

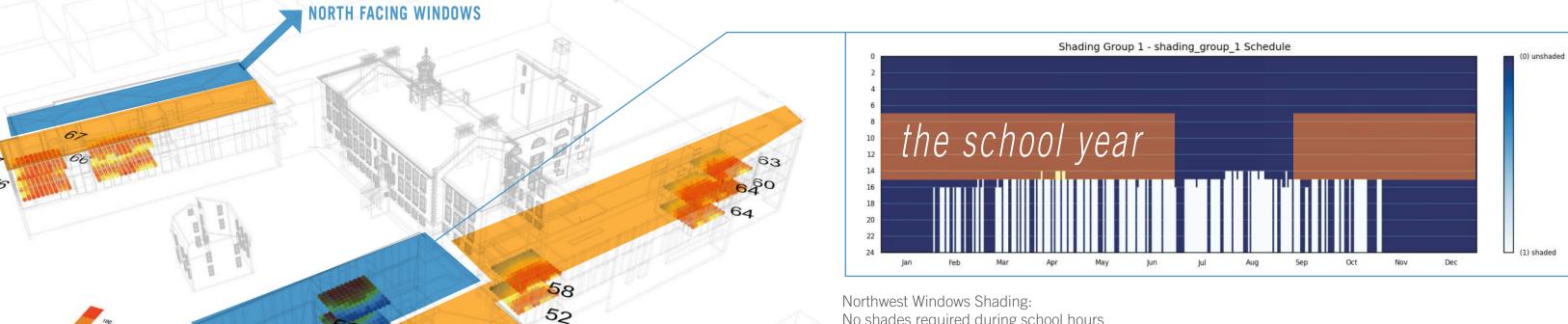


PROBLEM

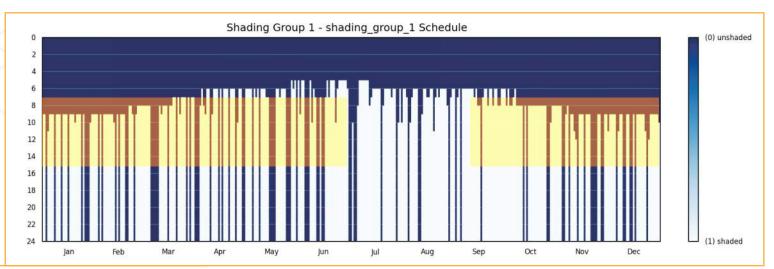
Comparing louvers to clear glass as shown in the previous pages is not realistic - the louvers are a replacement for interior adjustable shading, NOT OPEN CLEAR GLASS. In reality, shades will be drawn if the direct sun causes any glare or discomfort for students. Therefore, we must include shades in the base condition for comparison.

SOLUTION

We calculated a shading profile for a typical south facing, and typical north facing rooms. The results give us a % of the year in which shades would theoretically be drawn, represented by the white lines below. WITH MANUAL OPERATION, THIS ANALYSIS PRESUMES THAT ONCE THE BLINDS ARE DRAWN, THEY STAY DOWN. Days with no blinds drawn are overcast.



No shades required during school hours



Southeast/west Shading:

~65% of the school year would require shades drawn, according to this profile.

