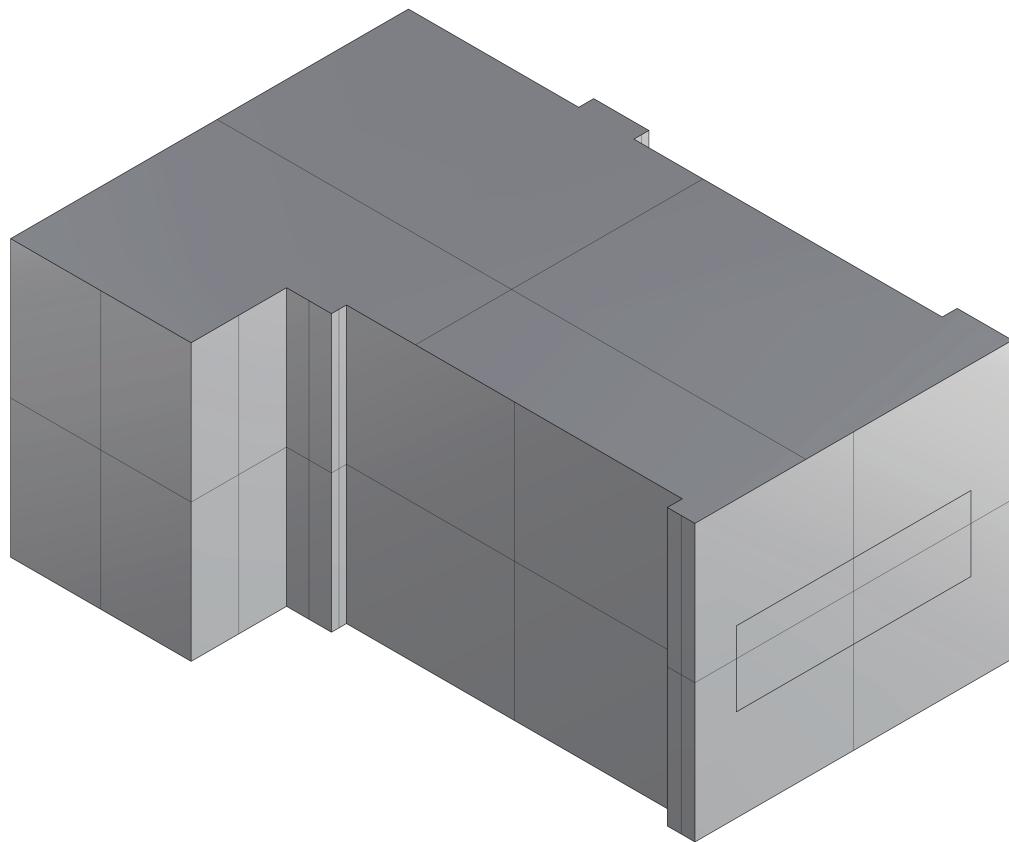
