



Industry Lighting

Energy efficient lighting solutions
catalogue - 2013

PHILIPS

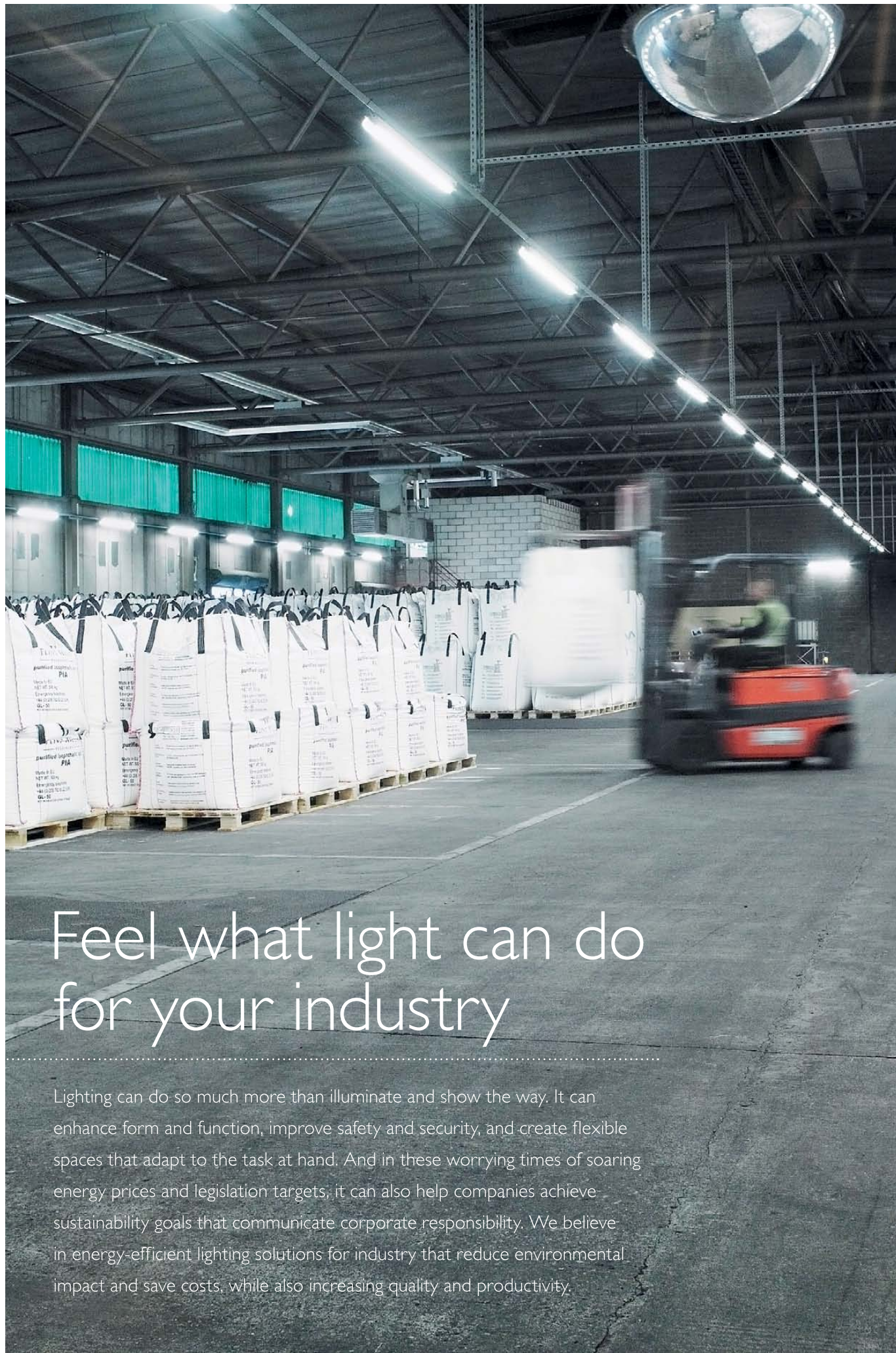


Start saving energy.

And start saving money.
With Philips Industry Lighting Solutions.

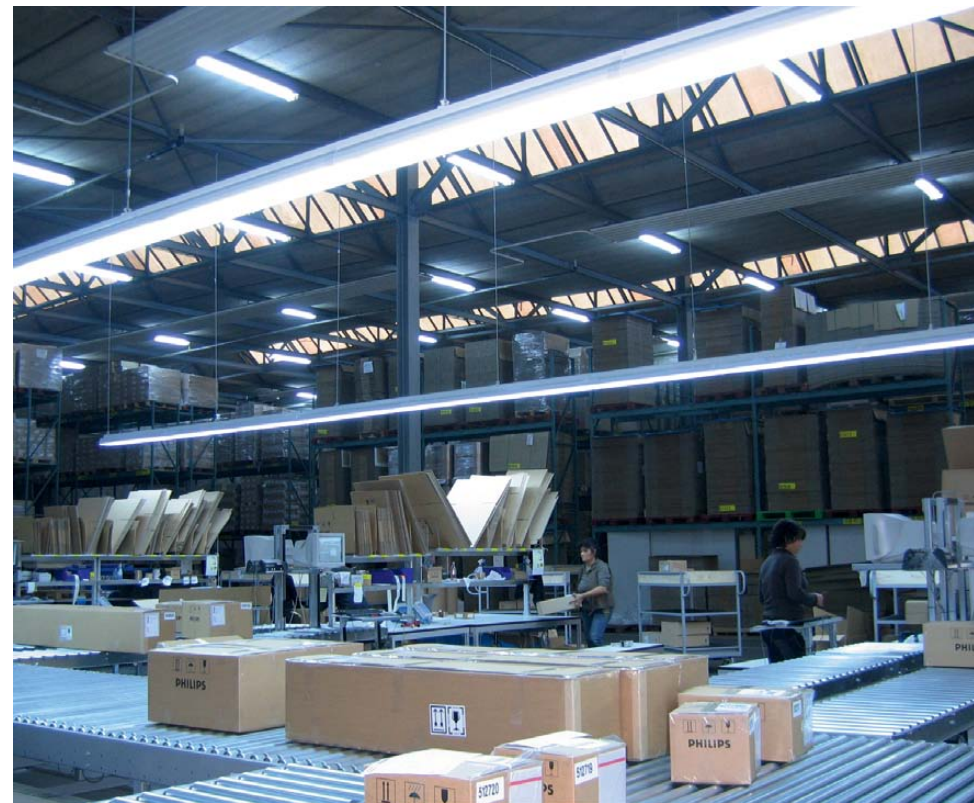
Taking real steps towards a more sustainable world requires use of energy efficient solutions. With an ever growing need to save costs & improve margins there is increasing pressure on industries to use energy efficient products including lighting. Using Philips energy efficient lighting solutions, customers can expect almost 50%* savings in energy consumption & energy costs. With such significant savings, our solutions also help customers in meeting their environmental commitments and reducing carbon footprint.

