

VELUX Lookbook

Visualizing how skylights transform a space.



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Simulated image using VELUX Daylight Visualizer



Actual photograph of finished home (photo: Adam Mørk)

Introduction to the VELUX Daylight Visualizer

The images in this brochure were created using 3D design software in conjunction with the VELUX Daylight Visualizer’s scientifically-accurate lighting calculations to show the dramatic impact skylights bring to a room.

Daylight Visualizer is a professional lighting simulation tool for the analysis of daylight conditions in buildings. It is intended to promote the use of daylight and to aid professionals by accurately predicting and documenting daylight levels and appearance of a space prior to execution of the design.

The difference between Daylight Visualizer and other commonly used 3D visualization programs is that it permits you to accurately simulate and quantify daylight levels in interiors, whereas 3D visualization programs only generate images, without information about the quantity and quality of light in a given space. With Daylight Visualizer you can make more informed decisions about daylight performance in your architectural design.



VELUX Daylight Visualizer simulation

VELUX Daylight Visualizer process

Daylight Visualizer’s light calculations are much more realistic and precise than those used even in today’s leading 3D rendering and modeling programs.

To certify a realistic look, the furnished model is imported into Daylight Visualizer where variables

such as location, directional orientation, time, and daylight level are adjusted.

With the camera in the desired location, Daylight Visualizer renders a simulated image based on the variable inputs (above).



Light-corrected Adobe 3DS Max simulation

Bringing materials to life

Because the Daylight Visualizer software specializes in light simulation, the model is then brought back into 3D modeling software that can better apply and represent the properties of more complex

surfaces (such as cloth, wood, leather, etc.). Surface textures are then applied and lighting values are adjusted to be consistent with Daylight Visualizer’s models.



Living room and kitchen

VELUX Skylight
 Lighting conditions:
 May / 10:30AM / intermittent clouds

Why daylight?

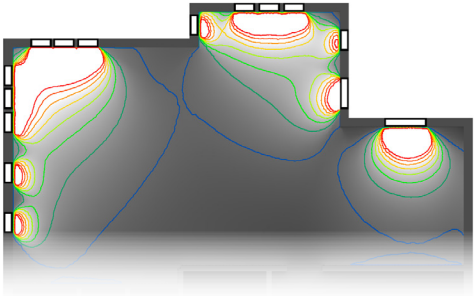
Daylight is essential for sustainable urban development and is an important factor to consider when designing buildings and shaping our homes. Daylight helps to balance our 24-hour Circadian—or bodily—rhythm, and is vital to our general health and well-being. Nevertheless, buildings

often do not always make optimal use of daylight. VELUX offers roof windows and skylights with options that allow you to take advantage of daylight and views when your roofline or building code does not permit vertical window placement.



Before

Lighting conditions:
 May / 10:30AM / intermittent clouds

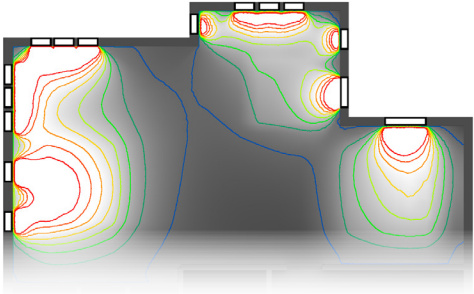


Plan view
 daylight calculations before skylight



After

Lighting conditions:
 May / 10:30AM / intermittent clouds



Plan view
 daylight calculations after skylight



Staircase

VELUX Skylight

Lighting conditions:
June / 11:00AM / sunny

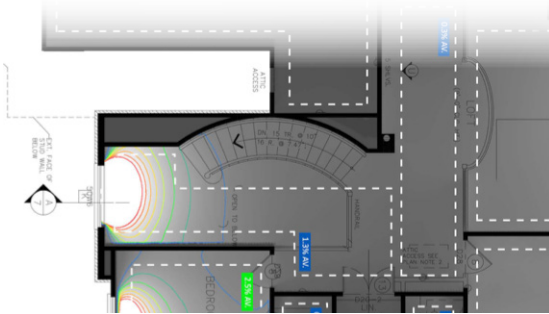
Total transformation

Stairwells don't have to be neglected and boring spaces. Add skylights to these usually dark areas and create a brilliantly bright, open and safer space.



