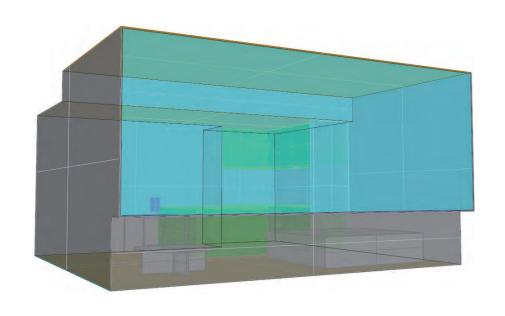
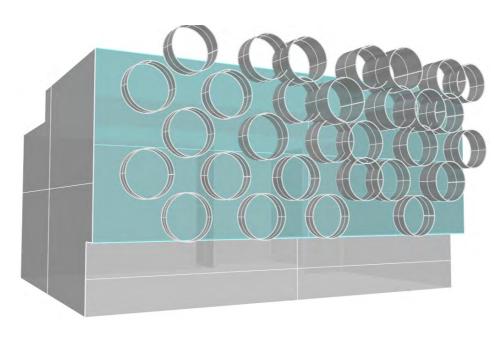
Cylinders Shading _Integrated_Daylight_and_Energy_simulation

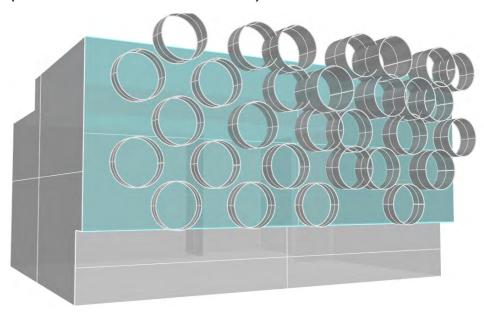
Base case



Shading design case1



Shading design case with (winter infiltration schedule)



Comfortable based on PMV	35.4%
Comfortable based on Adaptive Comfort	60.5%
Comfortable based on psychroChart	61.0%
Spatial Daylight Autonomy	94.9%

Comfortable based on PMV	37.8%
Comfortable based on Adaptive Comfort	63.1%
Comfortable based on psychroChart	66.2%
Spatial Daylight Autonomy	80.9%

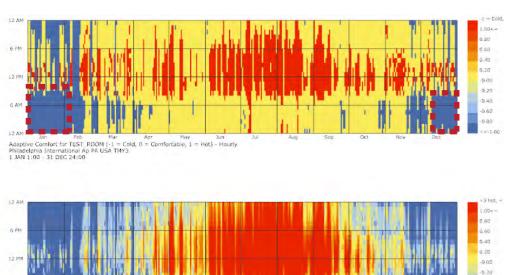
Comfortable based on PMV	38.1%
Comfortable based on Adaptive Comfort	67.7%
Comfortable based on psychroChart	69.0%
Spatial Daylight Autonomy	80.9%

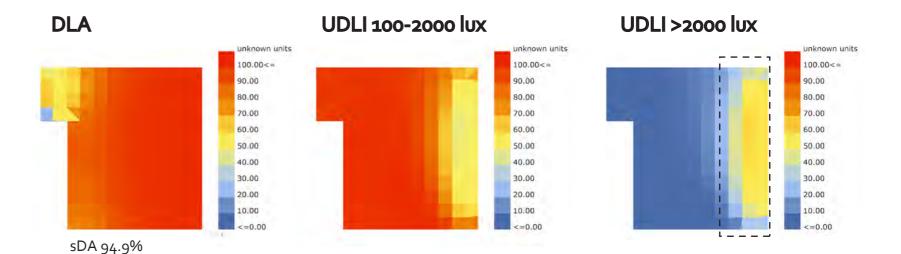
natural ventilation: minIndoorTempForNatVent 24 maxIndoorTempForNatVent 28

psychrochart : windspeed 0.25 0.5 and 1 metabolicrate 1 0.9 0.8 and 0.6 + infiltration schedule in Jan and Dec infiltration rate 0.002 m³/sm²

