

**PHILIPS**

*PerfectPlay*

Recreational sports



Flexible light  
**for sports**



# Why ambition sparks innovation

As demand for recreational sports continues to grow, the ability to stand out as a club becomes more important than ever. Your members expect you to deliver exceptional service.

At the same time, you are undoubtedly thinking about some other important challenges. How, for instance, do we make our operations more efficient? And how exactly can we keep costs under control?

Just as we are seeing increasing innovation with grass, turf, drainage and other technical systems, we are entering an era in which lighting is set to drive a transformation in recreational sports facilities. At Philips Lighting, we believe that these new systems not only need to add value, but also that they should be easy to use. These new technological developments should help you reduce operational expenditure, while enhancing the experience for your members.

As new parks, courts and pitches are built – and existing ones renovated – you may want to address your long-term challenges. Thinking ahead to the ways in which you distinguish your club and give it an authentic point of differentiation, you can take advantage of digital LED lighting technology. Philips PerfectPlay is a lighting system that is very simple to use, which means that anyone is capable of controlling and adjusting the lighting for the different circumstances that arise on a court or pitch.

With PerfectPlay your lighting can be reliable, maintenance-free and operationally effective. At the same time, your local neighborhood benefits from reduced light pollution and disturbance.

It's time to be ambitious. Because lighting has become more intelligent and flexible than ever.

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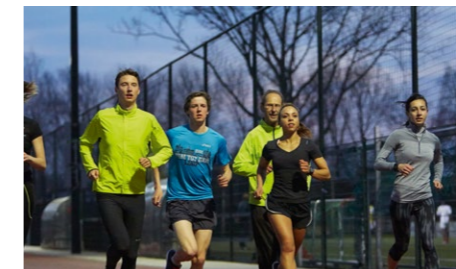
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# Who wins with PerfectPlay?

Every player, whatever their sport, wants to enjoy themselves, perform at their best and avoid injury. The light on their tennis court, soccer pitch or ice rink needs to provide optimum visibility, without glare or shadows. This is important for fast action – for example, following the ball in the game. If there are any bumps or irregular patches in the surface, they need to be able to see them as well.

For innovation, Philips PerfectPlay is exactly the right lighting system. And everyone is set to win.



## Players

PerfectPlay allows every player to achieve their true potential.

With more appropriate lighting for their pitch or court, they have an enhanced playing experience and a warmer long-term relationship with their club.



## Sports club managers

If you are running a club, you want everything to run smoothly and hope to avoid unpleasant surprises. At the same time, you want the facility to be profitable and may be worried about the amount lighting contributes to your monthly bills.

Operating PerfectPlay is simple. Each member can do it. Young or old. Without training or reading manuals. You can easily adjust your light settings for the type of activity that is going on. And create an ambience which your members find more attractive.



## Installers

Configuration and installation is easy and fast with the dedicated installer commissioning tool, making PerfectPlay an ideal solution for installers and service providing companies.

With PerfectPlay you can monitor the lighting installations and work more efficiently and effectively – ensuring your customers get exactly the service they need.

At the same time the system is future-proof and you can easily add future software functionalities without changing the entire installation or replacing components.



## City administrators

See the bigger picture and gain data insights to optimize cost savings and operational efficiency.

Modern cloud technology allows you realtime insight into energy usage across all city sports facilities, making planning so much easier.

With PerfectPlay you will save on energy consumption and it reduces carbon emissions, making your city greener and more sustainable.



# New approaches signal **the future**



## An innovative response to a changing world

Today, we live in the ultimate 24-hour society. We watch movies and TV on demand at a time that suits us. We shop at any hour of the day online, and social media is an integral part of many of our lives.

In this world of digital immersion, change and daily multi-tasking, we often crave spare time in which we can enjoy the energy, passion and exercise that comes from sport. It brings us a sense of balance, harmony, well-being and fun.

Increasingly, people are looking for flexibility to do sports in their available free time. For sports clubs and centers this calls for lighting that is truly adaptable.



## Saving money through intelligent systems

Local government faces pressure on financial resources and needs to make budget savings. Operational costs in recreational sports lighting can often be high, mainly because it is difficult to track and analyze.

Having more insights in the use of lighting in your sports facilities will help you to reduce costs.

See which courts or pitches are being used. You can dim the lights where appropriate and shut them off entirely when the last game is over.

