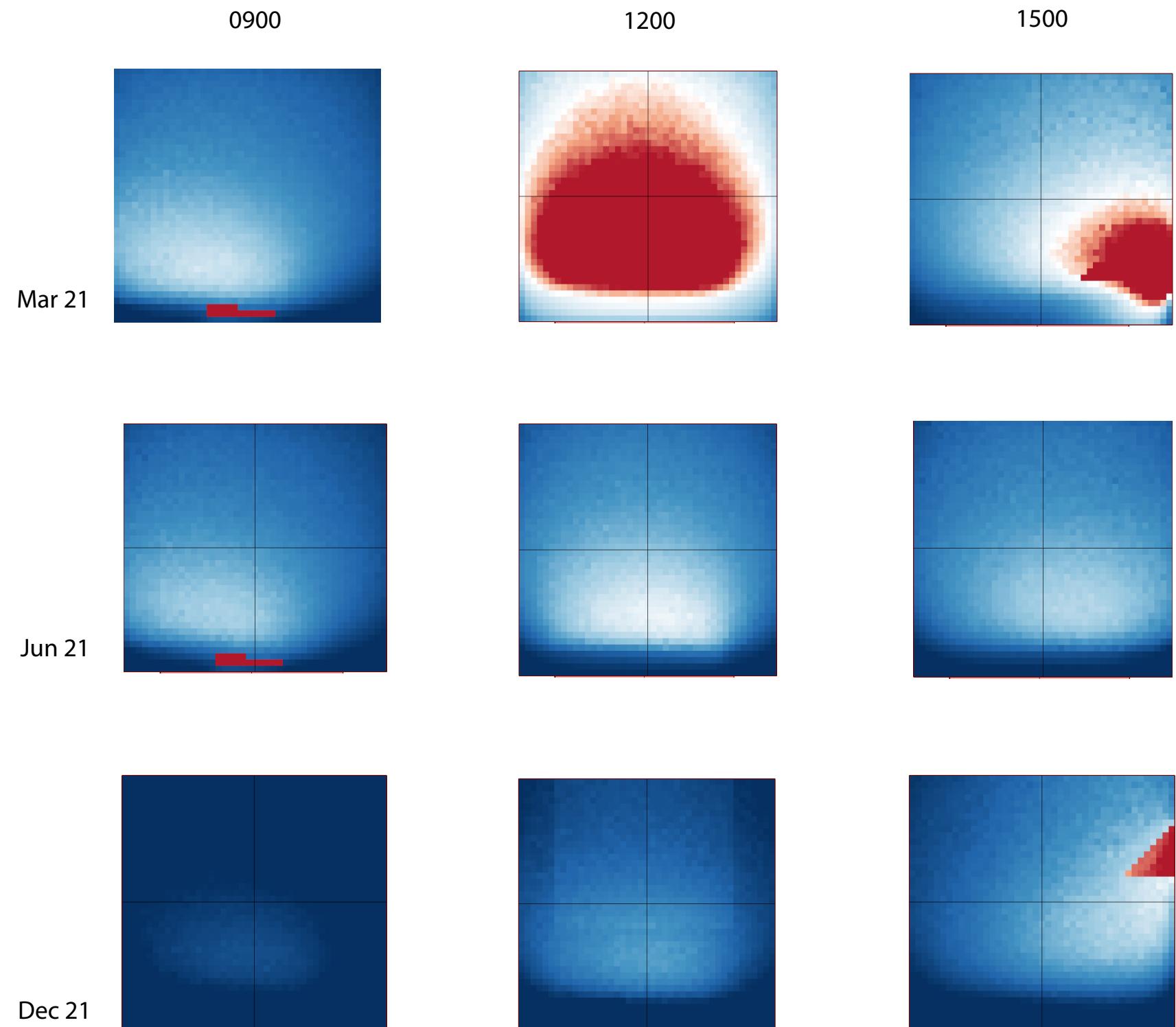
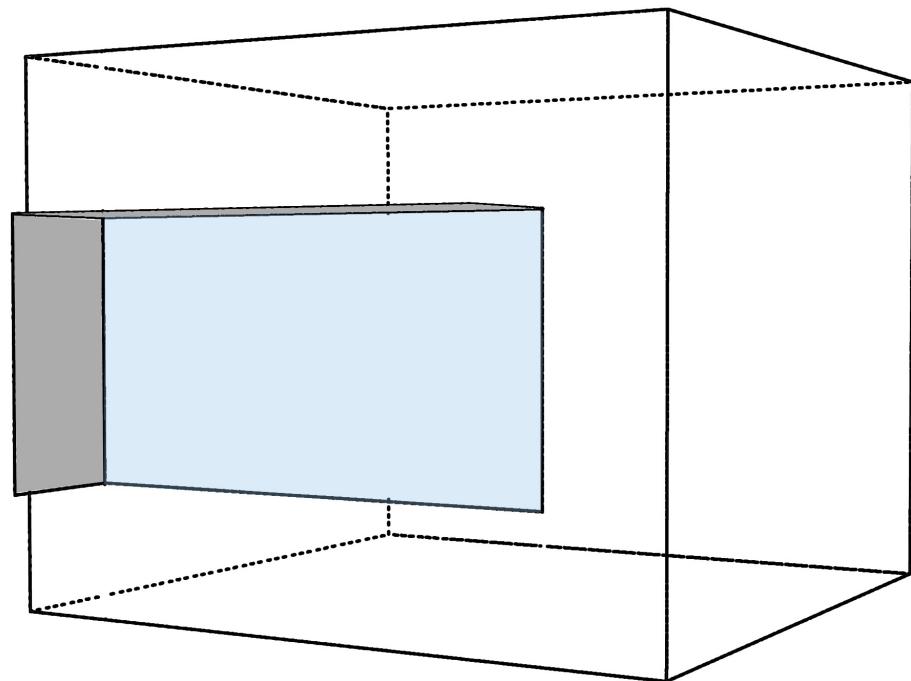
Horizontal & Vertical Shading