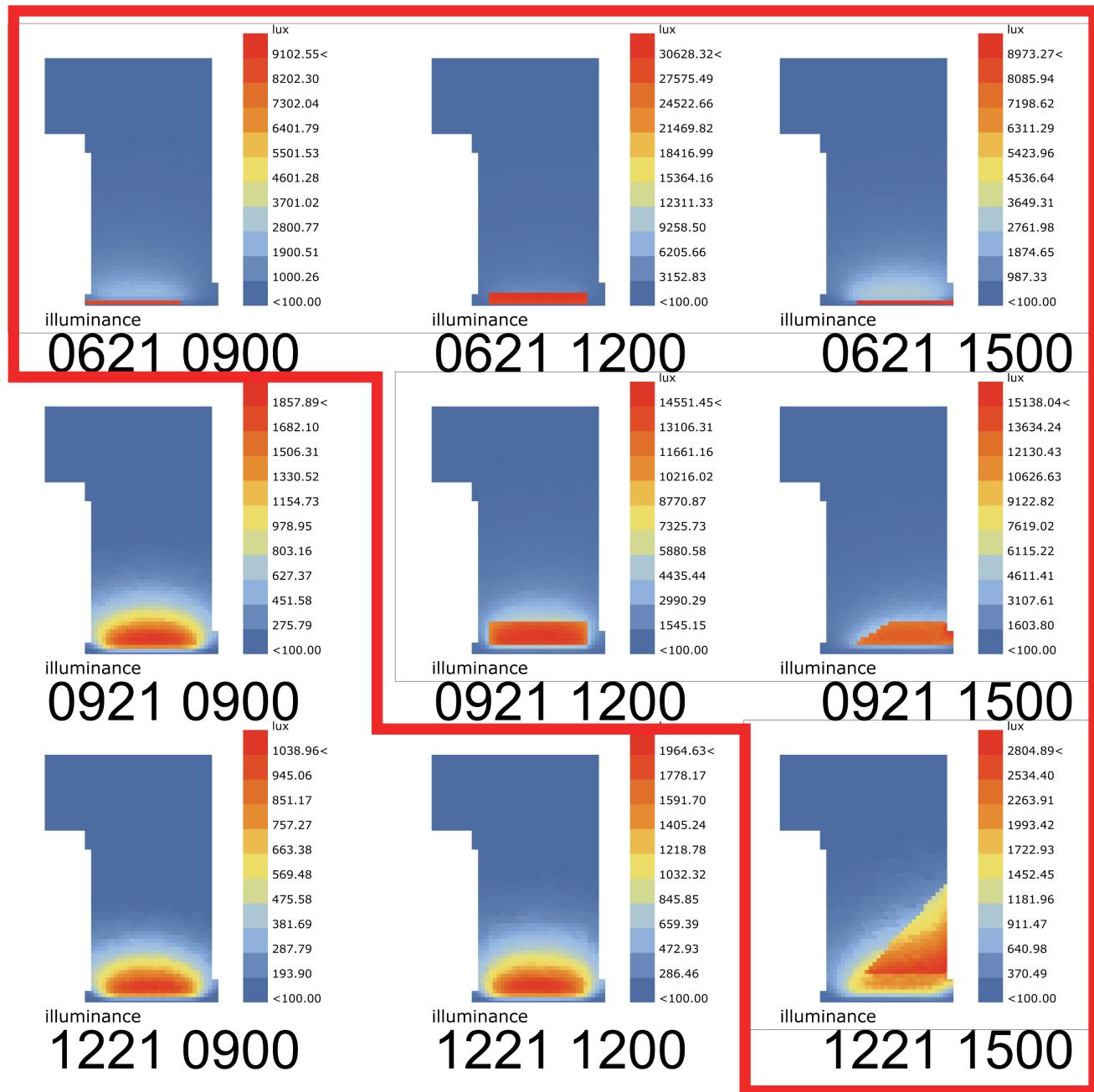