* Conditions apply



Feel what light can do for your industry

Lighting can do so much more than illuminate and show the way. It can enhance form and function, improve safety and security, and create flexible spaces that adapt to the task at hand. And in these worrying times of soaring energy prices and legislation targets, it can also help companies achieve sustainability goals that communicate corporate responsibility. We believe in energy-efficient lighting solutions for industry that reduce environmental impact and save costs, while also increasing quality and productivity.



Save energy. Save costs.

Alternative energy systems are already reducing the impact that industry has on the planet. But to make real steps forward in sustainability, lighting solutions that complement those natural sources of energy are required. With our wealth of experience in sustainable design, we can create solutions that meet your ecological and business requirements. Because green facilities are not just healthier for people and the planet. With energy savings of up to 50%, they make for better business too.

See clearly. Work better.

By working with experts, we have developed better understanding of how light affects the performance of workers in production environments. These insights have enabled us to develop lighting solutions that create safer, more productive work environments and reduce eye strain by providing the right level of light. Because when people see clearer, they can work better.

Secure processes. Protect people.

When other lighting solutions start to fail, our long-lasting products keep on going. They maintain their brightness to the end of their life, drastically reducing maintenance costs. No need to interrupt production processes or assembly lines for premature failures. Our solutions allow you to extend your maintenance cycles and plan well in advance for replacements. In fact our solutions have such a reliable and predictable life time, you need never be caught out by unexpected failures again.

As you would expect from Philips, all our Industry Lighting Solutions respect all the relevant norms required for each application area, providing a safe and comfortable working environment.



Safety

Safety is paramount in industrial environments. Our lighting solutions can make yours a safer place for people and production processes.



Safer for processes

At Philips we are constantly looking for ways to improve the safety of our lighting solutions. For areas where contamination from lamp breakages could be disastrous, closed luminaires and lamps with a protective coating keep glass and lamp components together. We also have waterproof luminaires to help you maintain a clean and hygienic workplace.

Safer for people

When it comes to looking after your people, we're just as careful. Our design consultants can create a bespoke lighting scheme that meets your exact requirements from warehouse environments to production areas and staff offices. We will tailor our solutions to optimize light levels according to each task area. So you can be sure that your staff have the right light levels to work efficiently and safely. Our solutions respect all relevant norms and with easy installation they're safer for maintenance staff too.



Upgrading makes a difference

With the effects of climate change and CO₂ emissions, saving energy is a priority for everyone. But increasing legislation concerning the use of lighting in industrial environments puts even more pressure on organizations to make the green switch. Philips can help you comply with highly efficient technologies that cut costs, not quality.

Five reasons why you should switch to energy efficient lighting

1



Savings count

Cutting your energy use makes sense. As energy costs go up, so do your overheads. Philips provides the same light quality at a much lower energy cost, meaning savings now, and in the future.

2



Easy does it

It's as simple as flicking a switch. While many energy-saving lighting systems require significant investment in adapting fixtures, Philips offers a range of easy-to-install, energy-efficient solutions.

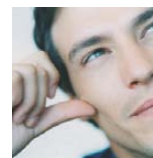
3



Good for you, good for the environment

High environmental standards are good for business. Consumers like them, and the government likes them. Internationally, investors are concerned and are much more likely to put money into green companies. As industry standards rise, it makes good business sense to upgrade your systems now.

