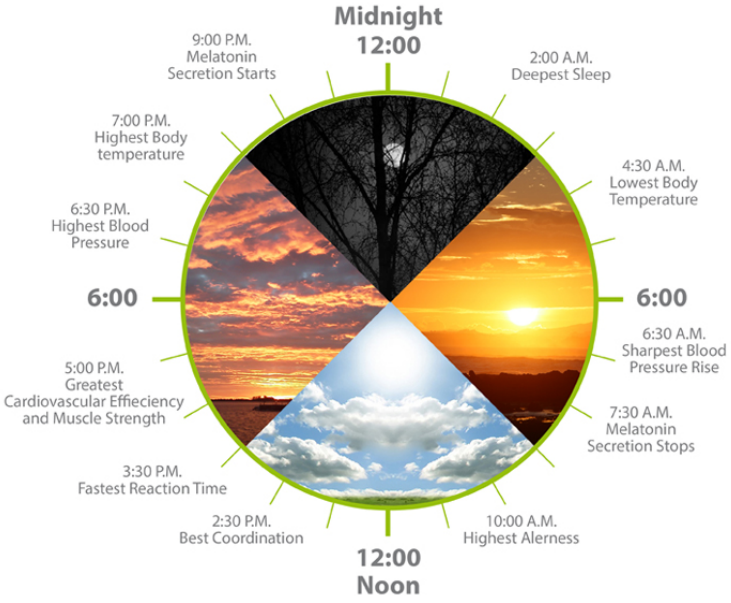
LIGHT FOR PEOPLE

HUMAN CENTRIC LIGHTING



Happy Light for Your Business.

OFFICE

Motivated, highly capable and healthy employees are the key to the success of a company. This means the main objective of any employer must be to create best-possible conditions for working.

However, the necessity of a professionally designed lighting system for healthy places of work is frequently neglected, and the legislatively specified illuminance of 500 lux is simply not sufficient for older employees.

Human Centric Lighting solutions from Fuselek focus on people and their needs and promote well-being, productivity and relaxation – for healthy work in offices.

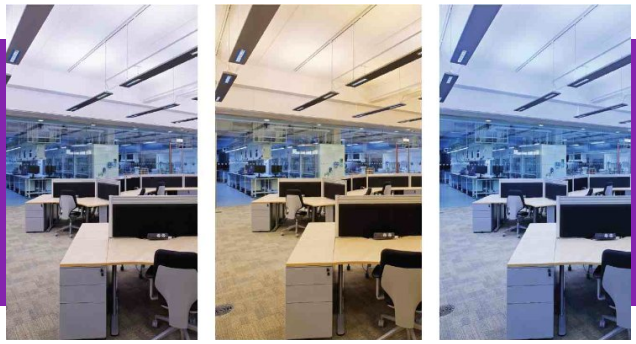
Virtually every business can benefit from the positive effects of Human Centric Lighting Systems designed by Fuselek for your specific needs.

Human-centric lighting involves dimming and color tuning of lighting to improve the environment. It is also known as tunable lighting.

INCREASES
MOTIVATION
PRODUCTIVITY
EMPLOYEE LOYALTY

REDUCES
ERRORS
ABSENTEEISM
WORKPLACE ACCIDENTS

- Assisted Living
- Facilities
- Hospitals
- Offices
- Retail Stores
- Sporting Complexes
- Airports
- Shopping Centers
- Restaurants
- Apartment Complexes
- Hotels
- Production Facilities
- Warehouses



EDUCATION

In the educational sector, modified sleep / waking rhythms often exist which are a challenge for pupils and adolescents. Supporting the circadian rhythm enables levels of attention and concentration during work to be increased and error rates reduced.

- During the early morning hours, the right light can help to wake up with less sleepiness.
- A better light environment can improve alertness and concentration during lessons.
- Lighting systems that give higher light intensities and colour temperature at the right time can help to improve duration of sleep and quality of sleep and thus improve learning effects.

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Human Centric Lighting – The right light at the right time

INDUSTRY

Avoiding mistakes and achieving occupational safety are particularly important topics in everyday industry. Shift-based work for example leads to an impaired sleep / waking rhythm and prevents necessary recovery. An insufficient lighting level also has its downsides that negatively affect work safety. Human Centric Lighting provides help in such areas.

For the dayshift in production environments an activating light in the morning should be switched on for 1-2 hours, starting 1-2 hours after the shifts begin to allow night owls to reach the right position on their bodily performance curve. The cool white light shifts the daily rhythm forward. A too early exposure may lead to a phase delay.

What effect does light have on people?

At the emotional level light always triggers something in us. With corresponding lighting concepts we manage to systematically generate certain emotions. On that way you open for your customers the gates to a variegated world of experiences.

Visual effect
The shopping experience can be enhanced with visual effect lighting. Accentuated, high-contrast illumination or even coloured light are the means of choice in order to steer attention and control gazes.

Non-visual effect
Invisible, but not without effect: here light is used for activation or relaxation. Ganglion cells in the eye, which are not used for seeing, regulate our biorhythm.

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HealthCare

In hospitals and elderly care centres, residents often suffer from less access to daylight because of illness or mobility issues. Spending long time indoors may disrupt sleep patterns. In particular, patients with dementia and other cognitive illnesses are vulnerable to loss of daylight. Healthcare environments are well suited to implement lighting cycles containing sunrise, sunset and daylight simulations. The effects on the patients or residents are higher activity levels during daytime, better sleep at night, shorter recovery times and reduced intake of anti-depressants.

Especially in the winter months, the amount of daylight exposure is insufficient for adequate control of the circadian rhythm in many elderly people because they increasingly stay indoors. This not only has negative consequences for the residents' cognition, but also impairs their wake-sleep rhythms.

Artificial lighting can compensate for the biologically active effects of insufficient daylight exposure and thereby stabilise the sleep-wake rhythm. This may lead to more restorative sleep and thus ultimately improve the mental and emotional condition, i.e. wellbeing of the residents. The lighting may also positively affect agitation, eating habits and communication.

- Prevent mood fluctuations and depressions.
- Stabilization of the circadian rhythm.
- The emotional and physical well-being improves as a result of restful nights.
- Reduction of sleep-inducing drugs.

- Lack of daylight is balanced and counteracts insomnia.
- Improved well-being of the employees.
- Freeing personnel because residents experience activity and resting phases at the right time.
- More relaxed in the evening with fewer headaches and less tired eyes.
- Motivation of staff by knowing that the residents are given individualised care.