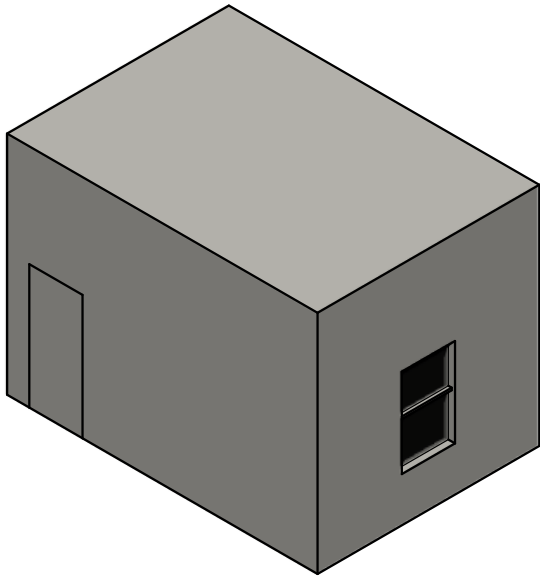
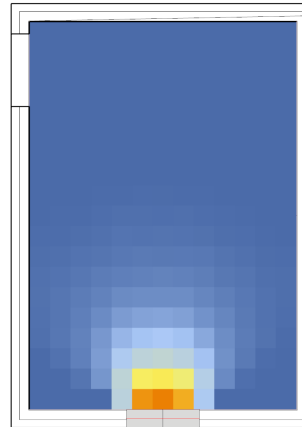
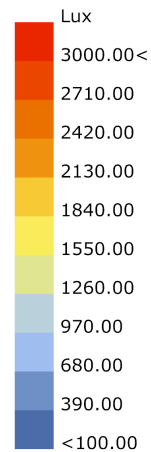


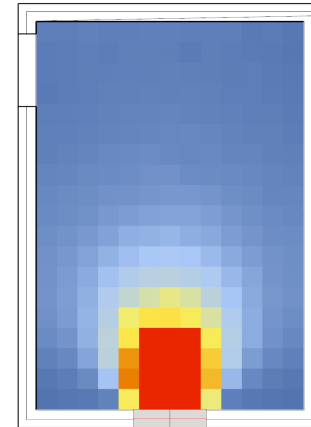
Original Daylighting



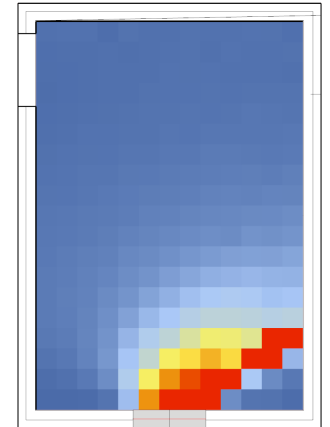
While the window in this room is large, it is insufficient to provide light deeply into the room. However, the dimensions of the room are such that a light shelf could be highly beneficial. In particular the high ceiling provides the space in which the light could mix and permeate further into the room.