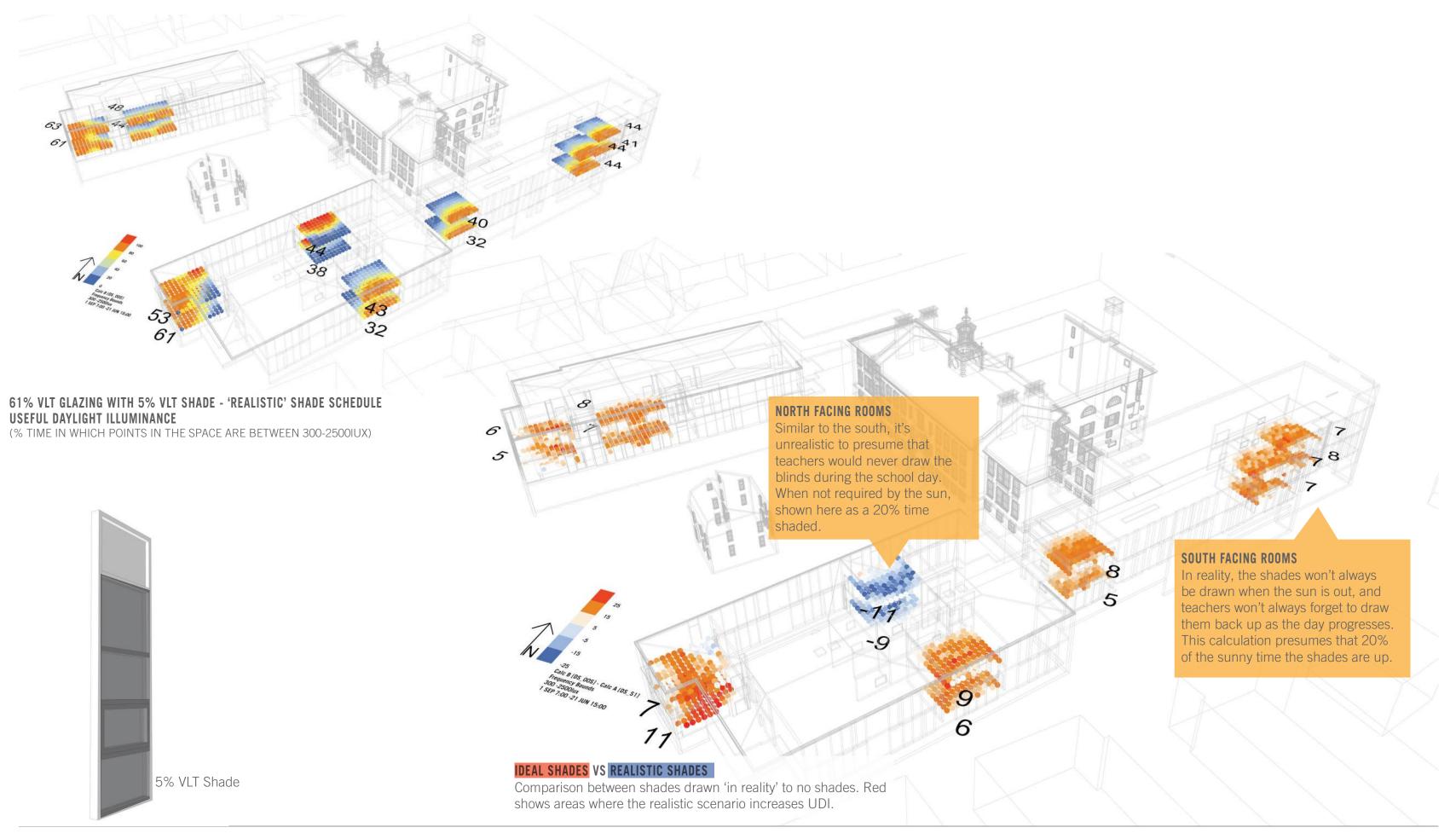


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