

### Make your workplace healthy

Light has a profound effect on our physical and emotional health. By working with experts we've gained a better understanding of this complex relationship. We've used our insights to develop lighting solutions that enhance well-being and improve performance. Because when people feel better, they work better.

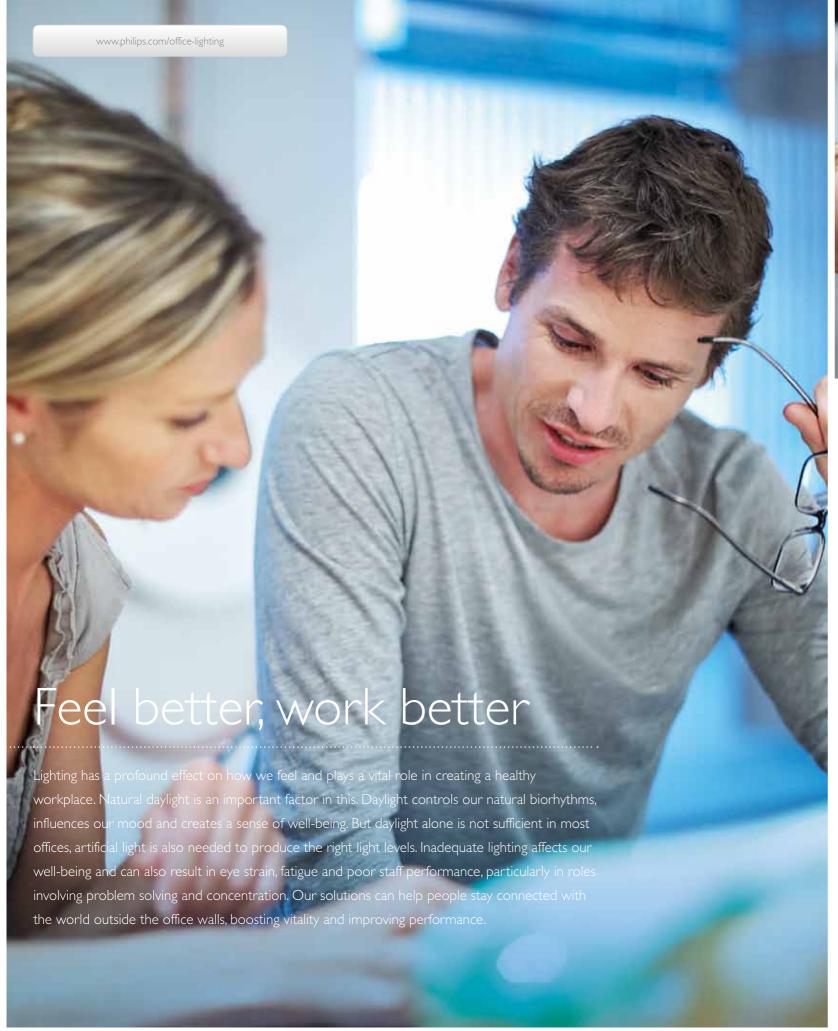
## Insist on a greener building

Sometimes doing more means using less. Our sustainable solutions are designed to maximise energy efficiency at the same time as minimising your footprint on the planet. Flexible ideas that use natural resources like daylight to help you to achieve your lighting goals without compromising the environment.

### Put your company on stage

Lighting solutions can also be a toolkit to enhance your corporate image everywhere from the reception to meeting rooms. Use coloured lights to reflect your brand identity, create a great impression after dark, or use dynamic schemes to paint your personality with light. Be inspired by all the possibilities we can offer to put your company in the spotlight.

www.philips.com/office-lighting





### 21st century workplaces

Office life is changing rapidly with advances in technology and the way we communicate. The pace is faster, more knowledge intensive and customer focused. With staff under constant pressure to perform in complex roles, inadequate lighting can contribute to stress and affect performance. The challenge for employers is to create a 21st century work environment that maximises their well-being and productivity.

### Lighting performance

The key to any successful office design is flexibility. Lighting schemes that evolve with the work environment can contribute to innovation and productivity. What's more, when individuals are allowed to tailor the lighting to their own individual needs, their sense of well-being and work satisfaction improves even more.

### Natural daylight

Studies have shown that the body's hormone levels rise and fall during the day in response to the availability of natural light. Increasing light levels make people feel energised and active but as daylight intensity diminishes, the opposite is true. So natural light is the best office light.

### **Dynamic solutions**

Lighting that breathes natural daylight rhythms helps the body keep on schedule so staff stay productive and alert throughout the day. Our lighting solutions dim up and down depending on available levels of natural daylight to ensure light levels are optimised throughout the day. For example, our Dynamic Lighting solutions support natural daylight rhythms, engaging staff, enhancing well-being and creating a comfortable work environment. This can even be taken a step further by integrating smart blind control systems to maximise comfort and minimise energy use. With a completely holistic approach to office lighting you can create a healthy environment that helps people feel better and work better.

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### Saving energy

If saving energy is your goal there are a number of strategies you can employ:

- 1. Upgrade your lamps a simple switch solution can reduce energy consumption.
- 2. Switch to energy-efficient LED our extensive LED portfolio sets new standards in watts consumed per square metre. Compliant with all office norms, they also contain no hazardous substances and because they last up to three times longer you save on maintenance too.
- 3. Change the way you think about lighting install 500 lux luminaires in task areas and 300 lux in transition areas. Bringing light to the desk optimises task performance and reduces the need for general lighting.
- 4. Use lighting controls for spaces that are only occupied occasionally, controls can switch lights off when no one is around. Controls automatically adjust lighting levels based on the amount of natural daylight in the space. General lighting can be automated to turn off or dim based on business hours, time of day events or calendar schedules. And staff can select light levels suit their personal preferences from a variety of user-friendly interfaces. All clever solutions that can be embedded in luminaires, used as a standalone or as a complete lighting controls network.

5. Link lights and blinds – intelligent solutions that raise and lower blinds in response to changing daylight levels maximise comfort and minimise energy use for lighting and air conditioning.

### Legislation and directives

Buildings are an important target for the European Commission in order to achieve their target of 20% energy savings by 2020. Lighting has also come to the attention of EU policy makers, resulting in a number of directives relating to energy efficiency that have an impact of office lighting. For example, the Ecodesign Directive is already phasing out energy-inefficient lamps and gear and the Energy Performance of Building Directive (EPBD) has introduced higher standards of energy conservation for new and refurbished buildings. Our planet-friendly solutions can help your office to comply, and meet your corporate sustainability goals and carbon reduction commitments.





### Philips and Green Buildings

In response to a growing demand to minimise the environmental impact of buildings, many organisations have developed Green Building certification systems. For example, LEED (Leadership in Energy and Environmental Design) is a rating system started by the United States Green Building Council whereas BREEAM (BRE Environmental Assessment Method) is a system established in the UK by the BRE (Building Research Establishment). Both LEED and BREEAM are widely accepted as international standards for Green Building certification.

Our comprehensive portfolio of lighting solutions and services contribute to Green Building systems and help you design for, and achieve, Green Building certifications whether you're aiming for LEED, BREEAM or a national standard such as HQE in France.

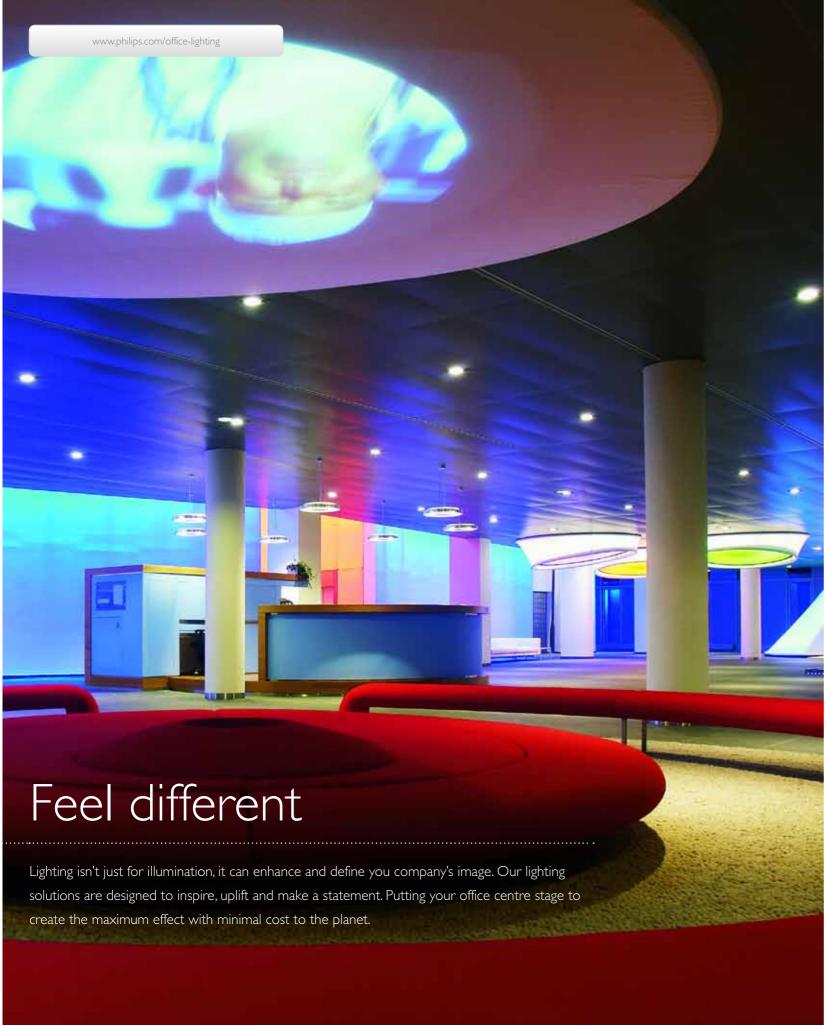
Philips has been setting the pace in several ways. We're a global sponsor of the World Green Building Council and participate actively with local country Green Building Councils. Many of our staff are accredited professionals in LEED or BREEAM and are ready to work with you on Green Building projects. Our solutions have already

been used in successful projects that have achieved Green Building certifications. And we've also certified our own offices, including our Paris headquarters that is Haut Qualité Environnementale (HQE) certified. But Green Building isn't just about energy efficiency. Our solutions optimise performance, reduce light pollution and enhance the quality of the office interiors. So we can truly contribute to making your office a more sustainable and high performing environment, as well as improving the well-being of staff. And because green building projects often involve a global group of architects, lighting designers, engineers and project managers, we offer our services on a global level too.

