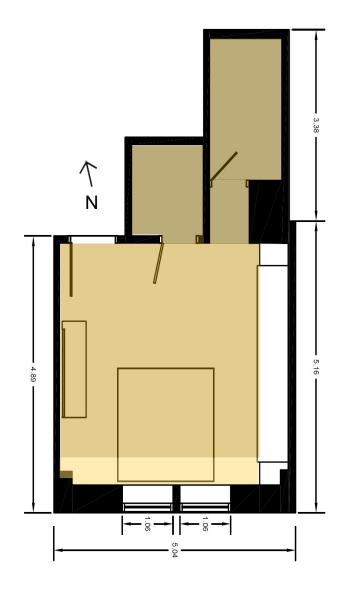


#### Intuitive Prediction

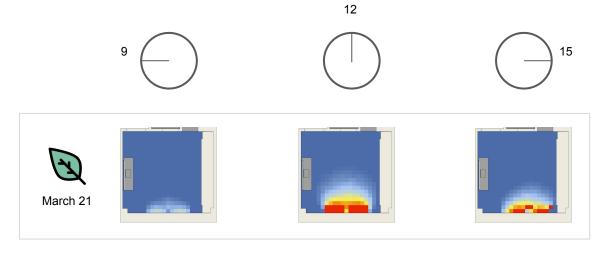
This lighting diagram comes from an intuitive analysis: spaces where you can read a book in proper daylight. The apartment is small, but the windows are small as well.

The only place that receives proper daylight seems to be right next to the windows. The workstation receives little light, but screen lighting compensates (and there is little glare during occupation hours).

- Proper Daylight
- Not-so-proper Daylight
- Very poor Daylight





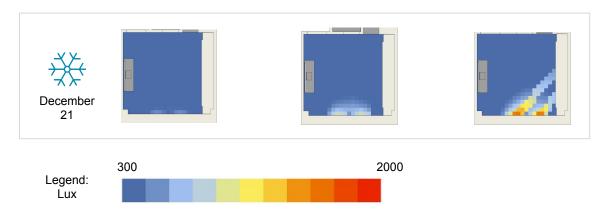


Current Glazing No Shading

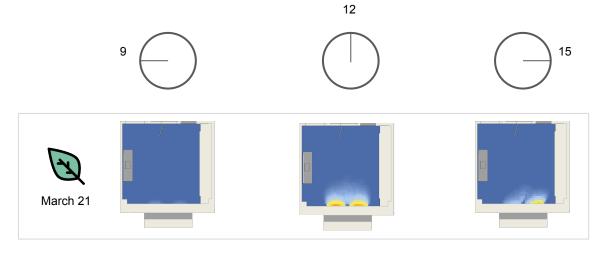
A grid-based analysis was done for the critical points of the year on the existing space.

Most of the room surface seems to receive either too little or too much daylight throughout the year. Worst cases are December 21 morning (too little daylight) and March 21 noon (too much daylight).





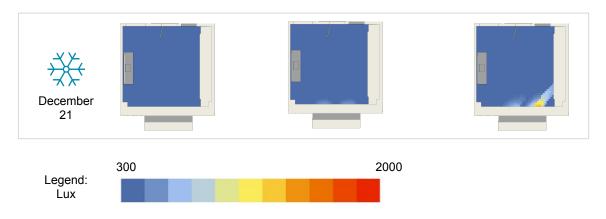




Current Glazing 80cm Box Shading

A 80cm shading was added to the exterior wall to both cover the windows and serve as a light shelf (bottom surface) to bounce light inwards. The result is mainly poor daylight.

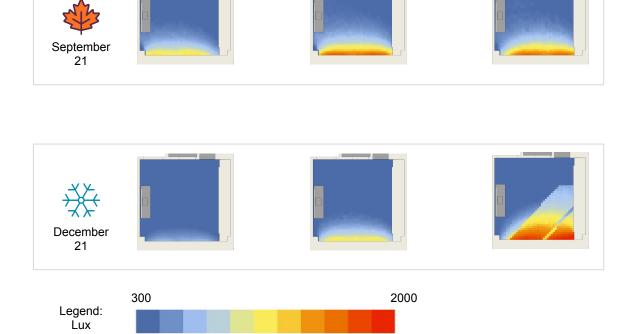






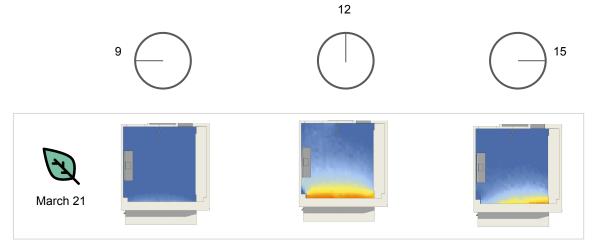
Full Glazing No Shading

To increase incoming daylight, glazed surface area was maximized.. This lets much more light in, but still needs some protection.



