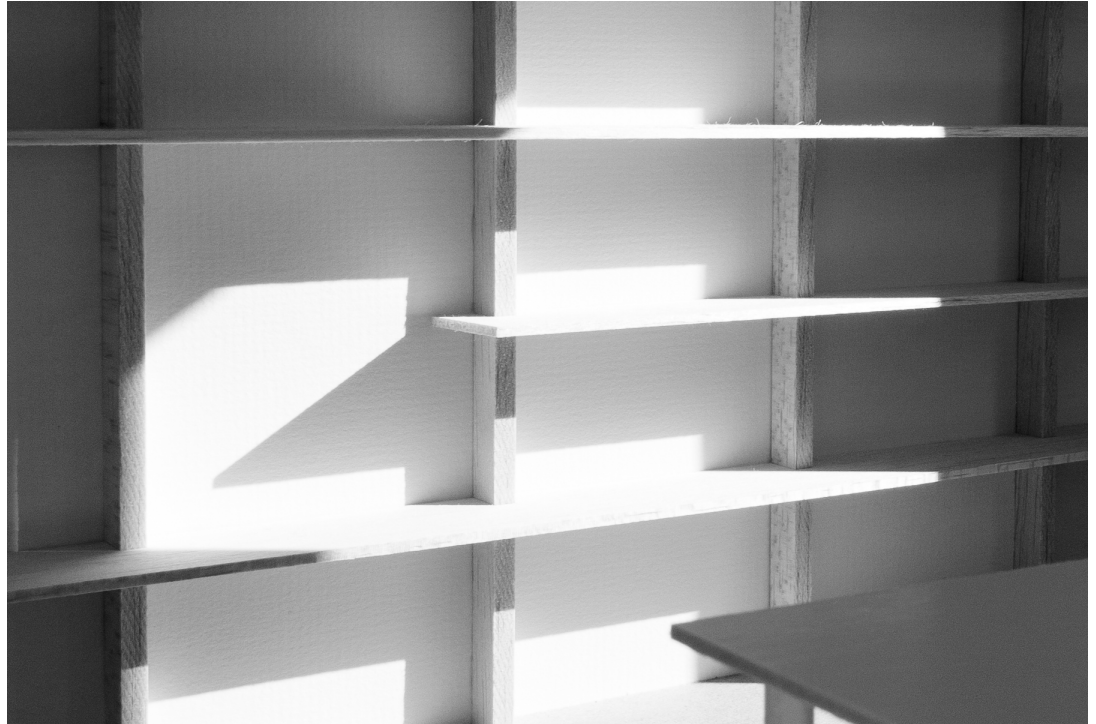


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## LET THE LIGHT IN

- bringing back the attention to the qualities of daylight



### MATTER SPACE STRUCTURE

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This thesis is an investigation of the spatial qualities of daylight. It investigates how an increased knowledge can influence how we as architects choose to work with daylight, with the aim to create qualitative daylight conditions for human activities. Current Swedish daylight regulations are focusing on quantitative measurements when assessing luminance in buildings. While this is important to ensure good light conditions, this thesis aims to add other aspects to the discussion such as a focus on the program of the space, atmosphere and distribution of light.

To understand qualities and characteristics of daylight it is observed through various window configurations and in various weather conditions. This is made possible through a physical scale model where the user controls how light enters. The model provides the possibility to experience the space from inside. By analysing and comparing results knowledge is built in qualities of daylight. To apply light to specific activities and get a direction in the investigations the program workspace is part of the research.

The outcome is a design of a workspace and an image library of observed light

qualities to use in the design process. It showcases possibilities to create atmosphere and support specific use of space and human activities. It includes various weather conditions, times of day and cardinal directions. The library including the design can be used to evaluate what would be appropriate in architectural projects and what would not be.

To fully evaluate the potential of daylight the current daylight regulations need to be reviewed. This thesis shows the need for new methods to evaluate a building design which should include all qualitative daylight aspects important for the specific program. As for the architectural design process it is recommended that daylight is studied in physical scale models parallel with design of facade and window placement.

Keywords : qualitative daylight, nordic context, daylight regulations, atmosphere, program specific