POINT IN TIME DAYLIGHT ANALYSIS

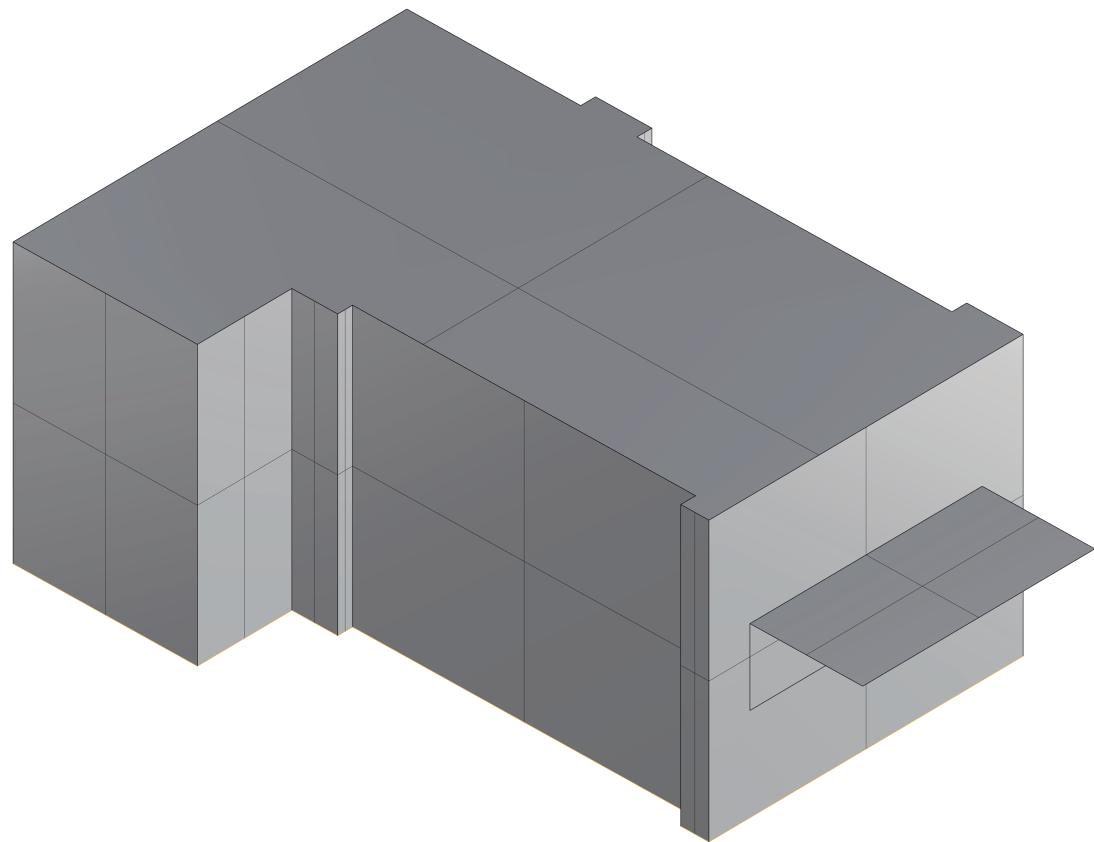
Yunzhongda Peng | MSD 2017 Candidate
Arch 753 Building Performance Simulation
Instructor: Mostapha S. Roudsari
University of Pennsylvania
School of Design



