

# Sustainable Living

Strategic focus on daylight, indoor climate and energy for sustainable living in buildings.

Forbedrer  
**isoleringen**  
med op til  
**34%**

[Køb VELUX energigardiner](#)

**Vær din egen arkitekt**

[Prøv VELUX ovenlysdesigner](#)

**Udskift dine ovenlysvinduer**

[Prøv udskiftningsguiden](#)

**Find nærmeste**  
forhandler af  
VELUX produkter,  
tømrermester  
eller VVS-installatør

[Start søgning nu](#)

**Prisliste**

**Find priser**  
Se prisliste  
for VELUX  
ovenlysvinduer,  
solafskærmning  
og service

[Gå til prislisen](#)

**Produkt-**  
**advarsel**

**Risiko for  
spontant brud**  
i en bestemt type  
små ruder frem-  
stillet fra 1997 til  
2003

[Check her og registrér](#)

**Gardinshop**  
Køb originale  
VELUX gardiner og  
solafskærmnings-  
produkter online

[VELUX online gardinshop](#)

## Arkitektforum



- Inspiration
- VELUX Daylight Visualizer
- Tekniske tegninger - 2D
- VELUX CAD - 2D/3D
- BIM-objekter - 3D
- Energiberegning
- Digitalt Produktkatalog
- Rådgivning fra VELUX



### Inspiration

Se vores koncepthuse **SOLTAG** og **Atika** eller find inspiration i det seneste nummer af **magasinet Daylight & Architecture**.

> [Hent inspiration her](#)

### Links til eksterne sider

- > [Digitalt Produktkatalog](#)
- > [activehouse.info](#)

### Beregnere

Prøv at simulere dagslys i forskellige rum med vores Daylight Visualizer eller bliv klogere på enfamilieshuset i forhold til energi, ventilation og indeklima med vores nye Energy and Indoor Climate Visualizer:

- > [VELUX Daylight Visualizer](#)
- > [VELUX Energy and Indoor Climate Visualizer](#)
- Andre beregnere**
- > [VELUX U-værdi-beregner](#)
- > [VELUX solvarmeberegner](#)
- > [VELUX lystunnelberegner](#)

### Rådgivning fra VELUX

Uanset om du ønsker hjælp til større byggeprojekter, eller blot har spørgsmål til VELUX produkter og indbygning kan vi hjælpe dig.

> [Læs om rådgivning her](#)

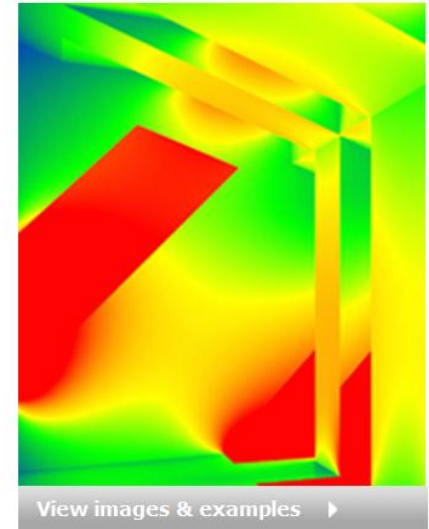
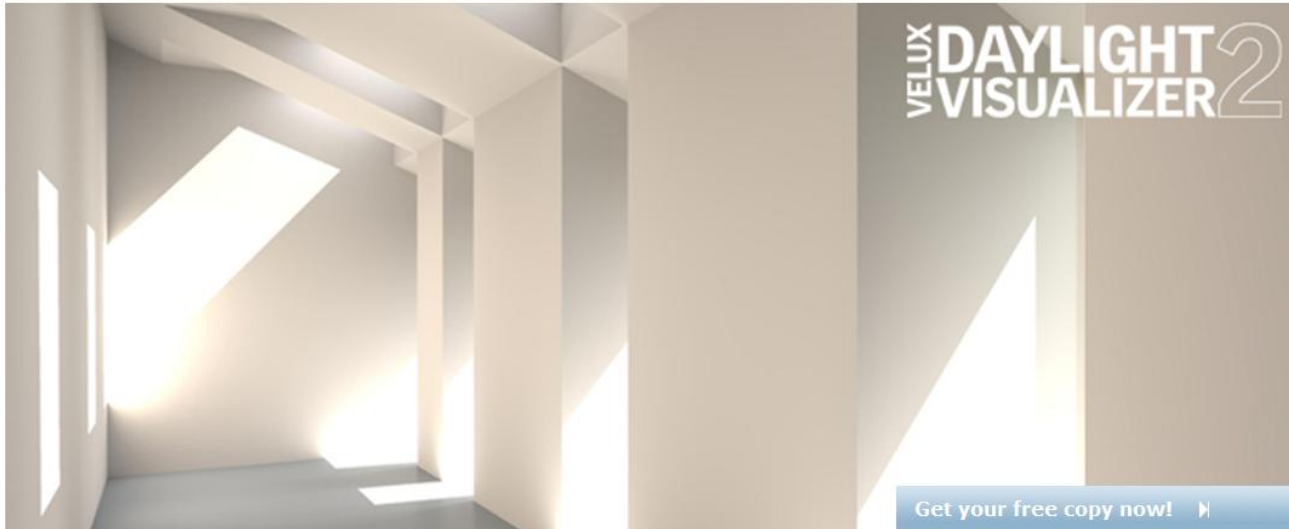
### Andre relevante links

