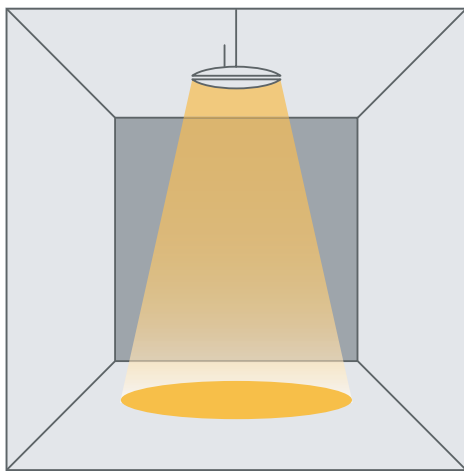


# TECHNICAL BASIS FOR LIGHTING DESIGN

## ILLUMINATION LEVEL

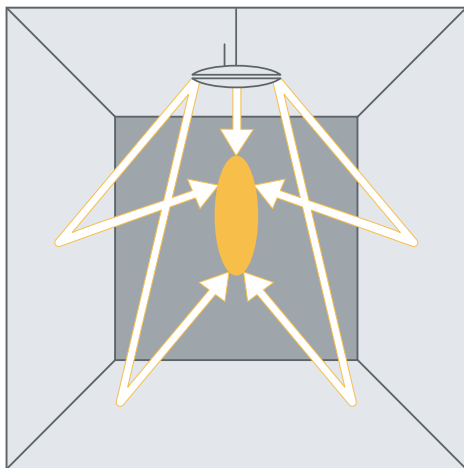
Custom lighting is a solution - key factors in adequate lighting.



### Illumination level

One of the most significant factors for room illumination is the illumination level measured in "lux" or "footcandle". It defines the intensity of light emitted over a given area. Due to the deterioration of vision, the elderly need a higher illumination level to be able to cope with daily tasks. The threshold areas between light and dark such as entryways have to be kept brightly lit, especially on the inside, to help the eye better adjust to the inside when entering from the brighter outside.

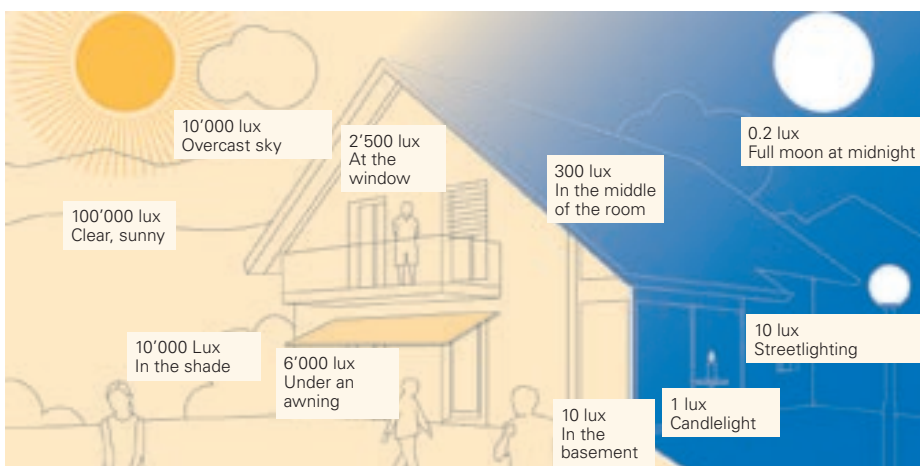
Adequate illumination levels reduce feelings of insecurity, the risk of accidents, anxiety, and passiveness among other things.



### Cylindrical illumination

Cylindrical illumination is the quantifying parameter for the lighting level of vertical or virtually vertical object surfaces in a room. It is also applied as a standard for determining the brightness in a room and, in particular, the brightness of faces. Ideal cylindrical illumination enhances the recognition of faces, door handles, light switches, colors, and more.

Quality components along with innovative reflector and prism technology allow Derungs Licht AG solutions to achieve optimal cylindrical illumination.



This diagram represents the various approximate illumination levels in everyday life.