4



Smart executives make smart choices

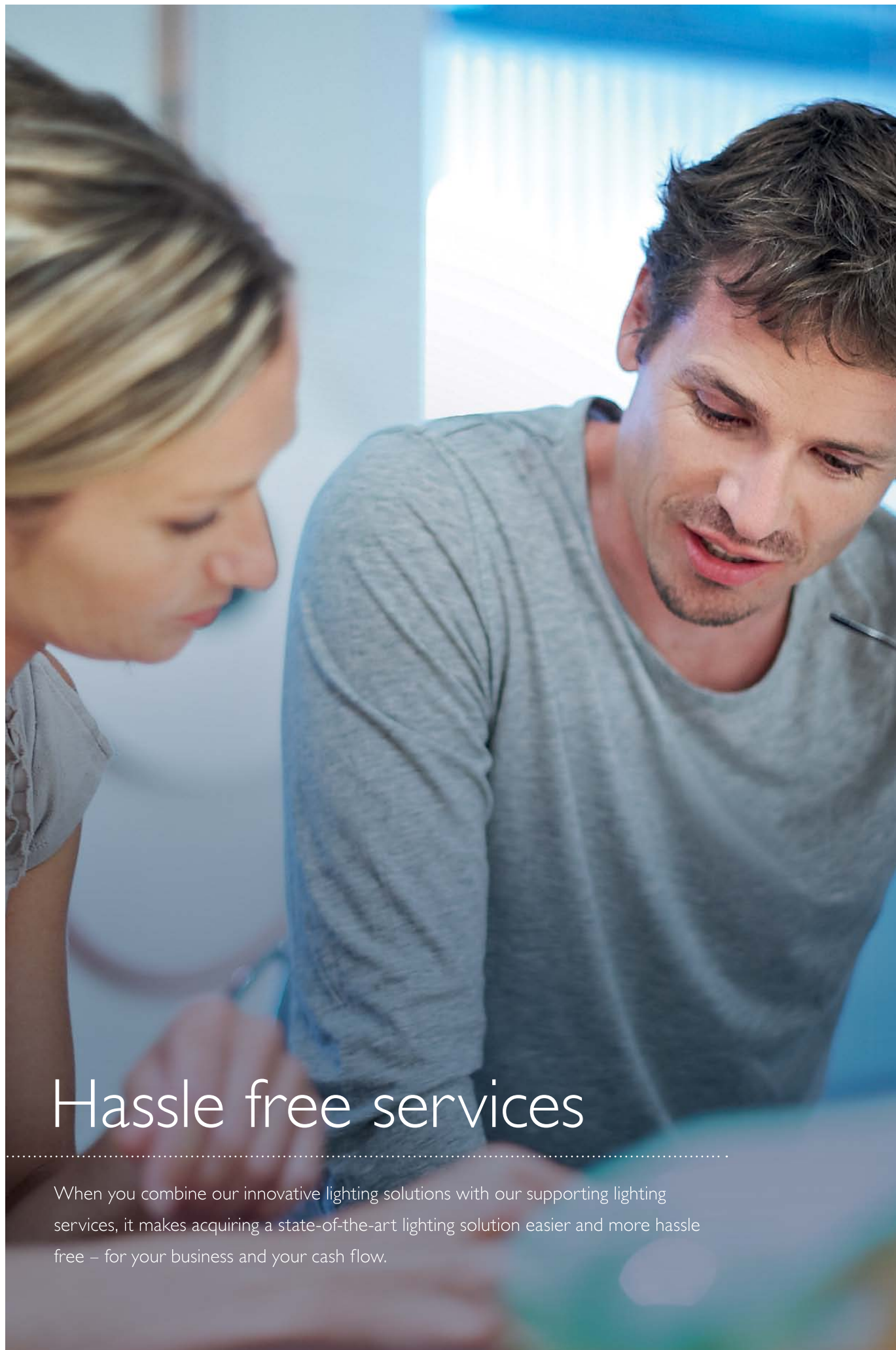
Everyone from investors and the board to colleagues like to see lower overheads.

5



Save money!

It really is as simple as that. Switching to energy efficient lighting will quickly show returns, lowering costs throughout the factory. Philips offers comprehensive lighting packages to fulfill your business needs, and obtain even greater savings with just a bit more of the initial investment. Change your lamps, gear and luminaires for maximum efficiency and savings.



Hassle free services

When you combine our innovative lighting solutions with our supporting lighting services, it makes acquiring a state-of-the-art lighting solution easier and more hassle free – for your business and your cash flow.

* Philips GreenEvolution for Industrial Lighting



Advisory Services*

We can provide clear insight into your current lighting situation, as well as into the possibilities and benefits that new lighting systems could offer in terms of energy efficiency, revenue enhancement and sustainability. The services include Energy Audits of different levels and Project Design to make potential new solutions clear, concrete and achievable.

Project Services*

Now you no longer have to deal with a wide variety of different parties to make a state-of-the-art lighting solution a reality. Philips Lighting can take on complete project management, installation, integration, and programming – either on our own or in collaboration with your preferred suppliers.

Lifecycle Services*

We help ensure that outstanding, high-performance lighting solutions stay that way for many years to come. Our Support, Maintenance and Performance provide you future proof lighting systems.

Philips Lighting Capital*

We offer a transparent, hassle-free and cash-flow-friendly payment program that makes it possible to acquire an outstanding lighting solution right away – even on a restricted budget. Our payment program covers all project costs except Lifecycle Services, with payment spread over time in line with your carefully pre-calculated energy savings and/or cash-flow profile. The goal is to help you achieve a positive cash-flow, starting from day one!

* Conditions apply

Philips Industry Lighting Products & Solutions

Our industry products can add value in many different ways throughout your facilities. In warehouses and production areas, indoors and outdoors. On the following pages you will find total solutions for six typical areas in industrial environments. The products shown are only a small selection of what is available for each particular application.