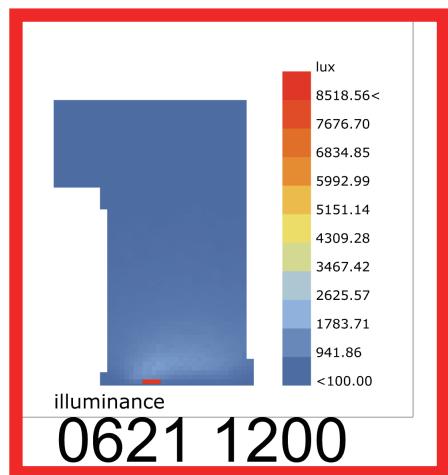
Original Analysis



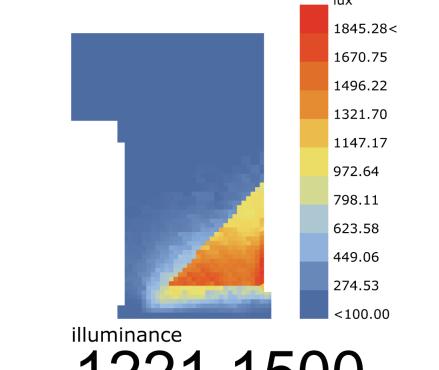
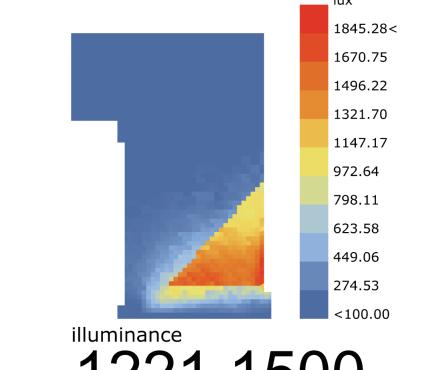
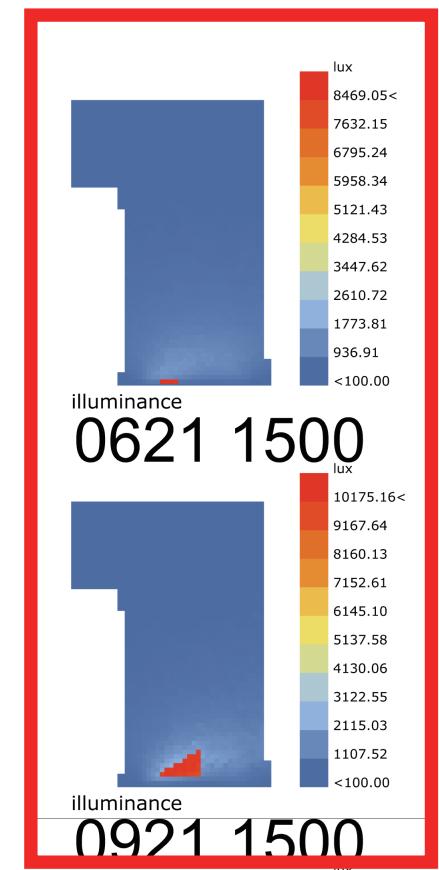
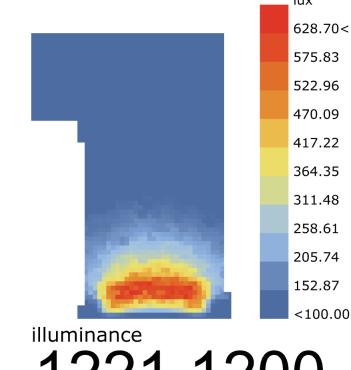