### Unlock the value of lighting

Whether you want a totally controlled and steered green building or a simple lamp replacement to save energy, we're in a unique position to help. All our lighting solutions comply with the latest legislation and standards. And to make reaching your sustainability goals even easier, we even offer turnkey solutions and services.

www.philips.com/office-lighting





### **Brand identity**

Funky or functional. Cool or corporate. Lighting sets the tone for the way you do business. Use it to create the right impression everywhere from the boardroom to the back office. Our stylish solutions are designed to complement and enhance your office decor, creating colourful, attractive spaces with welcoming ambiences that ultimate in office illumination. So your company is only are a pleasure to work in.

### Creative freedom

With LEDs the possibilities are even more exciting. Not only can you control and fine tune the light to perfect the ambience for every mood, need or task, their compact size means they can be used in the most innovative of luminaire designs. So you can turn on the style with the graceful curves of DayWave, or super-thin DaySign spots to express your brand. Whatever suits your company's personality.

### Innovative control

The most sophisticated lighting schemes require clever controls. With intuitive, fingertip control, solutions like ToBeTouched can make setting the office ambience as each as changing the volume on an MP3 player. Together with our inspirational luminaire designs they offer you the ever seen in the best possible light.

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### Co-development

Our aim is to work together on creating new lighting solutions that will add value to your business. We can give you access to the latest technologies, more than a century of lighting knowledge, plus a dedicated team of experts who can help you to fulfil your ideas. Co-development could help you to create new ideas that lead your offices in sustainability, achieve new levels of energy savings or define new models for your lighting needs. With our joint efforts we can realise opportunities and solve problems that could change the future of lighting for offices.

### Turnkey projects and services

We can also minimise the hassle and maximise the benefits of your lighting project with our Turnkey Projects & Services (TP&S). We can assist you with a complete range of services from financing, installation and commissioning, to training and post-project support. The services are available individually or as tailor-made turnkey packages that deliver complete project coordination from start to finish. Once you're happy with our solution we'll take over all responsibility. So you only have to call your dedicated Philips representative to monitor and manage your lighting project.

www.philips.com/office-lighting

# Offices content overview

Our office products can add value in many different ways throughout your building from reception areas to meeting rooms and corridors. On the following pages you will find total solutions for eight typical areas of an office. The products shown are only a small selection of what is available for that particular application.