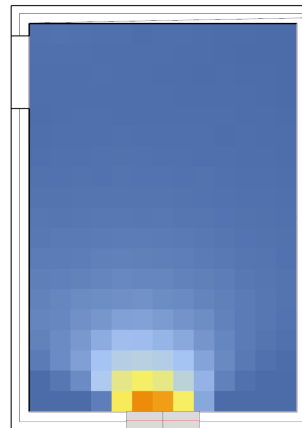
March 21, 9AM



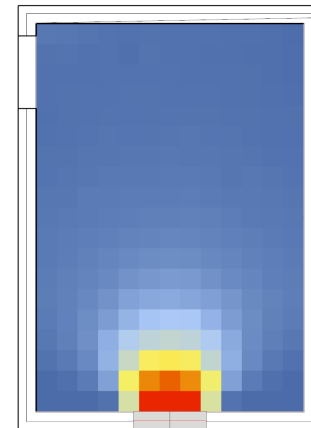
March 21, 12PM



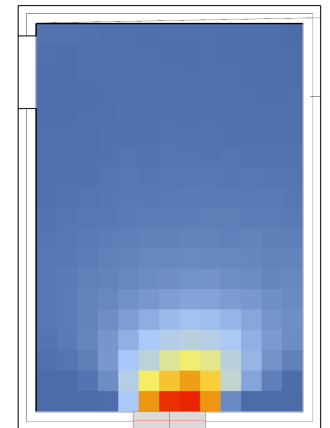
March 21, 3PM



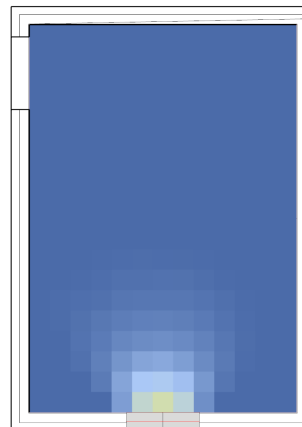
June 21, 9AM



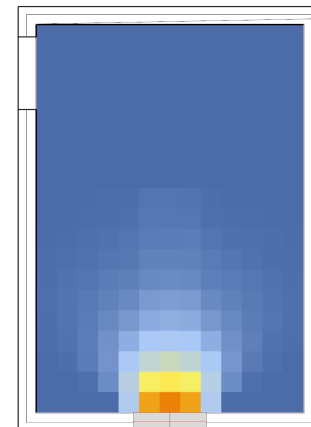
June 21, 12PM



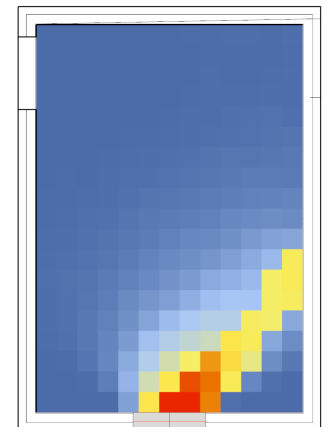
June 21, 3PM



December 21, 9AM

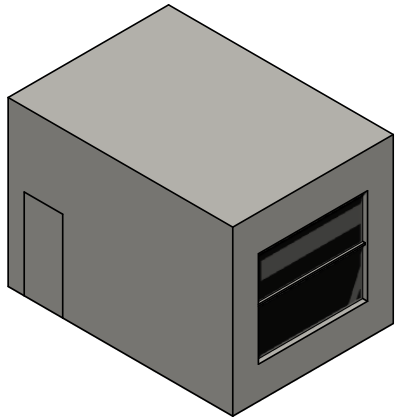


December 21, 12PM

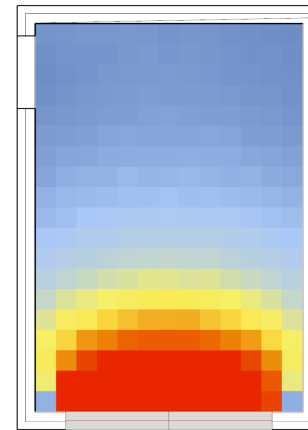


December 21, 3PM

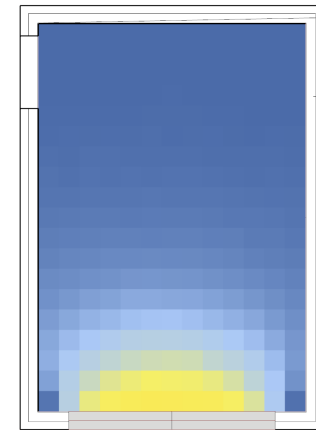
Testing Lighting



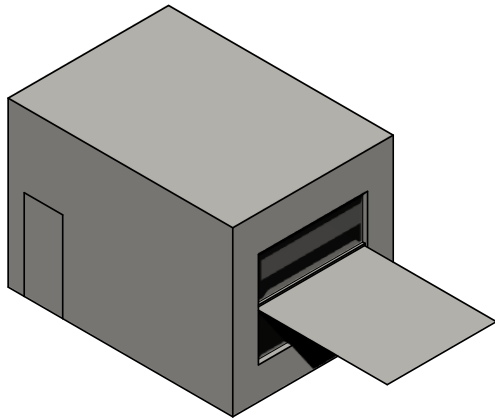
By Expanding both the width and the height of the window light is able to reach further into the room. However, the increased glazing also allows for increased opportunities for glare.