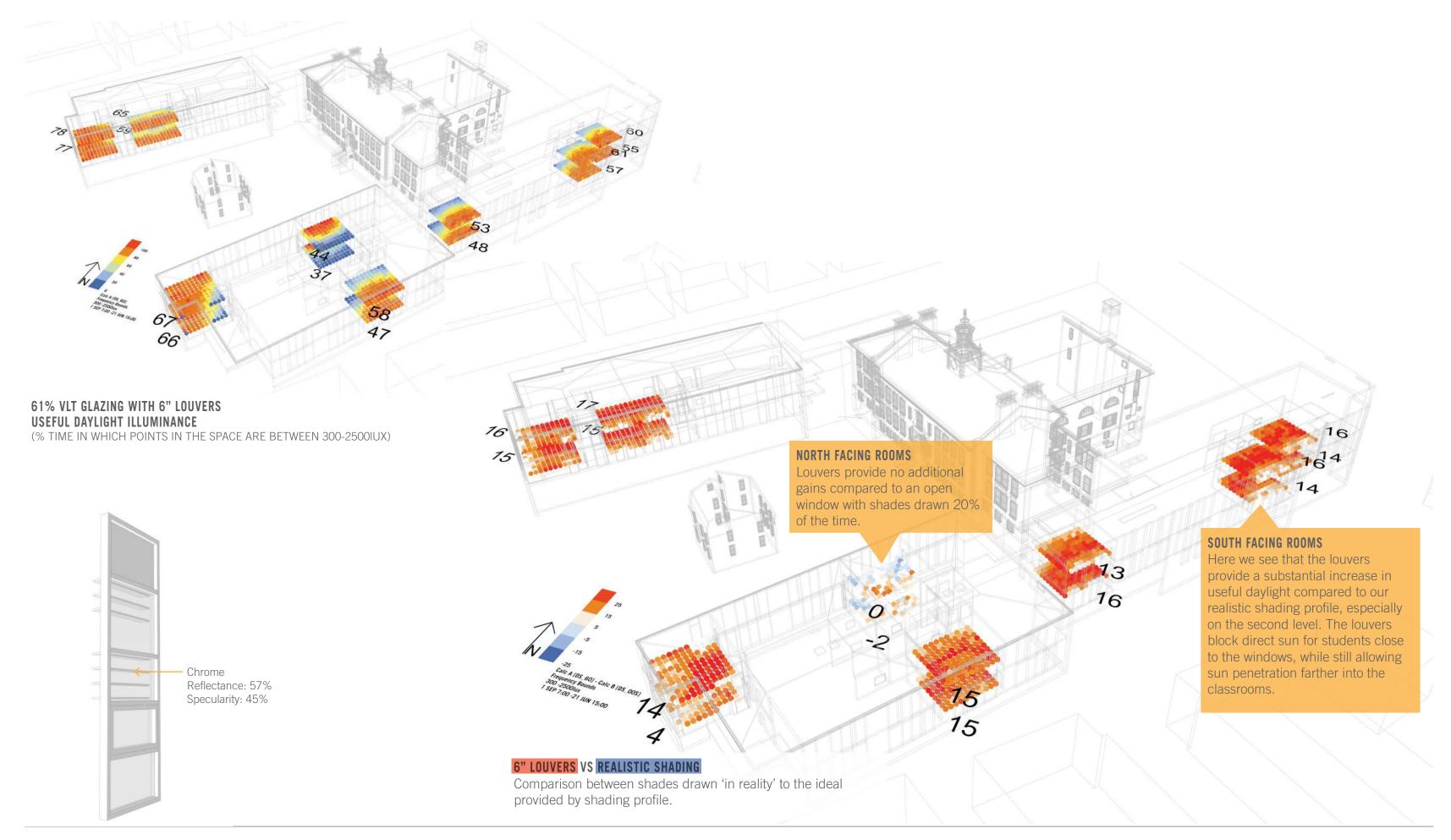
SOUTH FACING WINDOWS