PMV comfort and Adaptive Comfort

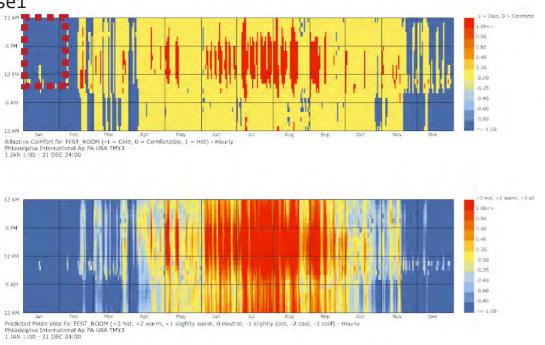
Base case

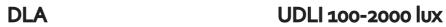


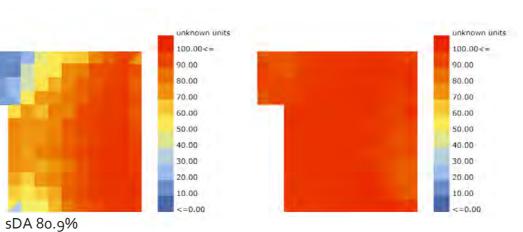


PMV comfort and Adaptive Comfort

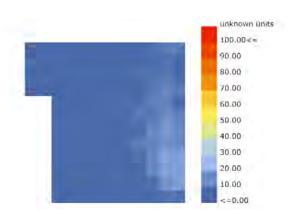
Design case1





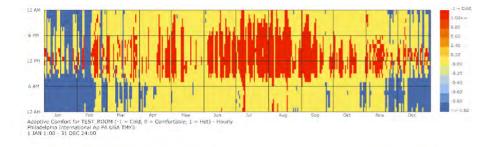


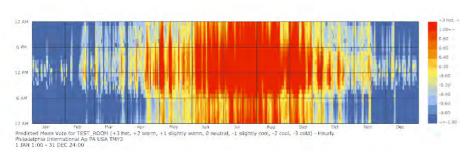
UDLI >2000 lux



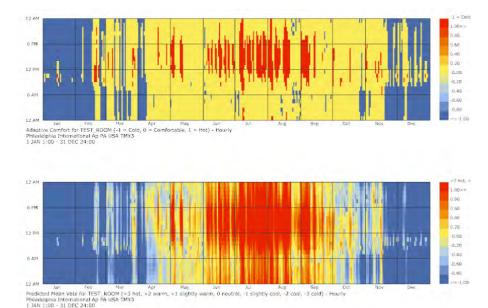
PMV comfort and Adaptive Comfort

Base case

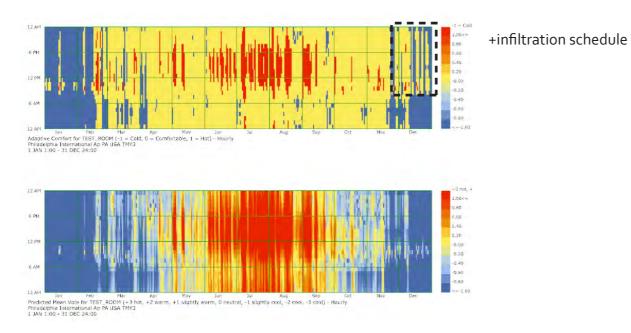




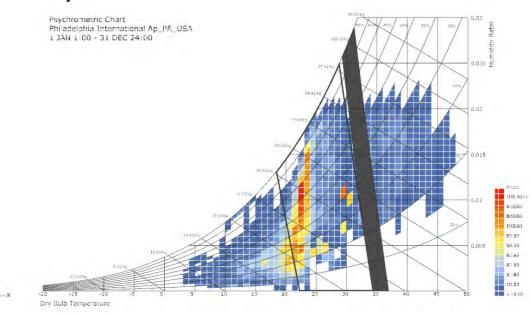
Design case1

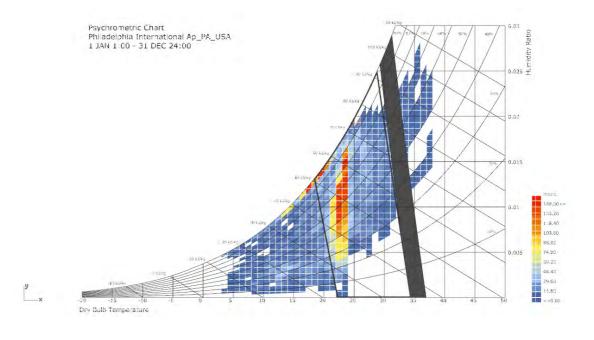


