

LC  
LIGHT COGNITIVE



LIGHT FOR WELLBEING. DERIVED FROM NATURE.



# LC brings natural light indoors

LC brings the beauty and the effects of natural light into all spaces, everyday. LC designs enhance personal wellbeing and performance. The light sources are based on a vast body of research and natural light spectral modeling. LC benefits from the expertise of Dr Steven Lockley, Harvard Medical School.

## OUR MISSION

We are passionate about improving all spaces with light and dynamics. LC was born from the realization that light plays a fundamental role in our health. By recreating natural light in indoor spaces we want to help you feel better every day. Our inspiration comes from nature.

## OUR VISION

We see a future where lighting is immersive and enhances our everyday life. At LC we believe it is within your reach today. Our goal is to make every windowless area as pleasant as a winter garden or a penthouse. We can respond to the growing need of urban environments to feel connected to nature and make all spaces better for living.

## BENEFITS

### DERIVED FROM NATURE

LC light is generated with multiple different types of LEDs combined in a way that recreates the distribution of light spectra found in nature. In addition to having the positive spectral qualities of natural light, the visual appearance of the light field resembles a natural view into the sky or horizon. LC lighting design has been optimized for visual beauty by making the light field dynamic and continuously shifting with infinite colors and infinite resolution.

### SUPPORTING WELLBEING

Light has a strong link to wellbeing, as it regulates our circadian (latin for approximately a day) cycle and our alertness. The right kind of light content, timed correctly, promotes recovery and a healthy sleep-wake cycle. It is recommended to have bright high color temperature light in the mornings and during the day. In the evenings respectively we should avoid the light we need in the mornings and day for a few hours before sleep by shifting to warm color temperatures.

### AUTOMATED AND DYNAMIC

Our lights change dynamically over the day just like in nature. The integrated Sky Player creates the day-cycle automatically for you. Simply choose the sunrise and sunset times according to your preference. The advantage of LC programming is to help control the dynamics: the right light at the right time to support your daily sleep-wake rhythm. LC products can also be manually set to different light scenes such as relaxing light or energizing light to reflect your moods and needs.

# About Natural Light

“In the absence of natural light, an electric light should try and mimic daylight as closely as possible.”

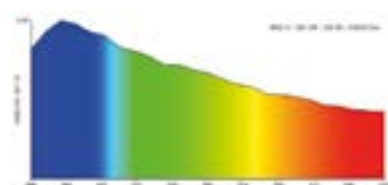
Dr. Steven Lockley, Harvard Medical School

Natural light is essential in the maintenance of our normal physiology and health because it keeps the body's internal 24-hour clock in time.

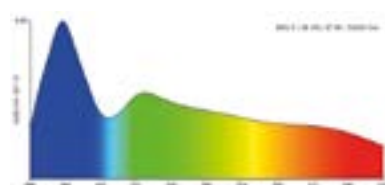
The LC lighting technology is designed to reproduce the spectrum of natural daylight as closely as possible. This is achieved by first measuring the natural spectrum, modelling the physics of light and then transforming it into the advanced light programs that are at the core of each LC product.

## SPECTRA AT MID DAY\*

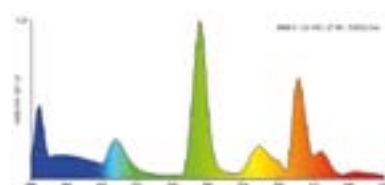
Daylight



LC

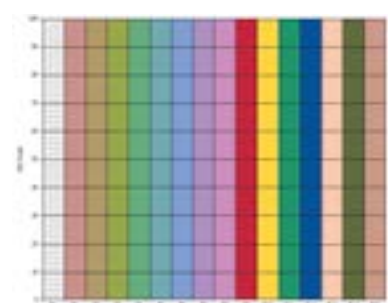


Standard fluorescent

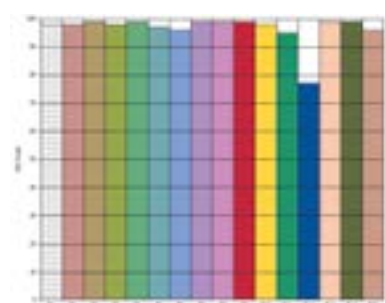


## COLOR RENDERING

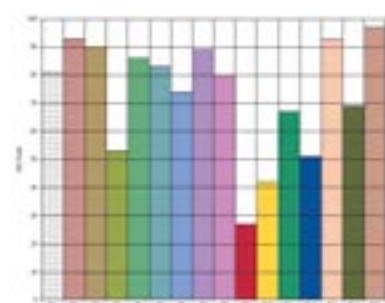
Daylight



LC



Standard fluorescent



\* Please note that the spectrum in LC lighting changes dynamically during the day, controlled by Sky Player.