Vertical & Horizontal Shading: 0.75 m
Introducing a combination of both types of shading reduces the daylighting especially during 9am in all three months



Horizontal & Vertical Shading



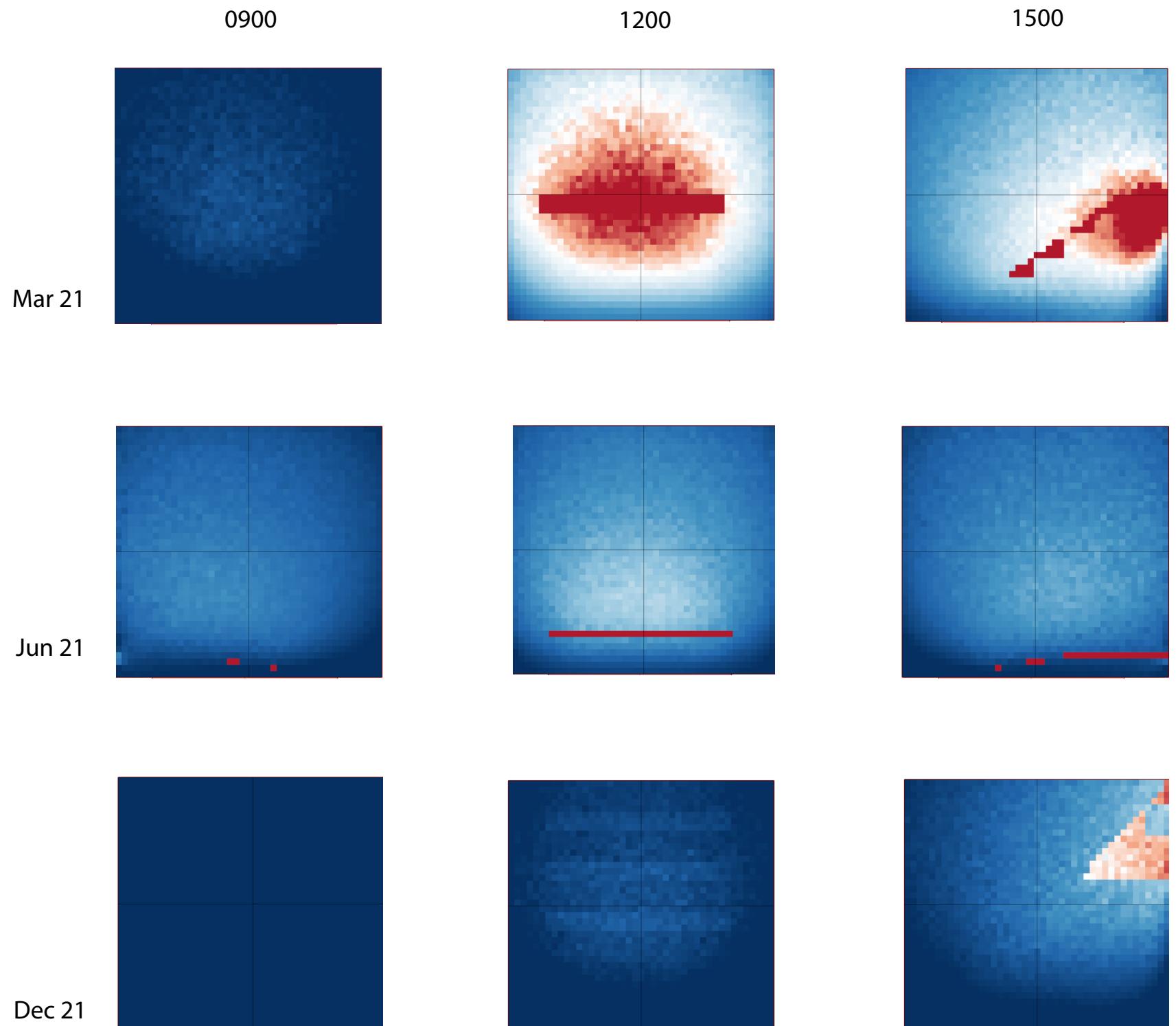
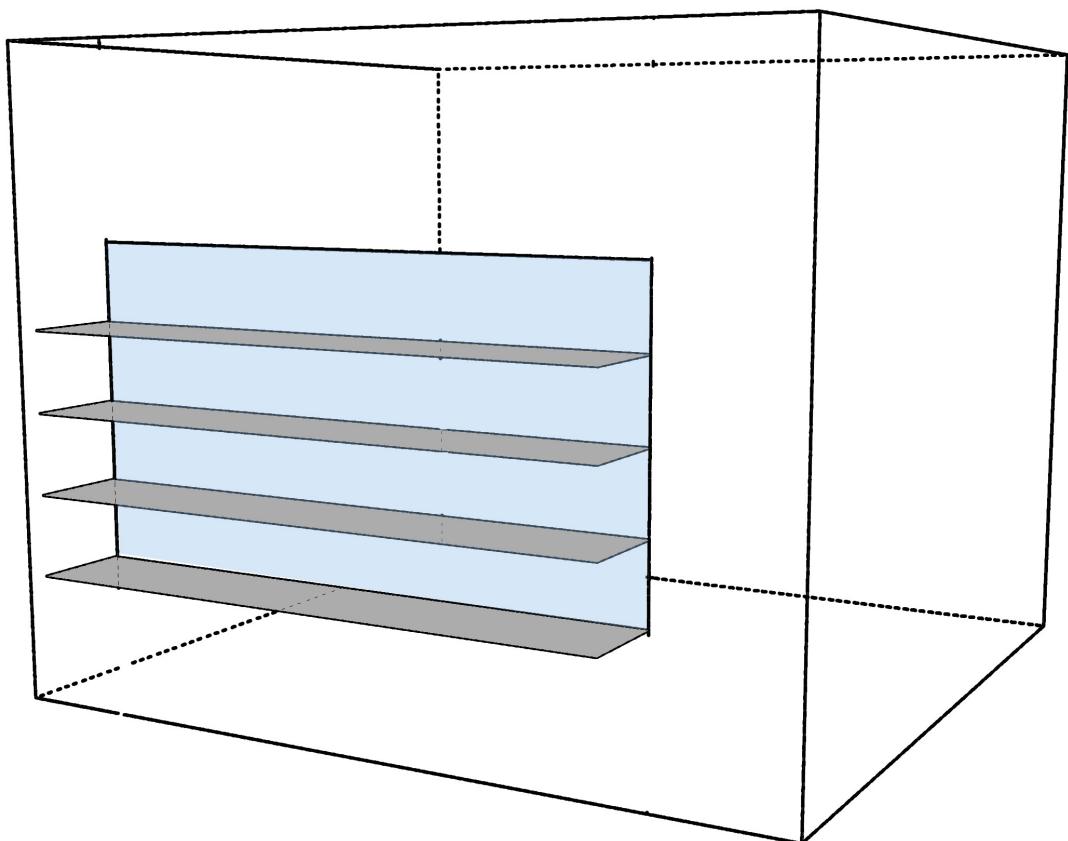
Vertical & Horizontal Shading: 0.75 m
 Introducing a combination of both types of shading reduces the daylighting but not enough