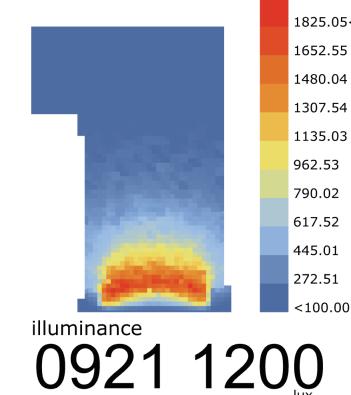
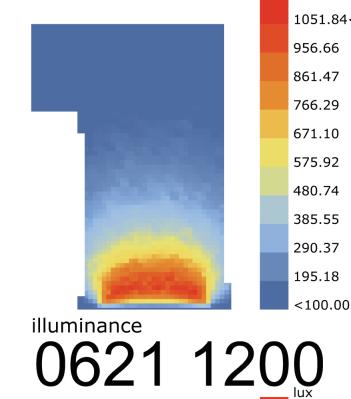
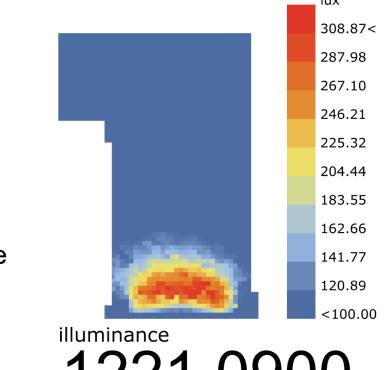
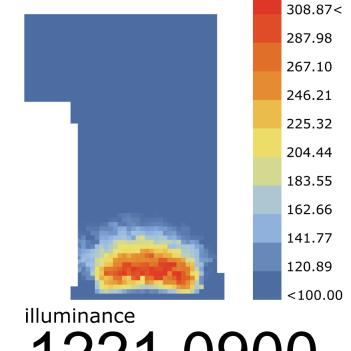
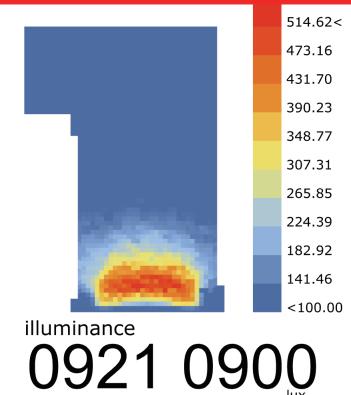
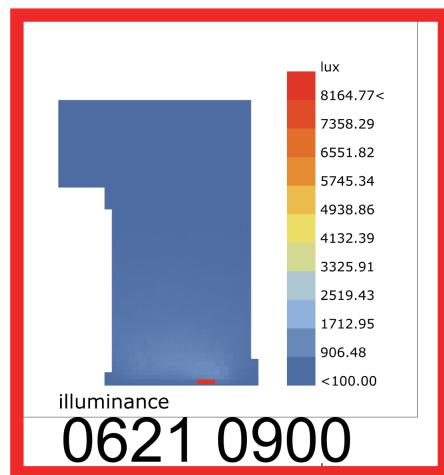
Over 2000lux



