

SOLISCAPE

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UNSTUDIO

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 DELTALIGHT®

THE WAY WE W
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SUCH PLACES.

• Ben Van Berkel

AI - Big Data / Network Responsive / Neurosensitive /
Human Health / SMART Building / COGNITIVE SYSTEMS
Internet of things / Automation of Everything
BLOCK CHAIN / Automated Architecture /
Robotic / Hybridization / Super Building
Sensorial Responsive / Intuitive Control
Digital Revolution / Humane environment
THE UNPREDICTABLE. The AGE OF
AUTOMATION / New Normal
Future - Proving the Future / Self-
learning / Big Data / NETWORK RESPONSIVE
Neurosensitive / HUMAN Health / SMART
Building / COGNITIVE SYSTEMS / Internet of
things / Automation of Everything / Block
Chain / AUTOMATED Architecture / Robotic
HYBRIDIZATION / Super Building
Sensorial Responsive / Intuitive Control
Digital Revolution / HUMANE environment
The UNPREDICTABLE.
The AGE OF AUTOMATION / NEW NORMAL

"As what we design today is normally built in three to five years' time, we're used to working with the future in mind. However, the future is changing faster than ever before. To ensure we don't contribute to a waste of materials and investment that is no longer sustainable or appropriate in today's world, we develop strategies that not only anticipate the future, but possible changes to that future as well."

UNStudio



In a world that is in a state of constant evolution, where cutting-edge technology brings new ways of interacting and experiencing, we know that the physical need for buildings to live and work in will remain. Rather than staying static, buildings are more and more becoming a reflection of what humans crave in their daily lives and a response to many new economic, environmental and social movements. Office buildings have throughout the years gone through many transformations. From the large private offices to the private, enclosed workstations to the recent opening up of the office, encouraging collaborative work. Headquarters have dematerialized over time, now being split between the office, the home and third places.

Only happy employees are efficient employees. The right lighting is crucial in that process, as light affects almost all vital processes in the human body, and also has an impact on people's performance, health, safety and sense of well-being. Quality characteristics of light, as well as options to adapt lighting conditions to the environment and personal needs, are of decisive importance.

"We believe that human health and wellbeing form the impetus for a new era of design, and that the incorporation of new and emerging technologies in the built environment plays a central role in this. It is not the hardware or the software itself that interests me, but how it can be applied within architecture and urban design to improve our daily lives."

Ben van Berkel







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 DELTALIGHT®

UNStudio and Delta Light
have joined forces to endeavour to improve
the wellbeing of people in our rapidly
changing work environments, where
human health and the war on talent have
become a primary focus for employers.
Together we are developing Soliscape,
an extremely versatile and flexible system,
specifically designed to create
user-centric environments.





TOOLBOX



ADAPTIVE
DESIGN



SENSORIAL
RESPONSIVE



HUMANIZING
SPACES

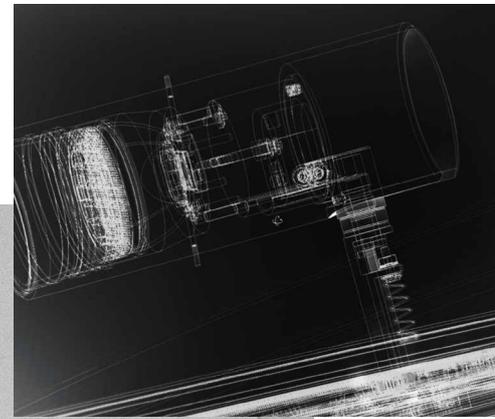
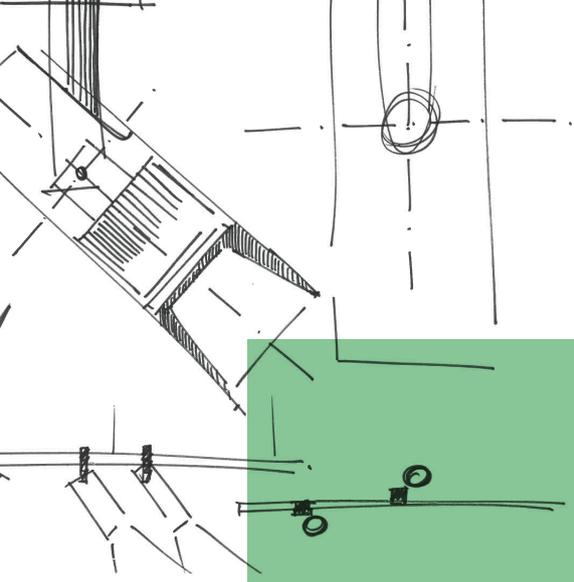


COMPREHENSIVE

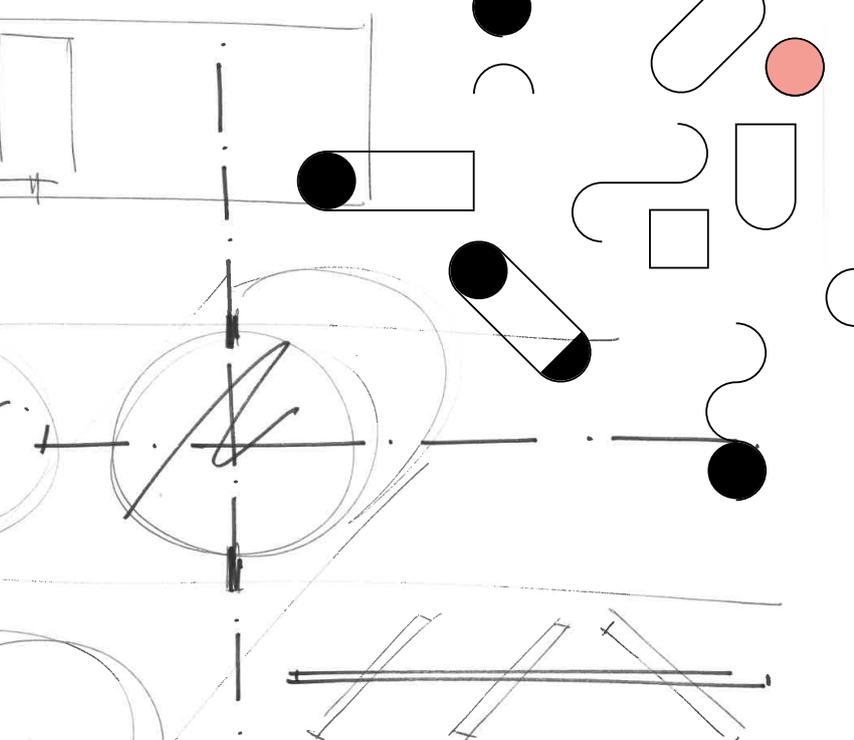
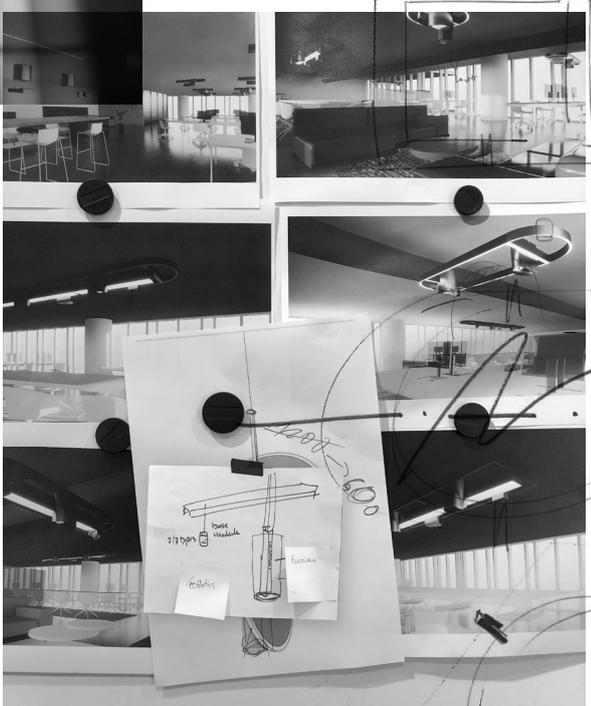
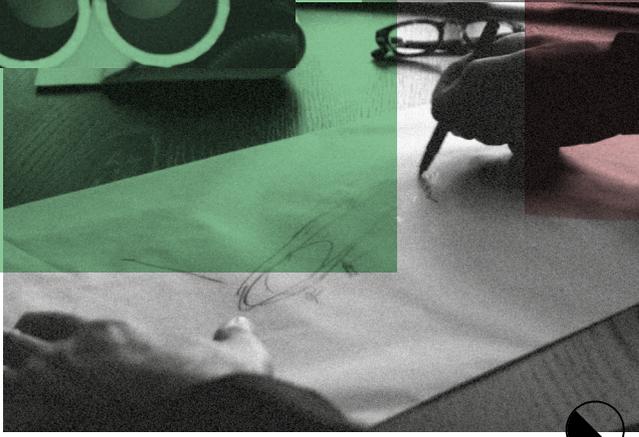
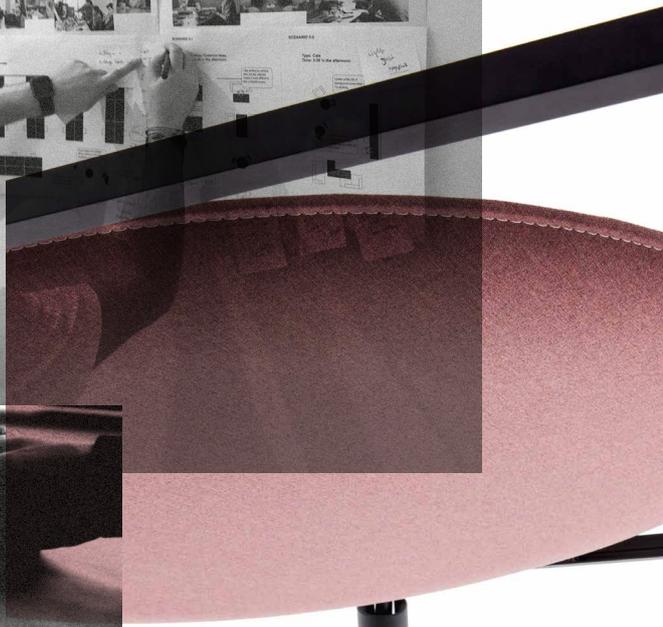