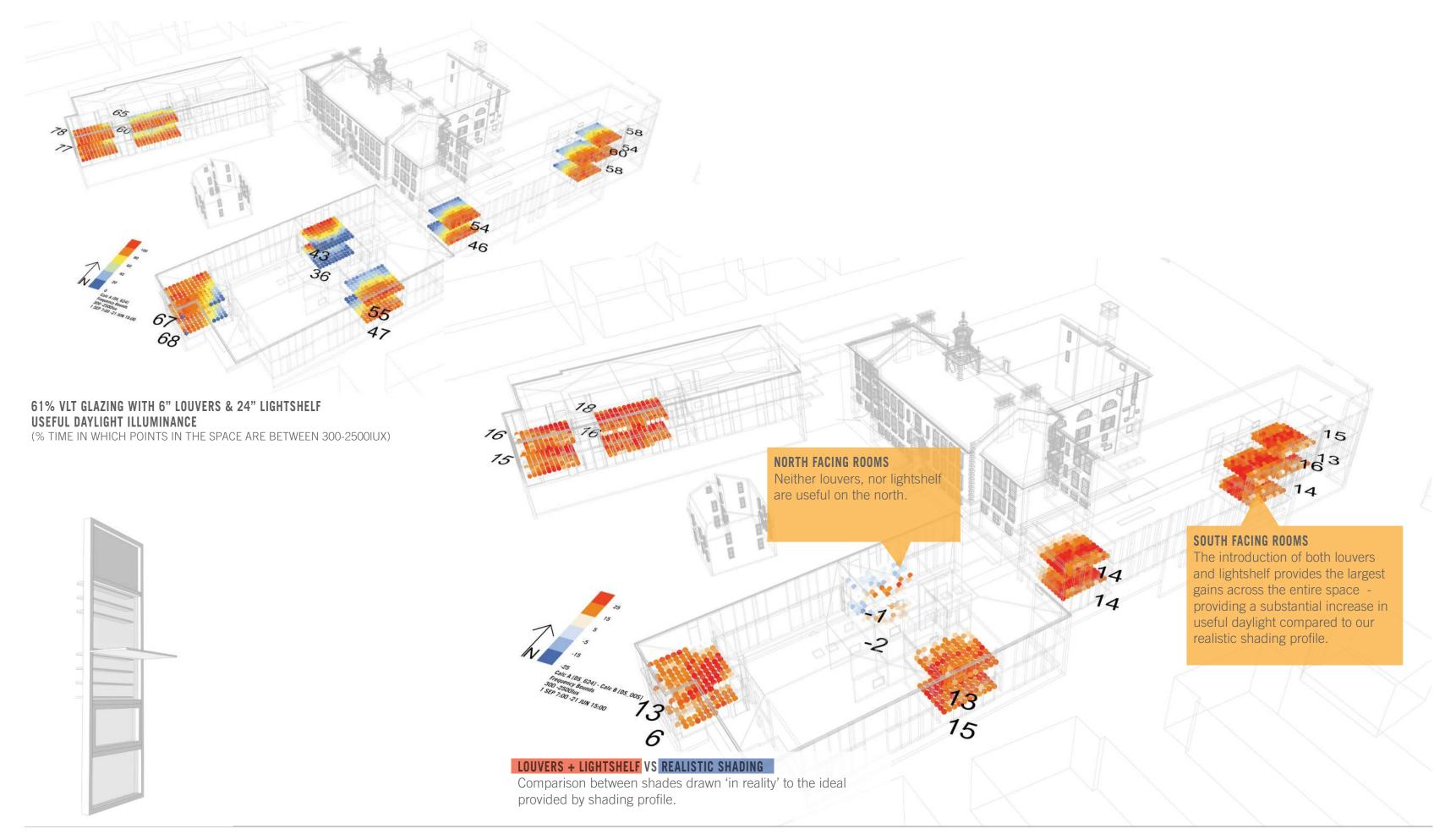




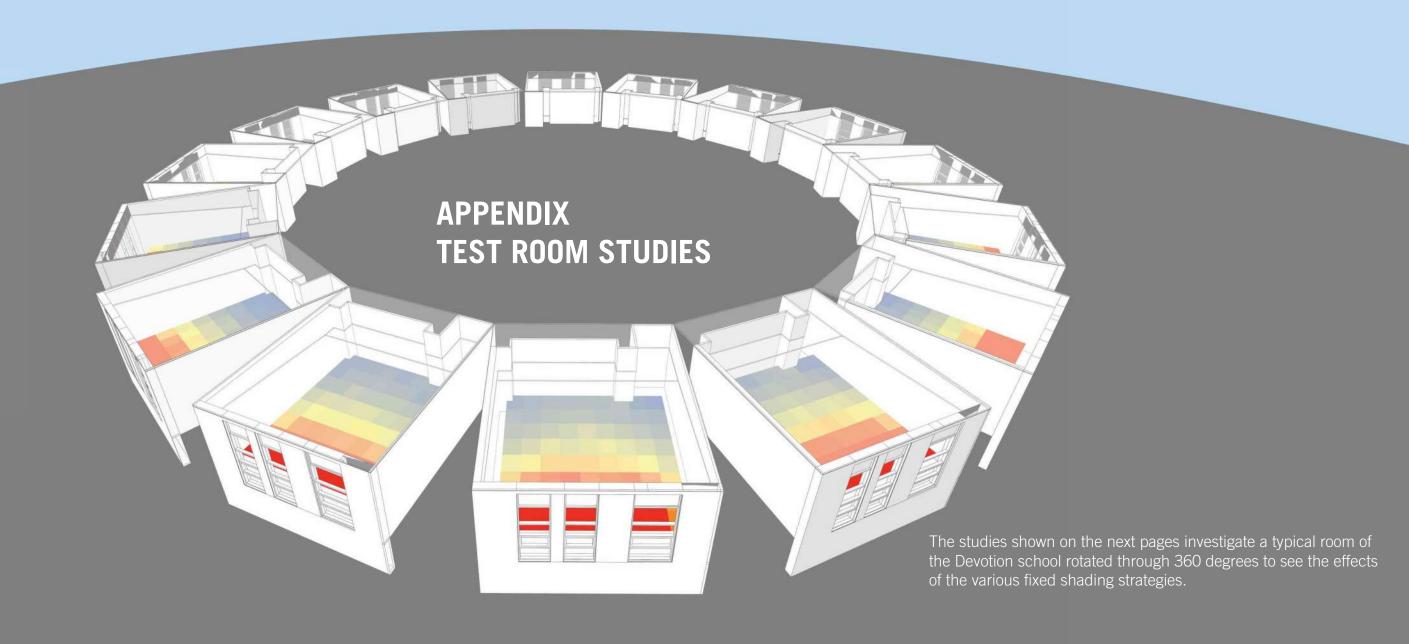