- > [Gå til størrelsesdiagram](#)
- > [Tekniske tegninger](#)
- > [VELUX CAD](#)
- > [Byggeslovgivning](#)
- > [Konstruktionsmæssige muligheder](#)
- > [Mindste afstand til væksel](#)
- > [Redningsåbninger](#)

### Cases med VELUX løsninger

Her har vi samlet en række cases indenfor forskellige byggerityper, hvor der er lavet spændende løsninger med VELUX produkter. Teksten til de viste cases er på engelsk.

> [Gå til cases](#)



**Tutorials**  
Learn how to use Daylight Visualizer with these animated tutorials

[Go to the tutorials](#) ▶



**FAQ**  
Section with frequently asked questions about the Daylight Visualizer

[Go to the FAQ page](#) ▶



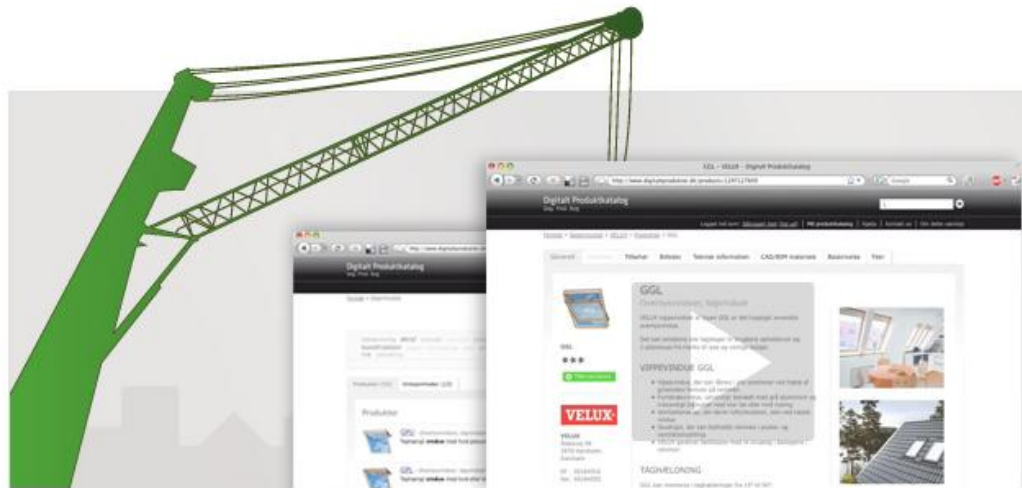
**CIE 171:2006**  
Daylight Visualizer 2 calculations have been validated against CIE test cases...

[Full story + report](#) ▶



**New release!**  
Daylight Visualizer version 2.5.9 is now available for download. Visit the...

[Full story](#) ▶



FLERE FØRENDE PRODUCENTER HAR  
ALLEREDE SET FORDELENE...



