THE MYLIGHTS TUNABLE APP

Regent is ready to meet the requirements for Human Centric Lighting. The new Lightpad Tunable, together with the specially developed app (MyLights Tunable for Android and iOS), makes Human Centric Lighting accessible for all users.

Select from three settings to ensure the preferred lighting conditions:

UIGHT MOOD WORK-RELATED STATIC LIGHTING

The lighting atmosphere is adjusted to suit the activity to be performed: you can choose from five different moods from concentrated to relaxed, or select a colour temperature setting manually from the range provided. The colour temperature will remain set unless changed manually.

COURSE OF DAYLIGHT NATURAL DYNAMIC LIGHTING

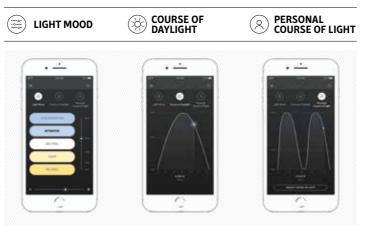
Just as natural changes in daylight are caused by the course of the sun, so the colour temperature changes over the course of the day. In accordance with our circadian rhythm, the colour temperature tends to have an activating effect on us in the mornings and a relaxing effect in the evening: thus positively impacting our sleep-wake rhythm.



PERSONAL COURSE OF LIGHT PERSONALISED DYNAMIC LIGHTING

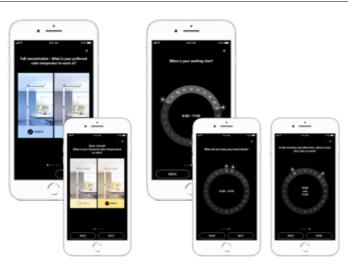
Based on five questions with regard to working hours and preferred colour temperature, an ideal light curve is created to suit your needs. The colour temperature is then set to change over the course of the day in line with your personal requirements, thus supporting your bio-rhythm.

HUMAN CENTRIC LIGHTING MADE EASY



Light moods, natural dynamic lighting or personalised light cycles can be set manually via smartphone.

(R) PERSONAL COURSE OF LIGHT



Set your personalised light cycle for melanopsin activation by answering questions with regard to your daily work schedule/activities.



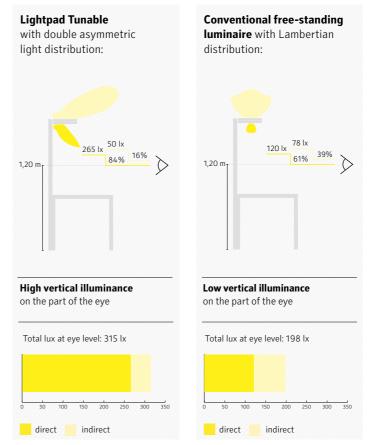
App: MyLights Tunable for iOS and Android

LIGHTPAD TUNABLE FREE-STANDING LUMINAIRE

Lightpad features double asymmetric light distribution, which optimises the impact of the biologically effective light given the higher vertical illuminance at eye level compared to conventional Lambertian distribution.

In the case of Lightpad, the direct and indirect light components are of the same colour temperature. This means that the random mixing of different colour temperatures is avoided as far as possible and the biological effectiveness of the lighting further enhanced.

COMPARISON OF THE VERTICAL ILLUMINANCE AT EYE LEVEL*



* calculation for a single person office 4.0 x 5.5 m



HUMAN CENTRIC LIGHTING MADE EASY

THE WHOLE IS MORE THAN THE SUM OF ITS PARTS

The term Human Centric Lighting refers to the holistic view of the effect of light on human beings, the goal being to apply artificial lighting in order to have a positive impact on people's feeling of well-being.

Besides the functional aspects of light and the way it can be applied to enhance architecture, the biological effect of light, which can be further subdivided into a melanopic and an emotional component, plays a crucial role.

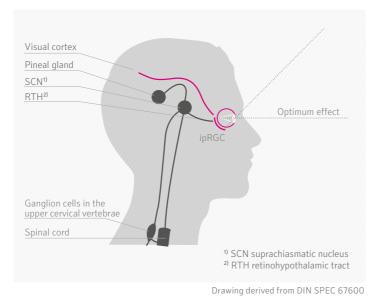


THE MELANOPIC EFFECT OF LIGHT

Since the discovery of the non-visual photoreceptors (ipRGC) in the year 2002, it is known that the light that enters the eye has an effect on the human being that goes beyond the pure function of vision. This applies in particular to how the human eye receives and uses the blue parts of the spectrum.

MELANOPIC LIGHT PURSUANT TO DIN SPEC 5031-100

The term refers to the fact that the non-visual effects of light are transmitted via special photoreceptors that contain light-sensitive melanopsin.

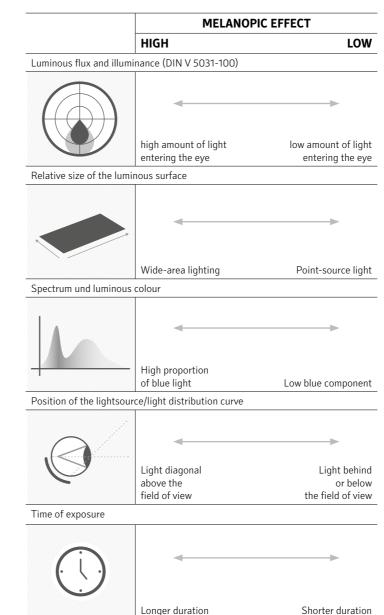


LIGHT THAT ENTERS THE EYE

- synchronises the biological clock and influences the secretion of hormones
- · influences physiology, health and behaviour
- impacts our performance and feeling of well-being

FACTORS THAT INFLUENCE THE MELANOPIC EFFECT OF LIGHT

Both the design and positioning of the luminaire play a key role with regard to the melanopic effect of light.



A COMPARISON OF LIGHT CYCLES AND THEIR EFFECT

SIMULATION OF THE COURSE OF DAYLIGHT OVER THE DAY: CIRCADIAN LIGHT CYCLE

If the light emitted by a luminaire is controlled to align with the natural course of daylight, the colour temperature in the morning and evening is warm white, with the coolest colour temperatures dominating around midday.

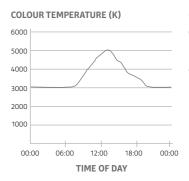
A circadian light cycle is applied to support the natural day-night rhythm, or to simulate this in spaces or areas with no incident daylight, and to enhance well-being.

LIGHT FOR MELANOPSIN ACTIVATION

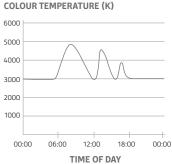
The change of colour temperature of the light emitted by a luminaire between cool white and warm white depends on what activities take place over the course of the day. According to our natural biorhythm, we humans do not maintain the same level of commitment and motivation throughout the day.

The light cycle dedicated to melanopsin activation is designed to support alertness, or to help prevent fatigue, by introducing a cool colour temperature at the right moment, and to promote relaxation through warm colour temperatures, all in all increasing performance/productivity.

RECOMMENDED CURVE FOR CIRCADIAN LIGHT CYCLE*



RECOMMENDED CURVE FOR MELANOPSIN ACTIVATION*



* derived from DIN SPEC 67600