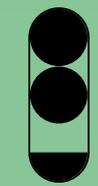
SUSTAINABLE





UNSX.





FROM
ARCHITECTURE
TO PRODUCT
DESIGN AND FROM
RESEARCH TO
INNOVATION;
WE ALWAYS AIM
TO FIND NEW WAYS
TO DESIGN FOR A
BETTER REALITY,
WITH THE **USER**
CONSTANTLY AT
THE **CENTER** OF
EVERYTHING WE
CONCEIVE.

In consultation with Delta Light, Soliscape has been developed by UNSx, UNStudio's in-house multidisciplinary team.

UNSx used an iterative design thinking process that alternated between divergent and convergent design steps. The key aims were to humanize spaces and make them more adaptable. The heart of the process therefore involved research to identify the user-centric problems the system should solve, and the resulting functions and services it could offer. Various insights were uncovered concerning the use of light in space with respect to the needs of the end users, the designers and the facility managers. These insights were then turned into workable solutions.

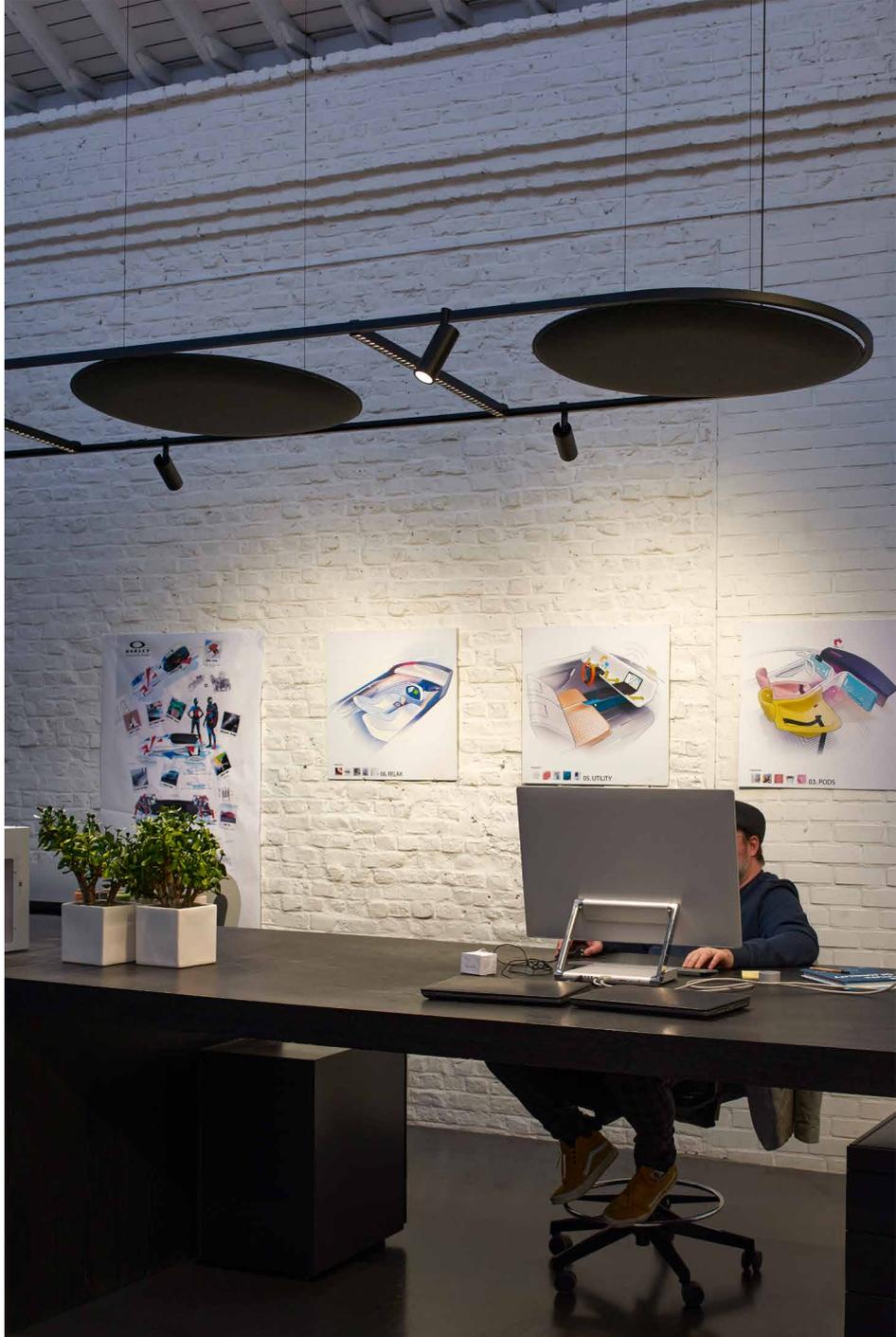
"The co-creative nature of the process enabled us to draw on the best expertise from both companies and to bring this know-how into the final system design. The process involved different facets of the system, from the design of the product to the technology required to create the adaptive experience, and the design of the services connected to the Soliscape system."

Filippo Lodi, Head of Innovation at UNStudio









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SO IT BECAME PART
PROCESS TO DEVELOP

DESIGNERS ALWAYS WANT
THE DESIGN LOOKS
THEY WANT TO ADAPT IT
TO WHAT WE DESIGN.
AS PART OF THE DESIGN
PROCESS DEVELOP A TOOLBOX.