Læs om projektet →

PRODUKTET UDVIKLER SIG LØBENDE  
MED NYE FUNKTIONER



Tilmeld nyhedsbrev →

befæstigelse  
belægning  
byggeplads  
glas  
installation  
overflade  
system  
udvendig  
værktøj

beklædning  
beslag  
drift  
indretning  
konstruktion  
plade  
tag  
varme

beton  
forankring  
indvendig  
metal  
sten  
stål  
tilbehør  
træ  
væg  
vindue

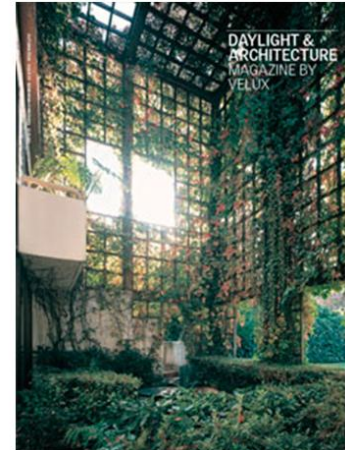
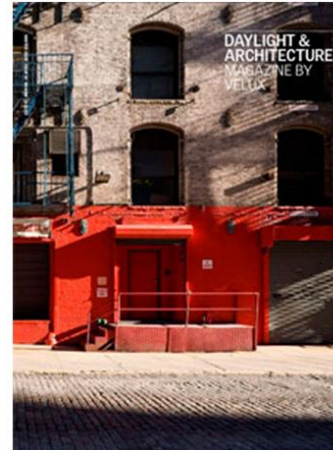
**Følg med**  
Seneste nyt  
Nyhedsbrev  
Blog

**Hjælp**  
Demo  
Kom godt i gang  
FAQ  
Stjernesystemet

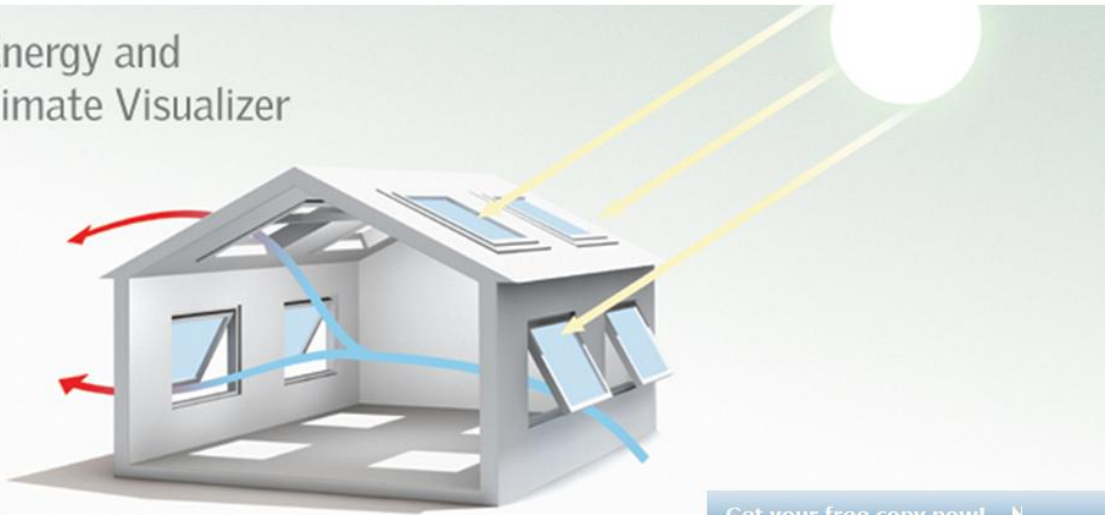
**Om os**  
Kontakt  
Om dette værktøj  
Udvikling  
Vilkår for brug

**Producent**  
Introduktion  
Demo  
Udtalelser  
Bliv repræsenteret

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Log ind  
Glem password?



## VELUX Energy and Indoor Climate Visualizer



Dynamic window simulation with solar shading and natural ventilation

[Get your free copy now!](#)

[About EIC Visualizer](#)



**User guides**  
Learn how to use the EIC Visualizer functionalities with these user guides



**Examples**  
This section contains VELUX Energy and Indoor Climate Visualizer examples...



**FAQ**  
Section with frequently asked questions about the EIC Visualizer



**New release!**  
EIC Visualizer version 2.0 is now available for download.

[Go to the user guides](#)

[See examples](#)

[Go to the FAQ page](#)

[Full story](#)

*Bringing light to life.*



## Search

Search by keywords

Search

## Newly added

### Research papers

- + Daylight for Health and Efficiency - A new career for an old friend
- + Design Guidelines for Glare-free Daylit Work Environments
- + Circadian Effects of Daylighting in a Residential Environment
- + Climate-Based Daylight Analysis for Residential Buildings
- + Assessment of daylight quality in simple rooms

### Links

- + Efficient Windows Collaborativ...
- + The SoDa Service for Knowledge...
- + VELUX Daylight Visualizer 2...
- + Sunrise and sunset calculator...
- + Weather Data - Energy Plus Sim...