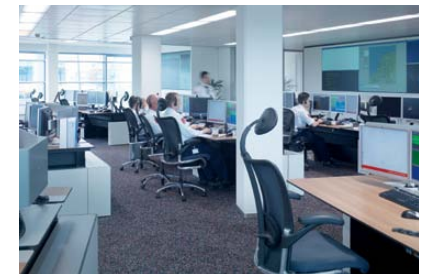
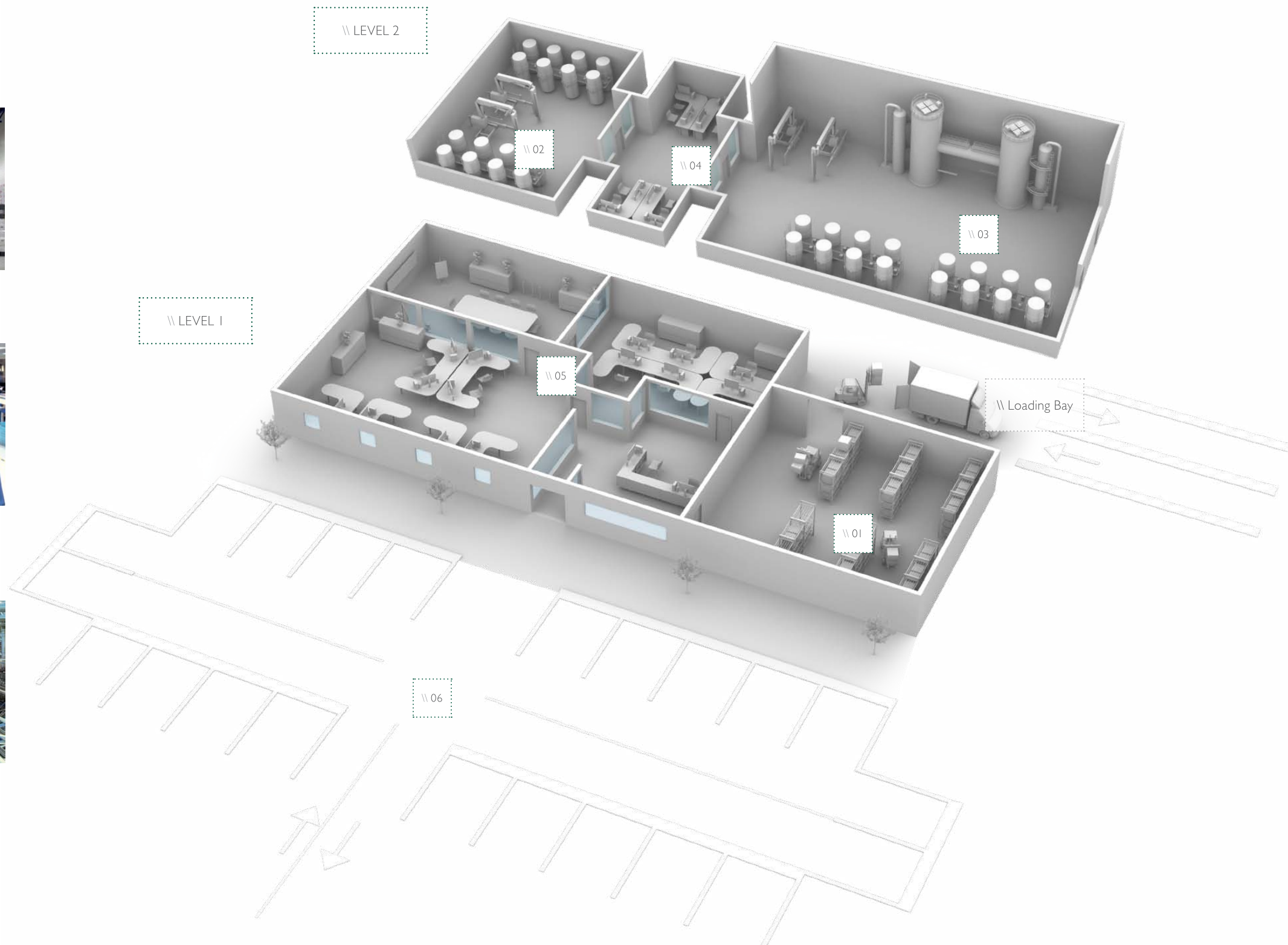
01. Warehouse



02. Production area low ceiling
2.5 to 6 meters



03. Production area medium/
high ceiling
6 to 12 meters



04. Control room 24/7



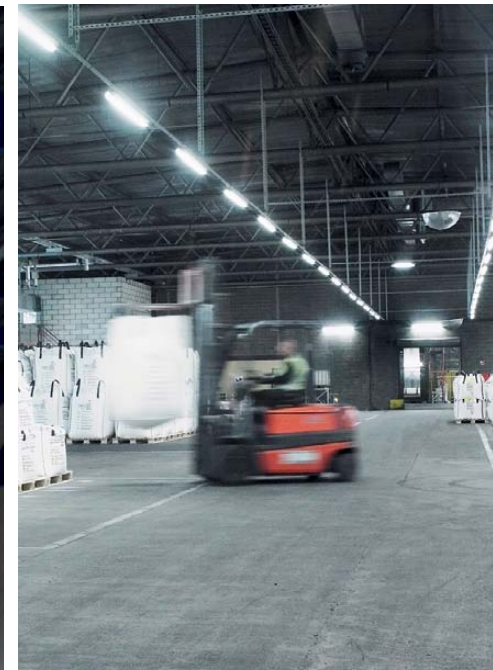
05. Offices



06. Parking and streets

01. Warehouse

Warehouses often operate 24 hours a day. Lighting plays an important role in ensuring operations take place safely and efficiently. However, activities often take place in high traffic areas leaving others illuminated but virtually unused. So can a warehouse still be green?



Greener thinking

We all feel the responsibility to switch to greener solutions. But in warehouse environments that requires careful thought. You need to consider sustainable lighting solutions that can reduce energy bills across the board, yet still meet very specific lighting requirements.

Our Philips Industry Lighting Solutions offer you the best of both worlds. Not only are they designed to reduce energy and maintenance, they also provide high quality light with good color rendering to optimize working conditions for staff. So you can make a difference to people and planet.



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Aramex Warehouse

Aramex needed a cost-effective, energy-efficient lighting solution to achieve LEED certification. Philips optimized the lighting load to 40% less than ASHRAE norms without compromising light quality by using a combination of luminaires and intelligent lighting controls. A third party sensor mounting allowed presence detection at heights in excess of 11 meters. The solution was tested and delivered with customized manuals for effortless installation.

