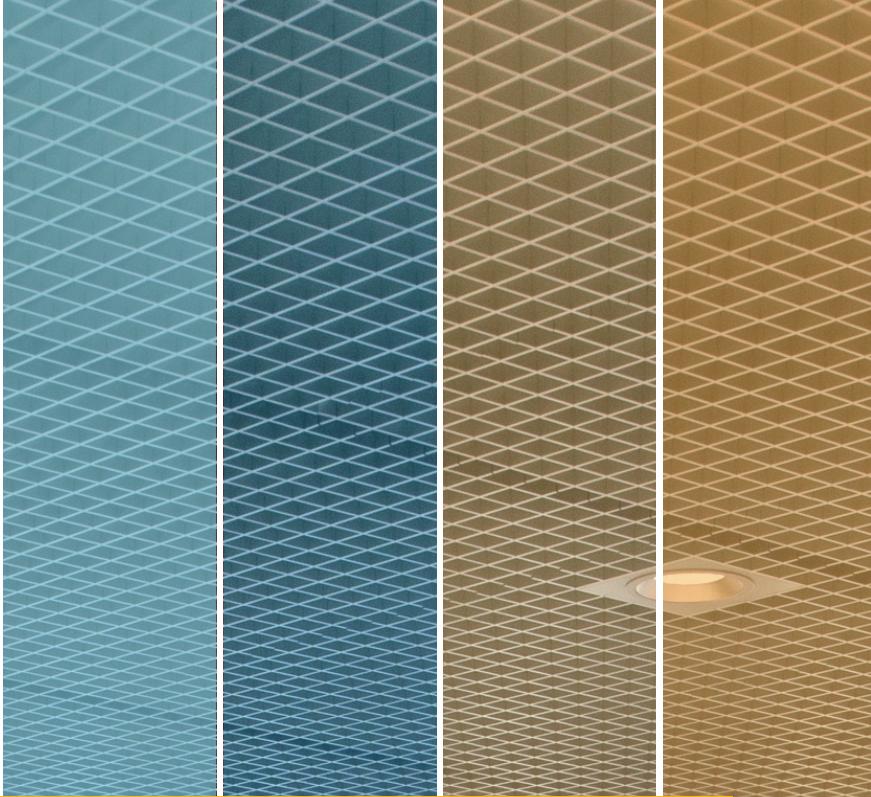




HUMAN  
CENTRIC LIGHTING

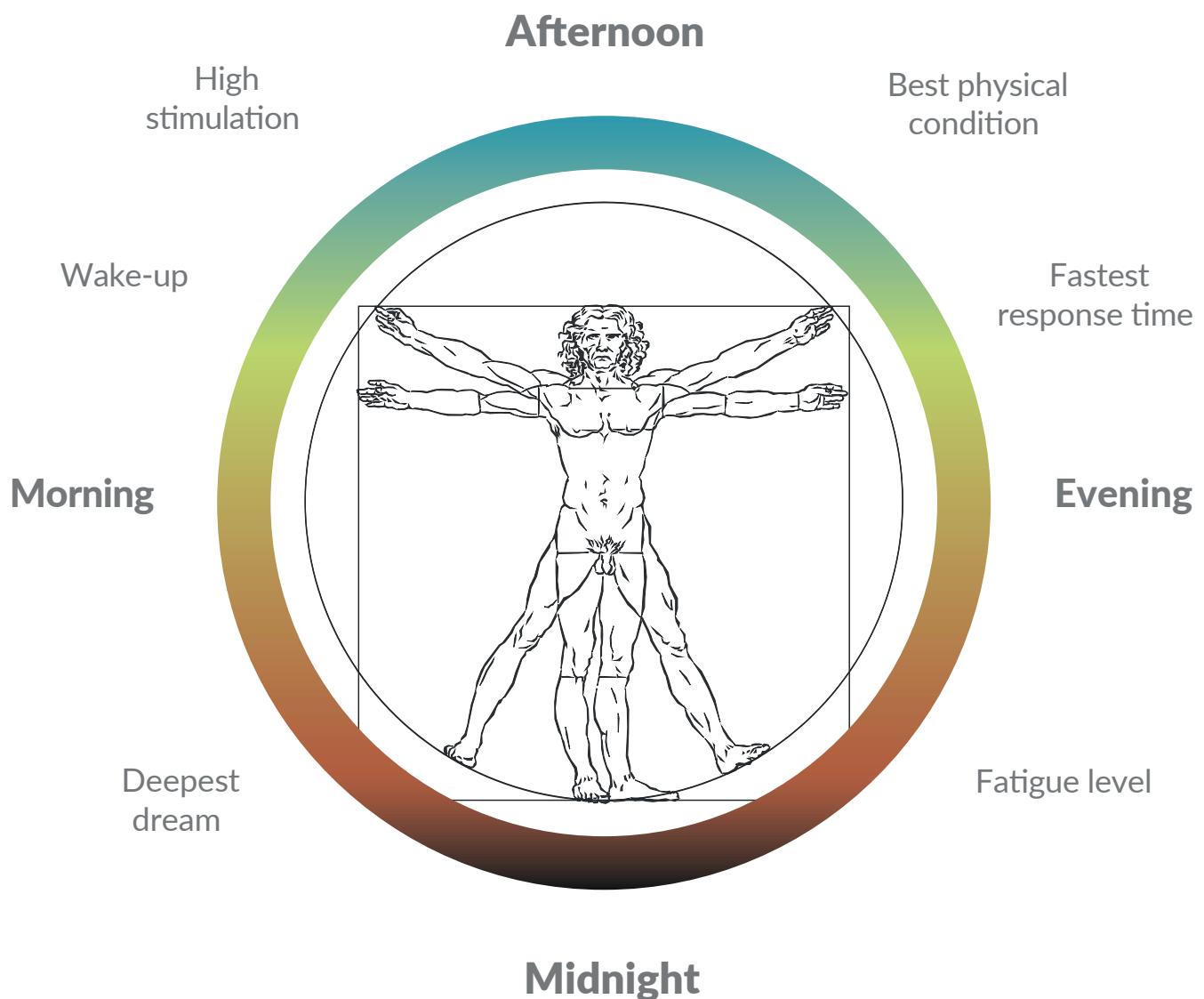
# HUMAN CENTRIC LIGHTING



## Was ist HCL?

Human Centric Lighting is an approach to lighting aimed at adapting it to the natural human biological clock/natural human circadian rhythm. All of nature functions around a specific rhythm, the changing seasons, sunrises and sunsets determine the flowering, fruiting or vegetation of plants and the development of all living beings. Human beings are no different; we wake up and fall asleep according to the rotation of our planet, which harmonises our functioning in relation to the day.





# How it works:

The development of the lighting industry has made light evolve recently, changing the understanding of HCL from a technology to a philosophy, and a way of improving the quality of Life.

The applications for these functionalities are much broader, and devices using HCL conceptions are also being implemented in workplaces, teaching rooms, leisure areas, shops, or medical environment; the list grows with ongoing development.

As a result, we can already improve quality of life through appropriate stimulation or tranquillity by synchronising the light to the circadian rhythm.

## **Why is circadian rhythm important?**

Our activity, well-being or effectiveness is largely dependent on the natural circadian rhythm. Disturbances in rhythm have a negative impact on our functioning and efficiency at work. Technological development makes it possible to adapt lighting to the natural needs arising from circadian rhythms, which directly affects our natural functioning and sustainability.





## **Advantages of living and working in accordance with the human circadian rhythm**

Light is the most important factor shaping the circadian rhythm - the right intensity, composition of the light spectrum and exposure time have a real impact on the body's well-being and condition, and thus our productivity at work. The colour temperature of the sun varies depending on the time of day and the weather. It also affects the spectrum of light that reaches the human retina. The range of the colour temperature in the implemented LUG luminaires - 2700-6500K - enables reproduction of the temperature range of the sun.