04. Cell office



05. Meeting room



06. Break out areas



07. Façade



08. Parking

# www.philips.com/office-lighting



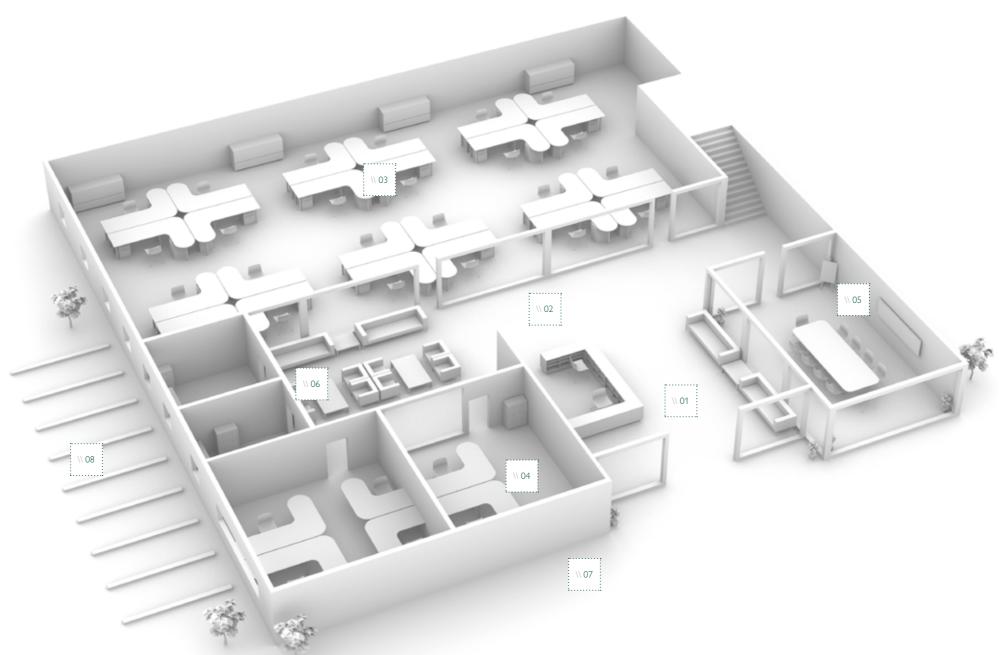
01. Reception

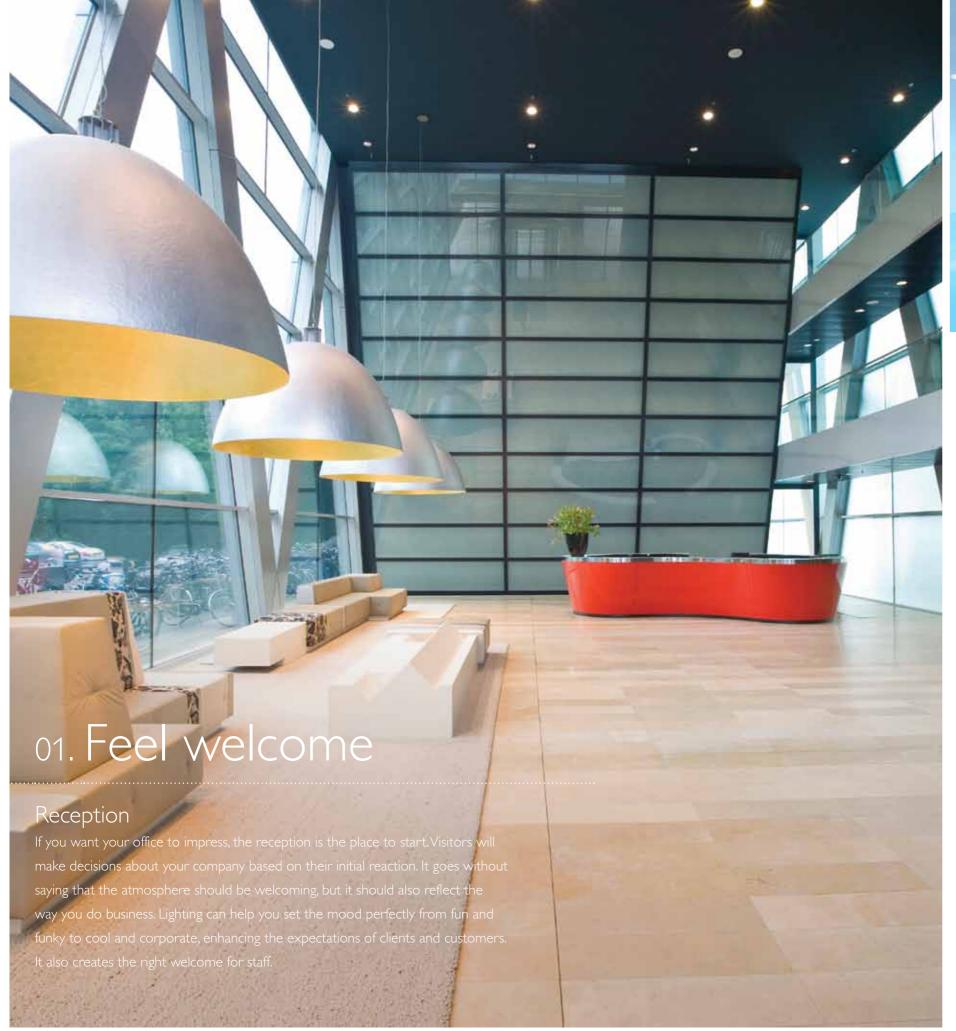


02. Corridors and circulation areas



03. Open plan office









### Create ambience

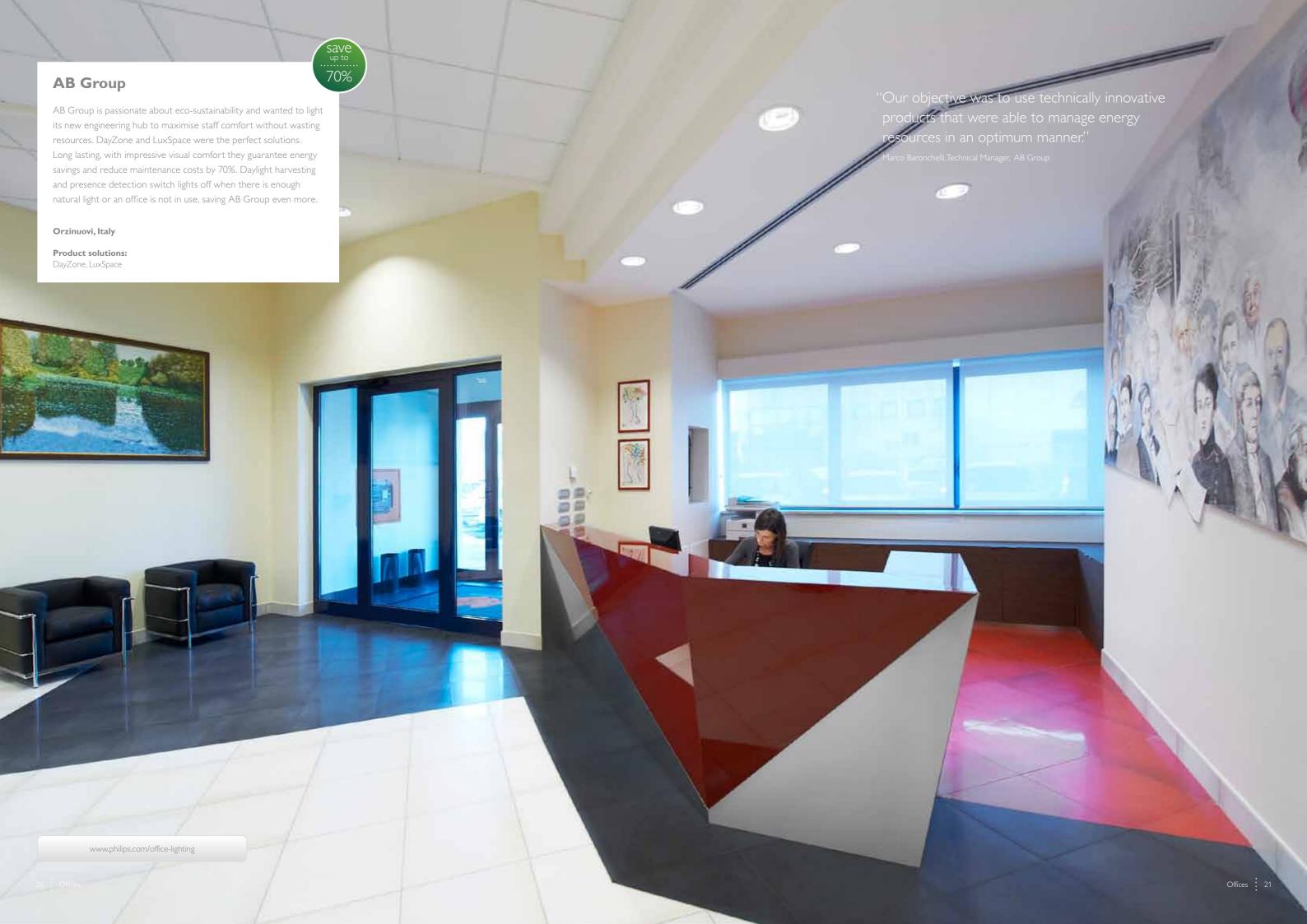
From the moment clients walk into your reception you can create appeal with attractive, dynamic lighting that will enhance their expectations. From dramatic, vibrant schemes that reflect your corporate colours to soft ambience designed to soothe the senses, we have the right solution for every style of office.

With a combination of our dynamic lighting solutions and intuitive controls you can create a fluid ambience that reacts to natural light levels. Colourful accents can guide visitors to the reception desk or make seating areas more inviting. Add to that intelligent controls and you can enjoy welcome savings too.

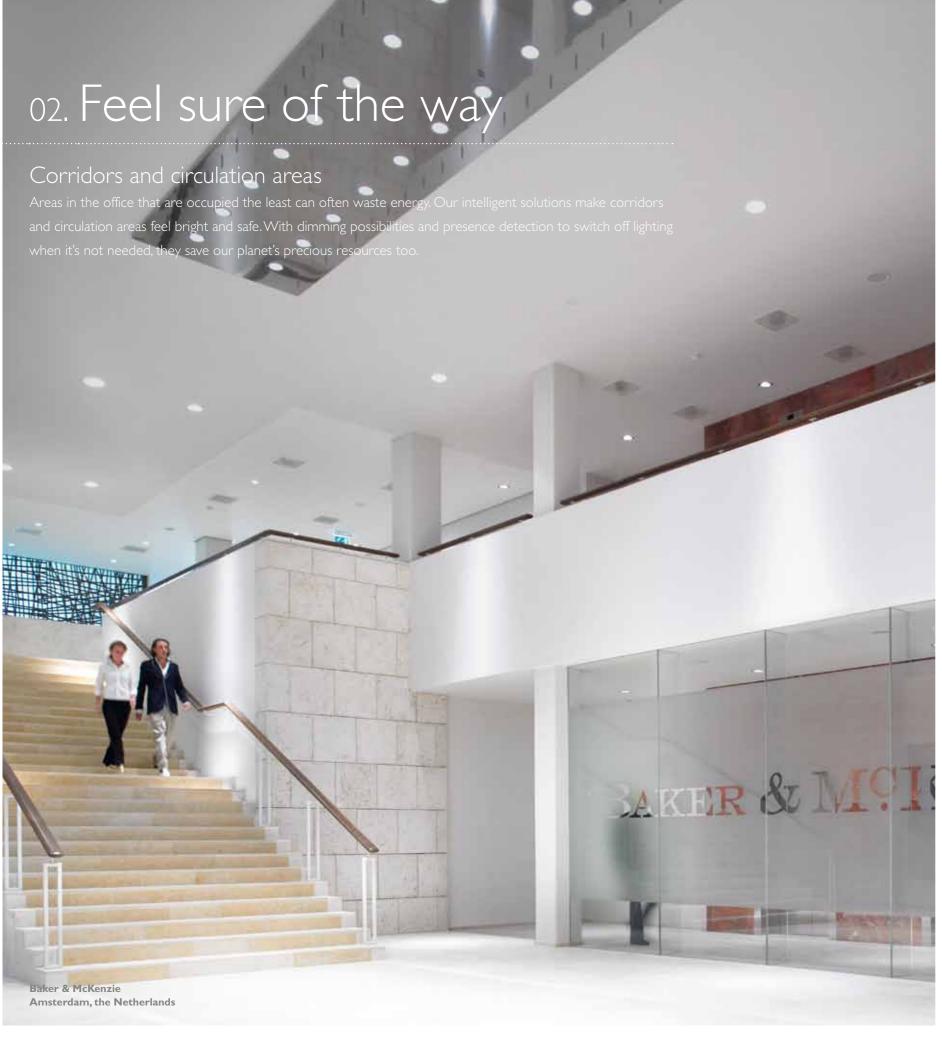


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### Save energy with light

Corridors are the vital network inside your offices that guide people around the building. They can also work as functional spaces, displaying information or artwork to enhance your company image. But if the lighting remains on when no one is around, you could be wasting energy for much of the day. And when lighting accounts for 40% of all putting artwork in the spotlight. electricity use in office buildings, that's a lot of energy to waste.

