### Thermal and Visual Comfort Maximization of an Unconditioned **Space**

### **PROJECT GOAL**

Maximize hours or percent of comfort.

#### **OBJECTIVES**

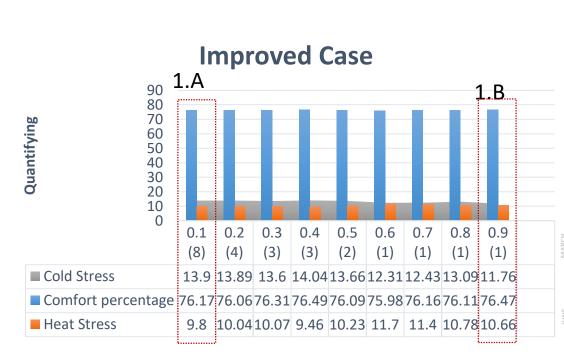
Analyze the climate

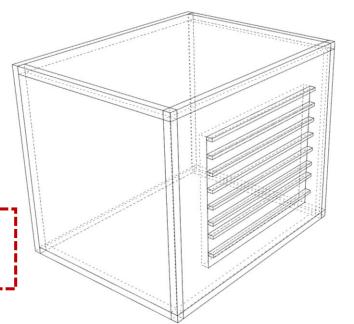
Analyze Performance of Base Case

**Devising Design Strategies** 

Evaluating the performance of an improved design proposal

Design Iterations	Comfo rt %	sDA	March (DGP)			June (DGP)			December (DGP)		
			9A. M	12 Noo n	3 P.M	9A. M	12 Noo n	3 P.M	9A. M	12 Noo n	3 P.M
Base Design	15.58	65.96	0.35	0.29	0.28	0.34	0.3	0.29	0.27	0.28	0.26
1.A	76.17	87.14	0.35	0.32	0.26	0.3	0.3	0.27	1.0	0.34	0.26
1.B	76.47	90	0.36	0.32	0.27	0.31	0.3	0.27	1.0	0.36	0.27
2.A	78.8	72.86	0.28	0.27	0.24	0.25	0.25	0.24	1.0	0.28	0.24
2.B	79.1	67.14	0.27	0.26	0.24	0.25	0.25	0.24	0.29	0.28	0.24



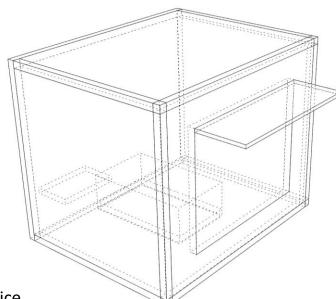


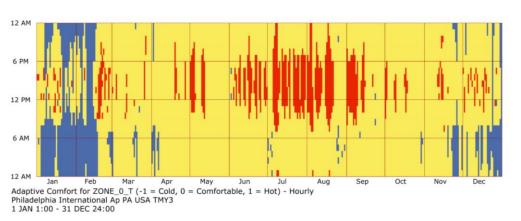
# Improved Case 1

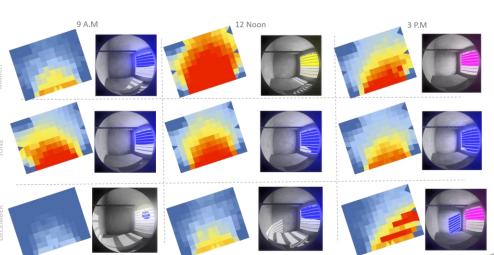
- South Glazing 40%
- Orientation 20 degree
- Longer face has the opening
- 8 nos. 0.1mt thickness of shading device

# **Improved Case 2**

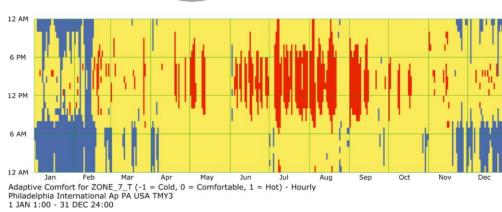
- South Glazing 40%
- Orientation 20 degree
- Longer face has the opening
- 8 nos. 0.1mt thickness of shading device







Spatial Daylight Autonomy (sDA) - 87.14



Spatial Daylight Autonomy (sDA) – 90