# Products



# LC SKYLIGHT

LC Skylight is the definitive solution for creating the feeling of a window in the ceiling – without the need for a top floor room or cutting through the roof. It is ideal for underground spaces or rooms with insufficient natural lighting. It brings the feeling of space and openness and brings natural light indoors. There are two versions of Skylight: for recessed or suspended installation.

## SPECIFICATIONS

**TYPE OF INSTALLATION:** General, supplemental light & virtual sky light

**MOUNTING:** Ceiling or wall mount: exposed or recessed

**WIDTH X HEIGHT:** 1200 mm x 600 mm

**DEPTH:** 170 mm exposed Min 220 mm with recess frame

**WEIGHT:** 20 kg

**LIGHT SOURCE:** Light Cognitive LED module (G5)  Made in Finland

**CONTROL:** Sky Player app (iOS or Android), Casambi (Bluetooth wall switch), Dali Type 8

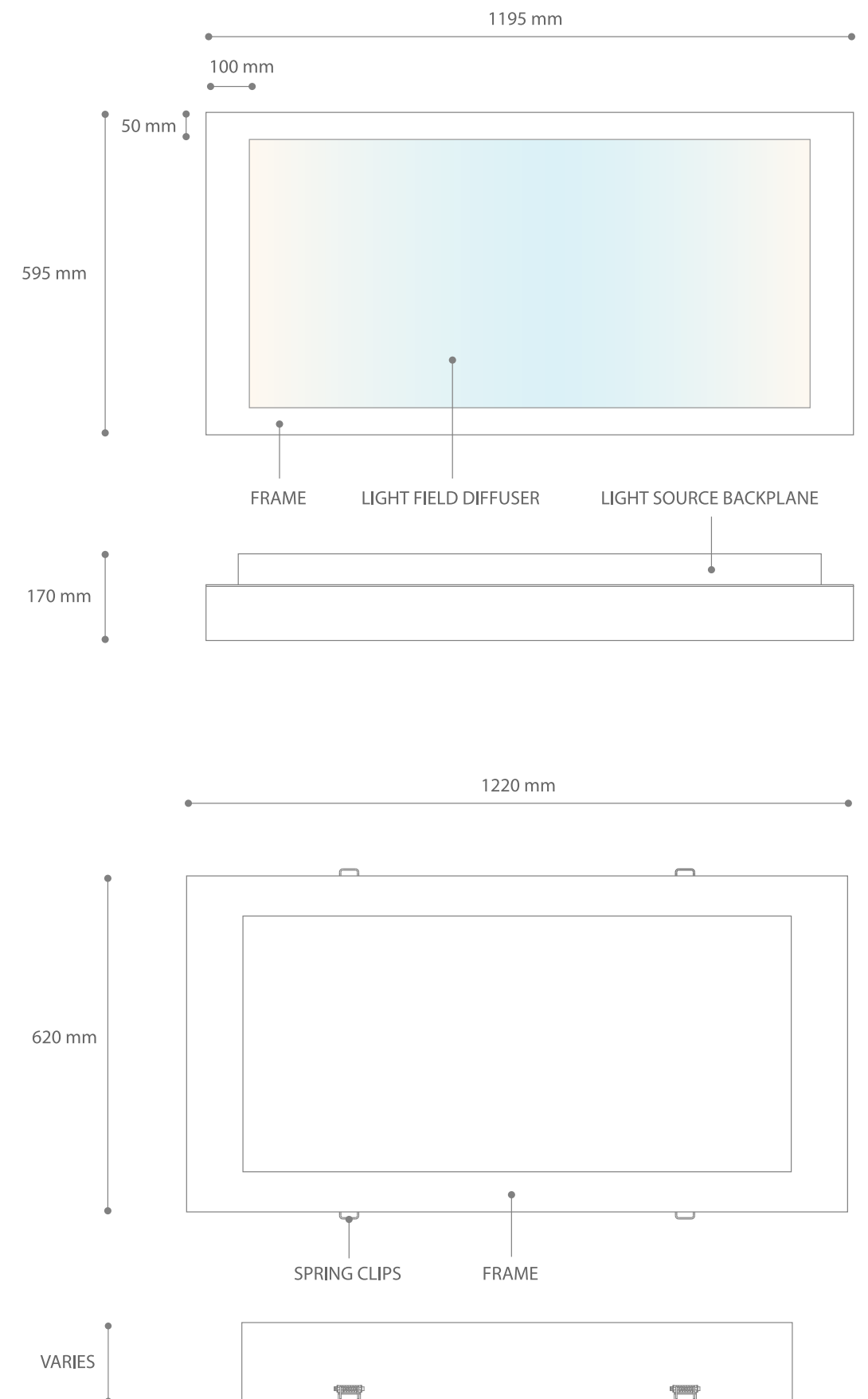
**POWER INPUT:** 100-240V AC 50/60Hz

**MAXIMUM POWER CONSUMPTION:** 110 W

**TYPICAL POWER CONSUMPTION:** 60 W

**LIGHT INTENSITY AT 1 M:** 650 lux

**IP CLASS:** IP 20



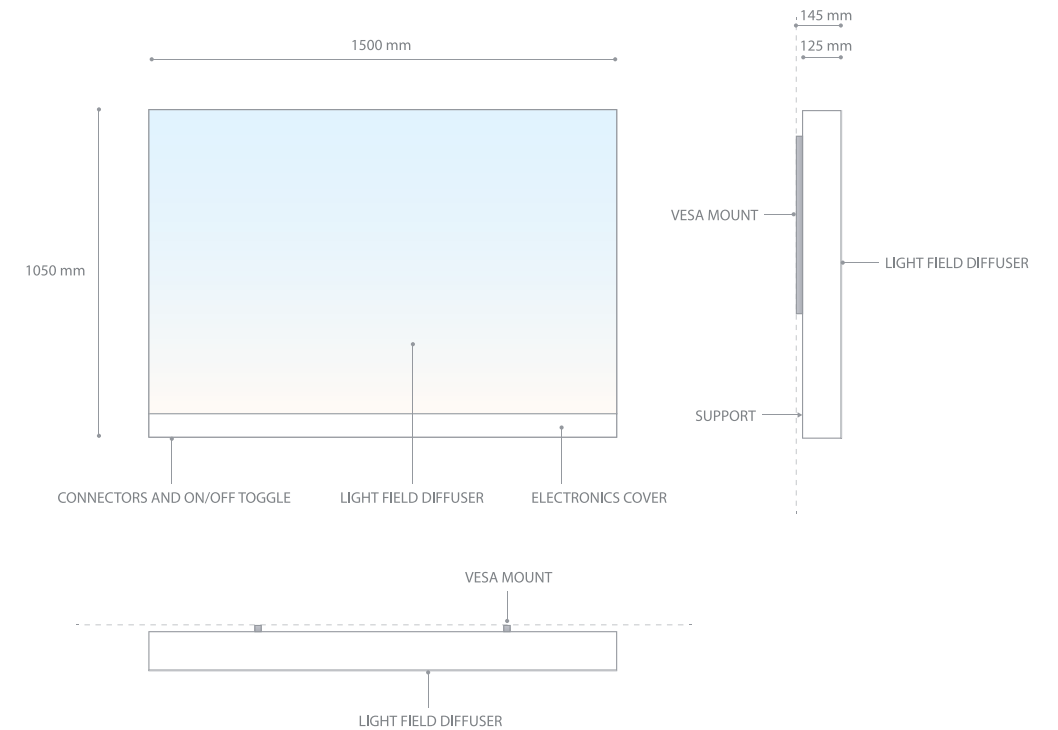


# LC HORIZON

LC Horizon is designed for surface mounting. Its aesthetically pleasing and elegant design is simple to adapt to a variety of spaces, and it creates a pleasant view into the horizon, just like looking out from a skyscraper or an airplane window.