## 4th VELUX Daylight Symposium in Lausanne, 4-5 May 2011

The 4th VELUX Daylight Symposium took place on 4 and 5 May 2011 at the Rolex Learning Center at EPFL in Lausanne, Switzerland...

[+ Read more](#)

## Climate-Based Daylight Analysis for Residential Buildings

Impact of various window configurations, external obstructions, orientations and location on useful daylight illuminance

[+ Read more](#)



# International VELUX Award 2012 for students of architecture

Register for  
2012 Award  
now

On this site

Take me to ▾



Projects

See all 2010 projects ▾



**Registration is open**  
Register before 1 March to participate in 2012 Award

Registration ▶



**The light of La Rochelle**  
Creating a film together

About the workshop ▶



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View films and interviews

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*Bringing light to life*



**SPECIFICATIONS**

Active House Specifications - Now available

The first version of the **Active House Specifications** will be launched at the **Active House Symposium**.

**LATEST CASES**



**CarbonLight Homes**  
KETTERING, UNITED KINGDOM (GREAT BRITAIN)  
AUGUST 2011



**Casa +**  
PALERMO, ITALY  
UNDER CONSTRUCTION

**The Green House**

ALNWICK, UNITED KINGDOM (GREAT BRITAIN)  
UNDER CONSTRUCTION

**NEWS & KNOWLEDGE**

**Active House conference will be organised in Hungary for the first time**

Thanks to the international Active House initiatives the first Active House conference in Hungary will be held with the participation of well-known representatives of the industry, such as Zsolt...

29. September 2011 | 0 | News & Technology

**Normann Sloth**

**Holistic Evaluation of Sustainable Buildings through a Symbiosis of Quantitative and Qualitative Assessment Methods**

Paper for the 27th International conference on Passive and Low Energy Architecture

**ALLIANCE PARTNERS**



> See all Alliance Partners

**MAJOR EVENT**

**UIA 2011 TOKYO: The 24th World Congress of Architecture**

# Model Home 2020



“ One experiment is better than a thousand expert views ”

Villum Kann Rasmussen

## Model Home 2020



About Model Home 2020

Home for Life

Green Lighthouse

Sunlighthouse

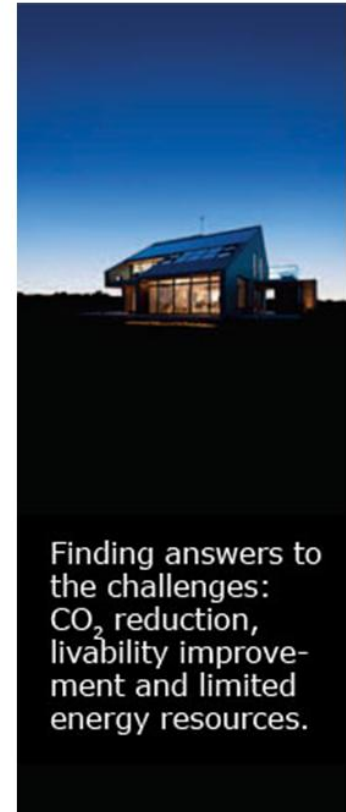
LichtAktiv Haus

CarbonLight Homes

Maison Air et Lumière

Press

Newsletter



Here are the 6 experimental projects of Model Home 2020

Click on the houses to view each project.

