

LIGHT COGNITIVE

Big Sky[®]

Light for Wellbeing.
Derived from Nature.



Our Mission

We are passionate about wellbeing and how technology can help people feel better and achieve more. Big Sky 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

Light Cognitive we believe it is within your reach today. As awareness grows, human centric lighting will support significantly our holistic wellness. We can

respond to the growing need of urban environments to feel connected to

nature.



Big Sky[®] Feel Good Everyday

Big Sky brings energizing blue skies from dawn to dusk, into all spaces, everyday. Big Sky is designed to enhance personal wellbeing and performance, based on a vast body of research and natural light spectral modeling.

Derived from Nature

Big Sky light is generated with multiple different types of LEDs combined in a way that the light spectra are very similar to the spectra found in nature. In addition to having the positive spectral qualities of natural light, the visual appearance of the light field is familiar from nature and resembles a view into the sky or horizon. With Sky Player the light changes over the day just like in nature and the design has been optimized for visual beauty by making the light field dynamic, 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, timed correctly, promotes recovery and a healthy sleep-wake cycle. The main driver is the amount of biologically effective natural light, the color we see in the clear sky, or the lack of it. As a general rule it is recommended to have bright high color temperature light in the mornings and during the day, while the morning hours are the most important. In the evening we should avoid cold hues of light a few hours before sleep, hence warm white light is recommended.

Tunable and Optional Sky Player

All products can be manually set to different light scenes. In addition if users want a dynamically changing light over the day, the Sky Player feature is required. With Sky Player, you simply select sunrise and sunset times, press "play" and let Big Sky play your personal daily cycle.

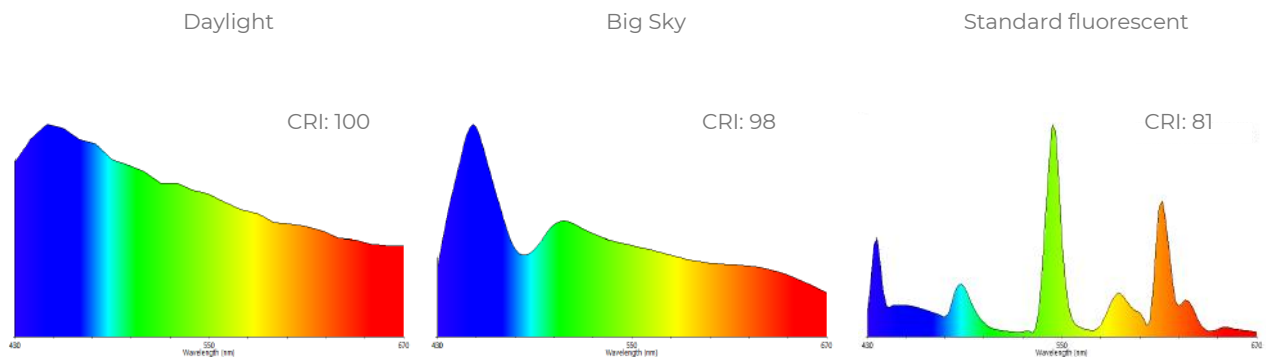
About Natural Light

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

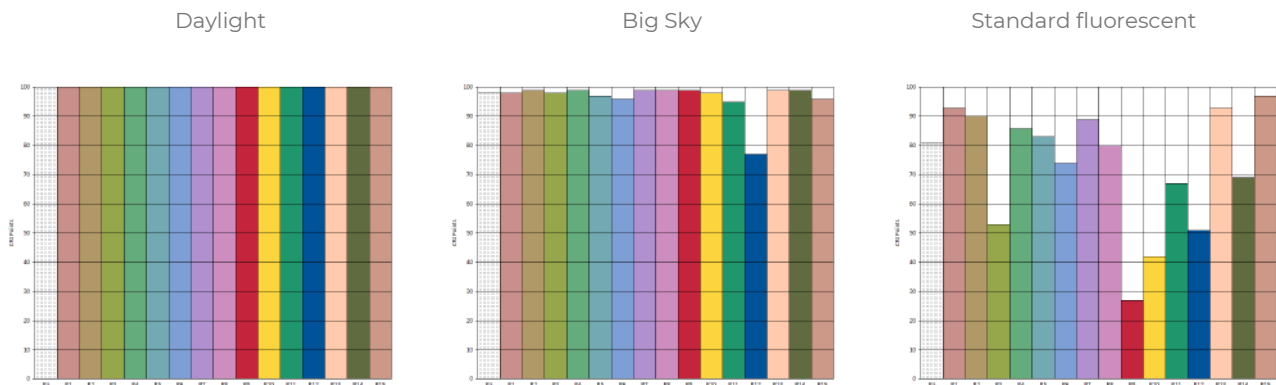
In the absence of natural light, an electric light should try and mimic daylight as closely as possible. Daylight is rich in all wavelengths of visible light. With its peak in the blue part of the spectrum, it is the kind of light that we humans have evolved to be sensitive to.