LC Horizon will provide you with a luxury view every day. LC Horizon is optimal for spaces that need additional light which is biologically effective and close to daylight.

It complements your existing lighting, and it can vitalize your day or bring a relaxing warm light towards the evening.



## SPECIFICATIONS


**TYPE OF INSTALLATION:** Supplemental light & virtual window

**MOUNTING:** Wall or stand installation with VESA mount

**WIDTH X HEIGHT:** 1500 mm x 1050 mm

**DEPTH:** 125 mm & floating 20 mm VESA attachment

**WEIGHT:** 30 kg

**LIGHT SOURCE:** Light Cognitive LED module (G5)  Made in Finland

**CONTROL:** Sky Player app (iOS or Android), Casambi (Bluetooth wall switch), Dali Type 8

**POWER INPUT:** 100-240V AC 50/60Hz

**MAXIMUM POWER CONSUMPTION:** 320 W

**TYPICAL POWER CONSUMPTION:** 180 W


**LIGHT INTENSITY AT 1 M:** 2980 lux

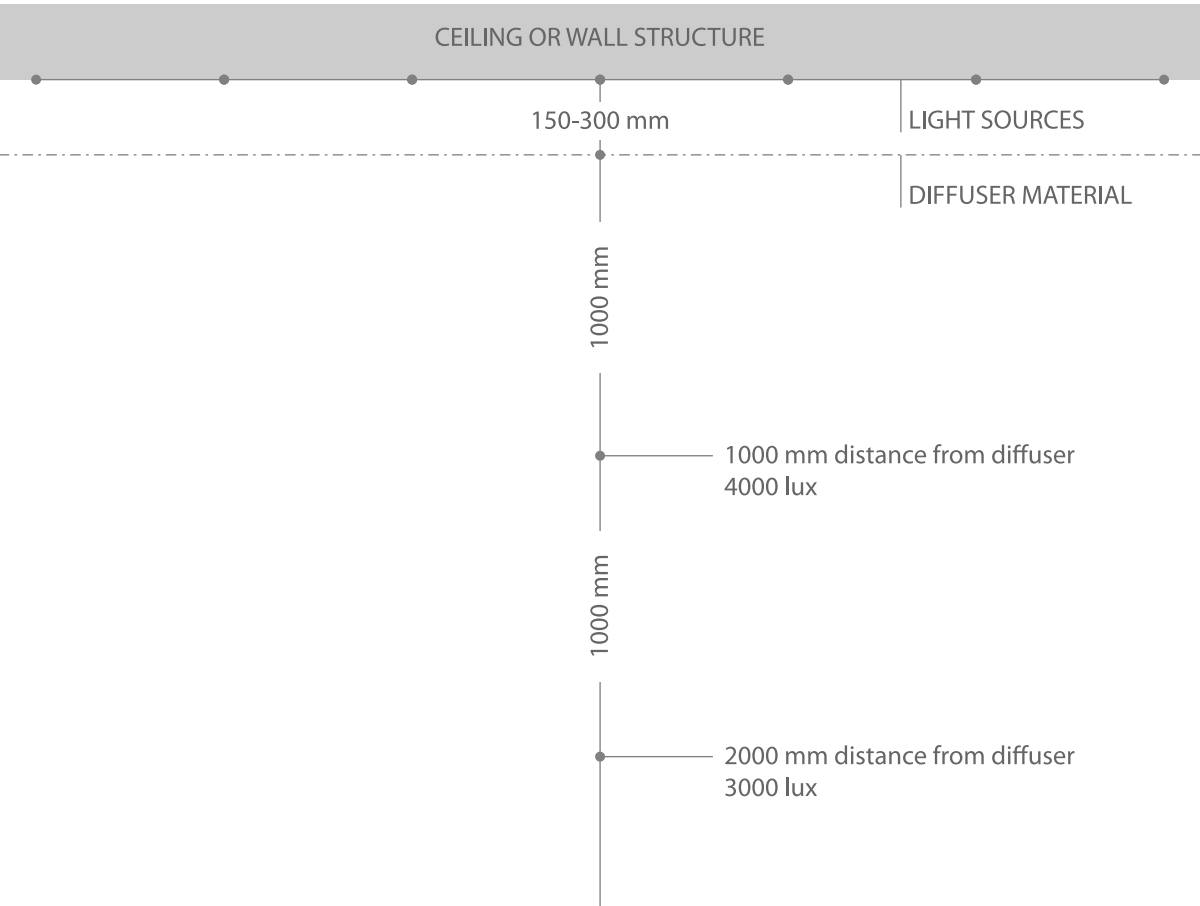
**IP CLASS:** IP 20

# LC LIMITLESS

LC Limitless is a custom solution that offers the widest architectural freedom. LC Limitless enables light fields of any size. Large light surfaces have minimal glare and they are immersive. Like all Light Cognitive products, Limitless is dynamic with all hues of the sky and natural color rendering. Its multiple areas work seamlessly together.

## SPECIFICATIONS

<b>TYPE OF INSTALLATION:</b> General lighting & virtual window/skylight	<b>LIGHT SOURCE:</b> Light Cognitive LED module (G5)  Made in Finland
<b>MOUNTING:</b> Recessed ceiling or wall	<b>CONTROL:</b> Sky Player app (iOS or Android), Casambi (Bluetooth wall switch), Dali Type 8
<b>WIDTH:</b> 50 cm increments	<b>POWER INPUT:</b> 100-240V AC 50/60Hz
<b>HEIGHT:</b> Minimum 100 cm	<b>MAXIMUM POWER CONSUMPTION:</b> 200 W/m <sup>2</sup>
<b>DEPTH:</b> Minimum 15 cm	<b>TYPICAL POWER CONSUMPTION:</b> 100 W/m <sup>2</sup>
<b>AREA:</b> Starting from 6 sqm	<b>IP CLASS:</b> IP 20





# A windowless space transformed: LC at L'Oréal Academy

“The light quality is essential for us, and the high colour rendering index that LC offers is a must. We also need the natural light feel to make the space more inviting as we have no access to natural light through windows.”

Suvi-Tuuli Räisänen, training coordinator

The world leader in beauty, L'Oréal, has a truly global presence in 130 countries across five continents, and the L'Oréal Academy, located in the heart of Helsinki, offers the most innovative education in disciplines such hair styling, colour and cutting.