Horizontal Suspension
of 900



Horizontal Suspension of 1200



1200 Horizontal

#reduced the glare(2000+lux) by 50%

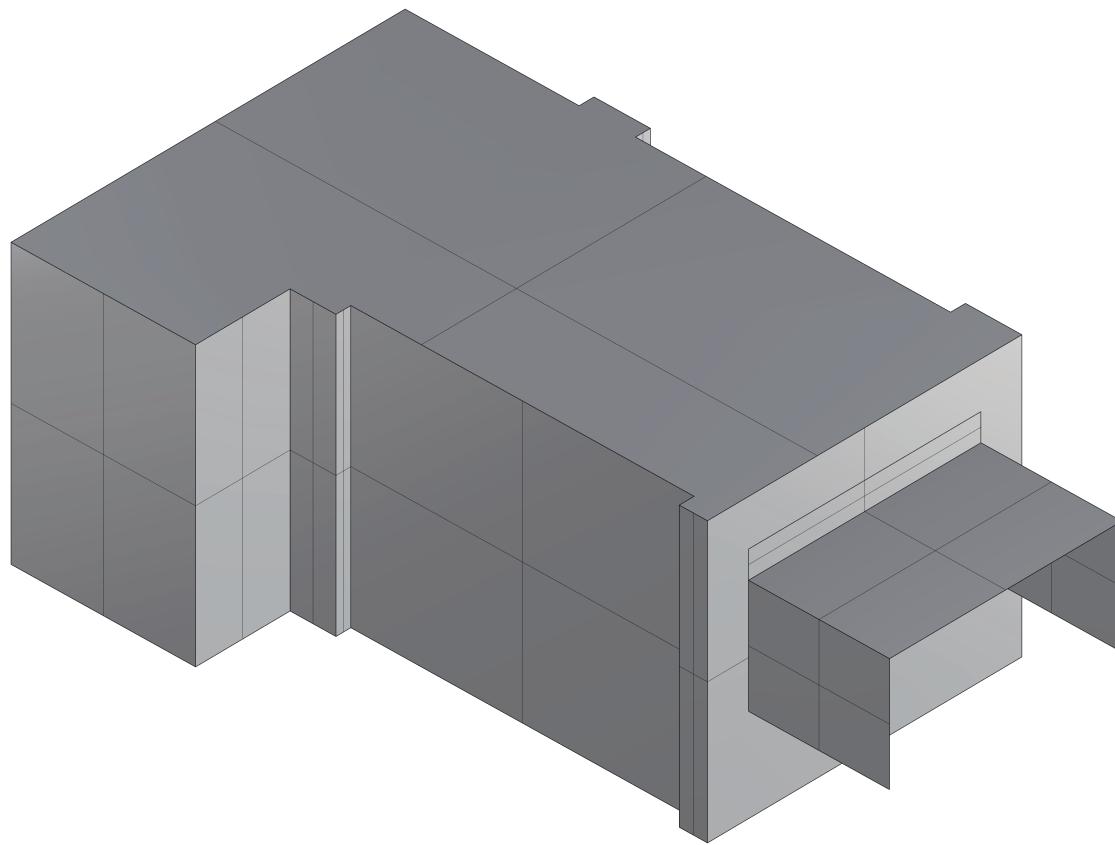
#south glare is efficiently blocked

#interior space daylight is not adequate

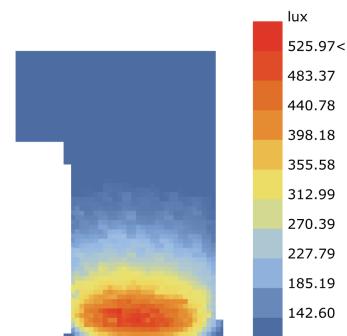
#vertical shade may be used



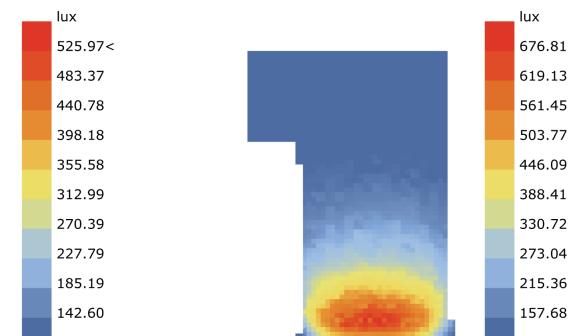
Over 2000lux



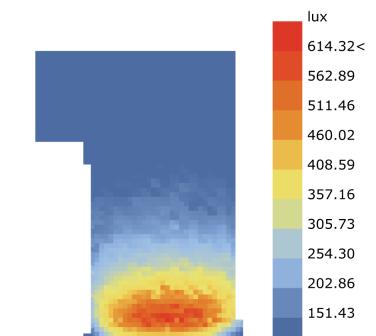
1.2m suspend with vertical shade



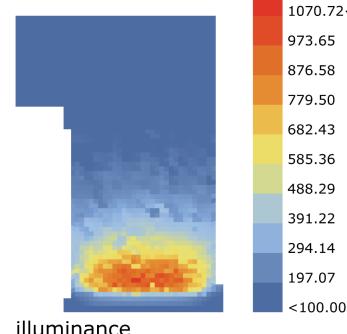
illuminance
0621 0900



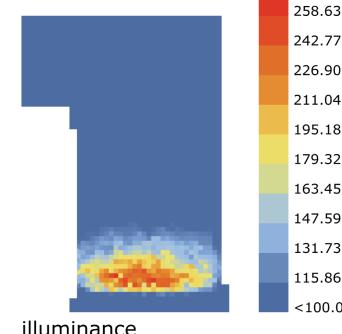
illuminance
0621 1200



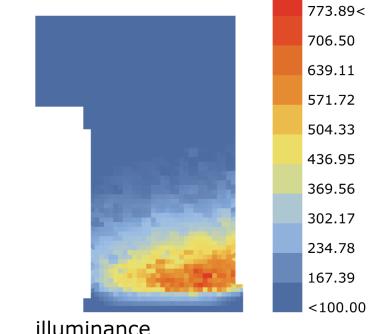
illuminance
0621 1500



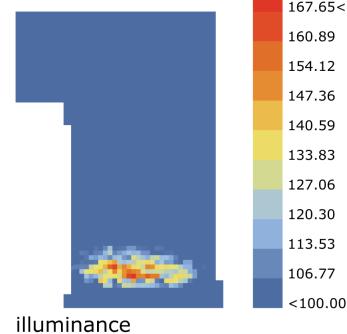
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0921 0900