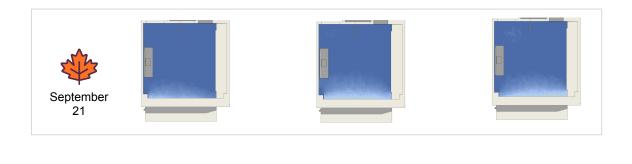
12

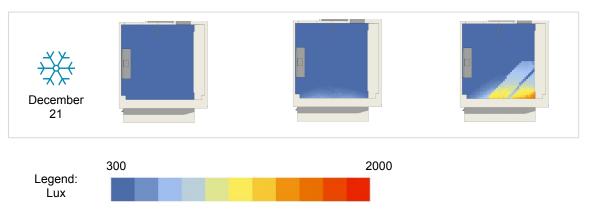


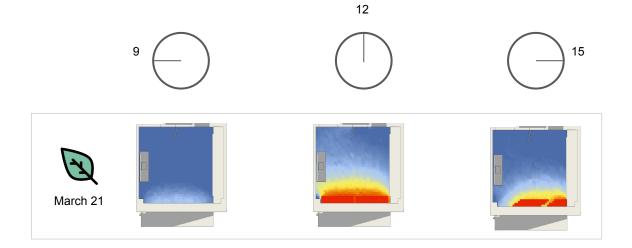


Full Glazing 80cm Box Shading

A similar box type shading was added to both provide shading and a surface to bounce light inwards. Glare was greatly reduced, but there is still uneven dispersion.

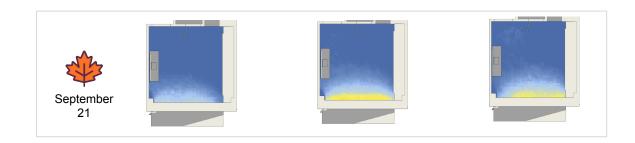


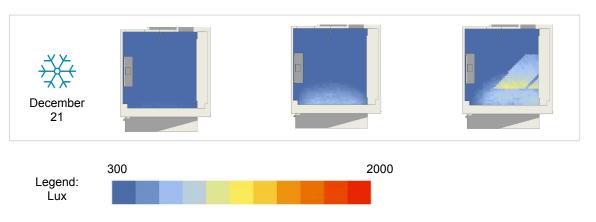




Full Glazing 80cm Box Shading (improved shelf)

This version included an improved shelf for more even distribution of daylight.

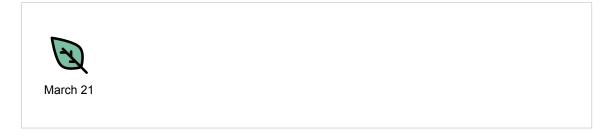








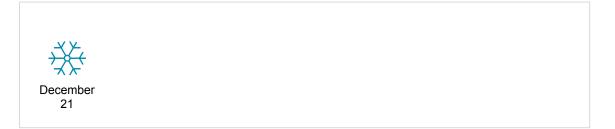




# Glare Analysis Current Glazing No Shading

Error - Evalglare.exe

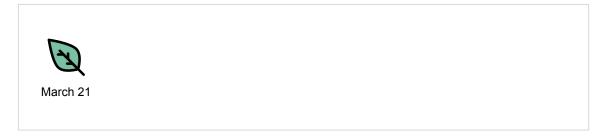






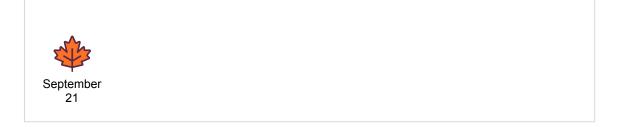






Glare Analysis
Full Glazing
80cm Box Shading (improved shelf)

Error - Evalglare.exe





December 21

### Annual Analysis

Current Glazing No Shading

Full Glazing 80cm Box Shading (improved shelf)