# DAYLIGHT VISUALIZER 2



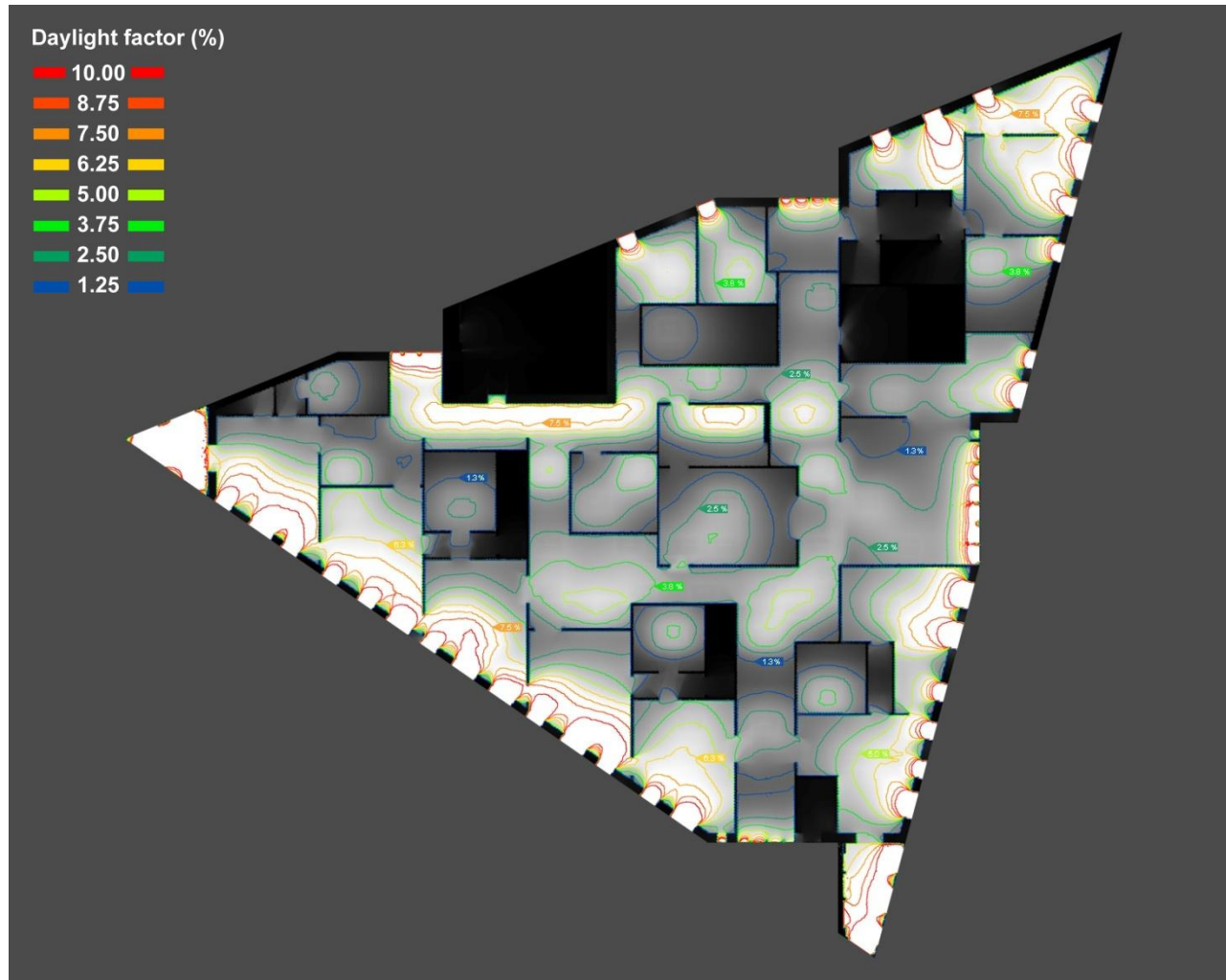
## ► Solhuset (Kindergarten)



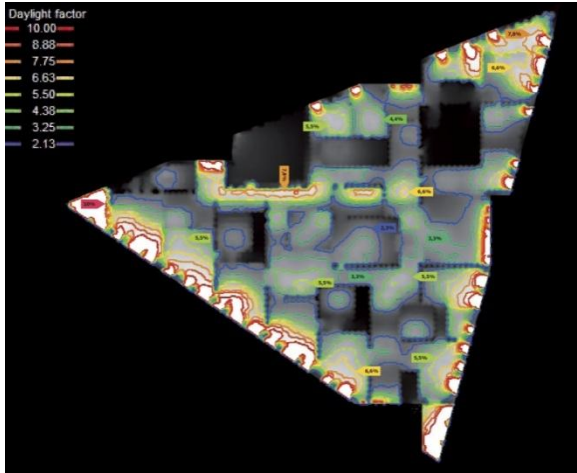
# DAYLIGHT VISUALIZER 2



## ► Solhuset (Kindergarten)



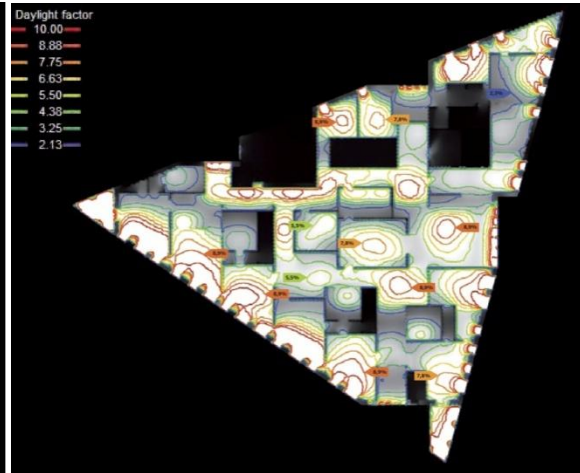
## ► Solhuset (Kindergarten)