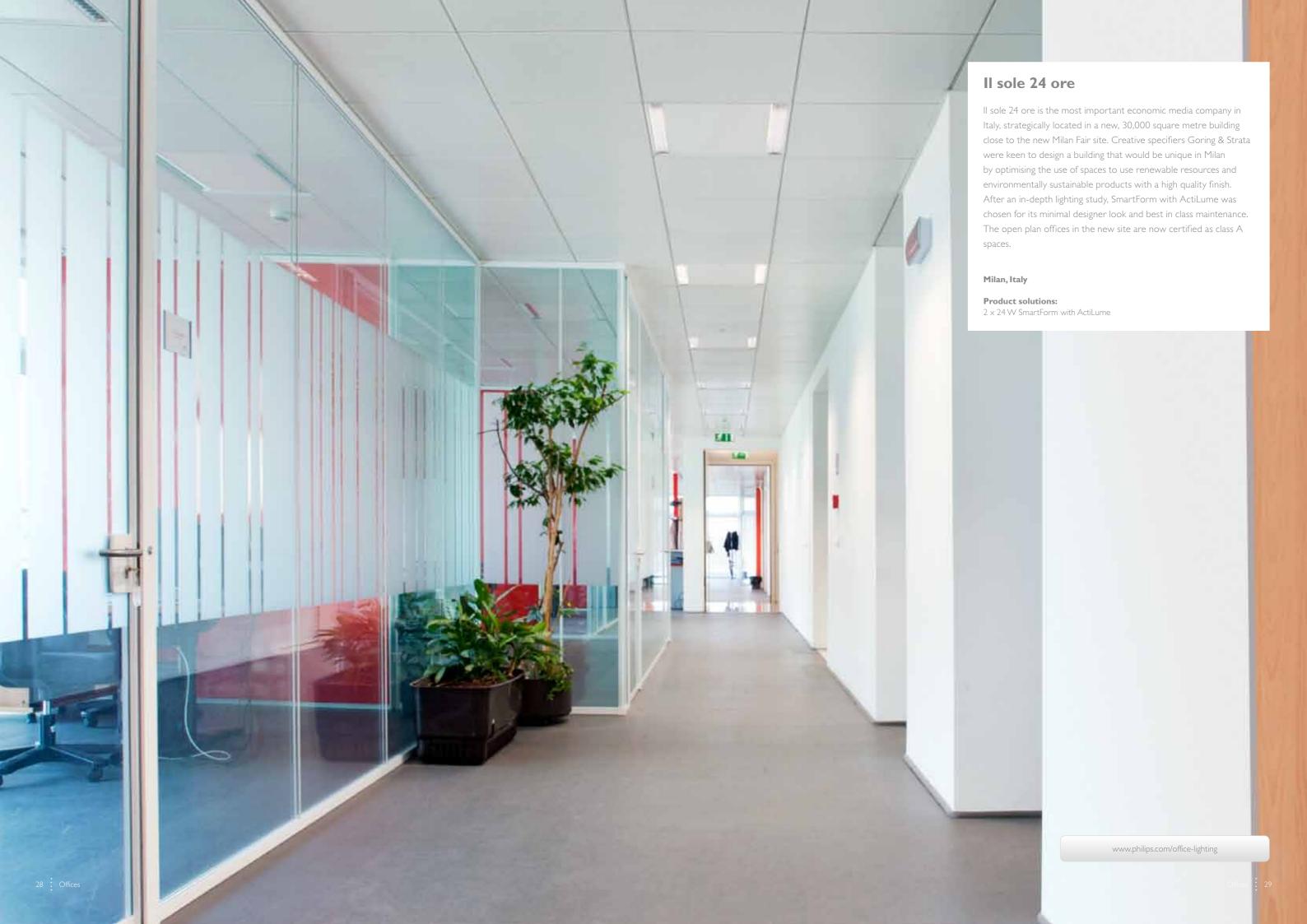
Our sustainable lighting solutions are a highly-efficient way to keep corridors safe and well lit whenever they're needed. Dimmable LuxSpace luminaires save energy and create ambience. Intelligent sensors like OccuSwitch turn the light off when it's not needed. Sparkling accent lights add the finishing touches, highlighting architectural features and



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# Cas Sombroek

Cas Sombroek opted for a progressive new lighting plan with 95% LED. It transformed their office into a showroom for clients, who they often advise on energy-efficient solutions. At the same time the working environment is now bright and pleasant, contributing to the well-being of employees. The company also benefits from energy savings of 30-40% thanks to reduced electricity costs.

### Volendam, the Netherlands

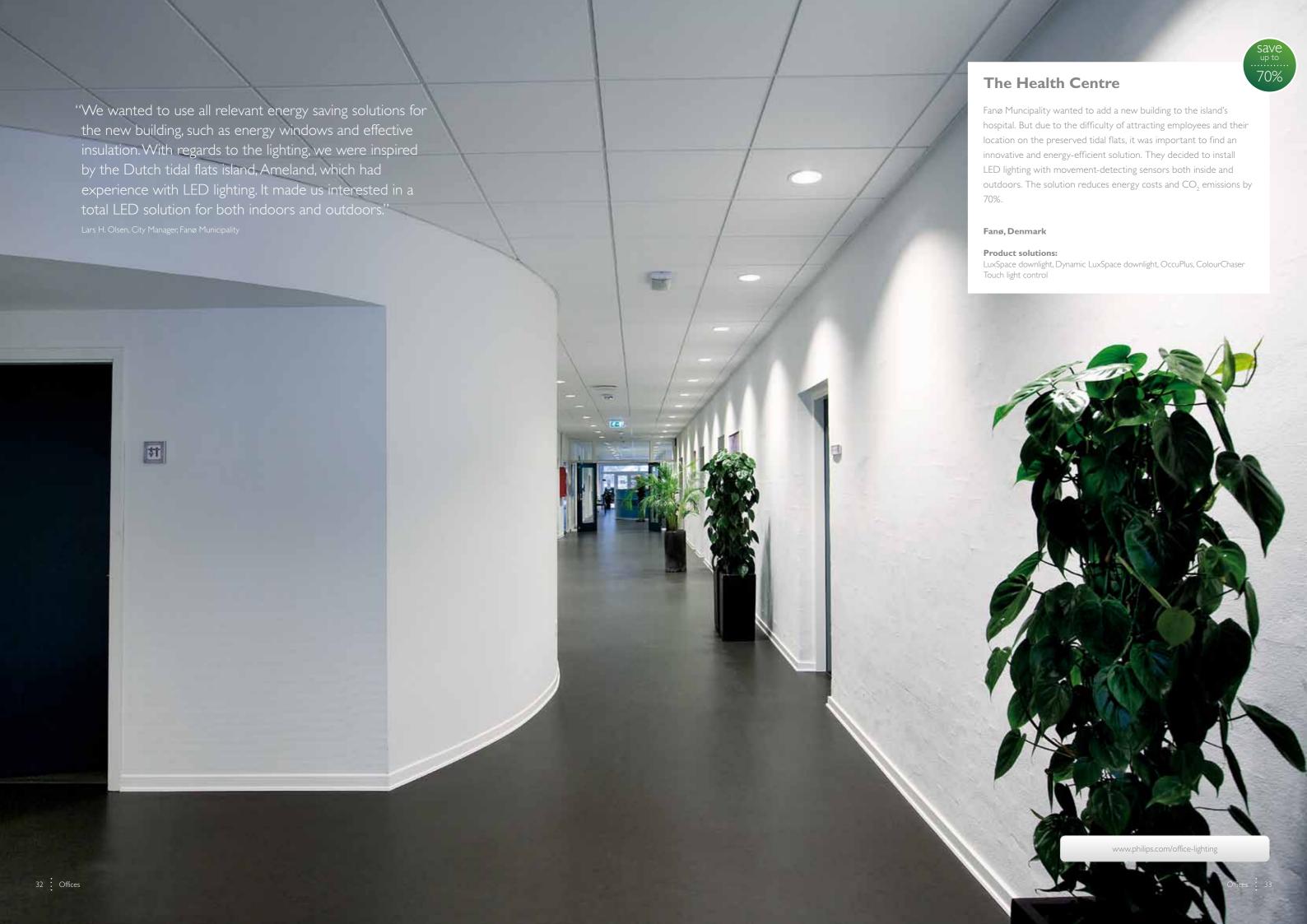
### **Product solutions:**

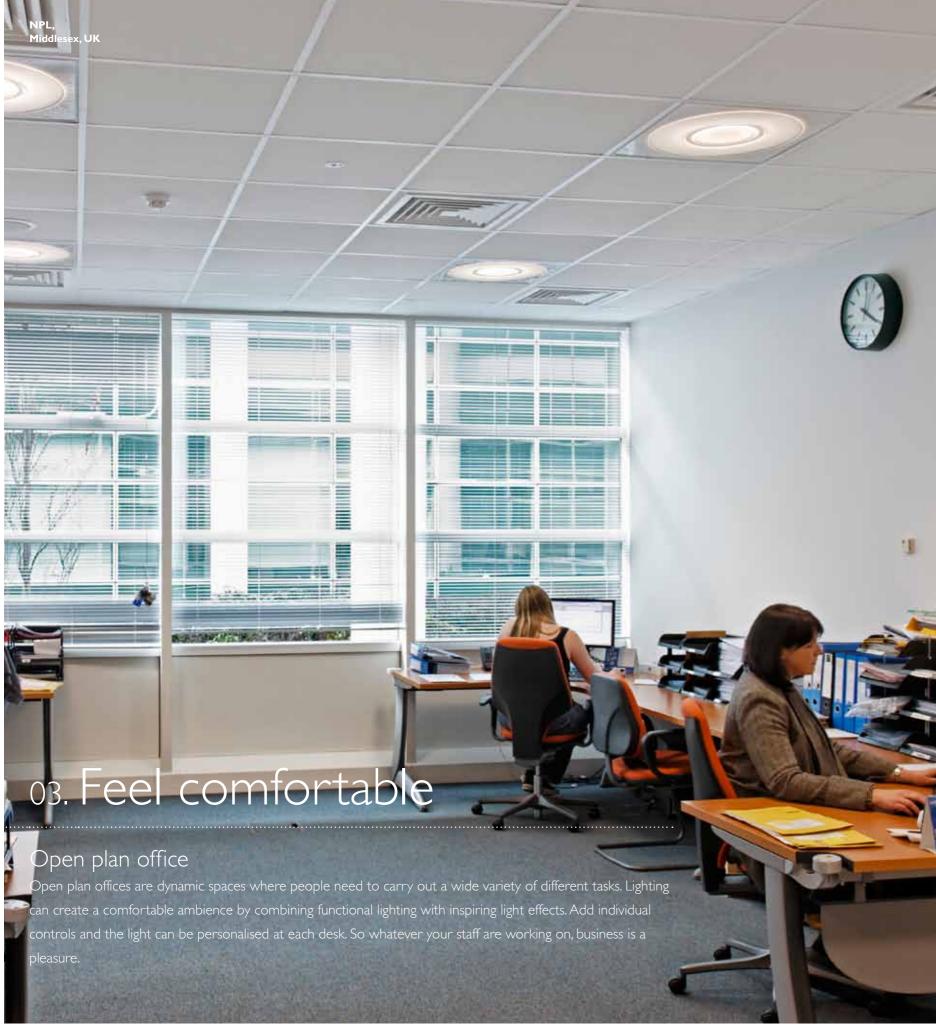
LuxSpace, DayWave, DayZone, DaySign, Spot LED 3, iW Cove Powercore, LEDline<sup>2</sup>, OccuPlus



"First we completed one office building, and then we did our own, which now has 95% LED lighting. The result is fantastic. Actually our business is now a showroom that we work in too. Also, we pay maximum attention to the wellbeing of our employees — and with great success."