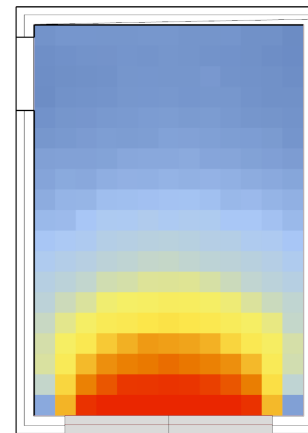
June 21, 12PM



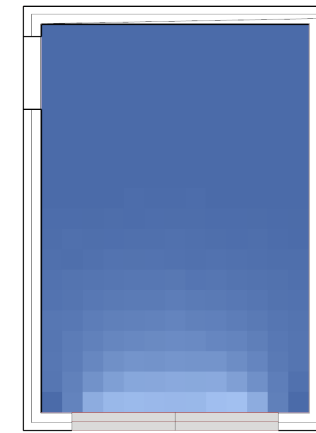
December 21, 9AM



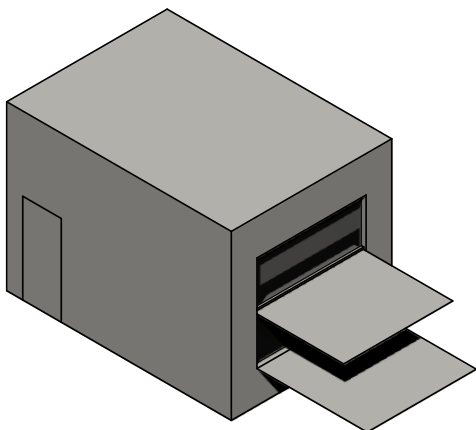
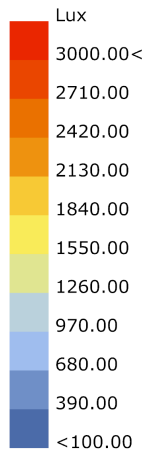
This study looked at an oversized light shelf to reduce some of the glazing in the front of the room while introducing more deeper into the room.



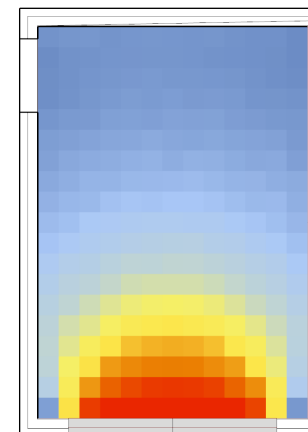
June 21. 12PM



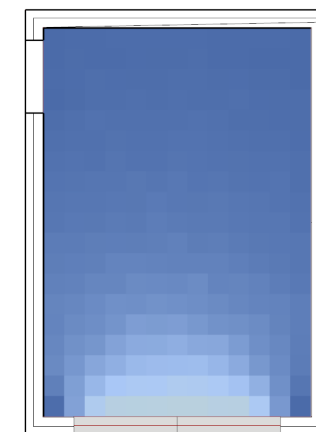
December 21, 9AM



By introducing a second reflective shelf below the glazing of the window, light which would be lost is bounced into the room increasing the overall light in the room in the winter.

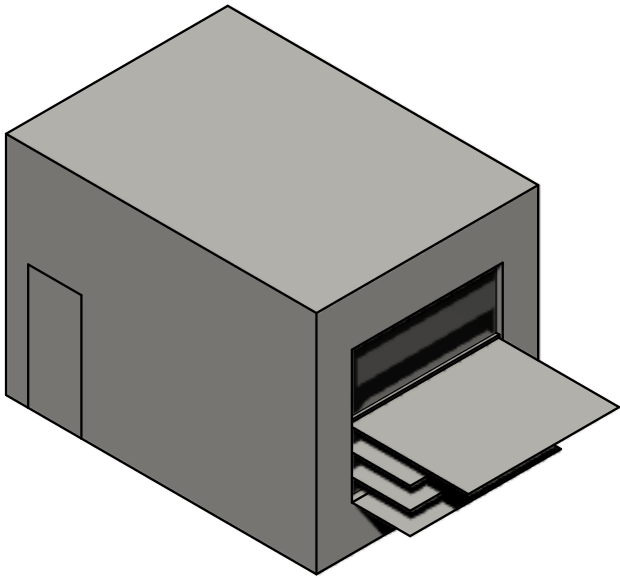


June 21, 12PM

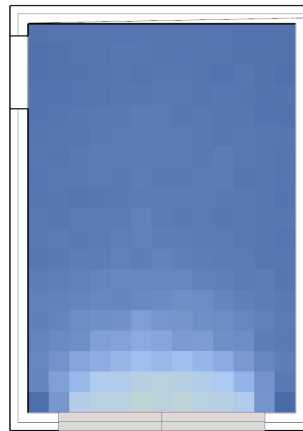
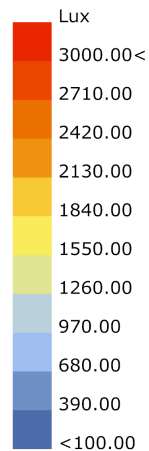