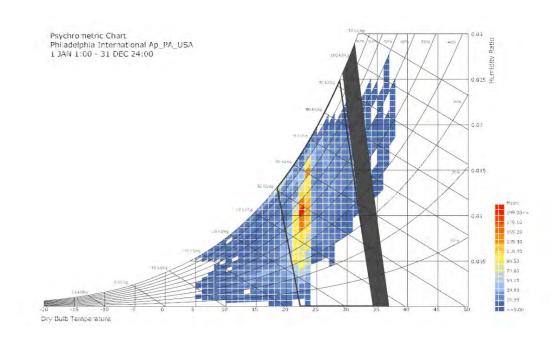
Design case2



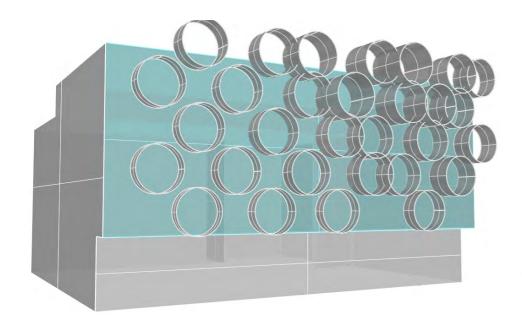
Psychrometric Chart





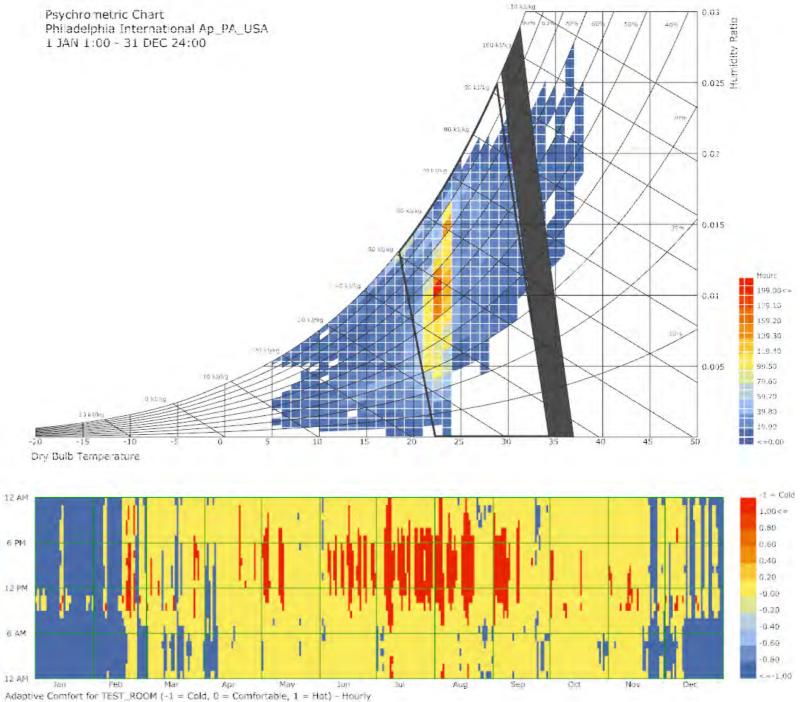


Shading design case with (winter infiltration schedule)



Comfortable based on PMV	38.1%
Comfortable based on Adaptive Comfort	67.7%
Comfortable based on psychroChart	69.0%
Spatial Daylight Autonomy	80.9%

lighting and infiltration schedule in Jan and Dec Infiltration rate 0.002 m³/sm²



Adaptive Comfort for TEST_ROOM (-1 = Cold, 0 = Comfortable, 1 = Hot) - Hourly Philadelphia International Ap PA USA TMY3 1 JAN 1:00 - 31 DEC 24:00