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

Spectra at mid day *)



Color rendering



*) the spectrum changes minute by minute during the day, controlled by Sky Player.

Products





Big Sky[®] HORIZON

Big Sky Horizon is easy to install on a wall like a painting. Its aesthetically pleasing elegant design is easy 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. Big Sky Horizon will provide you with a luxury view every day. Big Sky 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. It is fully tunable and comes with Sky Player.

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)

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

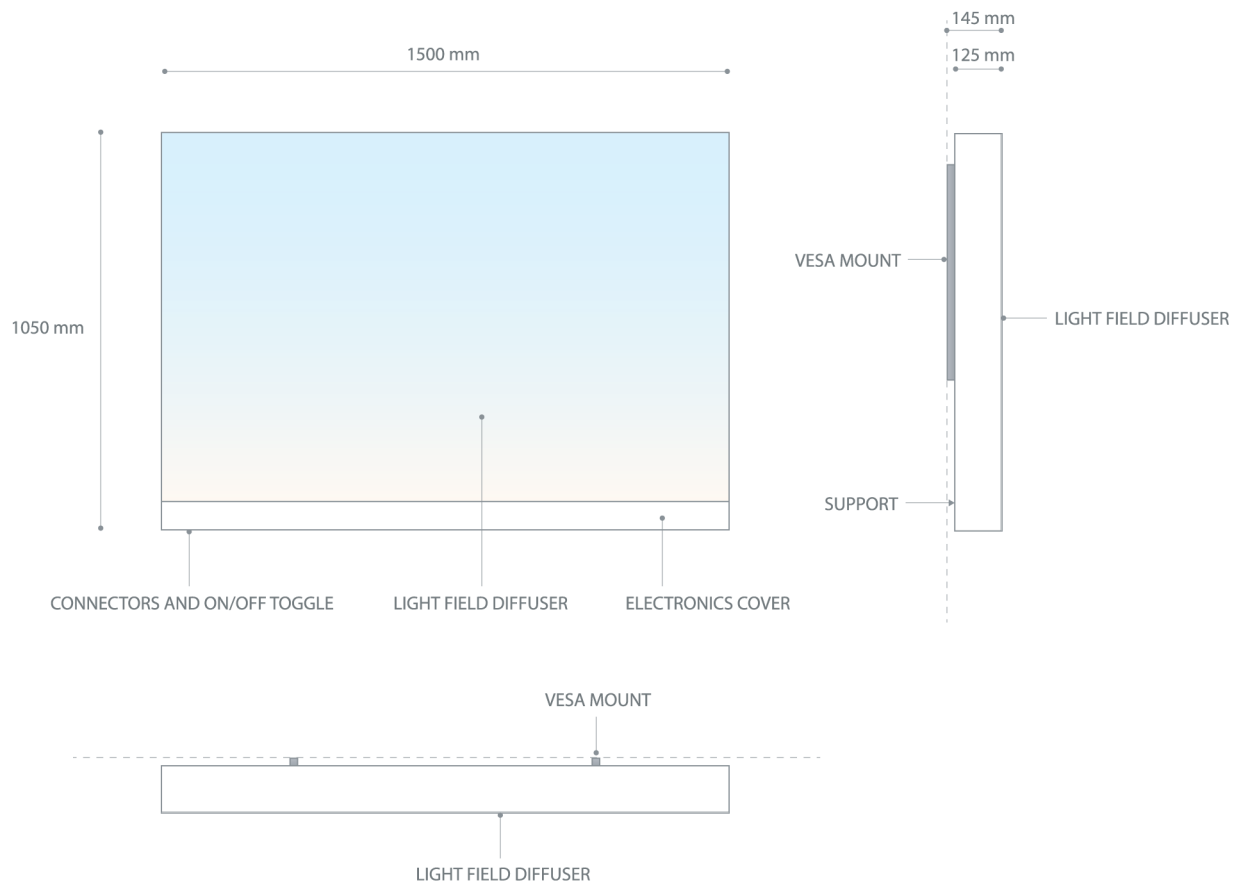
LIGHT INTENSITY AT 1 m:

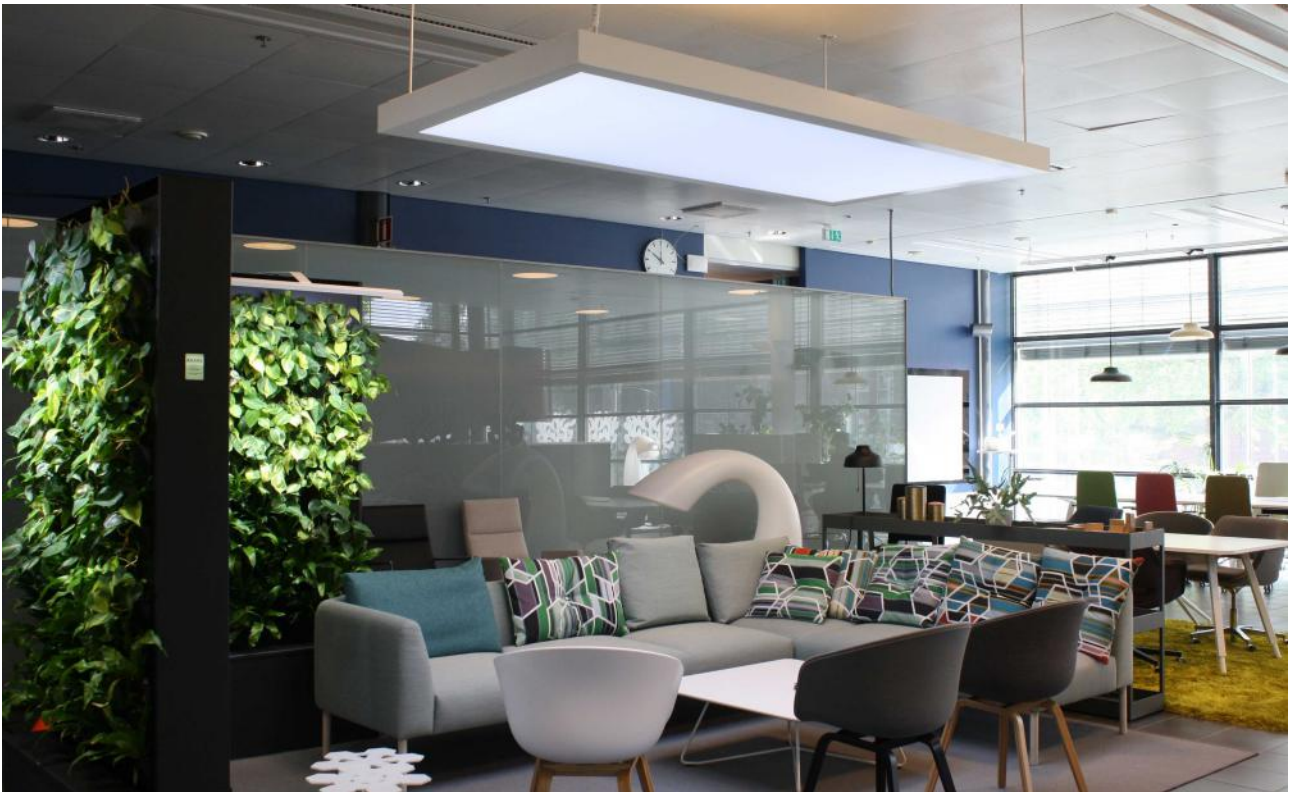
2980 lux

IP CLASS:

IP 20







Big Sky[®] DOME

Attached to the ceiling as a skylight, Big Sky Dome is perfect for creating general light fields. Big Sky Dome generates a sky view upwards into the sky dome and its soft immersive light surface creates a feeling of space. Big Sky Dome is ideal for transforming any space where structural changes are not possible. It is our most compact solution to make you feel like you are under a glass roof on a beautiful day. It enhances well-being, is tunable and available also with Sky Player.

SPECIFICATIONS

TYPE OF INSTALLATION:

General, supplemental light & virtual sky light

MOUNTING:

Suspension from ceiling

WIDTH x HEIGHT:

2120 mm x 1680 mm

DEPTH:

130 mm

WEIGHT:

55 kg

LIGHT SOURCE:

Light Cognitive LED module (G5)

CONTROL:

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

POWER INPUT:

100-240V AC 50/60Hz

MAXIMUM POWER CONSUMPTION:

640 W

TYPICAL POWER CONSUMPTION:

360 W

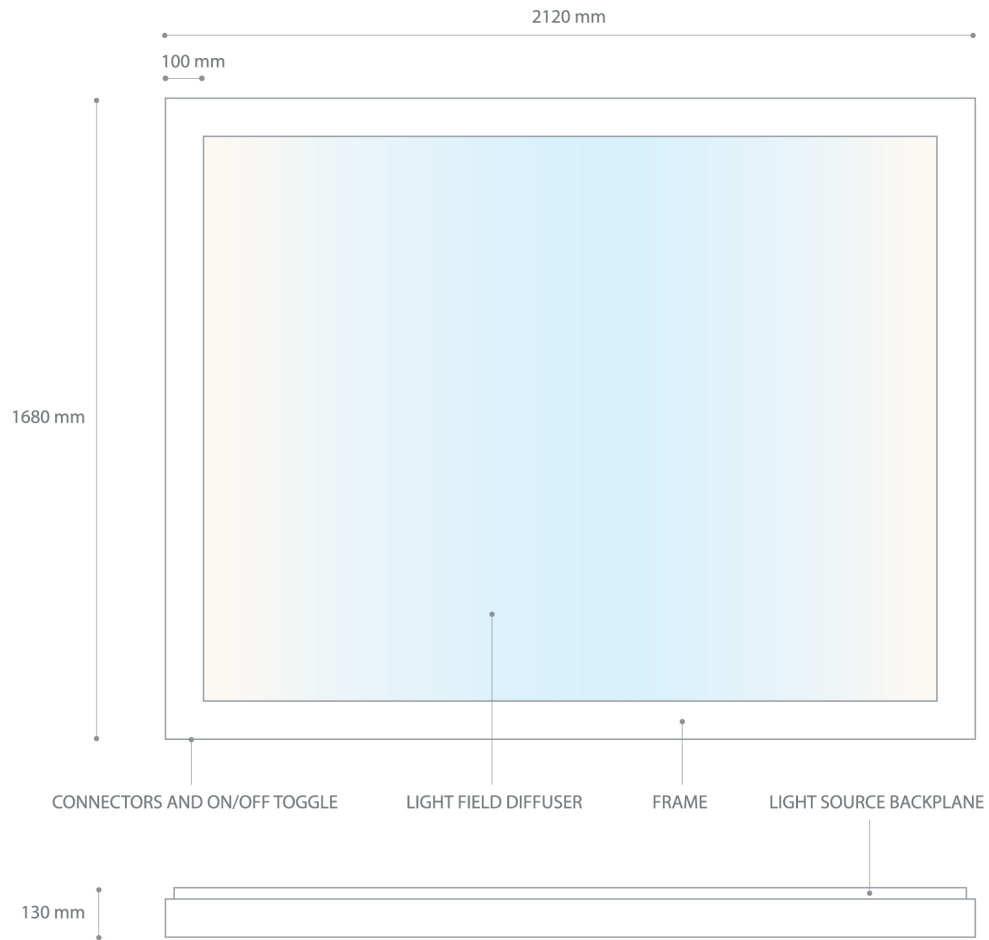
LIGHT INTENSITY AT 1 m:

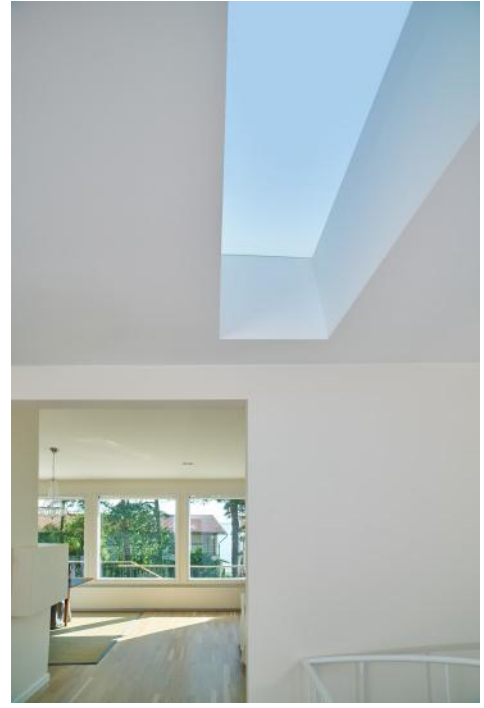
2930 lux

IP CLASS:

IP 20







Big Sky[®] SKYLIGHT

Big Sky Skylight is the definitive solution for creating a feeling of a window through the ceiling - without the need for a top floor room and cutting through the roof. It is ideal for underground spaces or rooms with insufficient lighting. It brings a stunning feeling as if being in a penthouse on a sunny day. There are two versions of Skylight: for recessed or suspended installation. Big Sky Skylight is tunable and available with Sky Player.

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)

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:

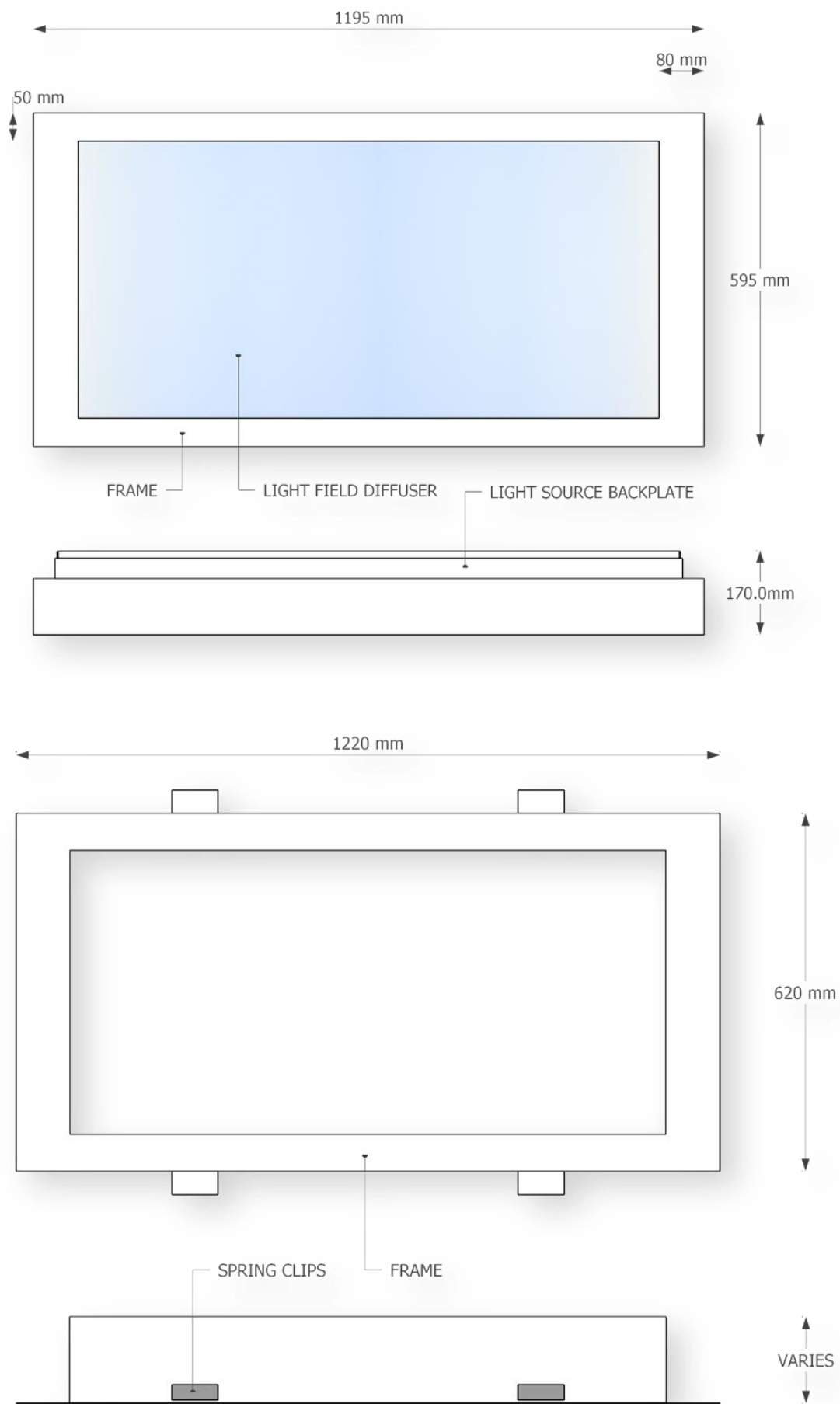
60 W

LIGHT INTENSITY AT 1 m:

650 lux

IP CLASS:

IP 20





Big Sky[®] LIMITLESS

Big Sky Limitless is our large custom solution completely replacing general lighting. Big Sky Limitless enables building light fields of any size, which one can currently only experience in winter gardens or terraces. Large light surfaces have minimal glare and they are immersive. Like all Light Cognitive products, Limitless is tunable with all hues of the sky with natural color rendering. Its multiple areas work seamlessly together and it is also available with Sky Player.

SPECIFICATIONS

TYPE OF INSTALLATION:

General lighting & virtual window/skylight

MOUNTING:

Recessed ceiling or wall

WIDTH:

50 cm increments

HEIGHT:

Minimum 100 cm

DEPTH:

Minimum 15 cm

AREA:

Starting from 6 sqm

LIGHT SOURCE:

Light Cognitive LED module (G5)

CONTROL:

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

POWER INPUT:

100-240V AC 50/60Hz

MAXIMUM POWER CONSUMPTION:

200 W/m²

TYPICAL POWER CONSUMPTION:

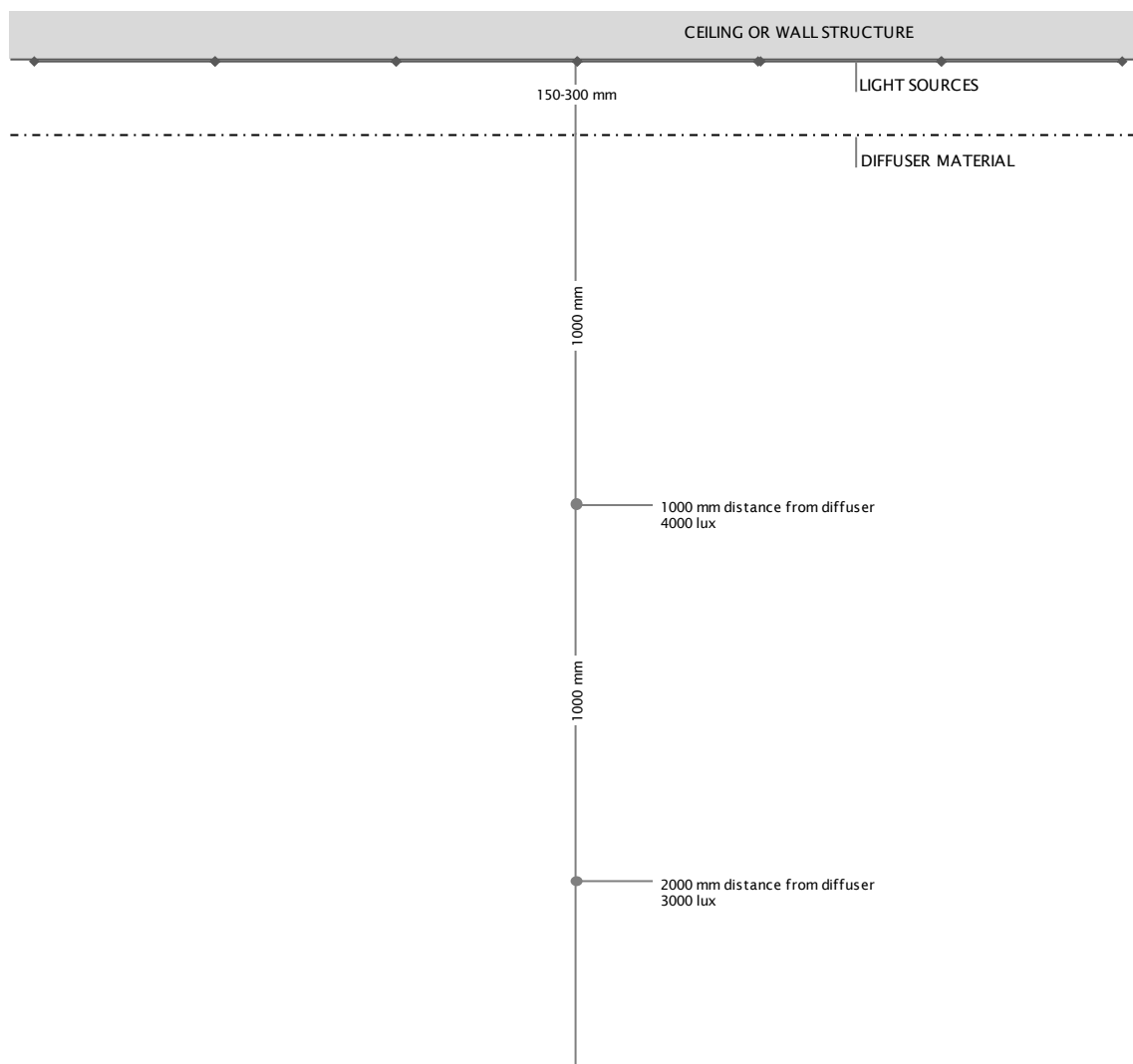
100 W/m²

IP CLASS:

IP 20



STRUCTURAL VIEW





Big Sky[®] HORIZON

Success Story

Supercell is a mobile game developer based in Helsinki, Finland, with offices in San Francisco, Tokyo, Seoul and Beijing. Since its founding in 2010, Supercell has brought four games to the market - Hay Day, Clash of Clans, Boom Beach and Clash Royale.

When planning the lighting for Supercell office the concept was tailored to meet the needs of a vibrant multi-space office located in Helsinki.

Two Big Sky Horizon light panels complement the spacious coffee area and meet the demands of a multicultural and global team – many have welcomed the extra rays of light after having moved to Finland from a very different climate! The light wall situated in the middle of the building brings tunable light to coffee / work area that otherwise would not benefit from windows or natural light. “We see employees continuously gathering around the light to enjoy a break and also to work. We have received very positive feedback from our employees and we are happy with our Big Sky solution”, says Janne Saarinen from Supercell. Big Sky offers excellent light quality and is also tunable for different situations such as energizing morning light and calming evening light. The light program was designed specifically for Supercell employees.

Supercell fundamentally believes in the power of “small”. Being small means you need less management and fewer processes, both of which just make it more fun to work. As a growing Finnish startup Light Cognitive is proud of the vote of confidence of Supercell and is committed to contributing to new work spaces, wellbeing and the spirit of innovation.





Big Sky[®] LIMITLESS

Success Story

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. To quote the spa: "A moment with Big Sky 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 when it came to choosing elements for the spa.

One of the main features at St. George Care is the Big Sky light wall which greets guests as they enter the spa. Big Sky 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. Big Sky 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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