Initial design

The daylight conditions in the initial design are evaluated using the daylight factor (DF) performance indicator.

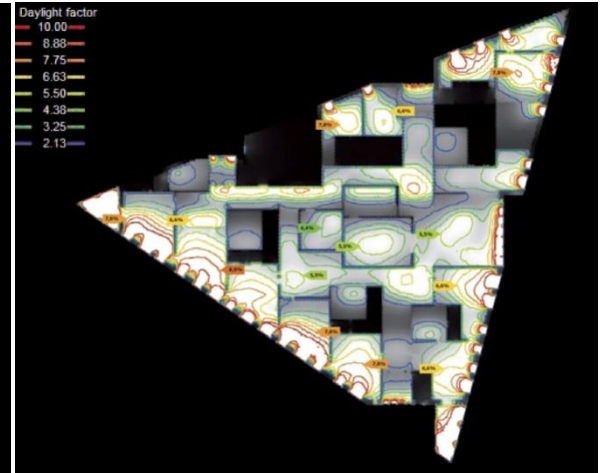
The simulation shows the areas of the building where the light levels are not sufficient, such as the gymnastic room located in the central part and the dining room facing east (e.g. 5% DF instead of 2% DF). By contrast, it shows high light levels in certain areas which could be used better if re-distributed.



Revised design

A revised window layout is proposed based on the findings made in the first evaluation, aiming to reach adequate light levels in the central parts of the building. This new model also included angle openings of the window linings.

The light levels obtained in the central part of the building and the dining room are much higher than in the previous model, ensuring that all the activity rooms have sufficient daylight.



Final design

According to the architect, the number of windows and size of the window linings opening has been optimized in the final design to promote a more rational solution in terms of ceiling construction, while keeping a generous and good distribution of daylight inside the rooms.

The daylight factor simulation of the final design shows a significant improvement over the results obtained with the initial design.

# DAYLIGHT VISUALIZER 2

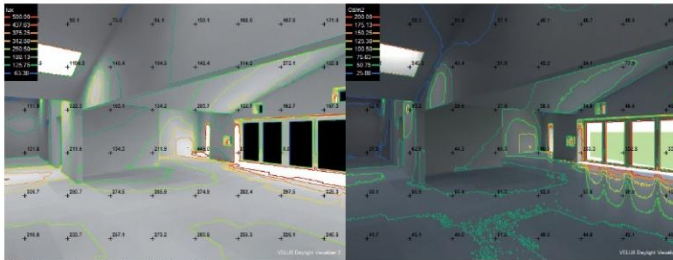


## ► Solhuset (Kindergarten)

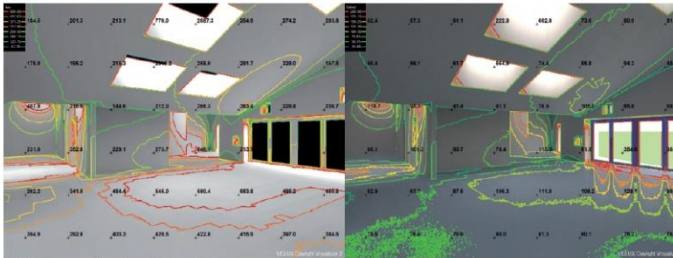
FÆLLESRUM  
Dagslydsdato: juni d.21

Siden model 1 er der tilføjet et yderligere vindue i dette rum, hvilket giver et forbedret dagslysniveau.

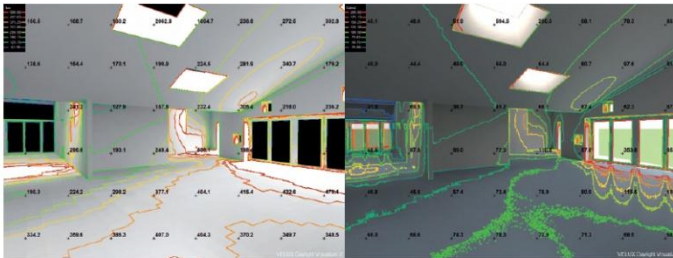
I den seneste model (nederst) er vinduerne rokeret for dels at skabe en bedre ventilation og dels en mere jævn fordeling af lyset i rummet.