Dubai, United Arab Emirates

Product solution

TMX204 luminaires, MASTER TL-5 80W lamps, 3rd party sensor mounting, SmartForm with LuxSense, Fugato downlights with PL-R lamps



02. Production Area

Low Ceiling – 2.5 to 6 meters

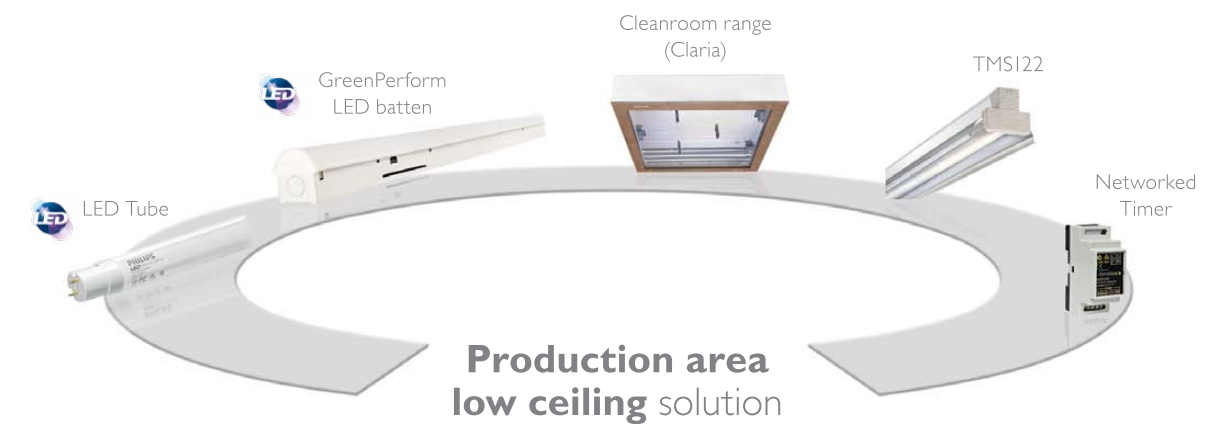
In the world of industry, light is productivity. Effective lighting not only keeps people alert and focused, it also lights up their tasks, improving performance and productivity. With fewer accidents and increased output, the benefits are clear.



Safer lighting, lower spending

In the production area, the need to improve productivity while maintaining safety is more critical than in any other areas. Add to this the increasing pressure to lower the energy consumption, and it becomes clear how lighting plays a vital role in these areas. Philips can help you with a variety of solutions that can accommodate and meet your stringent design requirements.

Improve your production area with better lighting and observe the difference in your workers. Replace the old installations with the latest LED solutions and enjoy spending less on electricity. Make your lighting system intelligent with controls and adapt to your changing activities. All this is possible when you use the latest lighting solutions from Philips.



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Arçelik A.Ş. Electronics Enterprises

Arçelik is one of Turkey's biggest electronics manufacturers with a modern production plant in Beylikdüzü, Istanbul. A fluorescent based lighting system provided just adequate lighting levels but not the expected levels of energy efficiency. By switching from standard TL-D fluorescent lamps to MASTER TL-D Eco, Arçelik achieved an energy saving of 11%, combined with an increase in illuminance of 5%. The eco-friendly, long life solution reduces maintenance and routine replacements and will also reduce CO₂ emissions by 11%.

Istanbul, Turkey

Lighting designer: Uluç Atlıg, Yasemin Çiçek, Hüsamettin Akbaş

Product solution

MASTER TL-D Eco

03. Production Area

Medium/High Ceiling – 6 to 12 meters

Whatever the size or scale of your factory facilities you can still put sustainability high on your agenda – even in areas with high ceilings.



Low maintenance lighting

Philips green solutions are hassle-free and easy to install with a low failure rate. They also have the lowest mercury content in the market. Simply fit and forget to avoid costly lamp replacements.

Our trunking solutions are high on the agenda too. With flexible, adjustable beams and high light levels they improve visual conditions and boost productivity. So you can switch to a greener, energy-efficient working environment and enhance well-being.



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L&T Steel

L&T wanted to use best products for their new plant at Hazira including best lighting products. Philips provided a range of energy efficient lighting solutions to L&T steel.

