

Building Systems - Lighting

- Please describe "**Visual Comfort**" and compare it with "Thermal Comfort"!
- Please draw and explain the "**Kruithoff-diagram**"! How can we interpret this diagram in the lighting design practice?
- Please list the **light sources of daylighting**! Please briefly explain their role in the daylighting of the interior!
- Please **compare** the most important aspects of **daylighting and artificial lighting**!
- Please list the available **sky-conditions**. What is the practical role and importance of these?
- What is the "**daylight factor**", please list some practical benefits also!
- Please draw a figure and list the **basic structural parts** (relevant for daylighting) of **openings**!
- Please **compare** the most important aspects of **side-lights** and **sky lights**!
- Please list the available **modern daylighting systems**, and briefly explain their benefits and the limits of their application!
- Please explain the difference and also compare homogeneous and inhomogeneous **shading systems**!
- Please list the available methods for **daylighting design**!
- Please list the types of **artificial light sources** and briefly describe their illumination-related properties!
- Please describe the **typical application fields** of the various types of artificial light sources!
- What is the main role of the **lamp enclosures** (fittings)? Please describe and explain their **optical** characteristics!
- What is **light-pollution**? Please describe how to reduce light pollution in case of buildings!