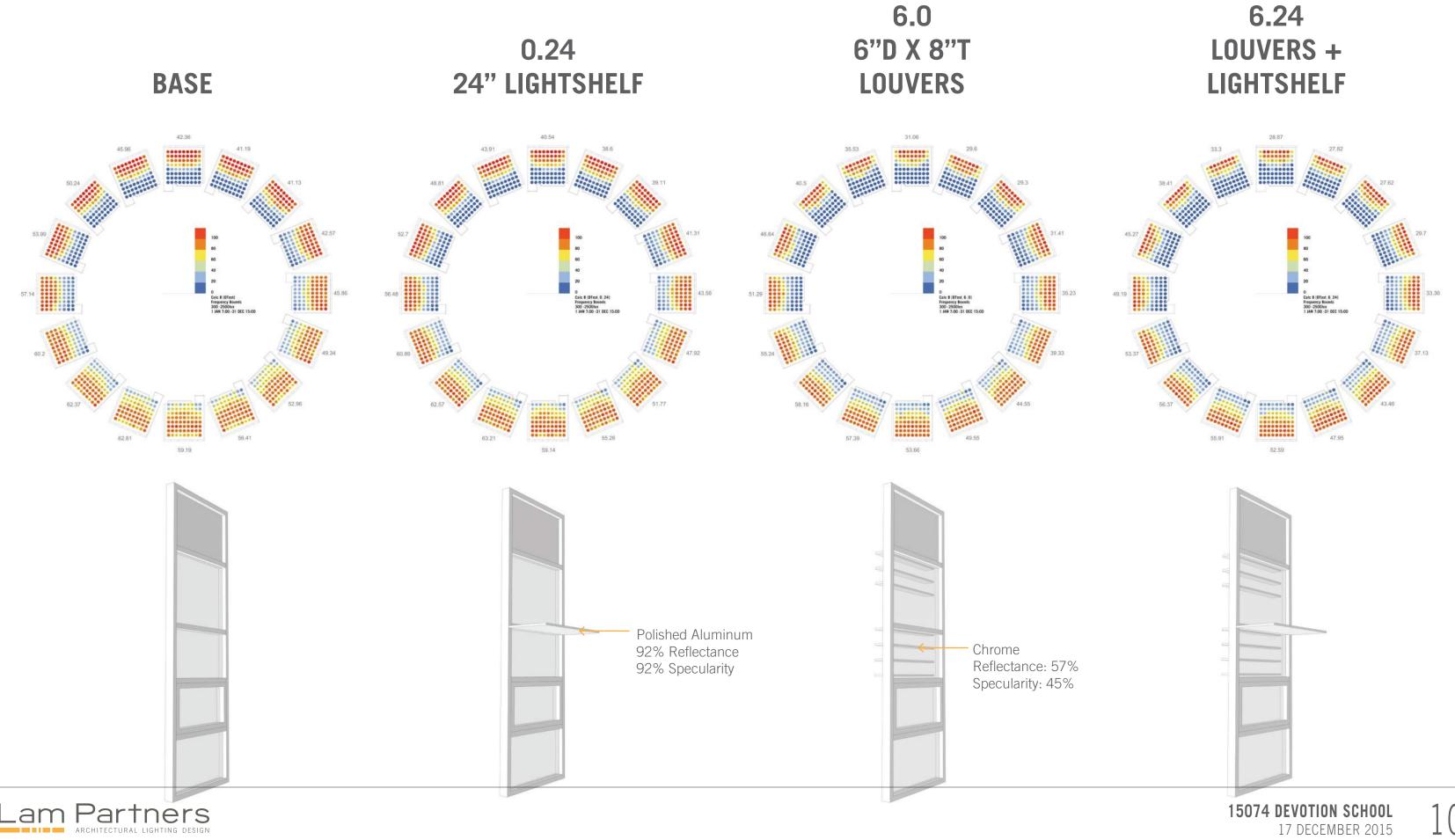




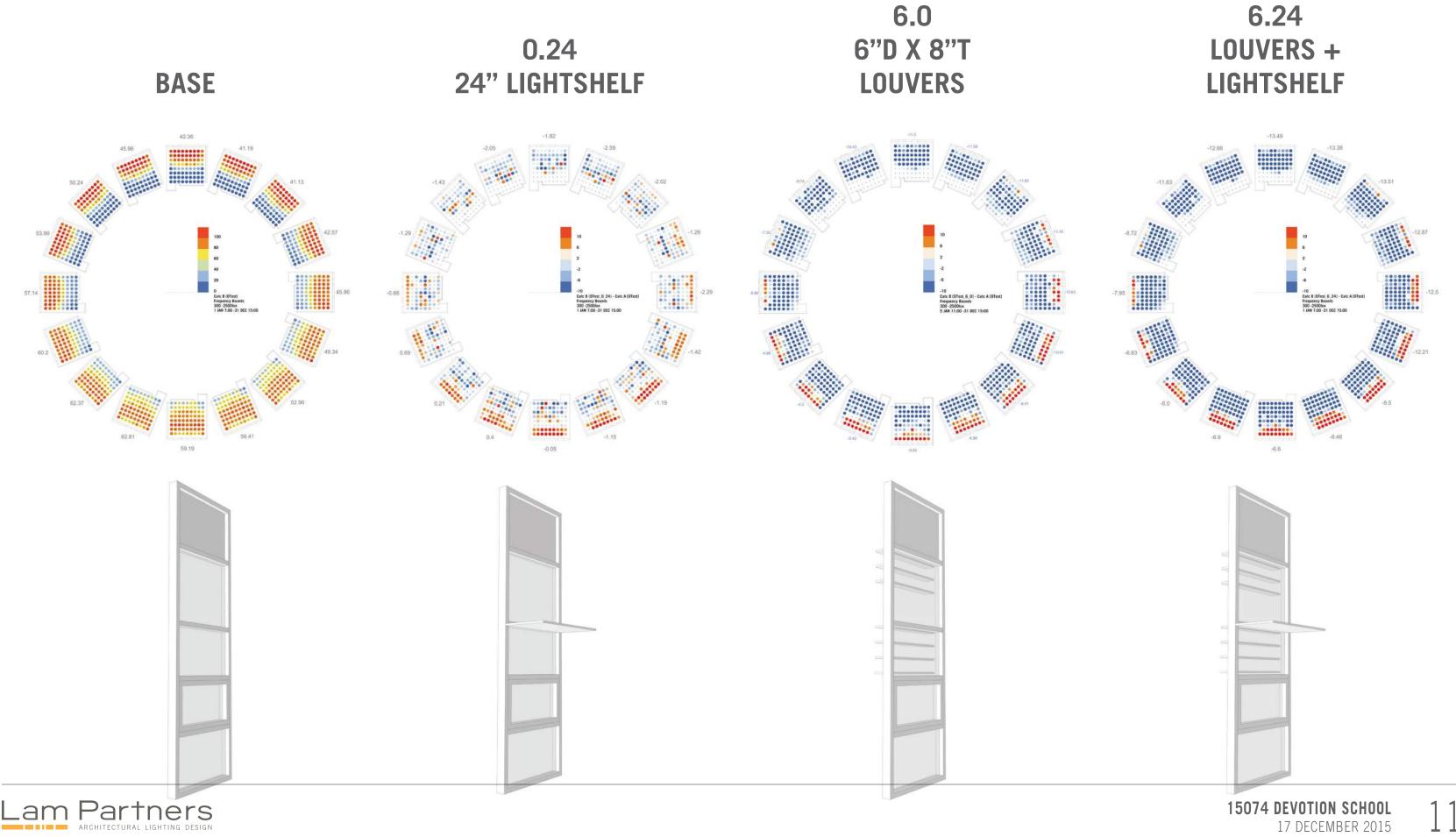