Filippo Lodi

SOLISCAPE

PROFILE



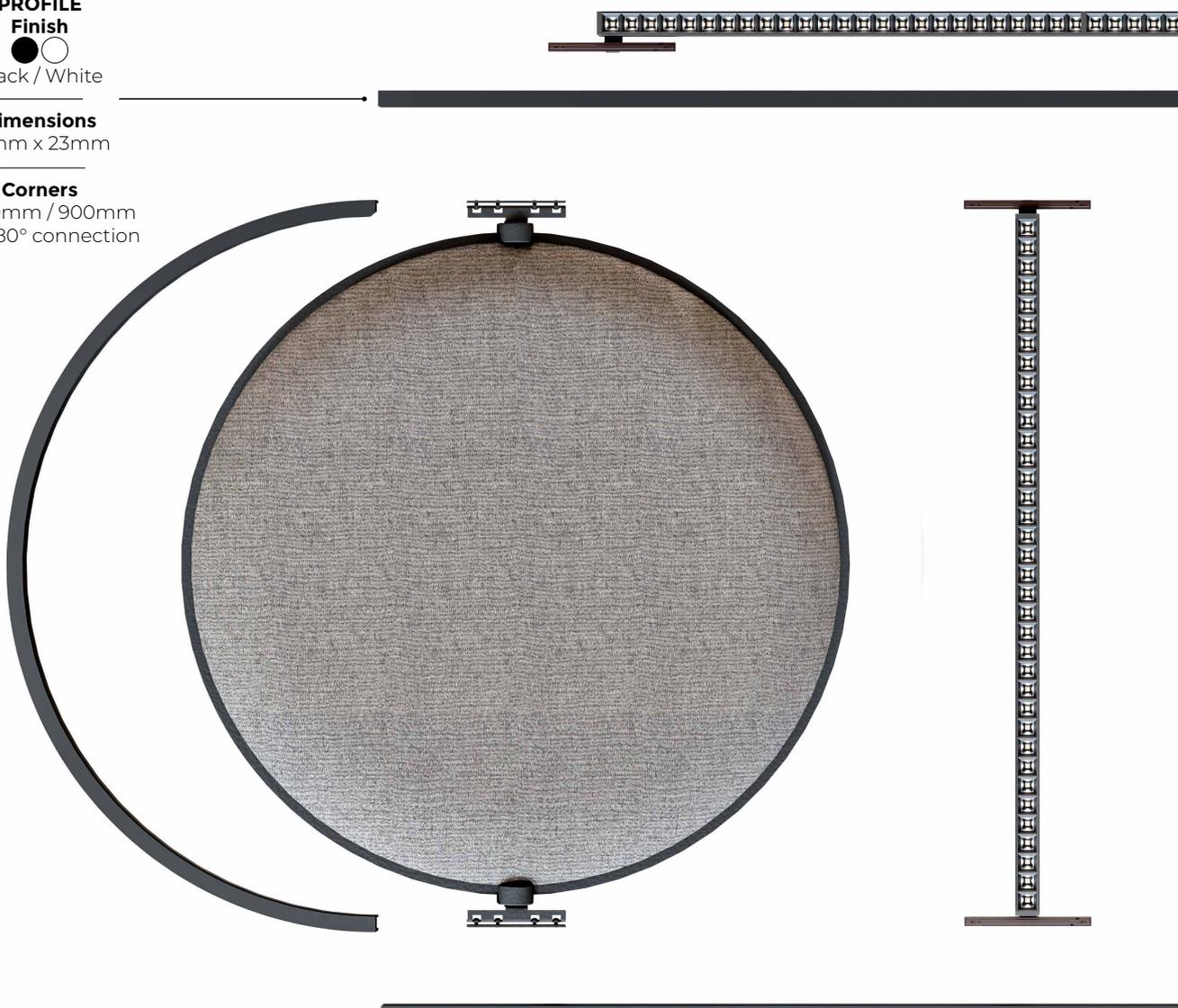
Black / White

Dimensions

19mm x 23mm

Corners

Ø 600mm / 900mm
90° / 180° connection



SOLI-52 / SOLI-66



Black / White / Gold Coloured

Power

10,3W – 1280lm / 20,5W – 2500lm

Beam angle

18° / 20° / 30° / 45°

Colour Temperature

2700K / 3000K / Soft Dim / Natural Light Technology (NLT)

Control

MDL / DALI Dim / Q Dim

Accessories

Honeycomb / Softening Lens / Linear Spread Lens / Spread Lens / Glass SBL



TOOLS

SOLI-FORM

Finish



Black / Black-Matt Gold / White-Black / White

Light effect

Down: 10,2W up to 21,6W – 1670lm up to 3540lm

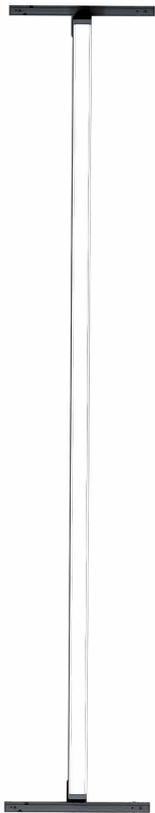
Down-Up: 13,6W up to 28,2W – 2230lm up to 4720lm

Colour Temperature

3000K / Melanopic Light Technology (MLT)

Control

MDL / DALI Dim / Q Dim



SOLI-LINE

Finish



Black / White

Light effect

Down / Up

Power

11,8W up to 23,5W
1250lm up to 2500lm

Colour Temperature

3000K

Control

MDL / DALI Dim / Q Dim



SOLI-SHHH

Dimensions

Ø600mm / 900mm

Finish



Light Grey / Dark Grey
(other colours upon request)

Sound Absorption

Class A (ISO 354:2003 / EN ISO 11654)

Tiltable

to your preference



SOLI-SENSE

Finish



Black / White

Functionalities

Presence detection
Light Intensity
Temperature analysis
Humidity analysis
Air quality analysis
Voice Control

Control

DALI Dim / Q Dim



SOLI-SHHH

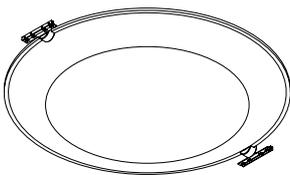
For additional optimization of room acoustics, Soliscape enables you to combine user focused lighting with Soli-Shhh panels. The sound-absorbing panels can easily be added or removed, positioned flat or tilted, guaranteeing noise reduction to office spaces and meetings rooms in the most aesthetical way.

These sound-absorbing panels are created to solve the problem of indoor reverberation to guarantee the best acoustic comfort and wellbeing.

Absorbing the noises in the field of typical speech frequencies (between 500 Hz and 2000 Hz)

These sound absorbing panels can be applied to facilitate for specific functionalities, from acoustic to decorative and illuminous atmospheric scenes.

Soli-Shhh panels can be used as an add-on to the Soliscape toolbox or as a separate sound absorbing element, be it with or without additional spot modules mounted around the circle.



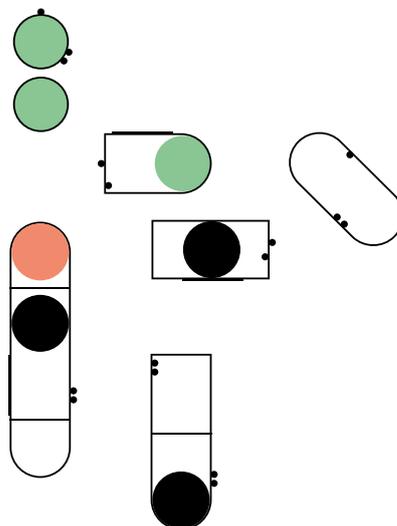
PROFILE

The slender Soliscape profile is the structural base to customize your Soliscape configurations. With dimensions reduced to 19mm x 23mm, it is minimalism at its purest, allowing you to create unique "graphical" configurations. In contrast to common track or profile suspensions, all modules are plugged in from above, maintaining a smooth appearance from below.

The linear elements can be combined with the signature Soliscape curved or 90° corners, upgrading its surroundings with dynamism and attitude.



SHAPE YOUR SOLISCAPE

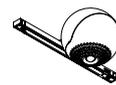


SOLI-SENSE

The Soli-Sense module is key in the user-centric approach of Soliscape, as it captures relevant data from its surroundings that serve to interact with the modules of the system or – by extension – with the complete Building Management System.

Detecting presence, adapting the light intensity based on incoming daylight, adjusting the HVAC system according to the temperature, humidity and air quality in the room to obtain an optimal user environment are some examples.

By integrating all modules in our Smart Q environment, Soliscape becomes the basis that interacts with all smart systems in its surroundings.





SOLI-52 / SOLI-66

The Soliscape spot modules enable you to illuminate any part of the room where Soliscape is applied. The hybrid optics guarantee a precise beam, as the lens controls and shapes the light that is reflected from the high-quality reflector. The spot modules have a colour rendering of $CRI \geq 90$, or come in a $CRI \geq 95$ version with Delta Light's unique Natural Light Technology (NLT), state of the art LEDs with a spectrum that very closely matches that of the sun. That includes a broader spectrum, which is preferable for the human eye and brings out the vibrant colours, and an enhanced cyan energy, boosting the human activity. As so, helping to control the circadian rhythm to further stimulate the human well-being. The Soliscape spot modules makes its connection on the top of the profile, keeping a very clean and refined appearance without compromising on flexibility and performance.



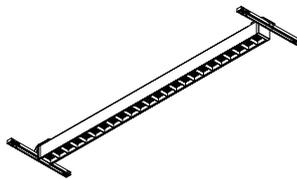
SOLI-FORM

The core strength of the Soli-Form is a combination of Delta Light's Melanopic Light Technology (MLT) with high efficient louvre optics. The reflector is designed to perfectly embrace every individual LED module in a way to boost the efficiency of the complete luminaire, while maintaining a high level of visual comfort, as every LED dot is shielded from being looked into.

The Soli-Form profile breaths refinement in all its aspects. Its slender dimensions of 28 by 28mm weld in seamlessly with the slim dimensions of the Soliscape. The human aspect is the central topic for Soli-Form. It offers LEDs that help control the circadian rhythm via a unique spectrum meant to stimulate activity. The high quality LEDs provide a very natural white colour with a higher amount of energy in the cyan region, helping you to be active during the day and encourage sleep at night.

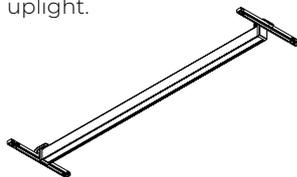
Despite its minimalistic design, Soli-Form does not compromise on performance. With a delivered lumen package downwards of up to 3045lm per meter, Soli-Form is perfect for illuminating task areas like office desks or reception counters. Within the same dimensions one can also opt for a down-up version, enhancing the sense of space and creating a uniform glow on both vertical as horizontal surfaces, which leads to a reduced contrast and relaxes the eye.

The Soli-Form profiles can be positioned alongside the structure or across, connecting both sides.



