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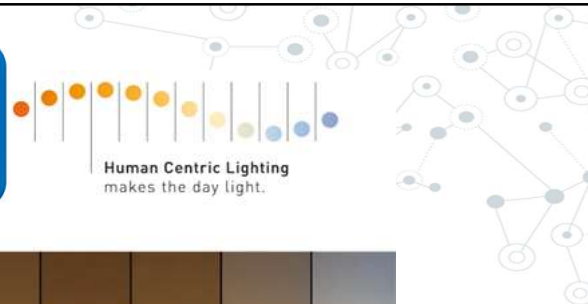
Enhance Health & Well Being



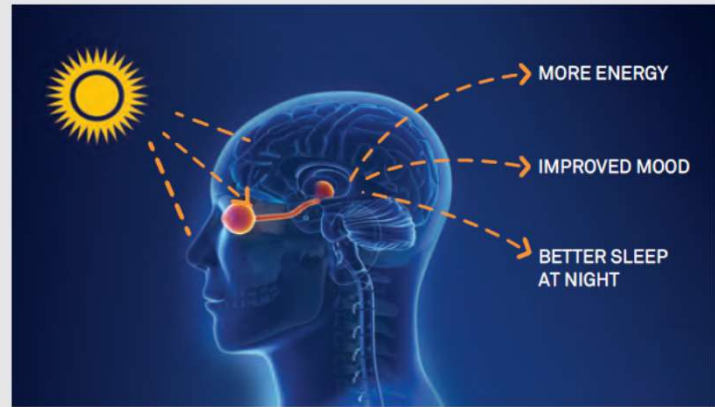
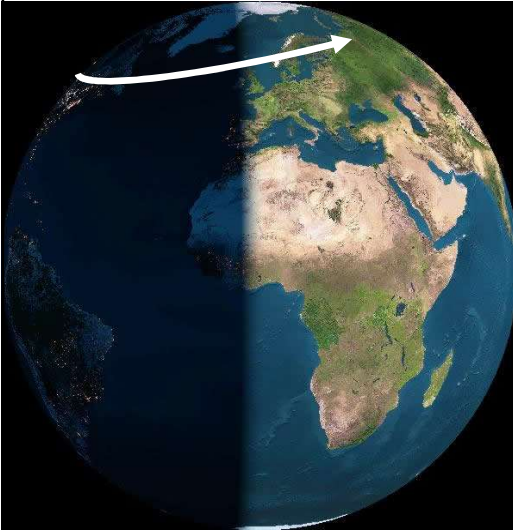
A Tunable Lighting Solution – Light to improve Human Health & Well-Being

Human Centric Lighting

Health & Wellness – Solution beyond Energy Saving



Biological body clock regulates every aspect of human Activity “Circadian Rhythm”

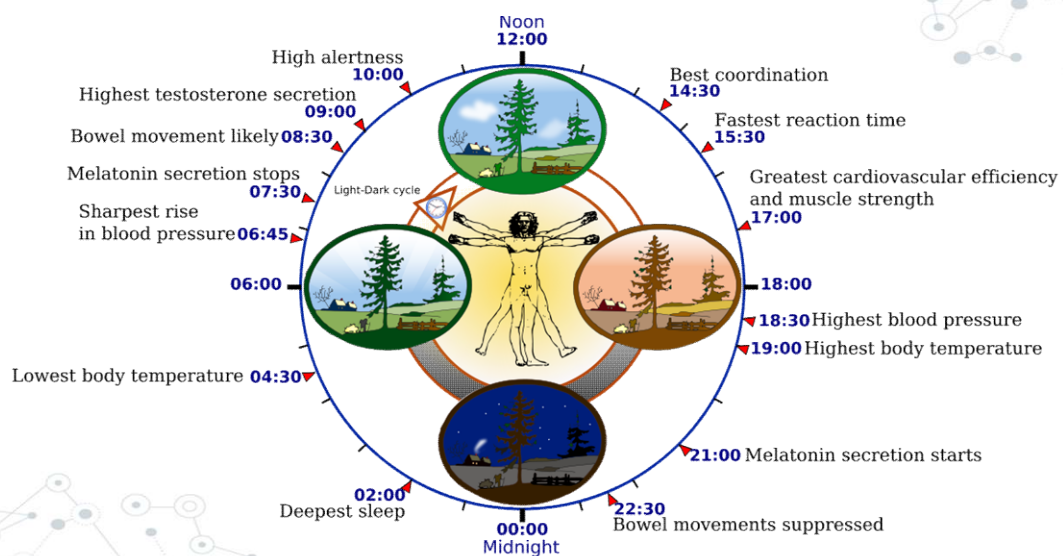


Light enters the eyes

Through the hypothalamus it regulates the circadian rhythm with the help of chemical messengers that include cortisol, serotonin and melatonin.

A regulated circadian rhythm has positive psychological and physiological impacts

Biological body clock regulates every aspect of human Activity “Circadian Rhythm”



Concept

Human Centric Lighting is a lighting concept, which offers...

- Right light for performing task & seeing by improving physiology and psychology.
- Correct light for the Human biological system (Biological Clock)

Human Centric Lighting...

- explains the use of biologically most suitable light to improve “human well-being”
- which helps the human body to synchronize with the “natural day/night rhythm”
- makes us alert, attentive and efficient throughout the day
- helps human to relax and recover in the evening
- contributes to a good night sleep

Objective

- Widen the application of Light from **Visual Task to Non-Visual aspects**
- Improve Sleep/wake cycles, daily changes in alertness, performance and mood (circadian changes) as well as response to seasonal changes
- Benefits can be achieved with new technology that allows for greater adaptation of light's color temperature and illumination levels, so it more closely resembles natural conditions
- Indoor LED luminaire (2x2) designed to provide Human Centric Lighting (HCL) solution for interior application with color changing feature, in- line with outside environment to create dynamic lighting ambience coupled with lighting intensity change in same proportion as that of day time but not in absolute value.
- HCL LED luminaire, with two doses of adjustments – color and brightness, **enhances user's day-to-day mood, wellbeing, productivity and attention levels.**

Objective

- These luminaire has been designed to incorporate 'HCL' requirement to create **dynamic lighting ambience, over existing practice of static color climate for interior application.**
- The Human Centric Lighting is advantageous mainly to those people particularly who work continuously inside the building in a static artificial lighting environment; hence they do not get opportunity to charge themselves by the natural Sunlight, hence the circadian rhythm system gets disturbed.
- Advantageous to Hospitality and Health care sectors for the patients as it more closely resembles the natural day light conditions.
- Good dynamic lighting ambience coupled with well ness inside educational institutions can help the students to focus and concentrate on their studies as well as activities.

Benefits

Human - Centric Lighting can make your workplace great

- Customize Energy usage based on actual occupancy and day light contribution
- Improve people Health & Well-being by managing Lighting intensity during the day
- Go Green by reducing emissions and increase savings
- Published study show a potential of productivity increases by 10% through Human – Centric Lighting
- Personalize control by individual employees

Application

“ Human centric lighting is lighting devoted to enhance human performance, comfort, health and well-being individually or in some combination.”



Key USPs – Why Bajaj Solution

Easy Installation

- Stand alone System – no additional wiring required very much suitable for MSE offices, meeting rooms, Hospitals, Educational institutes
- Ready on connection to power, no further configuration necessary

Simple operation

- Preprogrammed dynamic lighting scenarios taking into account biological rhythms
- Remote for convenient intuitive adjustment to individual requirements and specific situations



Thank You

Switch to a Smarter World