# Discover our latest **solution in the field**

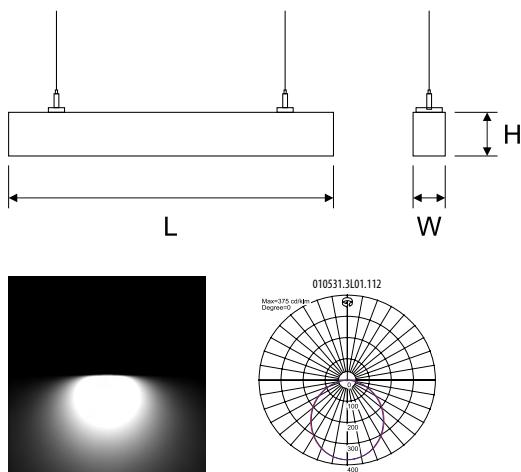
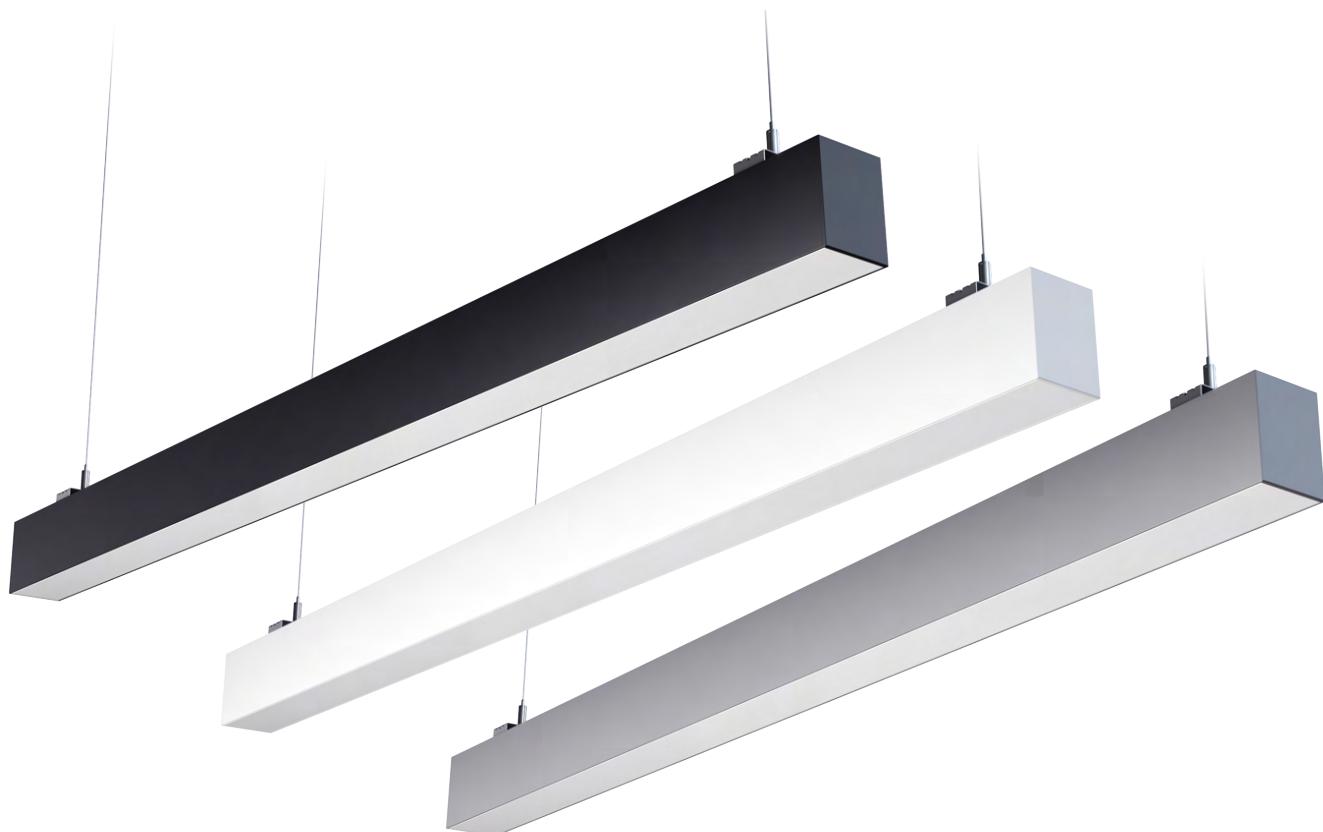
When we want to provide healthy light, we focus on both the user and their use of the relevant space. That is why we offer dedicated solutions for working and living spaces.