SOLI-LINE

Apart from task lighting and focused accent lighting, Soliscape offers linear solutions for general lighting as well. In line with the complete set-up, the design is minimalist and straightforward. Installed in line with the profile or connecting two opposite profiles, these straight lines are finished of with a sandblasted optic to diffuse the light around the room, both as down- or upright.







SOLISCAPE IS A
SYSTEM THAT GOES
BEYOND SMART
TECHNOLOGY.
IT IS A **RESPONSIVE**
SYSTEM.





RESPONSIVE SENSORS

With Soliscape **UNStudio** and **Delta Light** aim to create sensor-based environments that respond, learn and adjust to people's daily activities, taking smart buildings towards responsive architecture through a system that allows people intuitive control and personalisation of space. Soliscape offers different sensing options enabling the creation of user-centric spaces: light in service to wellbeing.

"Looking at lighting as just a basic necessity is an outdated approach. Work environments in particular require extra attention, where user-centric lighting has proven to considerably boost productivity and wellbeing. With Soliscape we even take it to the next level, not just by adding acoustic elements, but even more so by using behavioural parameters to further upgrade comfort."

Peter Ameloot





"The beauty of the Soliscape design is that you can integrate it with other functions, like acoustics and new technology."

Ben van Berkel

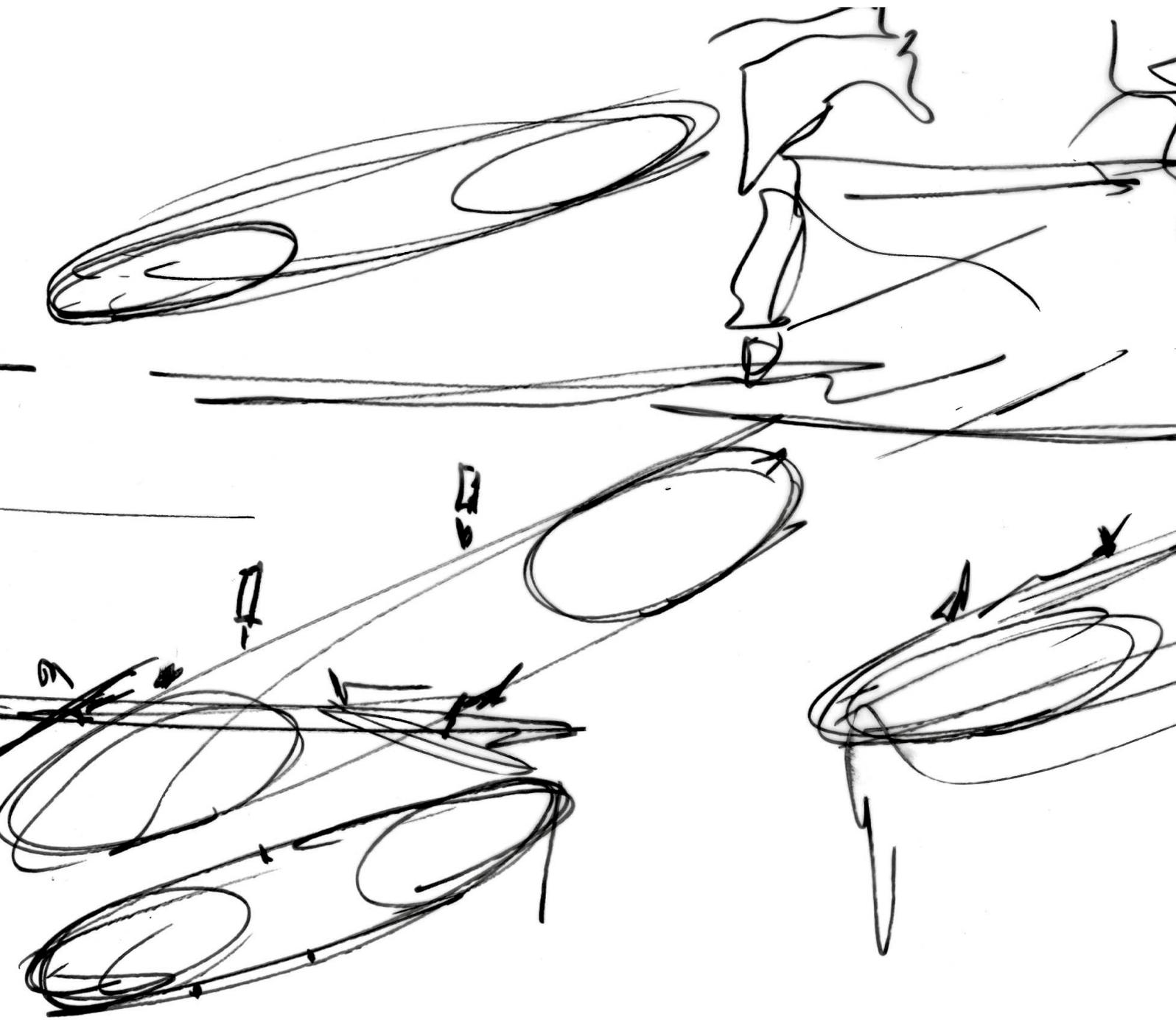




Photo Els Zweerink



BEN VAN BERIKEL

How do you see the new normal of combining working from home and in the office, in the context of a creative design process?

It became clear to us very quickly what the pros and cons of this hybrid working situation are with respect to the creative design process, and it's something we have been aware of for quite some time. Namely, that while solitary work enables better concentration, innovation occurs through knowledge exchange and this works better in group situations. Digital communication tools are great for meetings etc., but for truly spontaneous brainstorming, people need to be together in a group situation. This was also clearly evidenced in our collaboration with Delta Light.

UNStudio has several large scale office projects in its portfolio. How do you see the future of offices changing in the coming years?

In terms of the different spaces required, collaboration, group work and breakout spaces will continue to be extremely important, but there will also be a renewed understanding of the need for spaces that enable concentration and individual work. With more people working remotely, offices will also have to cater for an increase in digital communication within teams, and provide more dedicated spaces for this. Also, with the possibility that hybrid work scenarios will be the new normal, flexi desk use will become more common. But offices will also become 'smarter'. Not only through sensor gathered data relating to energy and space use, but also in terms of providing healthy, personalised environments. Air quality, light, acoustics etc., will become extremely important environmental factors in the design of future offices.

Do you expect any remarkable changes in the integration of lighting in future offices?

Yes. There is a growing understanding of how important light is to our health and sleeping patterns, and while daylight is essential, it is usually not sufficient inside buildings, especially in the darker winter months. I expect lighting – like office buildings in general - to become much smarter, much more personalised, versatile and flexible. In the future I expect to see more lighting systems like Soliscape that are digitally enhanced, activity, behavior and sensor-based; that are responsive and connected to other automated processes and building management systems. I also expect greater attention to be paid to the quality and colour of lighting, in order to help to control the circadian rhythm and influence the productivity and wellbeing of the people working in the building. That said, I don't believe that these new lighting systems will be limited to offices. I think they will become commonplace in a variety of different spaces.

What are the key priorities for UNStudio in the coming 3 to 5 years?

We have been very focused on designing for health for a number of years now and the recent pandemic has demonstrated how important that focus really is. But health is not limited to physical factors alone, it also encompasses psychological and social wellbeing. So community building on both a building and a city level is always a facet of our designs and will continue to be so. Sustainability and circularity – the health of the planet – is also a priority, but so are challenging issues such as housing shortages and densification. An added fascination I have is how we can incorporate new and emerging technologies to find the best solutions for all of these challenges. It is not the hardware or the software itself that interests me, but how it can be applied within architecture and urban design to improve our daily lives; how we can use the digital to improve the analogue.

Which projects in your pipeline are you particularly looking forward to and why?

All of them, for different reasons. We are working on a number of large-scale projects which I think are really going to be spectacular, but also on a number of cultural projects that I am very excited to see completed. It is also going to be fascinating to see how the Brainport Smart District in Helmond develops, especially as that is a project that both UNStudio and UNSense are involved with. We are also developing a number of very interesting products. But even so, I always say that the project I am most excited about is my next one, because that really is the case. I'm always most excited to see what's coming next.

How Our Workplaces will Look, Post-Corona

How will Covid-19 transform our modern working life, and what does this mean for the future of offices? In 2020, many of us saw our societies shift to a digital world practically overnight. For decades, our lives have been increasingly moving into the online realm, but the global pandemic has dramatically accelerated the transition towards a digital economy. Post-corona, society will continue on this path.

For the adult population, our work lives have been one of the most-affected sectors. Remote working is currently the norm in most white-collar industries, and many predict that the future of work will be a combination of remote setups and office-based time.

Many companies have also already announced their backing of a change in work patterns, with Twitter one of the first companies to proclaim that it would never expect staff to come back to the office full time. Such declarations may have been sparked by the sudden move to widespread home working, but they are not temporary. Even after vaccine programmes started to be rolled out, Unilever, one of the UK's largest companies, also announced that its workers would never be expected to return to their office desks full-time. In fact, only about one in 10 companies in the US expect all employees to return to their pre-pandemic work arrangements, according to a new survey by the National Association for Business Economics. Meanwhile in the UK, it is predicted that the amount of people regularly working from home will double from 18% pre-pandemic to 37% post-pandemic.