Marco Sombroek, Director ETB Cas Sombroek









### Feel better, work better

As our ways of working become more intuitive, so should our office space. Good lighting that's tailored to individual tasks helps staff to work more effectively during the day. Our solutions shine with impressive visual to create the most comfortable office ambience. And when people feel better, they work better too.

Solutions like DayZone combine an aesthetically striking appearance with a quality of light that respects all office norms. Add intuitive controls like OccuSwitch DALI for occupancy detection or daylight dimming, to give flexibility whilst maintaining comfort for comfort, glare control and colour consistency, any office space. All at the same time as saving up to 75% in energy so you can feel better about your impact on the planet.

# **Solution 1** Inspiring and comfortable lighting



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### Light when and where it's needed

Lighting is an attractive way to make instant energy savings all around the office. But in open plan layouts, no two spaces are ever used in the same way. Can one solution fit all? With the right combination of luminaires and controls you can improve the energy performance of your building and enhance the opportunity. working environment.

PowerBalance is a very efficient office norms compliant luminaire. Used in combination with OccuSwitch DALI it enables you to maximise energy savings by automatically switching lights off when an area of the office is unoccupied or there is sufficient daylight present. So you can save energy at every

### Bring light to the desk

Too much light, or too little, can lead to increased levels of fatigue in the office. So how can you reduce your energy use without compromising on light levels or staff well-being? Installing less general lighting and bringing light to the desk can make a big difference, improving personal comfort, concentration and productivity.

SmartForm LED creates a comfortable working environment for every office situation. Smart controls with task level tuning enable you to set the maximum light levels in a particular workspace to prevent overlighting and save energy. But you can still ensure that you have the right light levels in specific areas by installing TaskFlex lamps. Staff can select the optimum light levels to suit each task, giving them more personal control, increasing performance and satisfaction.

# Balancing artificial and natural light

Maximising the amount of natural light entering a building can reduce lighting consumption. But the glare and heat generated by sunlight can make people feel uncomfortable, particularly in offices with a south-facing aspect. Smart lighting systems like Managed smartly the system can also block OccuSwitch DALI, linked to blind systems, can maximise comfort and minimise energy use.

When there is little or no natural light the blinds are raised to maximise the view and the luminaires help to optimise light levels, contrast and comfort. In strong sunlight the blinds are lowered to eliminate glare and the use of artificial light is maximised. solar heating in the summer, reducing air conditioning and ventilation use and associated costs, the use in winter to let the solar heat in to reduce heating costs.

# **Solution 2** Energy-efficient lighting design



# **Solution 3** Bringing light to the desk

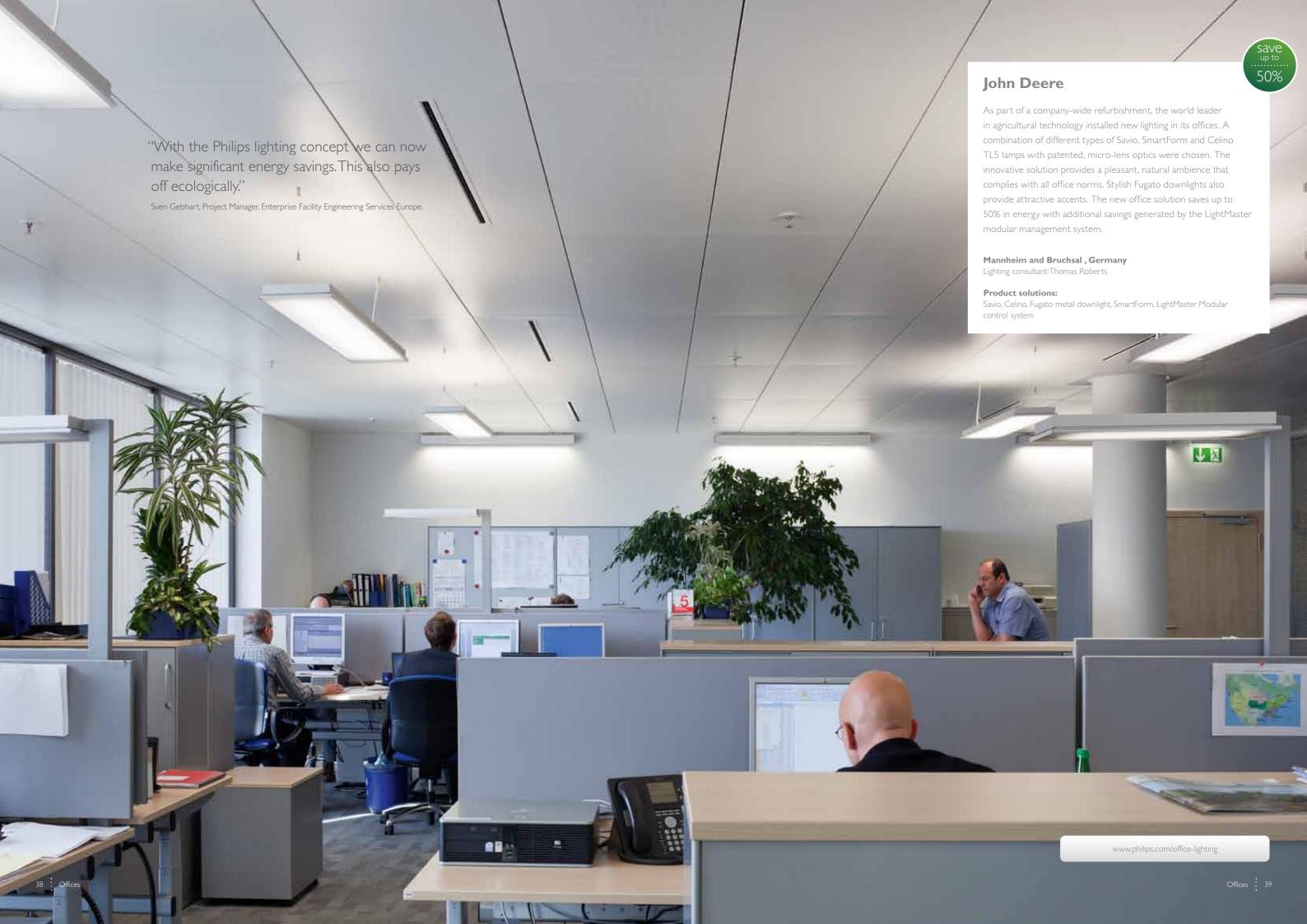


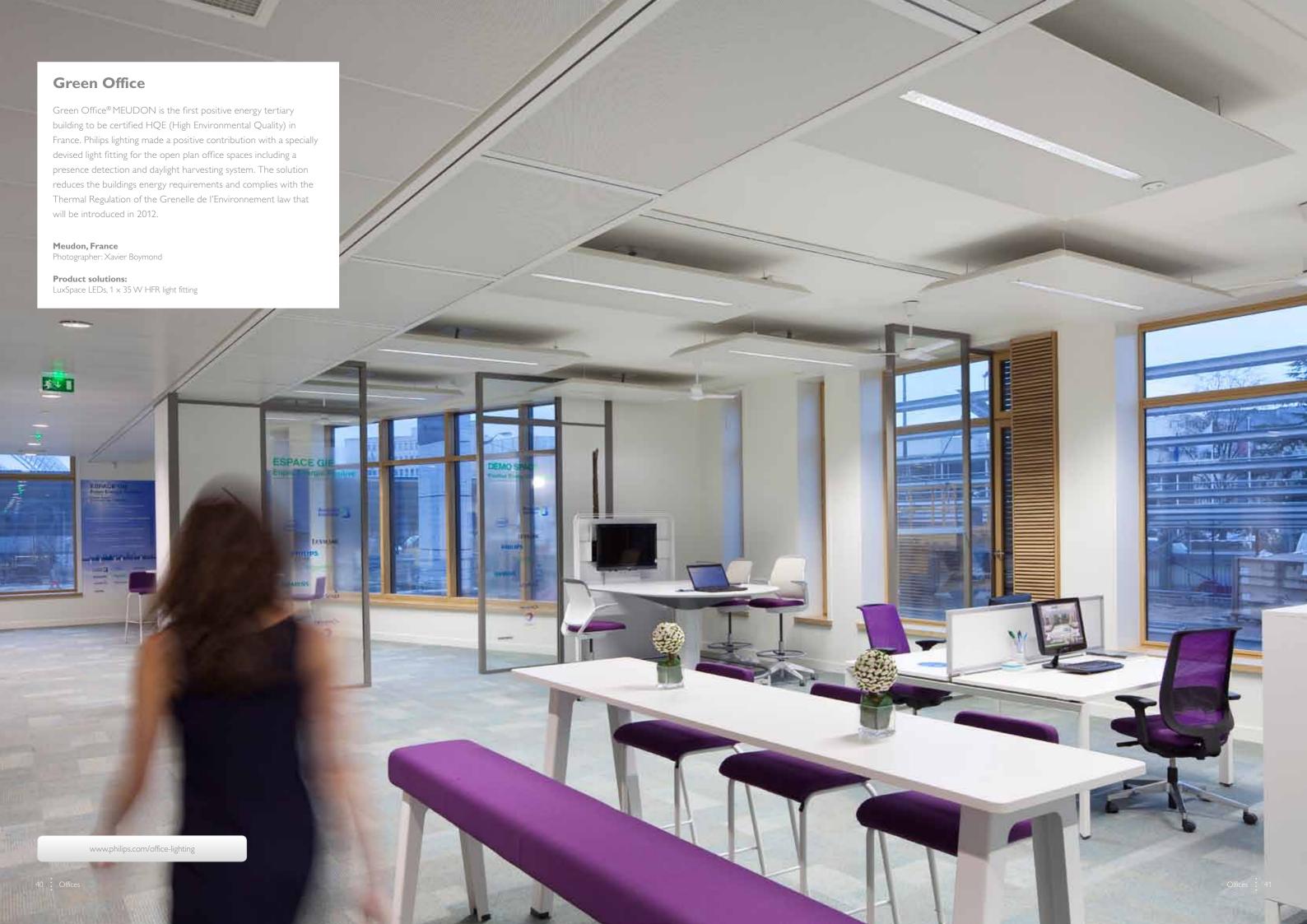
# **Solution 4** Linking lights & blinds