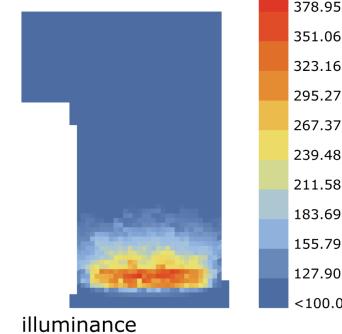
illuminance
0921 1200



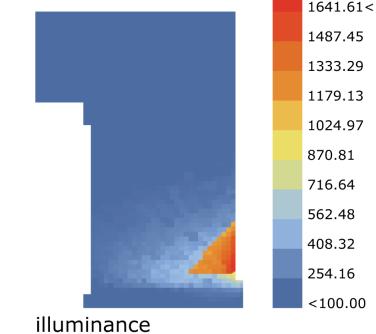
illuminance
0921 1500



illuminance
1221 0900



illuminance
1221 1200



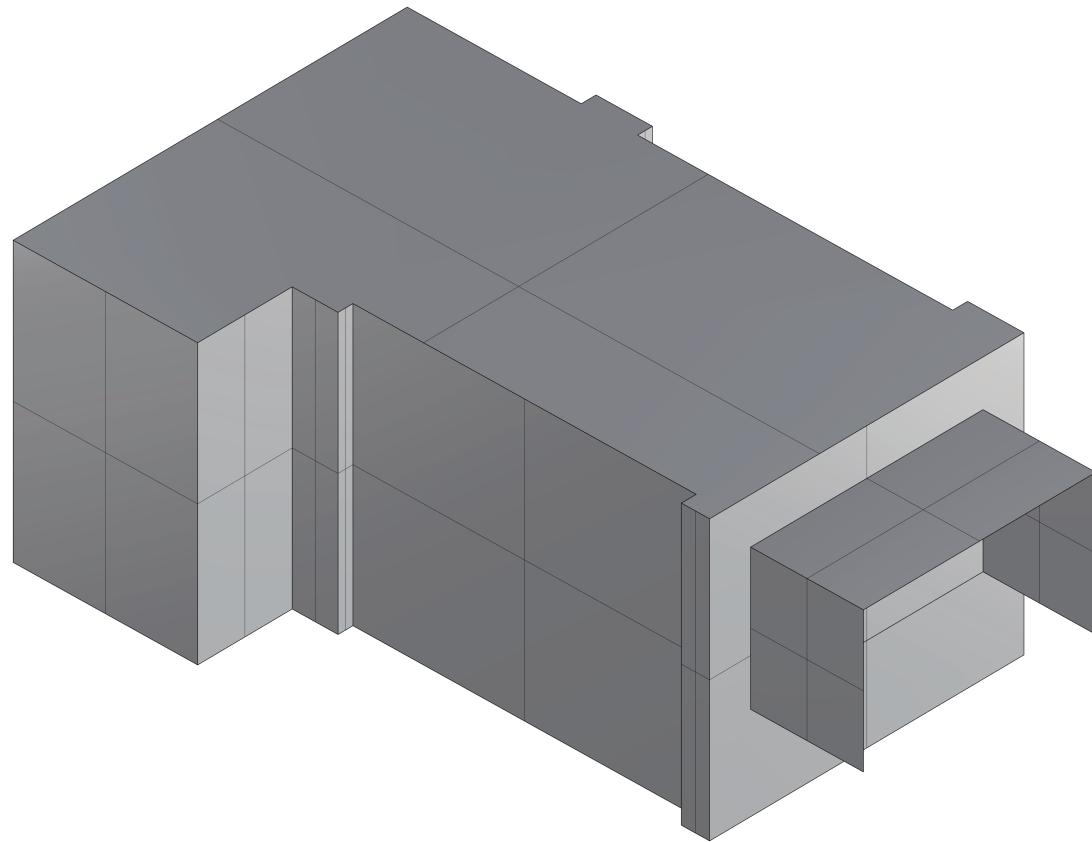
illuminance
1221 1500

#reduced all glare(2000+lux)