While this shift to hybrid working lives is seemingly abrupt, it was in fact a long time coming.

For decades, experts were questioning the benefits of the classic cubicle-style office space, and many companies have experimented with alternative working environments and patterns to try to create healthier and happier workplaces. From open office layouts to breakout spaces, hot-desking, co-working venues and shorter work weeks, the way we work was slowly changing.

While many wonder whether the pandemic marks the death of large corporate offices, we believe it actually presents an opportunity to reimagine these spaces and make our workplaces more dynamic than ever.

We are now heading into a new era of design, one heavily focused on the health and wellbeing of people and our planet. Looking specifically at workplaces, this will see a transition from designing for efficiency to a more holistic approach where inclusion, equity, resilience, sustainability - and most importantly health - are key drivers in the design.

How could this look in practice?

Technology Will Be Core

"The post-COVID era will be shaped more definitively by technology than any other force in the global theatre today," the World Economic Forum states.

For decades, our societies were already becoming more digitised, with advancements in cloud computing, artificial intelligence, 5G and big data propelling us further along the technological track in recent years. But while the digital revolution has already permeated most facets of our lives, the same cannot be said for within the built environment; the industry is still yet to extensively adopt the use of technology and data as a way to positively impact how we design and build.

It was for this reason that in 2018 we launched our sister arch tech company UNSense. Its mission is to explore how we can use technology as a design tool to improve quality of life in cities, creating places that are sustainable, humane and healthy.

UNSense's current project, 100 Homes, which is part of the Brainport Smart District in the Netherlands, aims to result in the 'smartest neighbourhood in the world'. It will effectively be a 'living lab', where new systems, processes and services are tested and residents play an active role in the development of their own community.

On another level, our UNSx unit, UNStudio's in-house innovation think tank and experience lab, is also exploring how to apply technology to make renovating existing buildings a more sustainable process.

Through an EU-funded project called BIM-SPEED, our team is part of a consortium of companies researching how through building information modelling (BIM), in which a digital representation of a building is created, it could be possible to determine the smartest and most efficient ways to renovate existing structures.

With most of the existing building stock in the EU having reached the age for renovation, finding ways to update them in more sustainable ways is of crucial importance, particularly as the construction industry is one of the biggest contributors to carbon emissions in the world.

Tailored for Wellbeing

In 2015, the University of Twente and CBRE conducted an extensive study into the relationship between people's working environments and their health, wellbeing and ability to perform. Among their findings, they discovered that seemingly simple design features such as access to plant life and optimal lighting can significantly boost cognition, performance and spirits.

In relation to light alone, the study found that more than 70% of people felt more energised and happier as a result of good lighting in their office. When measured in terms of productivity, this translated to a 12% improvement in work performance.

Knowing the impact that environmental factors including light, sound, scent, air quality and temperature have on our health and wellbeing, offices of the future will incorporate smart technology that adjusts to the user's ever-changing needs and activities.

One such example is Soliscape (sound and light-scape), a highly flexible lighting solution that is the result of a new collaboration between UNStudio and Delta Light. This innovative lighting and acoustic system uses sensors to determine the optimum conditions for the wellbeing of those using the space, thus digitally enhancing the interior environment to suit their needs.

Due to its adaptable configuration possibilities, the system can also be used in hotels, hospitality, retail and public spaces, and customised to best



THE FUTURE OF OFFICES.

a manifesto by UNStudio







suit the daily needs and programming of each location.

This focus on wellbeing was also one of the main drivers behind our design for the new HQ campus for Czech software development company JetBrains, located in St Petersburg.

For this project, we applied a holistic approach to the design based on our years of research into optimal work environments and the positive impact these can have on the health, wellbeing, creativity and therefore, productivity.

As such, the central design element of the new JetBrains campus will be a grand atrium where all of the senses will be engaged. A striking element of this steeped indoor courtyard is the biophilic design, in which we have filled the space with nature and light, bringing the outside in.

Here in the heart of the campus, community will be fostered, communication encouraged, knowledge exchanged and creativity bolstered.

Mixed-Use Buildings

Aside from technological advancements, the flexibility of buildings will also be crucial for them to be able to withstand such global shocks as a pandemic. For office buildings to remain relevant and usable, they need to be multifunctional.

With many predicting that the future of office work will be a hybrid model, buildings that only serve a singular purpose as a place of work are fast becoming outdated.

Around the world, we have numerous constructions currently underway for mixed-use buildings that feature combinations of work, housing, culture, retail, hotel and education spaces, and that are flexible enough to be adapted to suit the changing needs of their users over time.

A prime example of this is the new Booking.com Headquarters in central Amsterdam, which is one of the largest urban projects in Western Europe. We designed the campus to be a lively environment where people can meet, inspire, live, work and play. The aim is to create a positive experience for all users: from

the city's residents who will use the public space and retail facilities, to the tenants who will live in the residential building and the young Booking.com workforce.

FOUR Frankfurt is another key exemplar. Located on the site of a former Deutsche Bank building, which had remained unused for 45 years, this major development will see a 'City for All' created in the heart of Frankfurt. The new vibrant urban quarter will bring together a healthy mix of work, living, relaxation and recreation, with large public spaces and incorporated subsidised housing.

At least 3,000 people are expected to work in the new neighbourhood, while about 1,000 people will live there. Apart from apartments and offices, the complex will also include catering, retail, hotels, local shops, a children's playground and adventure areas.

Redefined Cities

The potential permanent uptake of hybrid working models could also have a profound impact on how our cities function. This presents new opportunities to reimagine how our cities are designed.

According to the McKinsey Global Institute, more than 20% of the workforce could work remotely three to five days a week as effectively as they could if working from an office.

"If remote work took hold at that level, that would mean three to four times as many people working from home than before the pandemic and would have a profound impact on urban economies, transportation, and consumer spending, among other things," its researchers said.

On an urban scale, such a change in work patterns can allow for central business districts to be transformed to accommodate more housing and cultural sites, and residential areas to be adapted to include more places to work. It could also allow for ideas such as the '15-Minute City' to really take hold. Developed by Professor Carlos Moreno at the Sorbonne in Paris, the concept, also known as the 'polycentric city', means a city of little villages. Within it, everything a person needs should be located within a 15-minute walk or cycle from your home, which would in theory reduce the density of city centres.

A hub-and-spoke model for offices is also emerging, with some large companies looking to spread their workforce across more locations. This approach would see them keep their HQ in urban centres, but have smaller hubs, likely in the form of co-working spaces, situated in the suburbs or in nearby cities to enable employees to work closer to home.

If the volume of office commutes is also cut down as a result of new working models and lifestyles, it also gives urban planners a prime opportunity to make our cities greener. With people travelling shorter distances and spending more time in their local area, some streets could be transformed into gardens and infrastructure for bikes and priority for pedestrians increased over cars.

With the transformation of our work lives, our cities and the buildings within them will also change, but for the better, with our physical and mental health, along with the health of the planet, being the driving force behind the current revolution in architecture and design.