Daylighting Design for “Dream Room”

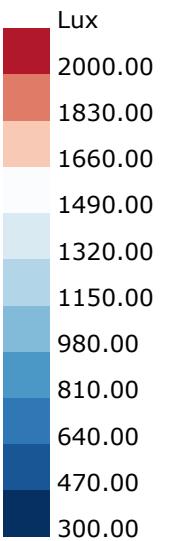
Philadelphia

110 N 34th Street

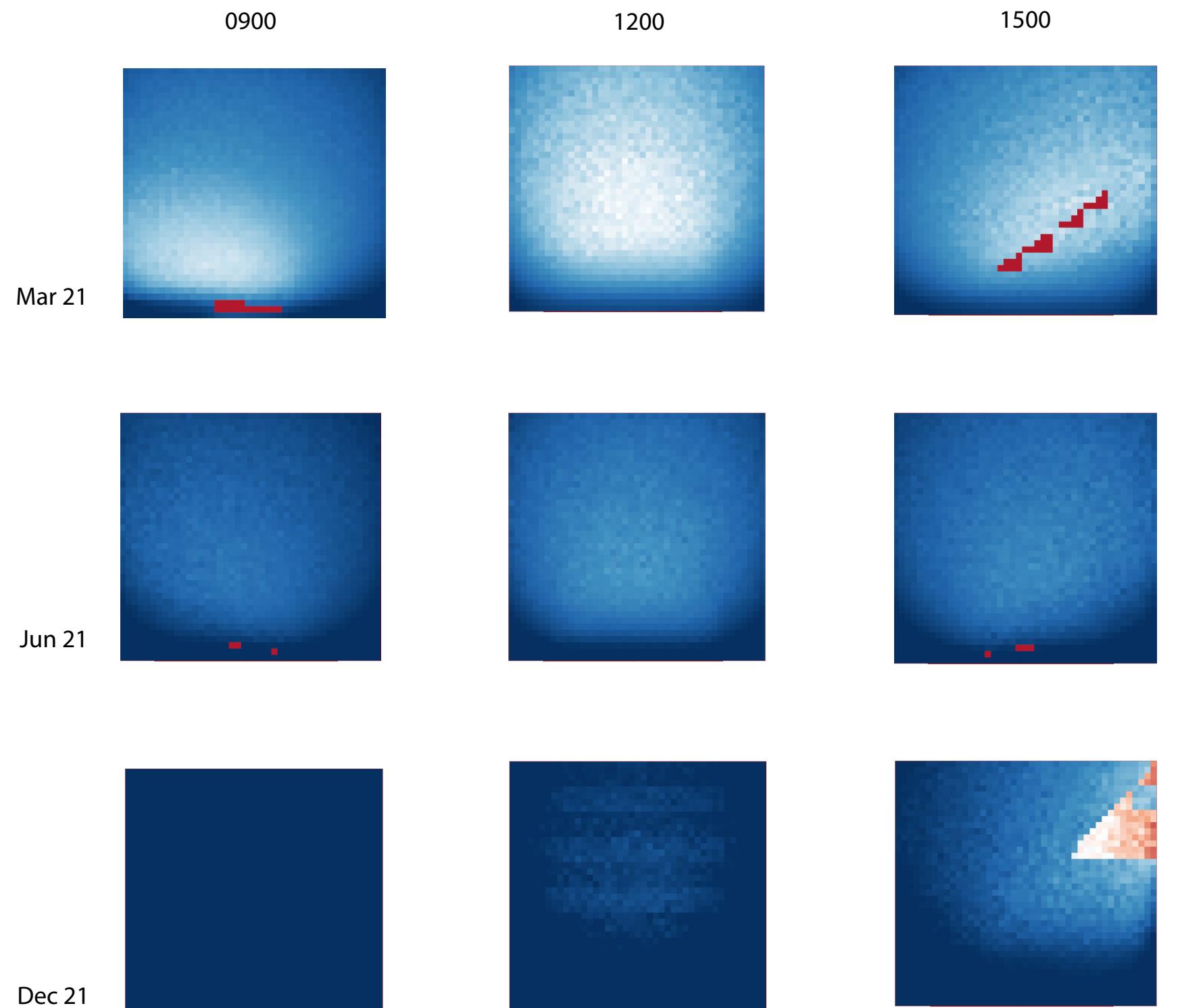
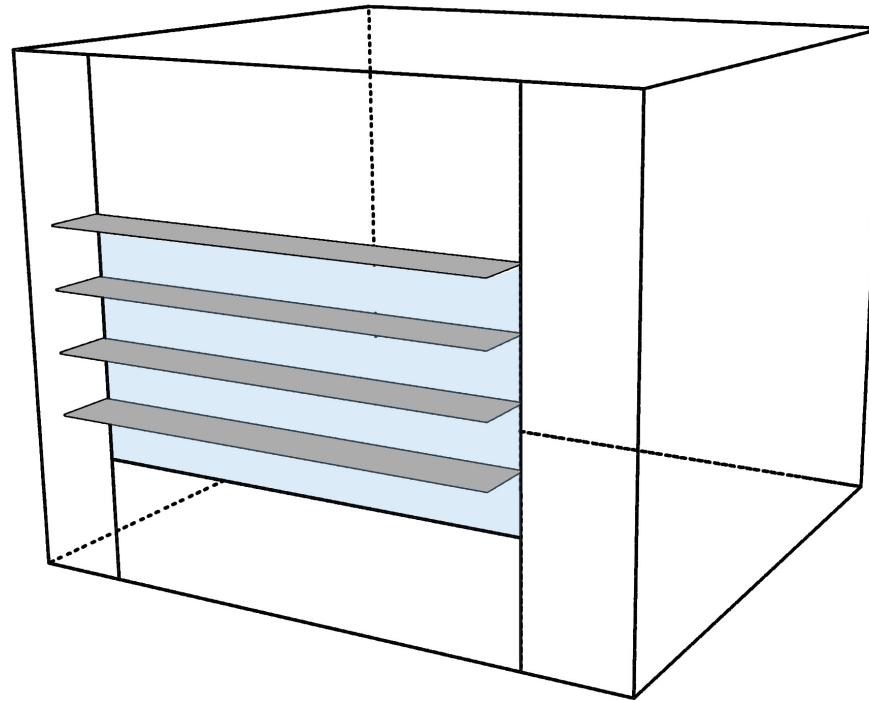
Horizontal Shading



Horizontal Shading: 0.75 m
Providing multiple horizontal shading reduces the glare but also darkens some areas



Horizontal Shading



Horizontal Shading: 0.5 m
Decreasing the size of the horizontal shading devices increases the daylighting and reduces glare