The L'Oréal space was recently extensively renovated. The premises are mostly underground in a basement area, so lighting was a key and critical factor from the beginning. In addition to a runway for fashion shows, the space includes a colour bar, coffee area, waiting lounge, and styling area.

An impressive 10-square-metre Light Cognitive illuminated ceiling was installed above this runway, providing a glare free lighting surface, perfect for hair styling. No distracting shadows are created, and the 'sky' has a very high colour rendering index, revealing each and every colour faithfully.

The L'Oréal Academy space is aesthetic, functional and supports the wellbeing of the Academy's employees and visitors during long training days.

Light Cognitive fulfilled these requirements by introducing a large light ceiling that truly mimics natural light and makes you forget you are in a basement, creating a space in which users want to work and play.





## New perspectives on wellbeing: LC LIMITLESS at Hotel St. George

The Hotel St. George, opened in Helsinki in 2018, comes with an ambitious concept – expanding the customer experience to include new dimensions and new perspectives on total wellbeing.

It is Light Cognitive's mission to help people live better, whether they need help recovering from the effects of travel or dealing with the Finnish seasons, or simply want to feel rested and refreshed every day. In the words of the team at the St. George Spa: *"A moment with LC lighting is a moment with healing light"*.

Early in the Hotel St. George planning process it was clear that wellbeing would be in a key role.

One of the main features at St. George Care is the LC light wall which greets guests as they enter the spa. LC light is inspired by nature and

clear skies, and the creation of a horizon light wall transforms the windowless space.

Light Cognitive recreates natural light in indoor spaces and the light cycle supports one's 24-hour circadian clock – a compelling idea for the hotel design team. The team was equally impressed by the premium quality of the light as well as by the renowned advisor of Light Cognitive team, Dr. Steven Lockley, an associate professor of Medicine at Harvard Medical School. LC light innovation supports the spa's ideology; St. George Care offers much more than just spa and fitness treatments – it offers an entire way of living.







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