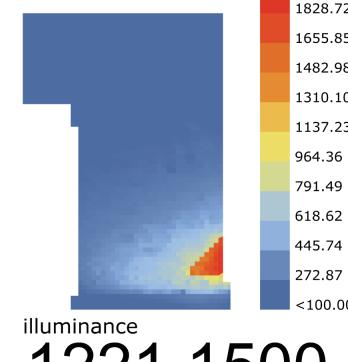
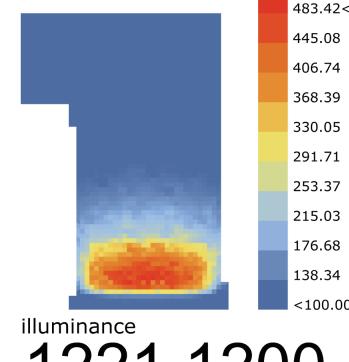
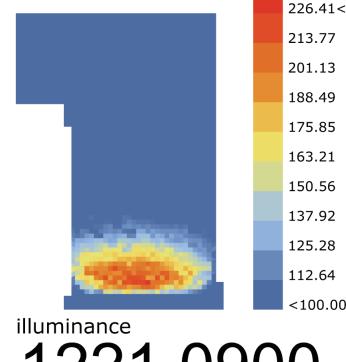
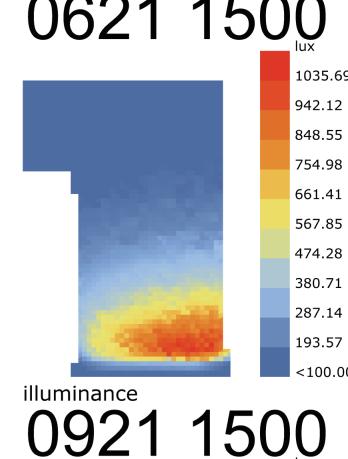
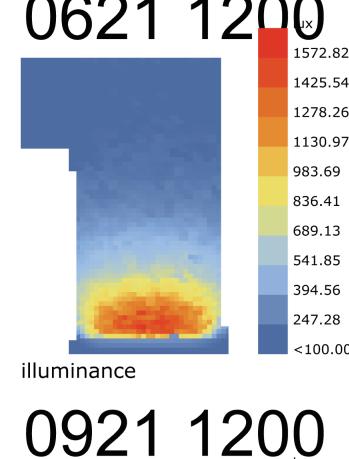
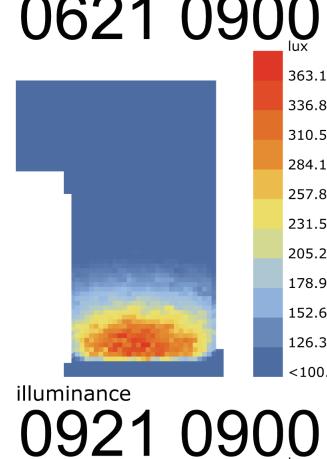
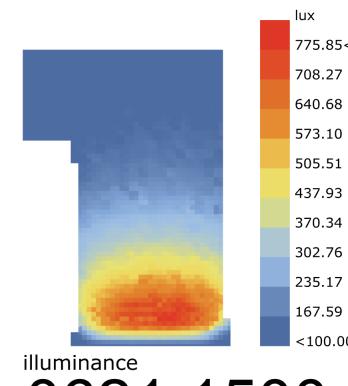
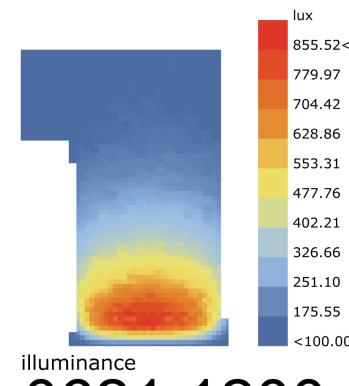
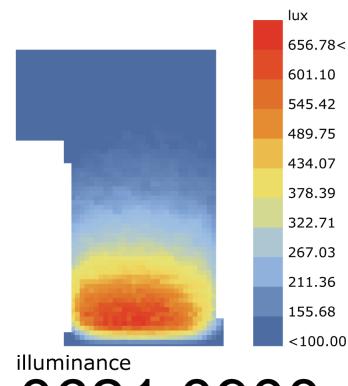
#west & east glare is efficiently blocked

#interior space daylight is not adequate

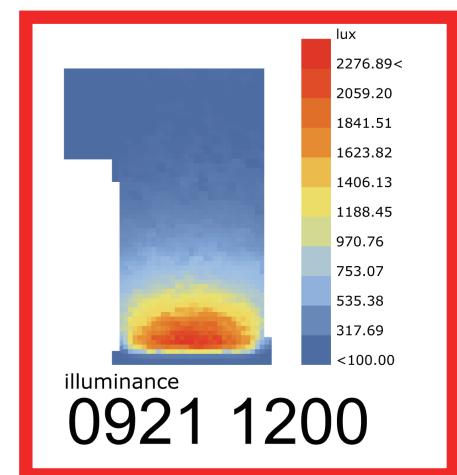
#window size may be enlarged



1.2m suspend with vertical shade window height + 0.4m



1.2*1.5 suspend with vertical shade window height +0.7m



#window size could be increased to let more daylight in