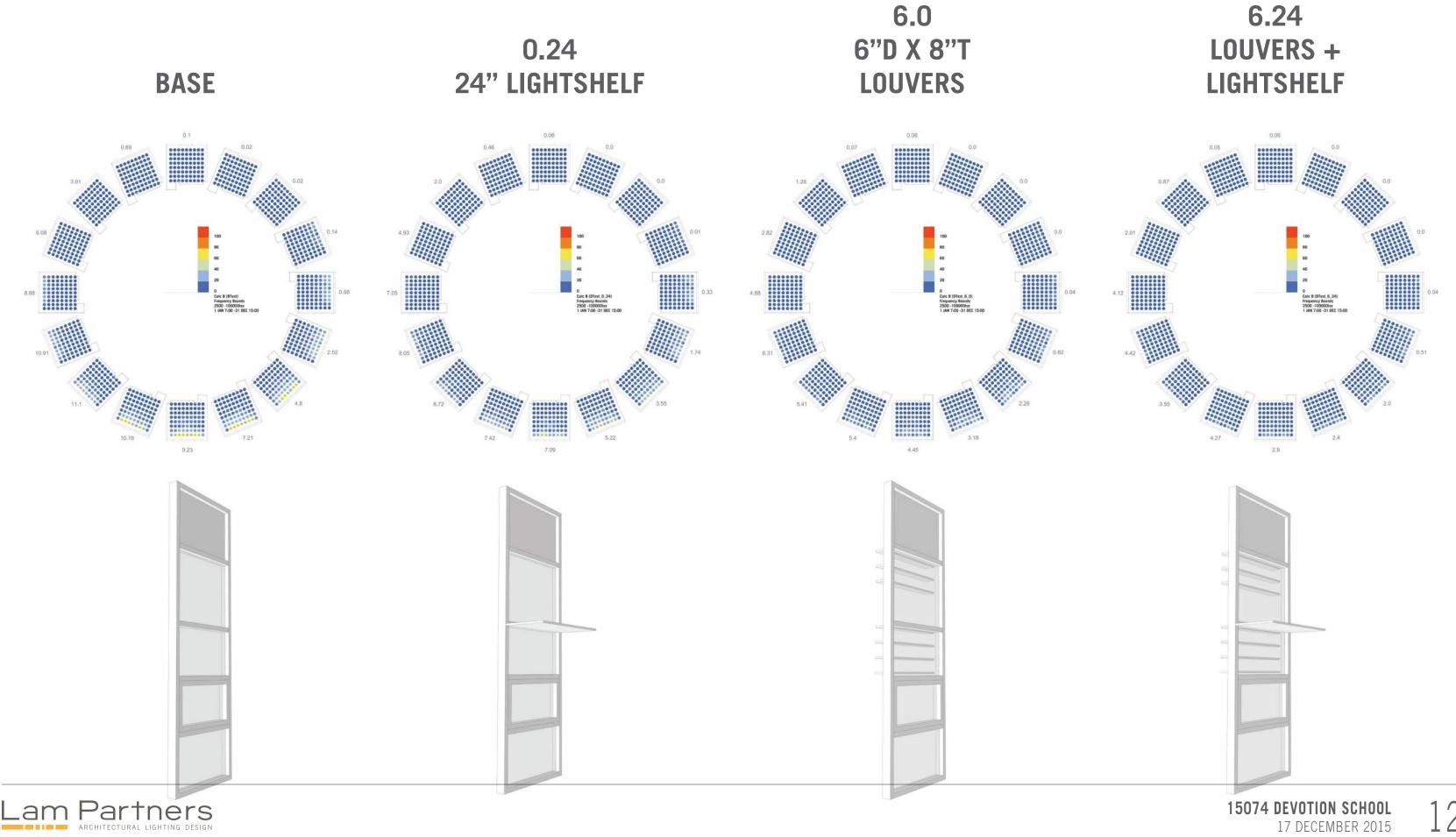
UDI [300-2500LUX]



COMPARATIVE UDI [300-2500LUX]



% TIME ABOVE 2500LUX



COMPARATIVE % TIME ABOVE 2500LUX