Model 1 - venstre: illuminans / højre: luminans



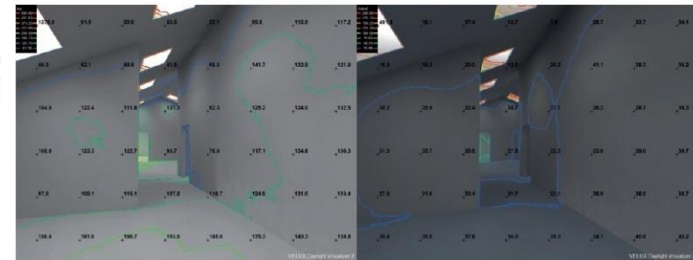
Model 2 - venstre: illuminans / højre: luminans



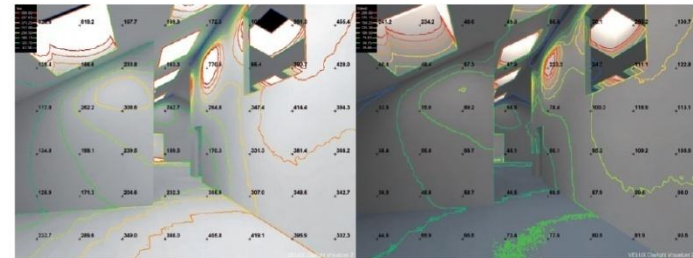
Model 3 - venstre: illuminans / højre: luminans

PLADSER VED GR.RUM 3/4 OG 5/6/7  
Dagslydsdato: marts d.21

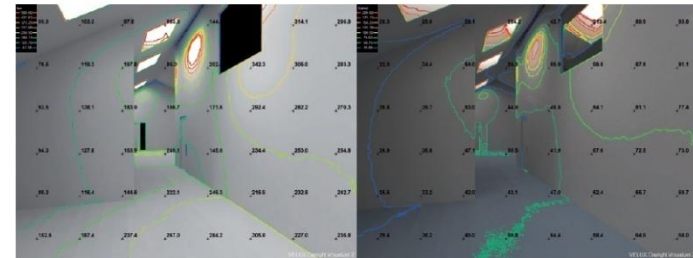
Udviklingen de tre modeller imellem viser dels det generelt højere dagslysniveau og dels en yderligere variation i lysfordelingen mellem plads og korridor.



Model 1 - venstre: illuminans / højre: luminans



Model 2 - venstre: illuminans / højre: luminans



Model 3 - venstre: illuminans / højre: luminans

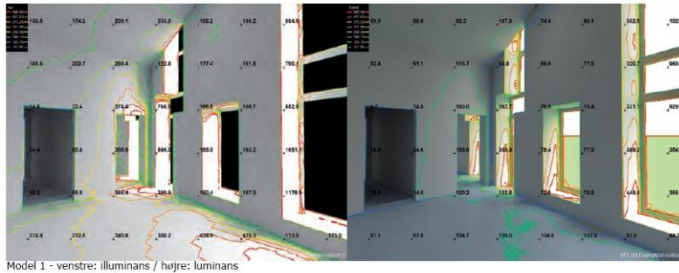


## ► Solhuset (Kindergarten)

GRUPPERUM 6  
Dagslydsdato: marts d.21

Der er ikke store variationer mellem udgangspunktet i Model 1 og de to efterfølgende modeller andet end at i Model 2 og 3 er et nordvendt vindue erstattet med et sydvendt af hensyn til energibalancen.

Den centrale forskel de tre modeller imellem er derfor lysningsstørrelserne og deres betydning på lysfordelingen.