Our solutions provide ergonomic light to create perfect working and learning conditions, and to improve the condition of patients/residents in health, therapy or care centres.

# VOLICA 2.0

## TUNABLE WHITE LED

Decorative downlight luminaire in TUNABLE WHITE technology, suitable for tool-free assembly, for installation in suspended ceilings, for LED light sources. Luminaire in a circular version with different light distribution angles.

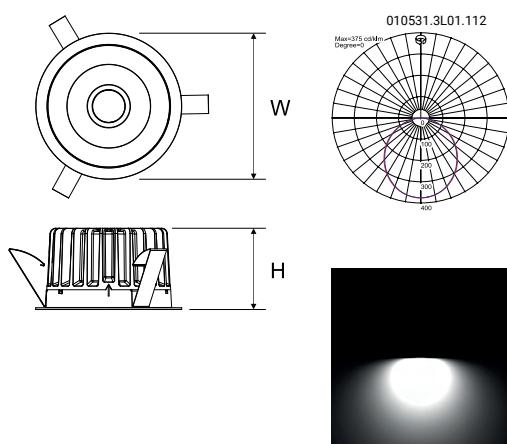


Luminaire power	43, 53 W
Lumen luminaire	4500, 4700, 5600, 5800 lm
Lifetime LED	80 000 h
CRI	≥90
Colour temperature	2700 - 6500
Operating temperature range	0 ... +35
Type of equipment	DALI
Dimensions	1206 × 60 × 80 mm
Warranty	5 years

# INTO R160

## TUNABLE WHITE LED

Decorative downlight luminaire in TUNABLE WHITE technology, suitable for tool-free assembly, for installation in suspended ceilings, for LED light sources. Luminaire in a circular version with different light distribution angles.

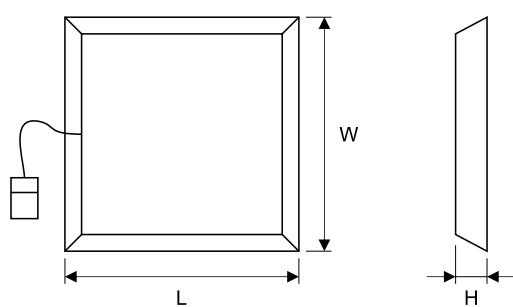


Luminaire power	35 W
Lumen luminaire	4500, 4700, 5600, 5800 lm
Lifetime LED	75 000 h
CRI	≥80
Colour temperature	2700 - 6500
Operating temperature range	0 ... +35
Typ of equipment	DALI
Dimensions	160 x 88 mm
Warranty	5 years

# LUGCLASSIC

## TUNABLE WHITE

Luminaire with LED source using Tunable White technology, allowing the colour temperature to be adjusted from warm to cold white light. The colour temperature adapted to the human circadian rhythm, together with the right lighting intensity, improves well-being, and influences our efficiency. Particularly recommended in offices, schools, universities and healthcare facilities.