Before

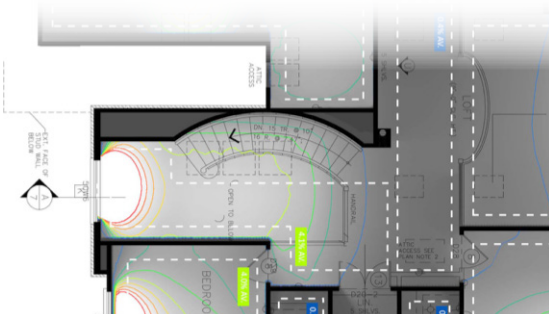
Lighting conditions:
June / 11:00AM / sunny



Plan view
daylight calculations before skylight

After

Lighting conditions:
June / 11:00AM / sunny



Plan view
daylight calculations after skylight



Bathroom

VELUX Skylight

Lighting conditions:
June / 11:00AM / sunny

Better air flow

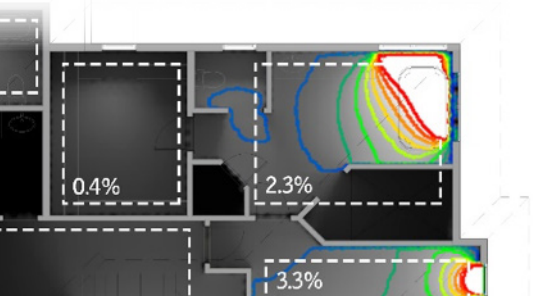
Poor ventilation can result in various problems and discomforts, from mold to difficulty breathing. Natural ventilation can prevent these issues much better than air conditioning.

You can remove your vertical window and replace it with a VELUX skylight. You'll gain an extra wall to add a bath or double vanity—adding a little luxury to your home.



Before

Lighting conditions:
June / 11:00AM / sunny

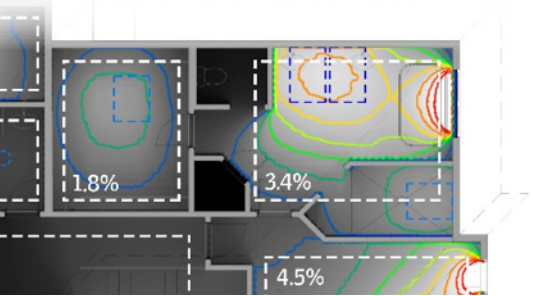


Plan view
daylight calculations before skylight



After

Lighting conditions:
June / 11:00AM / sunny



Plan view
daylight calculations after skylight



Bathroom

VELUX Skylight

Lighting conditions:
June / 11:30AM / sunny

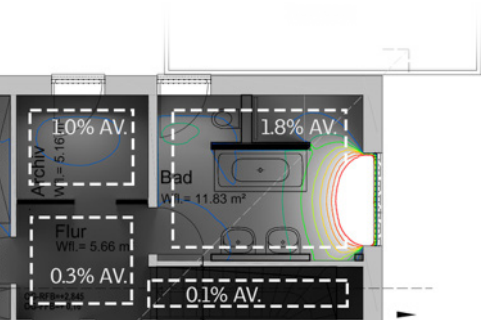
Sunny bathroom

Brighten your bathroom by flooding light in with VELUX skylights. Even bathrooms with darker tones can look bright and clean with the addition of daylight from above.



Before

Lighting conditions:
June / 11:30AM / sunny

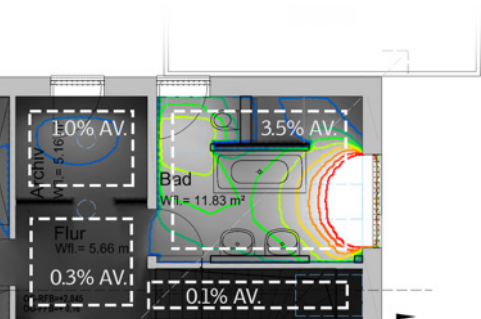


Plan view
daylight calculations before skylight



After

Lighting conditions:
June / 11:30AM / sunny



Plan view
daylight calculations after skylight



Bedroom

VELUX Skylight
 Lighting conditions:
 June / 12:00PM / intermittent clouds

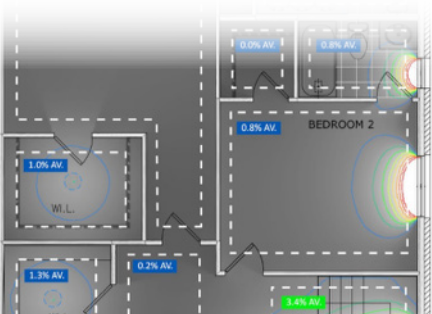
Waking up to natural light

Sunlight provides Vitamin D that leads to more calcium absorption and stronger bones. The amount of daylight we experience impacts our health and well-being. Creating living spaces that bring in natural light can help people receive the light they need.

For those who would rather sleep in, double pleated blinds can convert day into night, blocking even the brightest sunlight, which makes it ideal for rooms that require total room darkening, such as bedrooms. More information on page 22.