Hazira, Gujarat, India

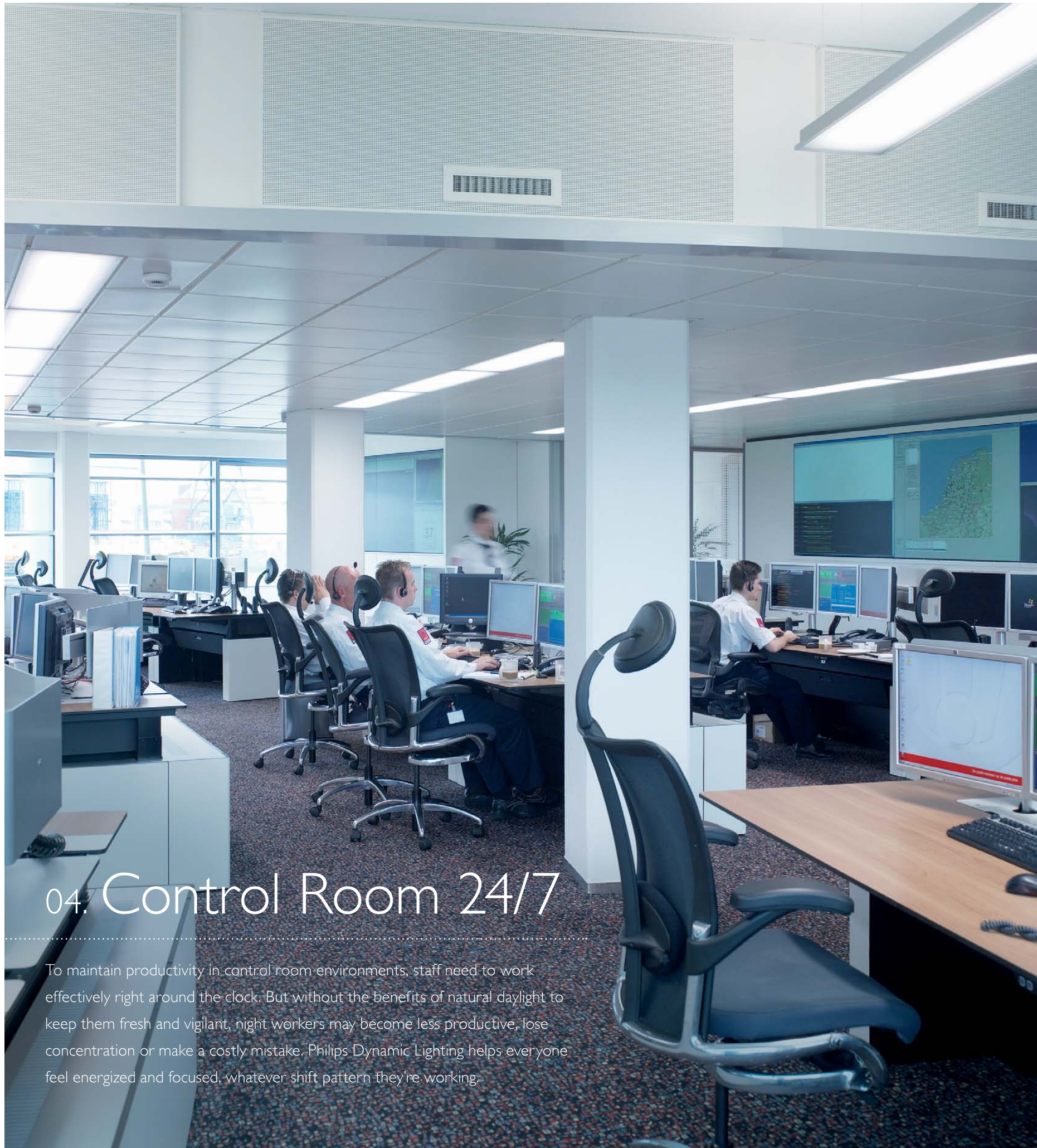
Product solution

PowerBalance 2 X 2 LED luminaires, HPK225 high bay luminaires, SON-TiPos, RVT302 and a complete luminaire

Delighted Customer

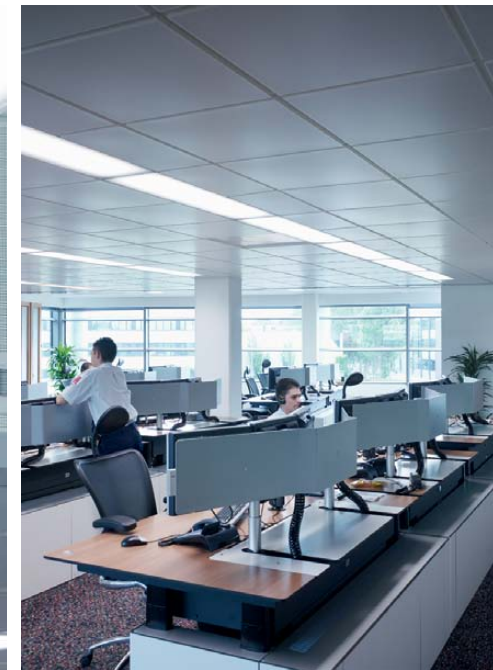
"We wanted to use best products for our new plant at Hazira including best lighting products. Philips partnered with us at various stages of the project through lighting simulations. Philips is known for its quality products and we are happy that we chose them for meeting our lighting needs."

- Mr. R. G. Kulkarni, CEO, L&T Special Steel and Heavy Forging



04. Control Room 24/7

To maintain productivity in control room environments, staff need to work effectively right around the clock. But without the benefits of natural daylight to keep them fresh and vigilant, night workers may become less productive, lose concentration or make a costly mistake. Philips Dynamic Lighting helps everyone feel energized and focused, whatever shift pattern they're working.



Dynamic Lighting

Dynamic Lighting is an advanced solution that brings the dynamics of daylight into the working environment. It creates a stimulating, 'natural' lighting ambience and allows individuals to control the lighting according to their personal preference. A subtle palette of light that enhances people's sense of well-being, improving concentration, motivation and performance.

Feel good, work better

Dynamic Lighting allows individuals to tailor the lighting to suit their task and mood, creating the right conditions to bring out the best in everyone. Make the switch in your factory and you can benefit from all advantages of Dynamic Lighting without increasing energy costs.



[product overview, page 40](#)

Akshaya Pvt. Ltd.

Akshaya needed a green office lighting solution partner for their headquarter at Chennai, Philips was selected as a green and sustainable lighting solution partner.

Chennai, India

Product solution

Cirrus LED 2X2 Luminaires and GreenLED Downlighters.

Delighted Customer

Philips lighting team partnered with Akshaya Team and provided energy efficient LED lighting solutions for their corporate office.



05. Offices

Offices in industrial settings often lack the quality of light that helps to improve concentration and performance. But that doesn't mean that you have to illuminate them with energy-draining solutions that waste resources and harm the environment. Our green solutions create comfortable work spaces that enhance well-being and save money.