December 21, 9AM

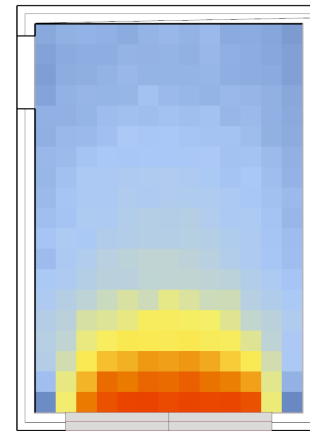
Proposed Strategy



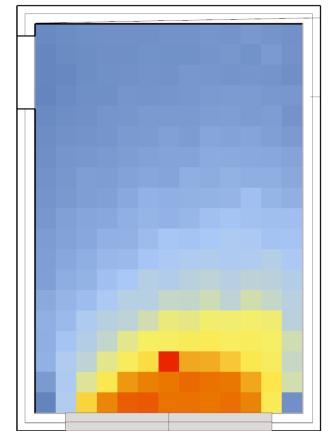
To achieve a more even lighting level throughout the year a design was developed using both a light shelf and horizontal shading below. By the all of the shading devices being reflective, light is moved further in to the space while reducing the glare and direct sunlight in the summer.



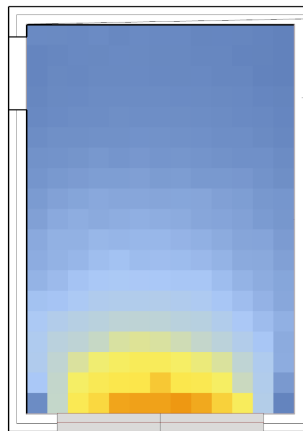
March 21, 9AM



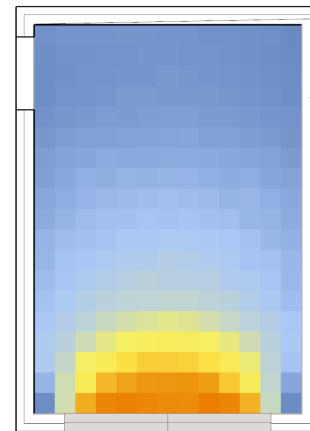
March 21, 12PM



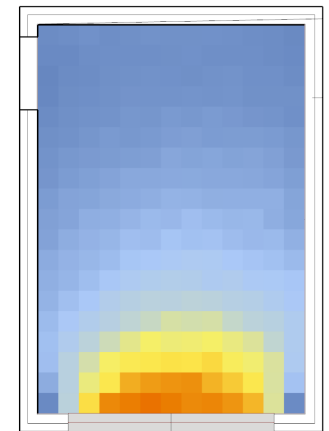
March 21, 3PM



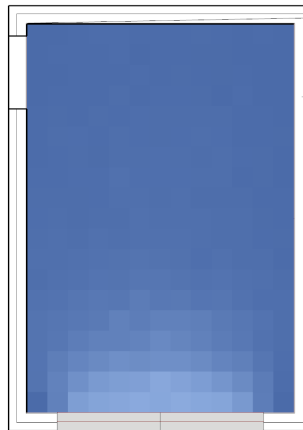
June 21, 9AM



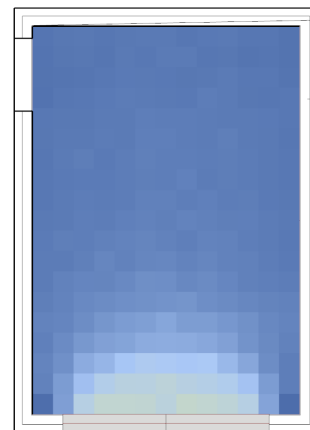
June 21, 12PM



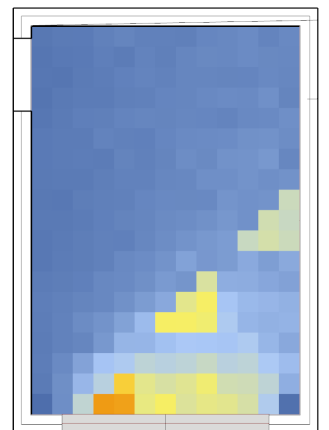
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December 21, 9AM



December 21, 12PM



December 21, 3PM