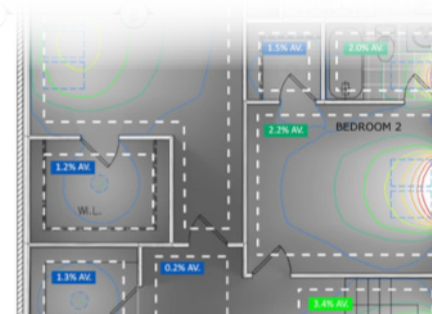
Before
 Lighting conditions:
 June / 12:00PM / intermittent clouds



Plan view
 daylight calculations before skylight



After
 Lighting conditions:
 June / 12:00PM / intermittent clouds



Plan view
 daylight calculations after skylight



Bedroom

VELUX Skylight

Lighting conditions:
October / 12:00PM / sunny

Going green

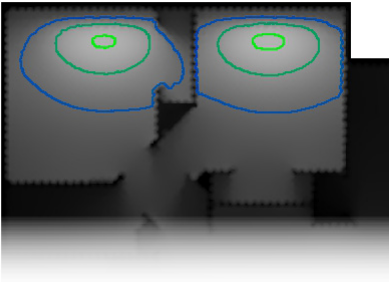
Top daylighting has been shown to not only improve the overall health and well-being of occupants, but also significantly reduces the reliance on electric lighting, therefore reducing energy consumption.

High quality, energy efficient skylights are an important part of building today's green-friendly homes and buildings. The effect natural light has on a person physically, emotionally, and psychologically is well-documented.



Before

Lighting conditions:
October / 12:00PM / sunny

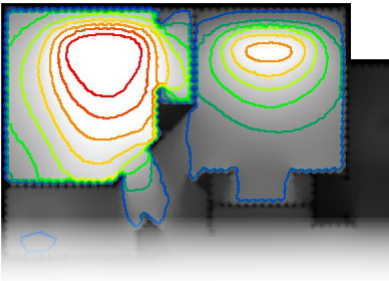


Plan view
daylight calculations before skylight



After

Lighting conditions:
October / 12:00PM / sunny



Plan view
daylight calculations after skylight



Bonus room

VELUX Roof window

Lighting conditions:
August / 2:00PM / sunny

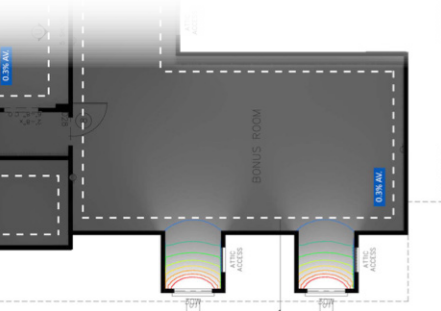
Room in the roof

With "room in the roof," you can improve the consumer appeal and lower your average per square foot cost by nine percent. This can increase the profitability of your homes and give you a tremendous competitive advantage in today's market.



Before

Lighting conditions:
August / 2:00PM / sunny

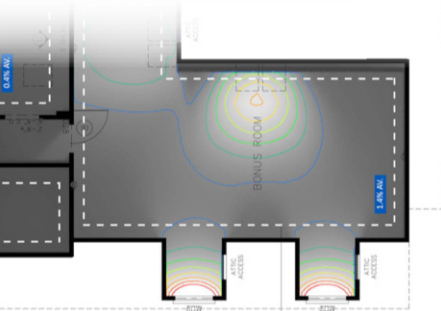


Plan view
daylight calculations before skylight



After

Lighting conditions:
August / 2:00PM / sunny



Plan view
daylight calculations after skylight



Closet

VELUX Skylight

Lighting conditions:
August / 10:00AM / sunny

Bring daylight to every corner of your home

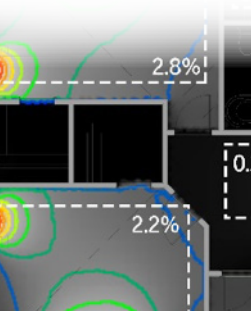
VELUX Sun Tunnel skylights bring natural light into even the darkest and most isolated spaces through a specially designed tunnel that passes from roof to ceiling.

Adding a Sun Tunnel skylight is a cost-effective way to add natural light to spaces such as closets, powder and laundry rooms, hallways or other tight spaces that need a brighter, more vibrant appearance. Their low-profile design creates a sleek appearance on any roof line, and their pre-fabricated light tunnel makes them quick and easy to install.



Before

Lighting conditions:
August / 10:00AM / sunny

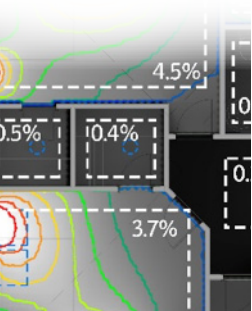


Plan view
daylight calculations before skylight



After

Lighting conditions:
August / 10:00AM / sunny



Plan view
daylight calculations after skylight



Daylight control

Room darkening blinds can convert day into night, blocking even the brightest sunlight, making it ideal for rooms that require room darkness, such as bedrooms. The double pleated blind honeycomb structure also provides additional energy efficiency.