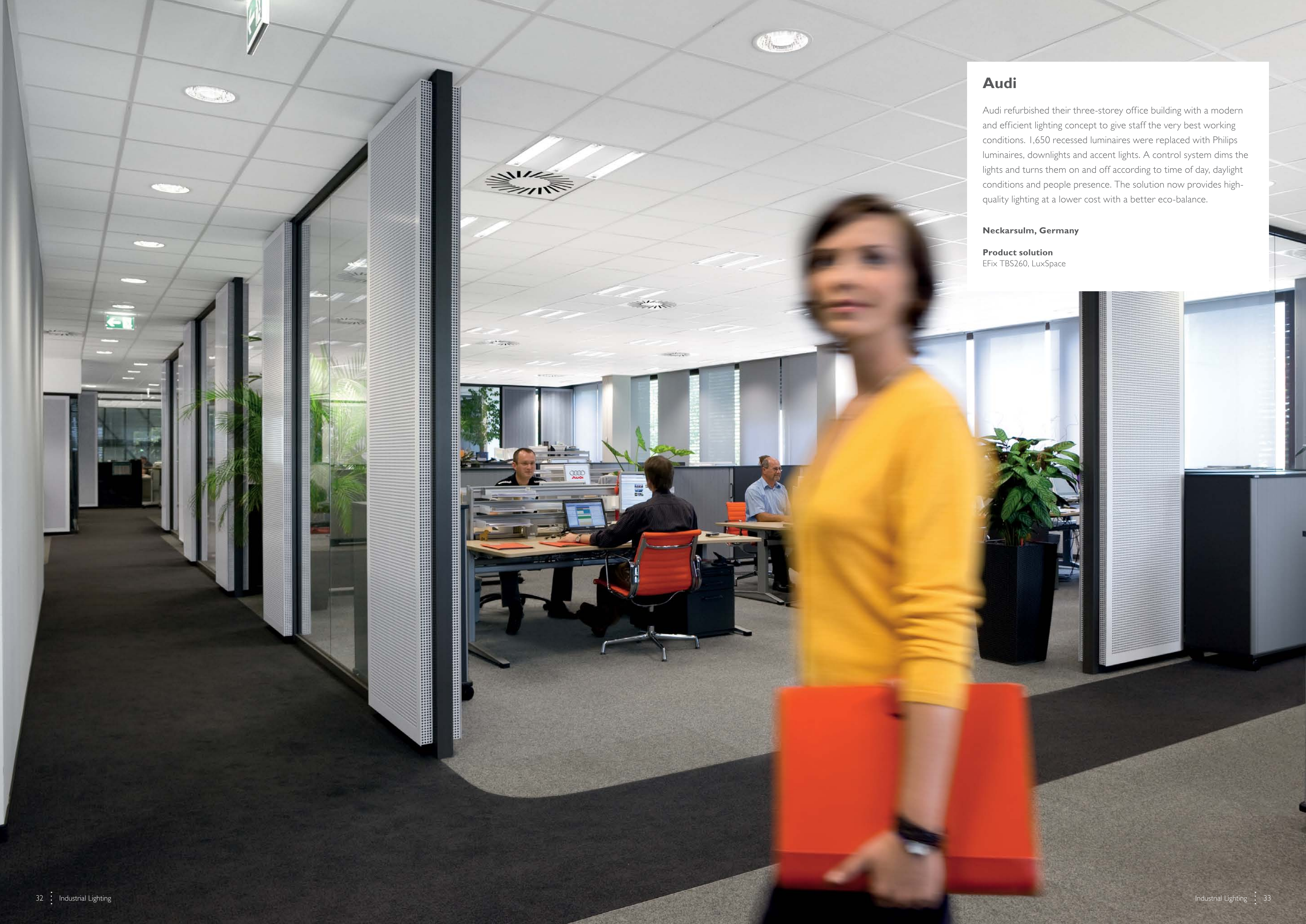
Green work spaces that feel good

When you feel better, you work better. Artificial light can play a significant role in improving how your office staff perform at work by creating a relaxed or uplifting ambience. Comfortable lighting supports people's natural rhythms and when tailored to the task at hand can increase their sense of well-being. So creating the right conditions in your offices really can bring out the best in everyone.

Making lighting choices that improve office well-being and save energy has never been so important. And there's no need to compromise on light quality to avoid rising costs. With clever solutions like OccuSwitch, presence detection and daylight regulation features switch lights on and off for you. So you can switch on even more savings.



[product overview, page 41](#)



Audi

Audi refurbished their three-storey office building with a modern and efficient lighting concept to give staff the very best working conditions. 1,650 recessed luminaires were replaced with Philips luminaires, downlights and accent lights. A control system dims the lights and turns them on and off according to time of day, daylight conditions and people presence. The solution now provides high-quality lighting at a lower cost with a better eco-balance.

Neckarsulm, Germany

Product solution
EFix TBS260, LuxSpace

06. Parking and Streets

The car park and external areas of your premises need to feel safe and welcoming for employees and visitors. But illuminating them for 24 hours a day isn't just costly, it's also a waste of precious resources. Our energy-efficient lighting solutions will make a big difference to your bills – and your green credentials.



Be seen, be green

The car park is often the first aspect of your premises that people see. The right lighting will make it feel more inviting, with good visibility and no pockets of shade. Our solutions are designed to control light distribution, illuminating large areas and providing a smooth indirect light to guide people to your door. All without creating unnecessary glare or light spillage.

Using more energy-efficient light sources for outdoor spaces that only require illumination after dark will make a big difference to your energy bills too. Add in features like telemanagement and dimming possibilities and your lighting will control costs to save you even more.



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MAN Trucks AG

MAN Trucks AG is one of the leading international suppliers of Trucks and Transport solutions. They renovated their outdoor lighting in line with the local energy saving directive. The aim was to reduce energy and CO₂ in a meaningful cost-benefit ratio and improve light quality. The attractive warm white light, luminaire and mast design are very appealing. However, the solution also delivers energy efficiency, good color rendering and a long lamp lifetime of 12,000 hours to reduce operating and maintenance costs.