UNS
UNSTUDIO





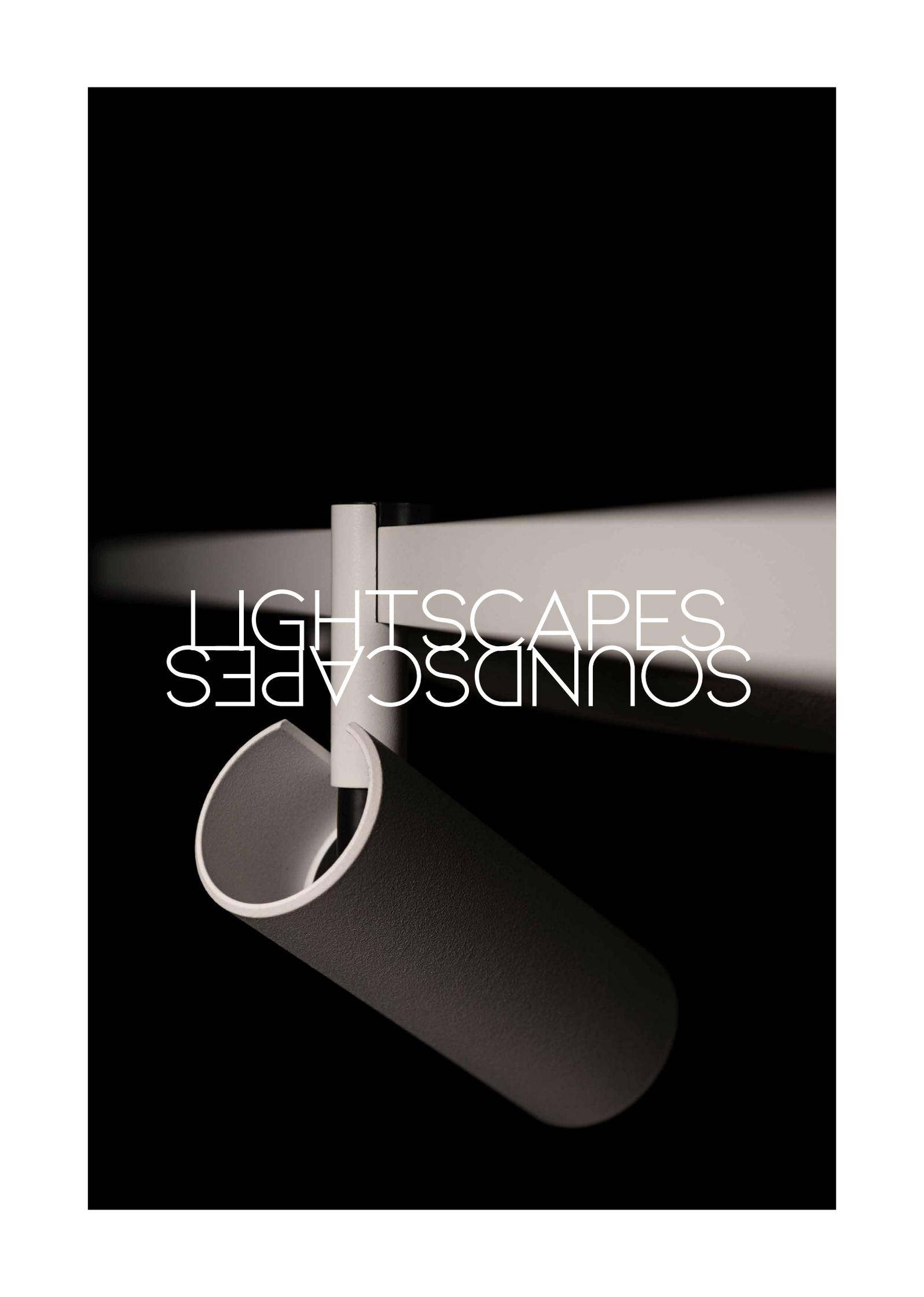




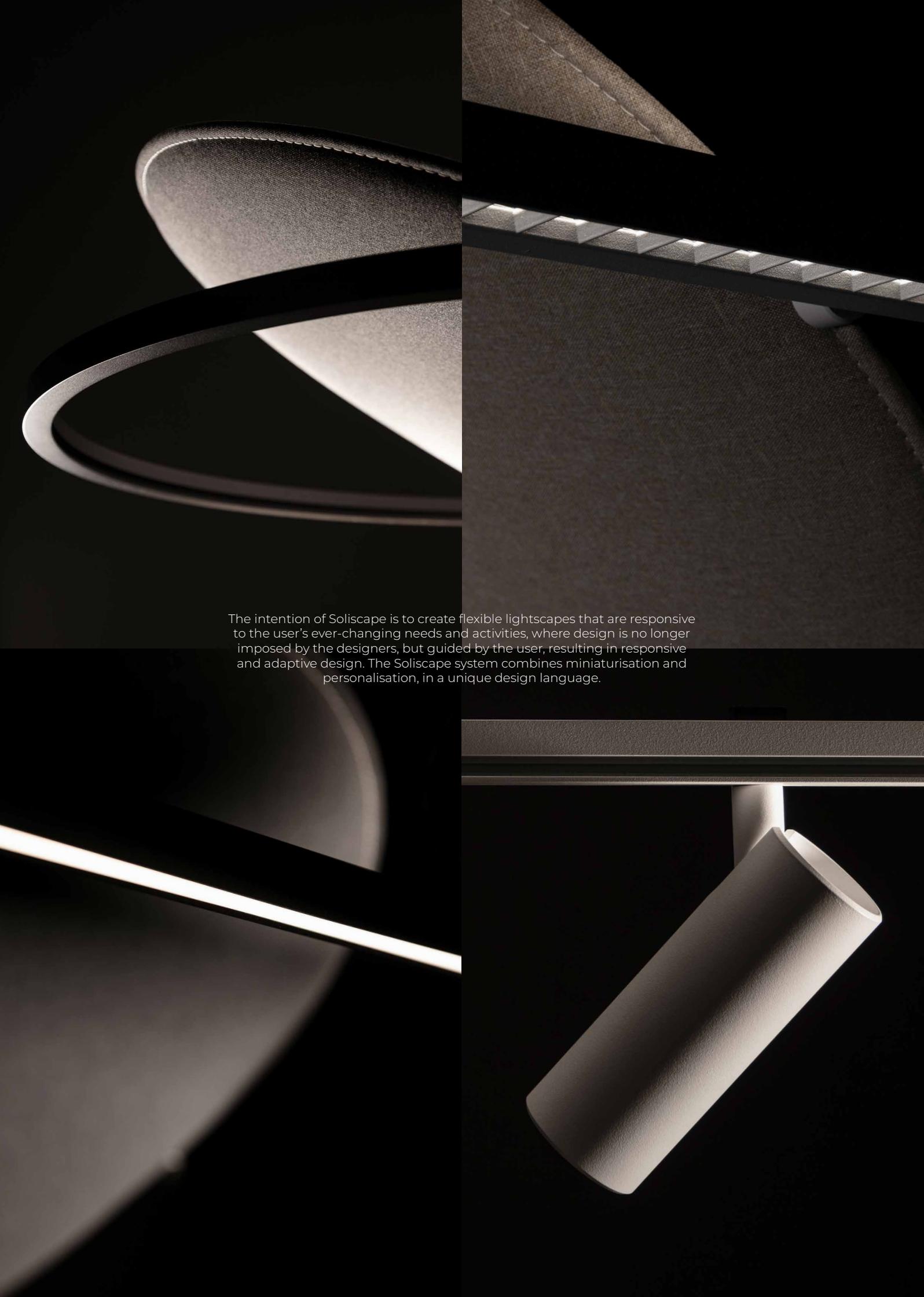
BOTH THE UN
DELTA LIGHT TEAMS
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THE DIFFERENT
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William De Boer
Associate / Product designer, UNStudio

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ANELS CAN MOVE,
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LIGHTSCAPES
SOUNDSCAPES



The intention of Soliscape is to create flexible lightscapes that are responsive to the user's ever-changing needs and activities, where design is no longer imposed by the designers, but guided by the user, resulting in responsive and adaptive design. The Soliscape system combines miniaturisation and personalisation, in a unique design language.

Soliscap combines individual functions into one all-encompassing system, offering a more **affordable and efficient** tool to work with. Aside from the affordability of the single component, affordability is created through the **scalability** of the system, where products couple with services.

Soliscap has basic framing elements, but allows for a variety of complementary circular materials to expand its look and feel. More than 60% of the material in the acoustic panels comes from recycled PET bottles, however different materials can be used within the system to facilitate specific functionalities, from acoustic to decorative to atmospheric. Furthermore, controlled and **smart** lighting contributes to the overall energy efficiency of the building.

SOUNDSCAPES
LIGHTSCAPES









CASES

We are presenting 4 cases with Soliscape configurations, demonstrating the versatile, adaptive and responsive nature of the system.

"The ability of Soliscape to connect with other automated processes of a building can really make an important difference, both for the user and the owner. If the surrounding systems allow to connect, Soliscape can make that happen."

Peter Ameloot

Managing Director, Delta Light



OPEN OFFICE.



Scenario 1

Late night, only 2 persons left in the office.

Lighting

Uplight and downlight on both desks to full power.

Integrated sensing & control:

Presence detection sensing detects activity and provides illumination to meet the defined lux levels.

Daylight sensing guarantees that the required lux levels are reached on the active desks.

Soliscape connects with the HVAC system to provide zonal heating / cooling and ventilation.