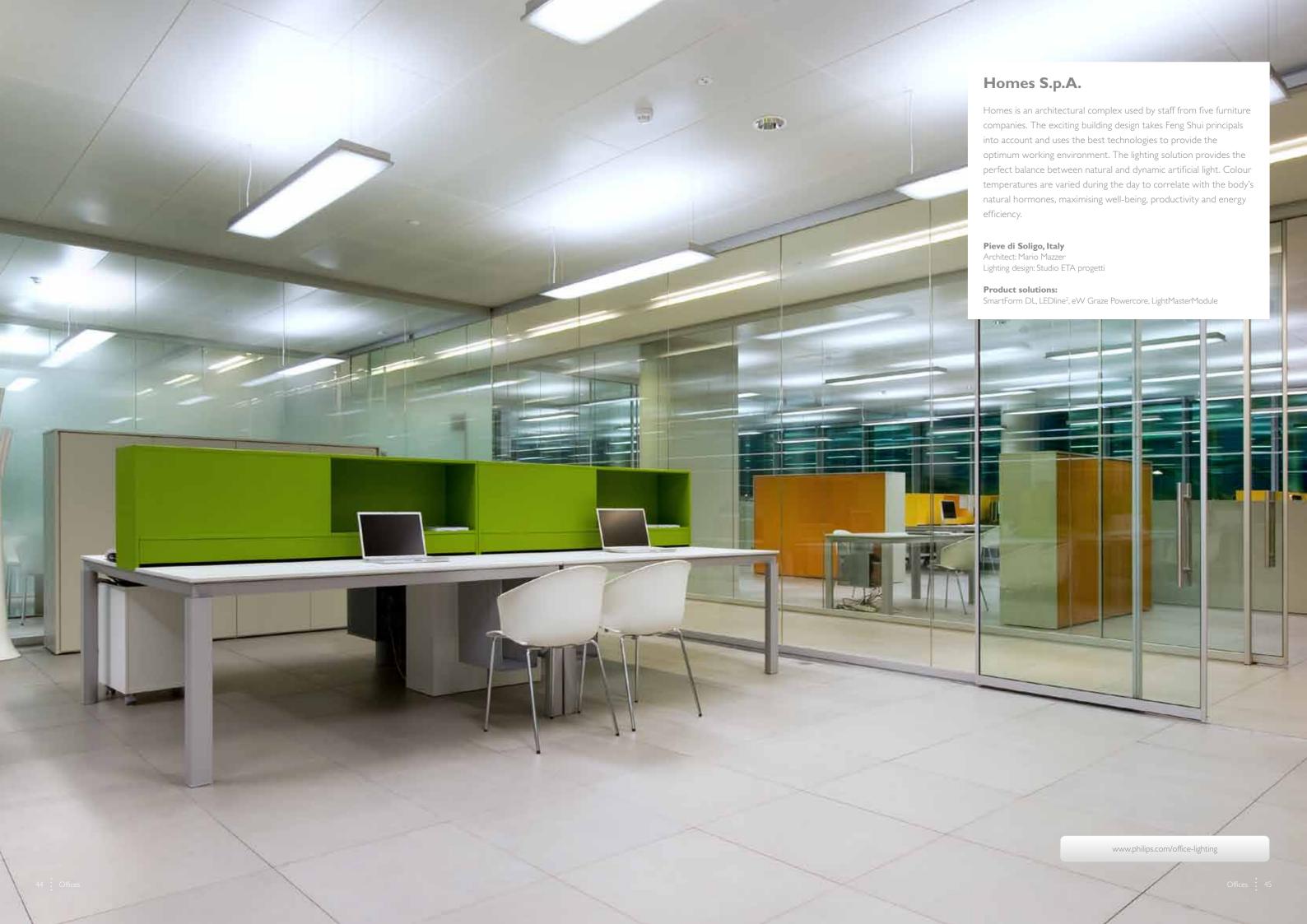
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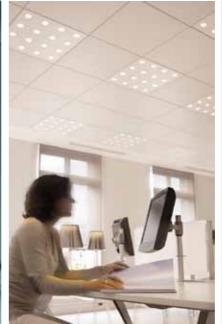




# **RAU** Architects RAU took part in a "Pay per lux" trial where they paid for the actual amount of light they consumed rather than owning the lighting itself. Dynamic Lighting allows RAU to tune the light precisely to any given space. Philips Smart meters record the energy consumption and provide an insight into how and where it was used, enabling RAU to use this innovative solution to reduce their energy consumption even further. Amsterdam, the Netherlands **Product solutions:** Dynamic Lighting, Smart meter RAU, we are only interested in sufficient lighting in the office, not in owning the lighting. I contacted nilips with this question and they vere open to the idea immediately. From now on we only pay for performance 'enlightenment' but not for the raw materials and products." www.philips.com/office-lighting Thomas Rau, RAU Architects





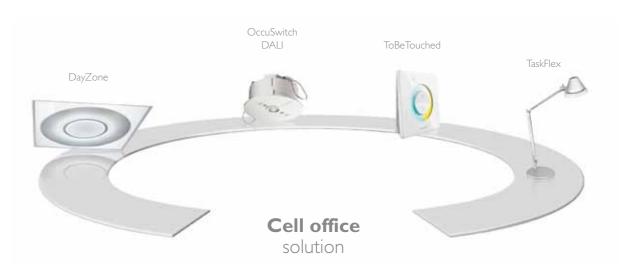




### Attractive savings

Private offices and internal spaces require lighting more often to create the same bright ambience as rooms that are flooded with natural light. But that doesn't mean the solution has to look harsh or artificial. Some of the most inspirational luminaire designs provide light with the highest levels of visual comfort. They also offer the possibility of dimming for even more calming ambiences.

And it needn't cost the earth because more lighting doesn't have to mean more wasted energy. With clever controls to switch lights off when no one's around, you can still save on energy bills without cutting corners on office ambience. Suddenly lighting internal cell offices looks far more attractive.



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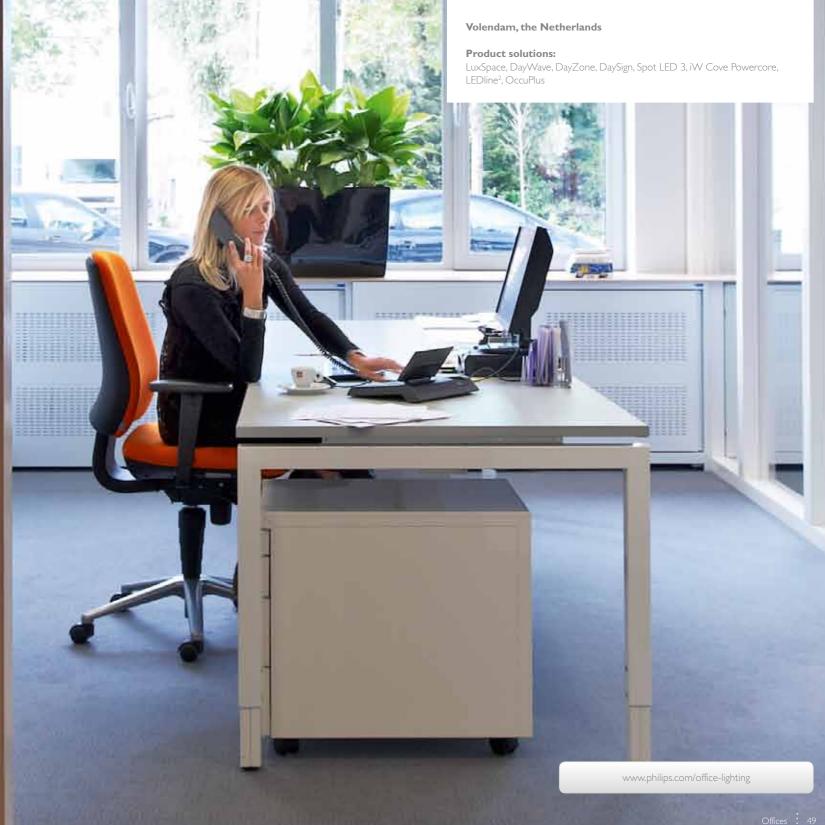