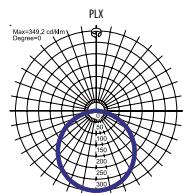
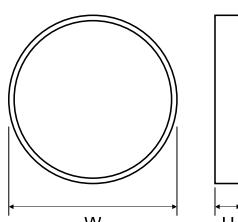


Luminaire power	23, 33, 42 W
Lumen luminaire	3100, 4300, 5250 lm
Lifetime LED	80 000 h
CRI	≥90
Colour temperature	2700 - 6500K
Operating temperature range	0 ... +40
Typ of equipment	DALI
Dimensions	595 x 595 x 80 mm
Warranty	5 years

# TLON 2.0

## TUNABLE WHITE LED

Luminaire with LED source using Tunable White technology, allowing the colour temperature to be adjusted from warm to cold white light. The colour temperature adapted to the human circadian rhythm, together with the right lighting intensity, improves well-being, and influences our efficiency.

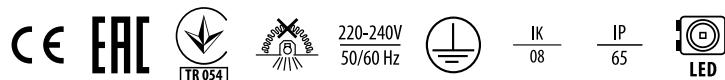


Luminaire power	38 - 76 W
Lumen luminaire	5450 - 10800 lm
Lifetime LED	100 000 h
CRI	≥90
Colour temperature	2700 - 6500
Operation temperature range	0... +35
Typ of equipment	DALI
Dimensions	900 x 80 mm
Warranty	5 years

# SOFTIELIGHT

## TUNABLE WHITE

A modern flush-mounted luminaire for LED light sources, suitable for office spaces, meeting intensity, uniformity and glare standards. Soft indirect optional light - version including module/-direct element.

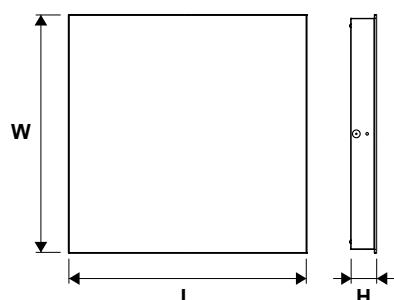
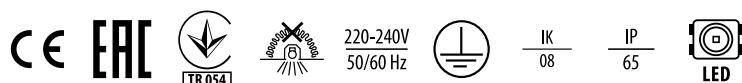


moc	24 - 55 W
strumień	2500 - 5600 lm
życiwość	80 000 h
CRI	≥90
temperatura barwowa	2700 - 6500K
zakres temperatury pracy [°C]	0 ... +35
Rodzaj osprzętu:	DALI
wymiary [mm] L W H	595 x 595 x 70 mm
Gwarancja	5 lat

# MEDICA 2.0

## TUNABLE WHITE LED

Luminaire with LED source using Tunable White technology, allowing the colour temperature to be adjusted from warm to cold white light. The colour temperature adapted to the human circadian rhythm, together with the right lighting intensity, improves well-being, and influences our efficiency. Particularly recommended in hospitals, laboratories and healthcare facilities.

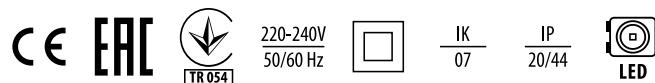


Luminaire power	21,4 - 37,8 W
Lumen luminaire	2900 - 5000 lm
Lifetime LED	100 000 h
CRI	≥90
Colour temperature	2700 - 6500
Operating temperature range	0 ... +35
Typ of equipment	DALI
Dimensions	595 x 595 x 83 mm
Warranty	5 years

# LUGSTAR 3.0

## TUNABLE WHITE

Decorative downlight luminaire for installation in suspended ceilings with IP44 protection for LED light sources.



Luminaire power	14 - 33 W
Lumen luminaire	1500 - 3600 lm
Lifetime LED	100 000 h
CRI	≥90
Colour temperature	2700 - 6500K
Operating temperature range	0 ... +35
Typ of eqipment	DALI
Dimensions	240 x 110 mm
Warranty	5 years



**LUG®**

since 1989

manufacturer of professional  
lighting solutions

[www.luglightfactory.com/en](http://www.luglightfactory.com/en)