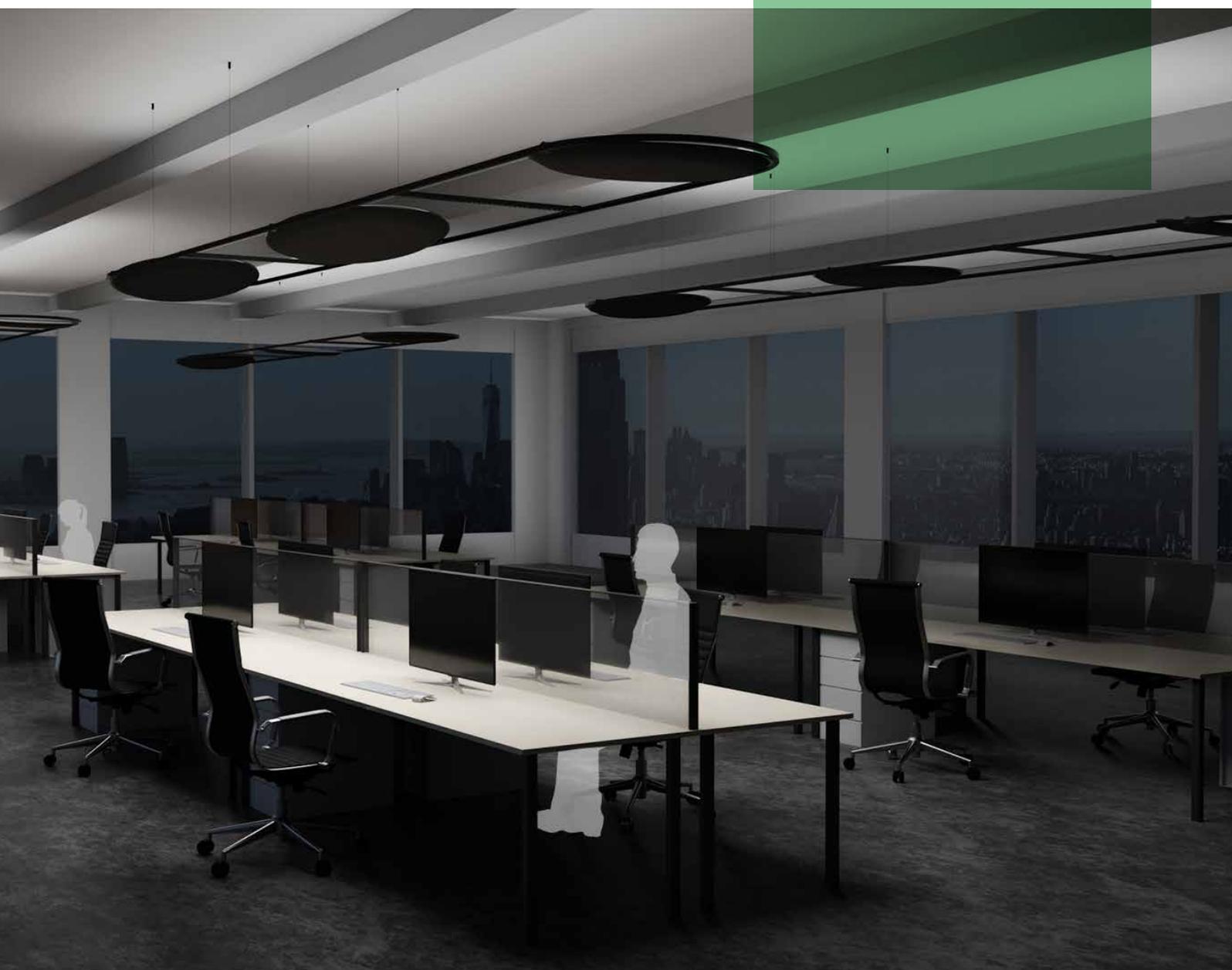
Product configuration 4 Soliscape compositions of

4 x 3m linear Soliscape profile

2 x 600mm diameter round curves

3 x Soli-Shhh panels

2 x Soli-Form Down-Up profiles positioned perpendicular to the profile





Scenario 2

Early morning, dawn-dark outside, with 2 people sitting at the same desk.

Lighting

Soli-Form uplight above the desks, Soli-Form downlight only where the seats are taken. The Melanopic Light Technology (MLT) helps control the circadian rhythm via a unique spectrum meant to stimulate activity.

Integrated sensing & control:

Presence detection sensing detects activity and provides downlight illumination only where people are active. At the same time uplight is provided to create a pleasant and comfortable work environment.

Daylight sensing guarantees that the required lux levels are reached on the active desks.

Soliscap connects with the HVAC system to provide zonal heating / cooling and ventilation.



►
Scenario 3

Sunny mid-day, all seats are taken.

Lighting

Uplight and downlight are dimmed to reach 500lux on each desk, close to or away from the windows.

Integrated sensing & control:

Presence detection sensing detects activity and provides illumination to meet the defined lux levels.

Daylight sensing guarantees that the required lux levels are reached on the active desks.

Window blinds are automatically lowered where sunlight is detected.

Soliscap connects with the HVAC system to provide zonal heating / cooling and ventilation, based on data captured by air quality, humidity & temperature sensors.



▲
Scenario 4

End of day, all seats are taken.

Lighting

Uplight and downlight above all desks to full power.

Integrated sensing & control:

Presence detection sensing detects activity and provides illumination to meet the defined lux levels.

Daylight sensing guarantees that the required lux levels are reached on the active desks.

Soliscap connects with the HVAC system to provide zonal heating / cooling and ventilation, based on data captured by air quality, humidity & temperature sensors.

DIRECTOR'S OFFICE.

Product configuration 1 Soliscape composition of

2 x 3m + 2 x 2m linear Soliscape profile

2 x 600mm diameter round curves

2 x Soli-Shhh panels

3 x Soli-Form down-up profiles positioned perpendicular to the profile

6 x Soli-52 module 20°, NLT



Scenario 1

Director alone at his desk, dusk early evening

Lighting

NLT Soli-52 aimed at the art and shelves at 50% of the power, with spotlight on the desk at 30% of the power. Natural Light Technology (NLT) enhances the vibrant colours of the paintings and boosts the circadian rhythm.

The Soli-Form modules only provide general ambiance with uplight at 100% of power. Spotlights above the lounge area off.

Integrated sensing & control:

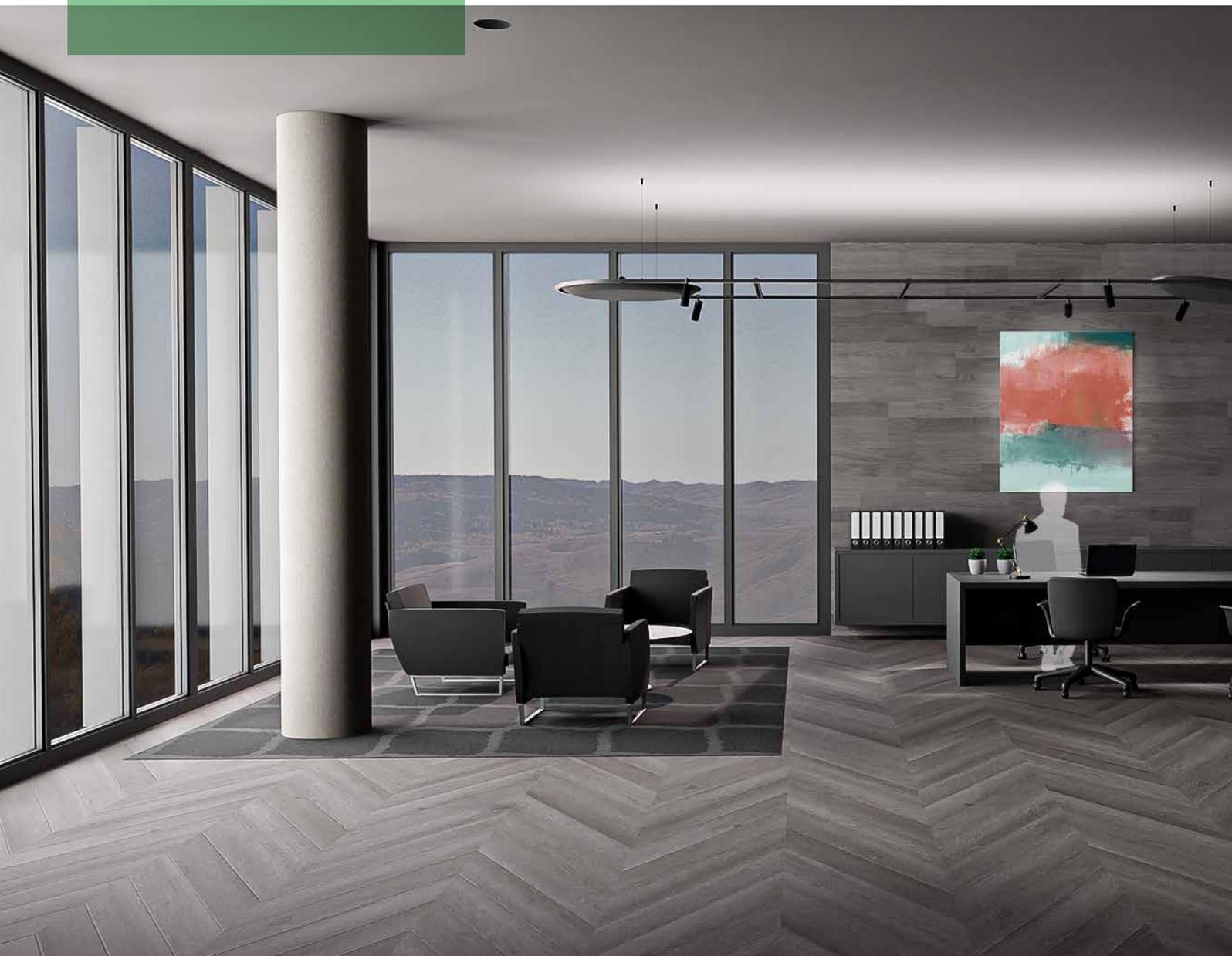
Daylight sensing in combination with presence detection guarantees that the required lux levels are reached on the active desks. This can be overruled by activating a programmed evening work scenario.