Room darkening (Double pleated)

- *Blackout cloth with honeycomb structure*
- *Neat pleats*

Standard blinds colours



White



Beige



VELUX Blind Collection

The VELUX Blind Collection can help turn an ordinary room into something special. With **over 50 colours and pattern choices available**, you can design your space to reflect your personality. Special order skylight blinds are not pre-installed with your skylight order and may ship separately. Skylight blinds are solar powered remote-operated, or manually-operated.

For more information visit: veluxblinds.ca

Light filtering blinds soften and diffuse incoming light providing privacy and light control while reducing glare. The single pleated blinds are ideal for rooms that do not require total darkness such as office, kitchens and living rooms.

Light filtering (Single pleated)

- *Softens and diffuses incoming light*
- *Neat pleats*

Standard blinds colours



White



Classic sand



Limited Warranty Summary

This Warranty applies to products manufactured as of January 1st, 2010. Please contact VELUX for warranty information for product manufactured prior to 2010.

VELUX Skylights & Roof Windows

20 YEARS:

Parts on seal failure (moisture between glass panes).

10 YEARS:

Parts for defective skylights, roof windows and flashings.

10 YEARS:

Laminated glass with Neat® coating and triple pane products on cracking or breakage due to hail.

VELUX Sun Tunnel Skylights

10 YEARS:

Parts (corrosion and deterioration).

VELUX Electrical Systems & Sunscreening Accessories

5 YEARS:

Parts for electrical systems and sunscreening accessories.

VELUX Commercial Warranty

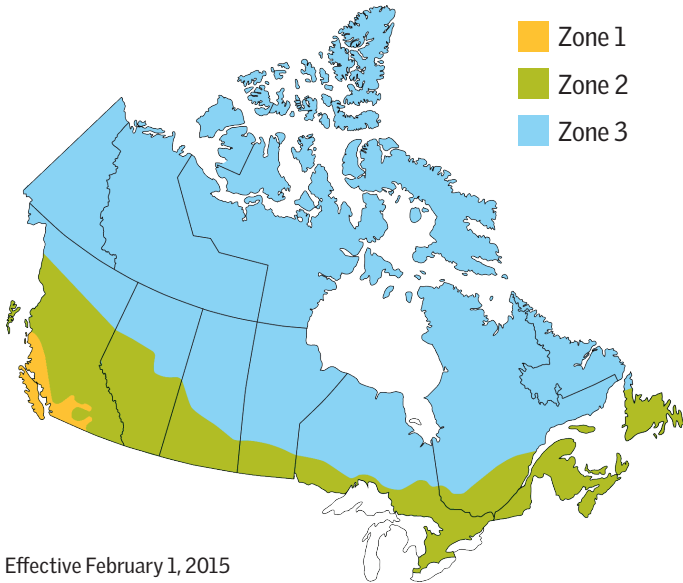
See velux.ca for full warranty details

Limited labour warranty included. See velux.ca or call for full warranty details.

Notice

All glass may be subject to unexpected and spontaneous breakage in rare circumstances due to imperfections in the glass that are undetectable during the manufacturing and inspection process by the manufacturer of the glass and VELUX. VELUX offers the choice of laminated or tempered glass skylights. Laminated glass is a combination of two or more glass sheets with one or more interlayers of plastic (PVB) or resin. In case of breakage, the interlayer is designed to hold the fragments together. Tempered glass does not contain an interlayer to hold the fragments together. Instead, tempered glass is designed to break into small, pebble-like pieces. When tempered glass breaks, pieces of glass come loose and may strike an individual. Consult local regulations and/or building material consultants to determine which type of glass is right for you or if laminated glass is required in your application.

Energy Star zones for skylights



Energy Star ratings for Canada is divided into three climate zones (1, 2, and 3). The climate zones are based on an annual daily average temperature.

VELUX has the best selection of Energy Star certified skylights and Sun Tunnels. Not only do our products meet Energy Star zones to save you money but they are all rigorously tested to perform in the harshest and most extreme climates.

For more information on Energy Star visit www.nrcan.gc.ca/energy

Certifications

VELUX Skylights and Sun Tunnel Skylights, including VSS, VSE, VS, FS, VCS, VCE, VCM, FCM, TMR, TGR, TCR, TMF and TGF have been tested to the following standards and the results have been third party certified.

- **AAMA/WDMA/CSA 101/I.S.2/A440-08** NAFS – North American Fenestration Standard/Specification for Windows, Doors, and Skylights
- **A440S1-09** Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440, NAFS
- **NFRC 100** Procedure for determining fenestration product U-factors.



WDMA
Hallmark Certified