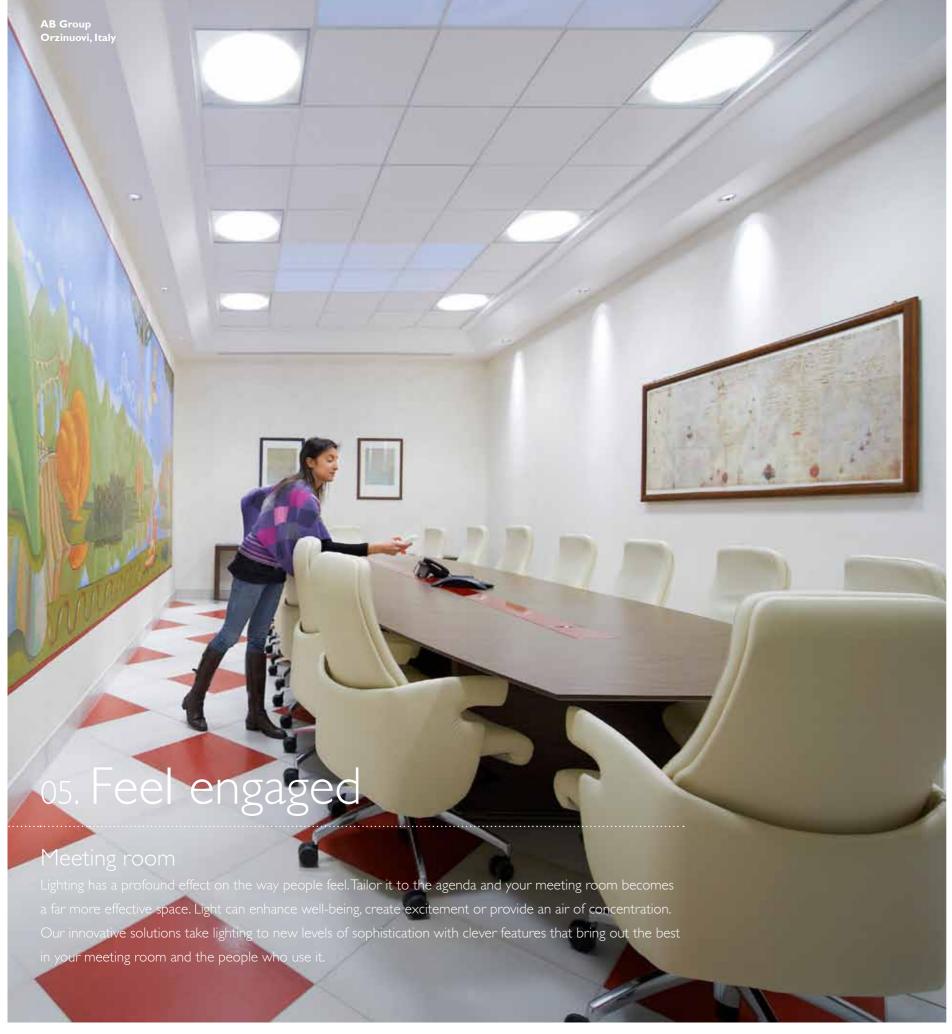
"I get very positive reactions from the employees. They find it a pleasant place to work in and they remain more active throughout the course of the day than before."

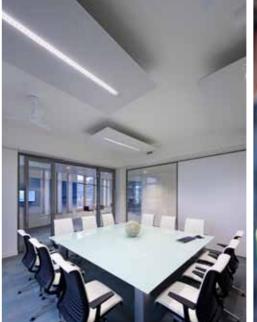
Marco Sombroek, Director ETB Cas Sombro

# Cas Sombroek

Cas Sombroek wanted to showcase energy efficiency with their lighting solution, but employee comfort and well-being was also a significant objective. The 95% LED solution achieves both with great success. The dynamic lighting in the offices supports the employees' natural biorhythms with seamless changes in colour and brightness throughout the day. So Sombroek is now a more pleasant and productive place to work.





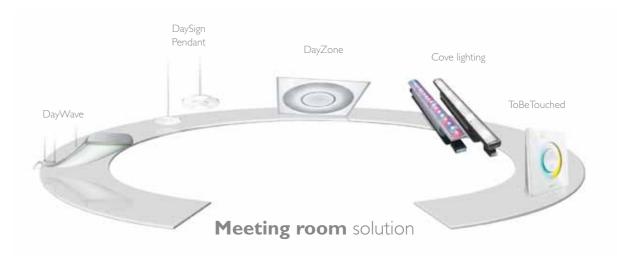




### **Create attention**

No two meetings are ever the same, so it's vital that the lighting in your meeting room is designed for maximum flexibility and visual comfort. A high output with no glare works best for collaborative sessions that need to stay productive. Informal presentations are best delivered in a softer ambience that relaxes and calms.

Our lighting solutions are designed to bring every meeting to life. Our next generation LEDs can create a crisp, sparkling and warm white light that will energise the whole room. And we also have brilliant ways to use colourchanging effects for accents and alcoves, so you can tune the lighting to suit the mood. By using our Philips Dynalite controls meeting room solution, all of this can be steered with a very simple touchscreen.

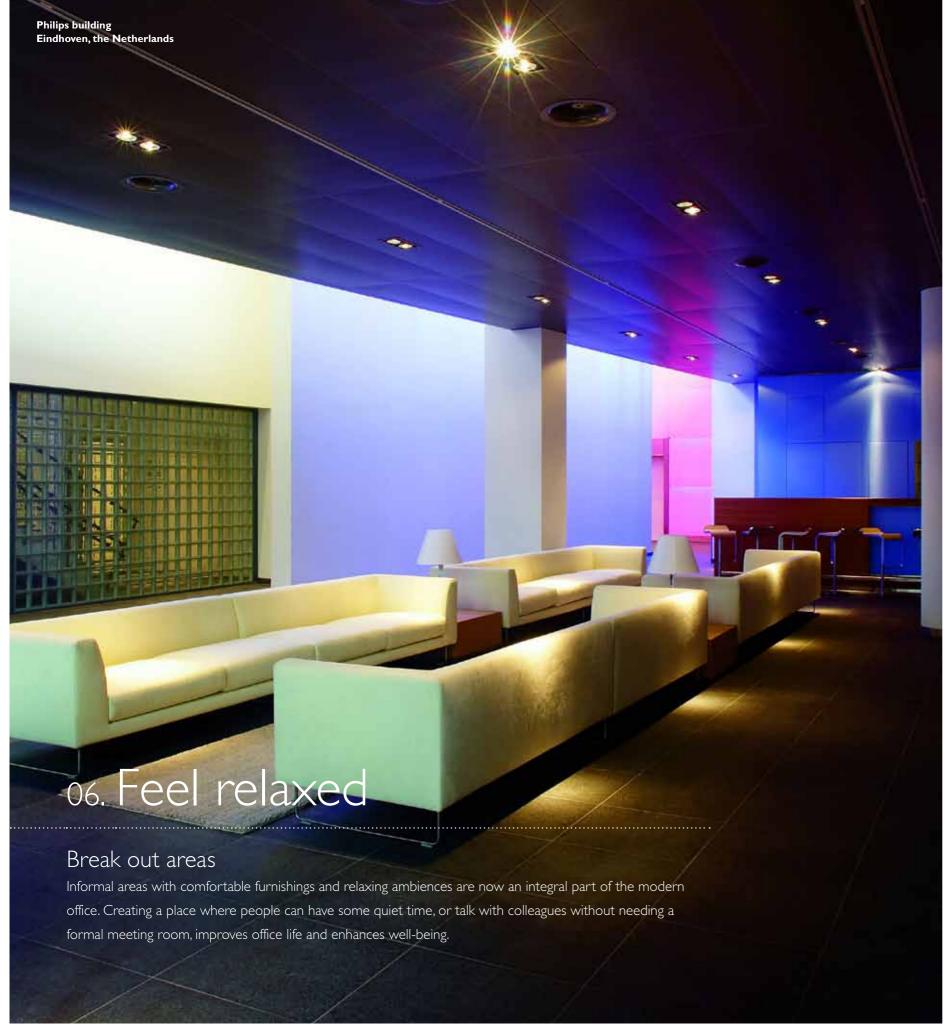


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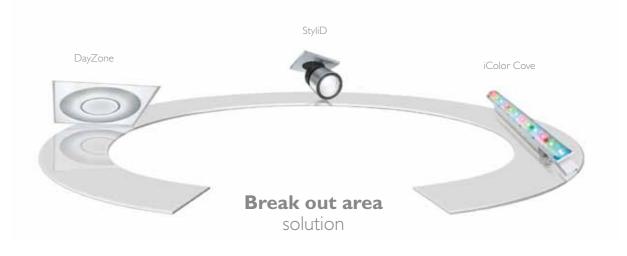




### Relaxing minds

Well designed break out spaces can have a positive effect on how people feel at work. Lighting is a powerful way to influence their emotions. Solutions like DayZone combine good quality lighting with dimming possibilities colour-changing light effects to alcoves and glare control to soothe tired eyes and relax busy minds.

StyliD gives you the freedom to add accents that create pools of light over seating areas and tables where staff get together and socialise. And to soothe their senses even more, use iColor Cove to bring dynamic, and intimate spaces. Break out solutions that create a totally relaxing ambience to rejuvenate and inspire.



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### Get your office noticed

Attractive lighting and signage is a powerful way to convey your corporate image. You can express your unique identity with white lights, dynamic ambiences or subtle colour effects. Whatever it takes to create the most impact and make a real statement in your environment.