Soft Dim is activated to provide a warmer light.

The wireless music system is activated via Soliscape and connected voice control.

Presence detection sensing will automatically detect when the director leaves the offices, and switch to a nighttime scenario.

Soliscape connects with the HVAC system to provide ideal heating / cooling and ventilation.



►
Scenario 2

Director at his desk in conversation with 2 colleagues, morning.

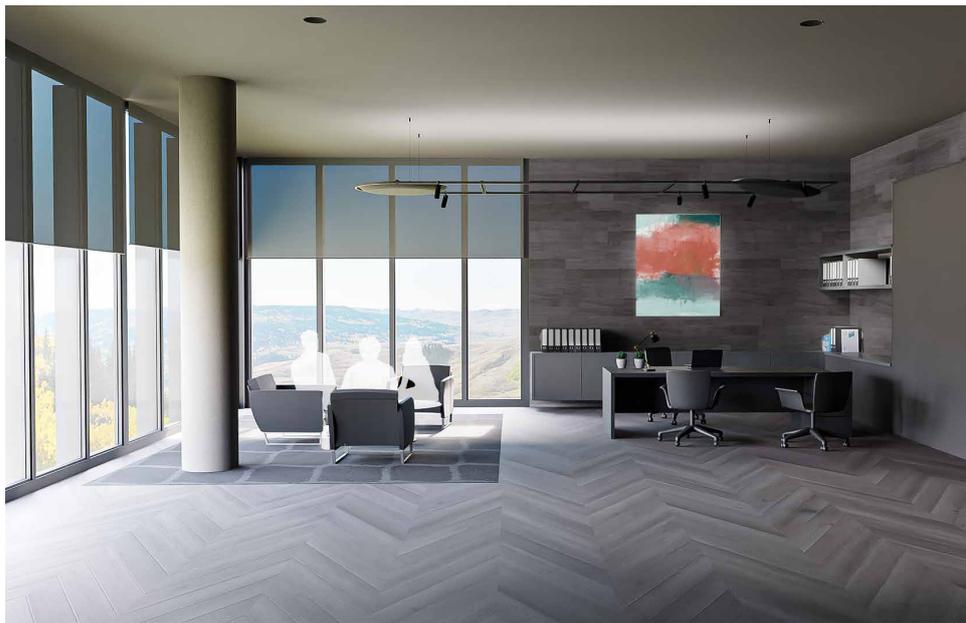
Lighting

Spotlights on art and shelves are at 100%. Uplight with the Soli-Form profiles on at 100%. Spotlights on desk on at 100% of the power. Spotlights above the lounge area off.

Integrated sensing & control:

Daylight sensing in combination with presence detection guarantees that the required lux levels are reached on the active desks.

Soliscap connects with the HVAC system to provide ideal heating / cooling and ventilation



▲
Scenario 3

Director and 2 clients in an informal talk in the seating area, afternoon.

Lighting

Spotlights on art and shelves on at 100%. Soli-Form uplight on at 100%. Spotlights on desk off. Spotlights above the Lounge area on at 100%.

Integrated sensing & control:

Window screens are automatically lowered as sensing detects too much incoming sunlight.

Presence detection recognizes activity and adapts lighting scenario as required.

Soliscap connects with the HVAC system to provide ideal heating / cooling and ventilation.



Scenario 2

3 team members going through a presentation on the monitor

Lighting

No uplight, Soli-Form profiles dimmed to 20%, sufficient to take notes on the desk.

Integrated sensing & control:

Soliscaple is connected to the calendar of the meeting room. The system can prepare the room to meet the pre-set ideal temperature and conditions.

—
Via voice-control the Soliscaple lighting switches to a programmed presentation mode.

—
Presence detection sensing will switch off the lighting when the room is empty.



Scenario 3

1 person explaining at the whiteboard to 2 people at the table.

Lighting

Soli-Form uplight dimmed to 50%, Soli-Form downlight dimmed to 50%. Soli-52 spotlight illuminating the whiteboard.

Integrated sensing & control:

Soliscaple is connected to the calendar of the meeting room. The system can prepare the room to meet the pre-set ideal temperature and conditions.

—
Via voice-control the Soliscaple lighting switches to a programmed whiteboard mode.

—
Presence detection sensing will switch off the lighting when the room is empty.



MEETING ROOM.



Scenario 1

3 team members are in a conference call.

Lighting

The Soli-Form profiles provide full power uplight. The Soli-Form downlight is dimmed at 50% to show the faces of the people in the room.

Integrated sensing & control:

Soliscap is connected to the calendar of the meeting room. The system can prepare the room to meet the pre-set ideal temperature and conditions.

—
Via voice-control the Soliscap lighting switches to a programmed conference call setting.

—
Presence detection sensing will switch off the lighting when the room is empty.

Product configuration 1 Soliscap composition of

- 2 x 3m linear Soliscap profile —
- 2 x 600mm diameter round curves —
- 2 x Soli-Shhh panels —
- 1 x Soli-52 module 20° —
- 2 x Soli-Form down-up profiles positioned alongside the profile —



LOBBY.

Product configuration 5 Soliscape compositions of

4 x circular Soliscape with
each 4 x Soli-52 20°

1 x Soliscape configuration with
2 x 900mm diameter round curves

4 x Soli-Shhh panels

4 x Soli-52 45° + Honeycomb



Lighting

Spotlighting dimmed or at full power according to activity tracking in the room

Integrated sensing & control:

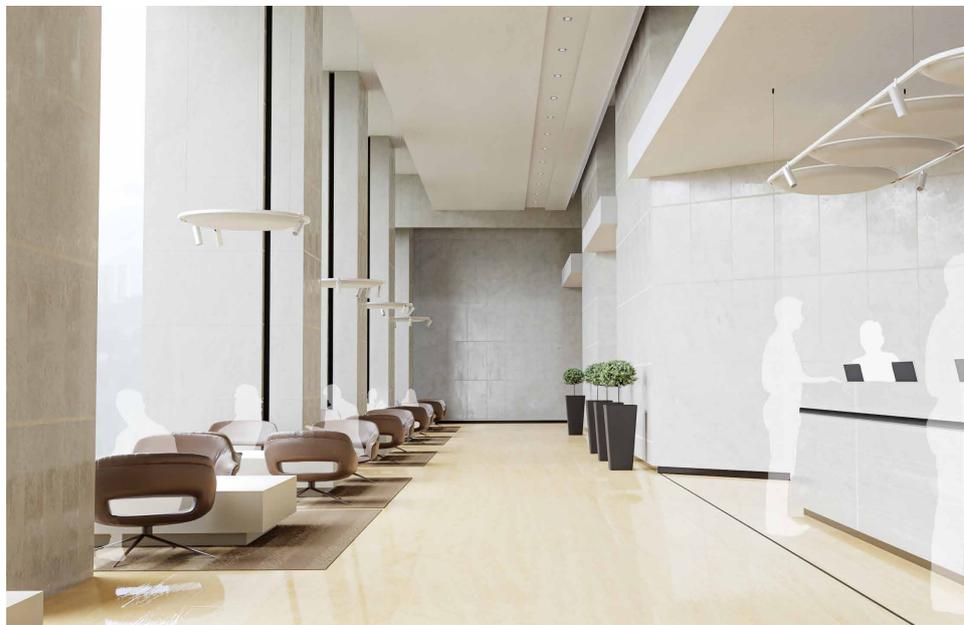
Daylight sensing

Light is dimmed or at full power based on activity tracking in the lounge area or at the reception desk.

Soliscape connects with the HVAC system to provide ideal heating / cooling and ventilation.

Multimedia and sound adapted based on hour of the day and activity in the room





WITH MOST OF
BETWEEN OUR
HOMES, WE AS DE
CREATE HEALTH
AND HUMANCEN
FOR OUR B
BUILDINGS T
WANT TO

OUR TIME SPLIT
OFFICE AND OUR
SIGNERS NEED TO
Y, **SUSTAINABLE**
ENTERED SPACES
BUILDINGS.
HAT PEOPLE
WORK IN.

• Ben Van Berkel





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UNSTUDIO

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 **DELTA LIGHT**[®]

UNStudio first met **Delta Light** at the Dutch Design Week in Eindhoven and were highly impressed with their presentation and products. It was felt that Delta Light's products would both aesthetically and functionally be a great fit for UNStudio's projects, but also that - with the innovative character and knowledge of both of our companies - we could join forces to create relevant, new future-proof products and solutions.

"The working process with Delta Light was quite out of the box. We didn't have a clear image of what the product should look like in the very beginning. And I like that, so that everyone is very open to what we want to achieve and what the ambitions are. The steps to this are the most important. We got the best specialists from both teams together to make sure we would find the optimum design in the end, and that it could do what we wanted. It was great."

Ben Van Berkel

www.deltalight.com/new