Munich, Germany

Product solution

Mini 300 Stealth, MASTER CosmoWhite CPO



Product overview



01. Warehouse



LED Tube

- Upto 50%* energy savings
- Long Life > 40000 hrs*
- Eco friendly with no mercury
- No UV/IR radiation



TPS550

- Green energy efficient solution
- Best in class output ratio > 92%
- Versatile solution
- Easy maintenance



TPS330

- High on energy savings – can be used with upto 6 T5 lamps
- Housing made of CRCA sheet steel
- Very good light distribution due to high grade Al reflector
- Easy maintenance



GreenBay LED Highbay

- Instant Start
- 40%* energy saving
- Maintenance friendly
- Eco friendly with no mercury



T5 HE

- Up to 39%* energy savings v/s conventional TL lamp
- Long life : 24000 hrs
- Excellent light output
- Low mercury content



OccuSwitch Occupancy Sensor

- Plug & play operation with automatic control
- Smart savings – daylight switch/override functionality
- High quality – meets all performance standards
- Smart timer



Networked Timer

- Networked, Astronomic Timer Interface
- Create automated Lighting Tasks / Schedules
- Helps to plan & manage energy savings

* Conditions apply

02. Production Area Low ceiling



LED Tube

- Upto 50%* energy savings
- Long Life > 40000 hrs*
- Eco friendly with no mercury
- No UV/IR radiation



GreenPerform LED batten

- Upto 30%* energy savings
- Long Life : 50000 hrs*
- High efficacy > 90 lm/W
- Eco friendly with no maintenance



Cleanroom range (Claria)

- Corrosion resistant powder coated CRCA housing
- Sealed dual compartment for better heat management
- Aluminium anodized reflector for optimal lighting distribution
- Easy maintenance



TMS122

- Robust construction with CRCA sheet steel
- Wide variety of ballast & lamps combination
- High on energy savings through use of T5 lamps
- Imported anodized glossy reflector



Networked Timer

- Networked, Astronomic Timer Interface
- Create automated Lighting Tasks / Schedules
- Helps to plan & manage energy savings



03. Production area medium/high ceiling



TPS550

- Green energy efficient solution
- Best in class output ratio > 92%
- Versatile solution
- Easy maintenance



TPS330

- High on energy savings – can be used with upto 6 T5 lamps
- Housing made of CRCA sheet steel
- Very good light distribution due to high grade Al reflector
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GreenBay LED Highbay

- Instant Start
- 40%* energy saving
- Maintenance friendly
- Eco friendly with no mercury



T5 HE

- Up to 39%* energy savings v/s conventional TL lamp
- Long life : 24000 hrs
- Excellent light output
- Low mercury content



HPK225

- Compact high pressure die-cast aluminium housing
- Specially designed housing to ensure IP 65 ingress protection
- Very good light distribution through anodized aluminium reflector
- Easy maintenance



Networked Timer

- Networked, Astronomic Timer Interface
- Create automated Lighting Tasks / Schedules
- Helps to plan & manage energy savings

* Conditions apply



04. Control room 24/7



PowerBalance LED

- Upto 30%* energy saving
- Long life : 50000 hrs
- High CRI > 85
- Very good quality light through smart pyramid optics



Cirrus LED

- Upto 30%* energy saving
- Long life : 40000 hrs
- High CRI > 80
- Good quality light through high efficiency optics



Sereno LED

- > 30%* energy saving
- Long life
- High CRI > 80
- Good quality light through high efficiency optics



OccuSwitch Occupancy Sensor

- Plug & play operation with automatic control
- Smart savings – daylight switch/override functionality
- High quality – meets all performance standards
- Smart timer



Networked Timer

- Networked, Astronomic Timer Interface
- Create automated Lighting Tasks / Schedules
- Helps to plan & manage energy savings



05. Offices



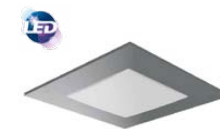
LED Tube

- Upto 50%* energy savings
- Long Life > 40000 hrs*
- Eco friendly with no mercury
- No UV/IR radiation



GreenLED

- 50%* energy savings over CFL's
- Life > 10 yrs*
- Easy installation & replacement
- Good quality light



Cirrus LED

- Upto 30%* energy saving
- Long life : 40000 hrs
- High CRI > 80
- Good quality light through high efficiency optics



OccuSwitch Occupancy Sensor

- Plug & play operation with automatic control
- Smart savings – daylight switch/override functionality
- High quality – meets all performance standards
- Smart timer



Networked Timer

- Networked, Astronomic Timer Interface
- Create automated Lighting Tasks / Schedules
- Helps to plan & manage energy savings

* Conditions apply



06. Parking and streets



SON T Eco Lamp

- Instant restart
- 30%* more life than ordinary SON - lamp
- 10%* energy savings over SON lamp
- Easy to upgrade – retrofit solution



GreenLine

- Upto 50%* energy savings
- Long Life > 10 yrs*
- Versatile application
- Wide operating voltage



GreenLine Xtra

- Upto 50%* energy saving
- Long life : 50000 hrs
- IP66, IEC 60598 and Class I Compliant
- Environment friendly product



ConTempo LED

- Upto 50%* energy saving
- Option of multiple optics (symmetric and asymmetric)
- Long life : 50000 hrs
- IP65, IEC 60598 and Class I Compliant



LED Solar Street lights

- IP65 LED luminaires ensure long lasting performance
- No maintenance except for batteries
- Independent power & light source
- Safe 12/24 volt circuit – no risk of electric shock



Networked Timer

- Networked, Astronomic Timer Interface
- Create automated Lighting Tasks / Schedules
- Helps to plan & manage energy savings



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