Our Powercore solutions allow you to paint dynamic and scene setting effects with light. Dimming solutions can be used to tone down the look for softer ambiences. With our special lighting controls you can use light in the most sustainable way, reducing energy consumption and light spillage, improving your company's corporate and green credentials.

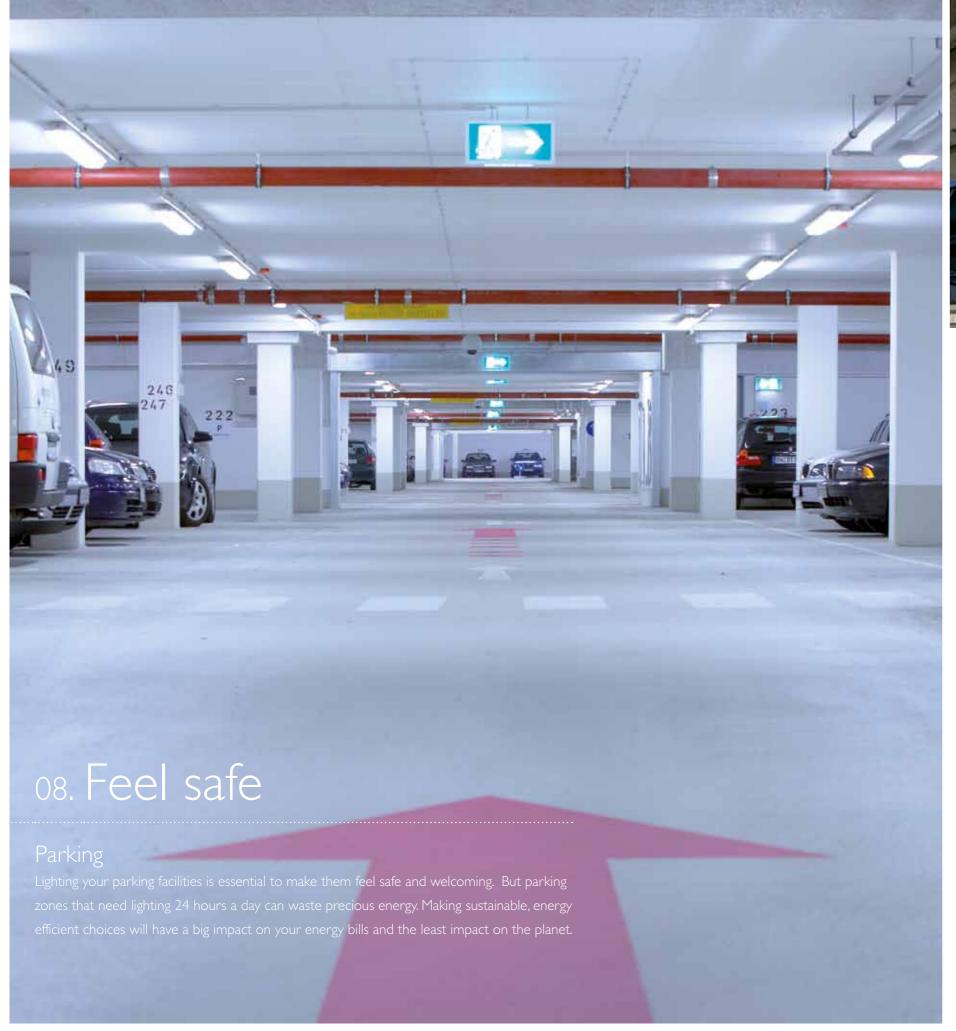


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# **Cas Sombroek** "We have already had a number of visitors with various enquiries and orders as a result." Cas Sombroek created a lighting showcase inside and out with LED lighting. The exterior LEDlines are based on high-power LEDs Marco Sombroek, Director ETB Cas Sombroek and create controlled, soft wall wash accents in five distinct colour bands. This exciting light effect gives Sombroek's office building splendid colour-changing tones in the evening and at night. Volendam, the Netherlands **Product solutions:** iW Cove Powercore, LEDline<sup>2</sup> 62 : Offices









## Bright ideas for parking

Welcome visitors and employees to your parking facilities by creating bright spaces with good visibility and no pockets of shade. Our solutions can help you save energy and enhance your green credentials. And with serviceable light engines you can upgrade to future LEDs without having to replace the entire luminaire.

Our waterproof Pacific LED provides high quality white light with excellent beam control to minimise glare, an important factor in applications like parking garages. The robust design is quick and easy to install and can be mounted individually or in line to aid guidance.



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"The way people feel in the office can have a dramatic influence on their work performance. I can show you creative lighting solutions that will enhance well-being to make life in your office more attractive. Green solutions that will minimise your energy use and maximise your company's image."

# Product overview

Philips has a complete range of lighting solutions for every office application or lighting requirement.

Find out more at: www.philips.com/catalog

Find out more at: www.philips.com/office-lighting







# 02. Corridors



- Innovative collection of LED-based luminaires
- Eye-catching accent lighting

DaySign Pendant

: 01. Reception

Comprising adjustable spots



### **DayZone**

- Inspiring design
- Sustainable solution
- Excellent visual comfort



### LuxSpace

- Great light quality
- Compact range of sizes, easy to install
- Save even more with OccuPlus



- Colour-changing, tunable or fixed white light
- Suitable for alcoves, accent areas and confined spaces



### **ToBeTouched**

- Easy to use and programme light settings
- Easy installation



- Save energy with automatic switch off
- Versatile and reliable, works with any luminaire
- Screen off areas where activation is not required

- Great light quality
- Compact range of sizes, easy to install Save even more with OccuPlus



### StyliD recessed

- Wide range and wide choices Dimmable
- Up to 80% energy saving vs halogen



### MASTER LEDspot GU10

- Up to 80% energy saving compared with halogen lamps
- Lower maintenance costs
- · Broad compatibility with transformer



# OccuSwitch DALI

- Save energy with automatic switch off
- · Versatile and reliable, works with any luminaire Screen off areas where activation is not required



### SpotLED III

- Up to 80% more energy-efficient
- Consistent colour warm or neutral white
- Maximising light output & efficiency, eliminating relamping

# 03. Open plan office



# **DayZone**

- Inspiring design
- Sustainable solution Excellent visual comfort

## ToBeTouched DIM DALI UID8520

- Easy to use and programme light settings Stylish design
- Easy installation



- Install less general lighting, still have right amount of light
- Offers extra light to make reading easier
- Direct the light precisely to where it is needed



- Low energy consumption, long life
- High energy efficiency (Smart Pyramid Optics)
- Optic design complies with office norms



# SmartForm LED

- Ultra-flat luminaires with LED light source Combines best-in-class lighting with distinctive design
- · Provides the ideal solution for every situation

# Great light quality

Compact range of sizes, easy to install

DaySign Pendant

Eye-catching accent lighting

Comprising adjustable spots

Save even more with OccuPlus

# 05. Meeting rooms



: 04. Cell office

Excellent visual comfort

OccuSwitch DALI

Save energy with automatic switch off

· Versatile and reliable, works with any luminaire

Screen off areas where activation is not required

Install less general lighting, still have right amount of light

Offers extra light to make reading easier

Direct the light precisely to where it is needed

• Innovative collection of LED-based luminaires

DayZone

(0)

- Inspiring design Sustainable solution
  - · Eye-catching accent lighting



### DayZone

- Inspiring design
- Sustainable solution
- Excellent visual comfort



- Up to 80% energy saving compared with halogen lamps
- Broad compatibility with transformer



- Colour-changing, tunable or fixed white light
- Suitable for alcoves, accent areas and confined spaces



- Easy to use and programme light settings
- Easy installation



# DaySign Pendant

- Innovative collection of LED-based luminaires
- Comprising adjustable spots





# MASTER LEDspot

- Lower maintenance costs

# ToBeTouched

- Stylish design



- Unique breaktrough LED-based design Creates natural shifts in the lighting ambience
- · Delivers a uniform, high level of visual comfort

# : 06. Break out areas



- Wide range and wide choices
- Up to 80% energy saving vs halogen



### **D**ay**Z**one

- Inspiring design Sustainable solution
- · Excellent visual comfort



### iColor Cove MX Powercore

Continuous streams of light to achieve curves

- High-intensity light for alcoves and accents Stylish design and optimum performance Dynamic effects, saturated colours

i 07. Façade

High-intense white light in neutral and warm white

# Cove lighting



- Seamless curtain of light

# 08. Parking



# Good quality IP66 waterproof luminaire

- Suitable for many applications
- Easy installation



### MASTER LEDtube SA2

 Retrofit solution for TL lamps in open coolers Extremely energy efficient for savings of more than 54%



High-intensity light for alcoves and accents

Continuous streams of light to achieve curves

iW Blast Powercore/ColorBlast Powercore

Superior fixture consistency, static or tunable white light

iW Graze Powercore/ColorGraze Powercore

Offers a wide range of wall-washing effects

Energy-efficient solution for flood lighting

Dynamic effects, saturated colours



- Saves up to 80% energy
- Easy to install and efficient to manage with Powercore®

Colour-changing, tunable or fixed white light



# LEDLine<sup>2</sup>

- Wide range of colours and white light
- Smooth design















Suitable for alcoves, accent areas and confined spaces





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Date of release: June 2011 / BASE 3222 635 69096

Printed in The Netherlands