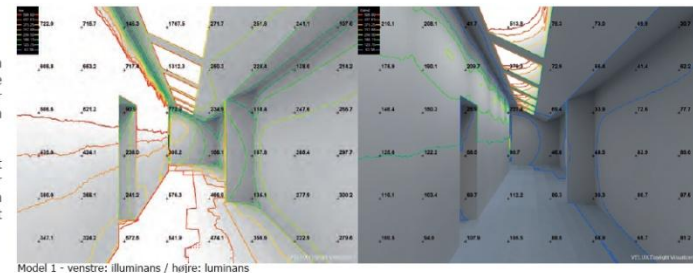


Model 1 - venstre: illuminans / højre: luminans

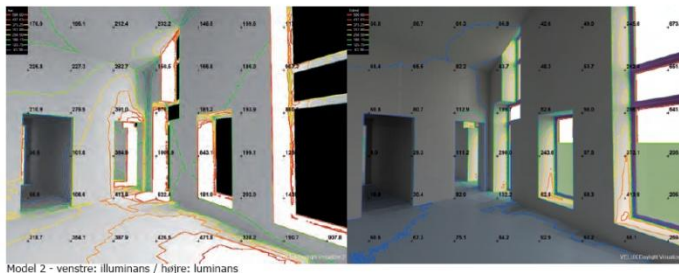
KORRIDOR LANGS LIGGEHAL  
Dagslydsdato: juni d.21

Bearbejdningen af lysindtag i korridoren er rettet mod fordelte loftvinduer mindre jævnt over strækningen. Desuden er et par af loft vinduerne fjernet siden udgangspunktet i Model 1.

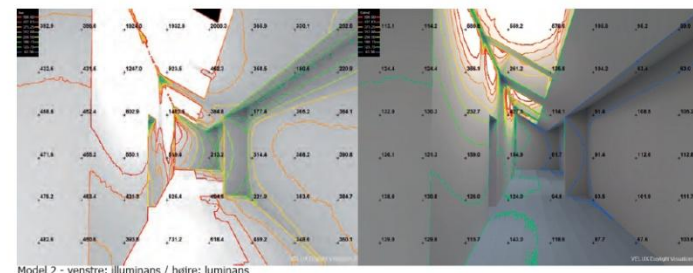
Det er dels at opnå en mere varieret lysfordeling langs korridoren og dels for at reducere det generelle lysniveau en anelse, der i udgangspunktet var noget voldsomt.



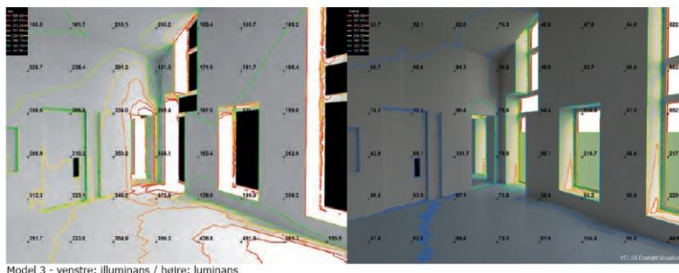
Model 1 - venstre: illuminans / højre: luminans



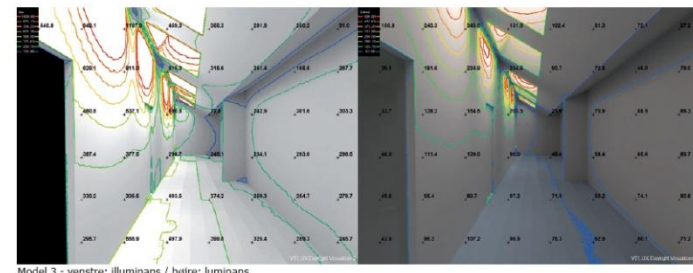
Model 2 - venstre: illuminans / højre: luminans



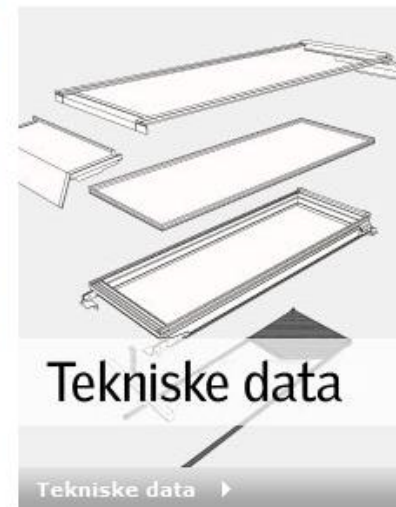
Model 2 - venstre: illuminans / højre: luminans



Model 3 - venstre: illuminans / højre: luminans



Model 3 - venstre: illuminans / højre: luminans



Foster + Partners ▶



Se filmen ▶



Se filmen ▶



Download CAD ▶

*Fordi lys skaber liv™*

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*Bringing light to life*™

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