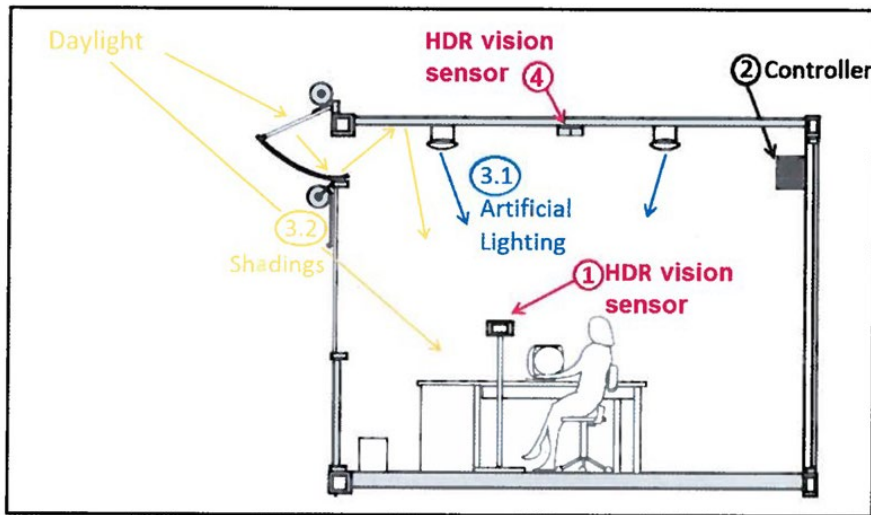


# Sun Shading and Electric Lighting Control based on HDR Vision Sensor



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Keywords

Building automation, human-centric approach, visual comfort, high dynamic range (HDR) vision sensor, energy saving

Intellectual Property

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Schematic of an office with the lighting control system. It makes use of HDR vision sensors and a controller with advanced software intelligence to control the blinds and the artificial lighting of the building.

## Description

The lighting control system enables visual comfort in workspaces reducing at the same time electricity consumption. It combines the control of a novel High Dynamic Range (HDR) vision sensor with building automation in order to achieve an accurate glare rating and management of the illumination of the workspace.

The technology uses advanced control with special software to obtain sufficient illuminance by controlling the artificial lighting and the actuators of the blinds for sunlight shading, avoiding glare's discomfort continuously, and having a human-centric approach.

The electric lighting consumption in an office with this technology could be 30% less than one without any control.

## Advantages

- Decrease in electric lightning consumption
- High visual comfort
- Fully automated

## Applications

- Smart buildings
- Energy saving
- Visual comfort