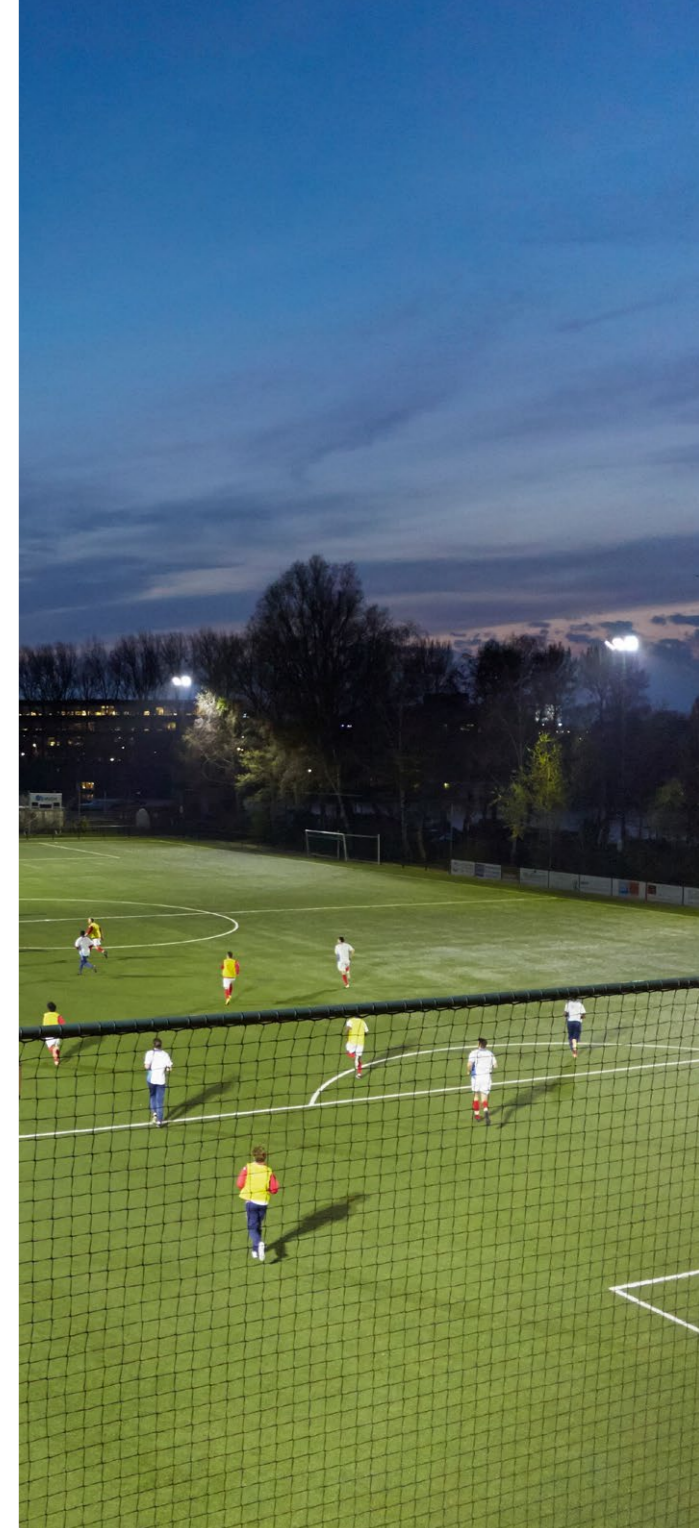


## Healthier and better for the environment

Understandably, many mayors and city councils have an objective to improve the health and well-being of their local community. After all, healthier citizens place less of a strain on welfare and state medical services.

As studies show the quality of eyesight among young people is gradually dropping through the intensive growing use of tablets, smart phones, gaming or watching TV. Unfortunately, obesity through a sedentary lifestyle is also increasing, so it is more important than ever to encourage activity through sports. It is great to be able to help teenagers socialize in a safe and healthy way.

An LED lighting system can support the creation of healthier cities and encourage greater participation in recreational sports. It uses less energy and reduces your carbon footprint. And with LED floodlights, you will also limit light pollution.



## Can I generate money as well as save it?

Through careful monitoring and proactive planning, it's possible to cut energy bills and operational costs. But when a contemporary sports center is lit more appropriately and attractively – particularly at times when playing is over – members and visitors may be more inclined to stay. This can mean increased revenue in bars, local sponsorship opportunities and other income-generating opportunities, as well as the possibility of attracting a greater number of new members.



## Reducing injuries through smart lighting?

Delivering the right quality of light minimizes glare and dark spots, increasing the performance and safety of players. With fewer black spots, and the ability to adjust the light according to use, it may be that injuries become less common. It's an intriguing idea which is likely to be researched more over the coming years.

# What is PerfectPlay?

Everybody understands the big cost implications of lighting and the need to keep expenditure down. At the same time, it is vitally important that the lighting performs effectively, meets all the essential regulations set down by sporting federations and doesn't distract neighbors in the area nearby.



## Smarter thinking?

New innovation will likely bring together the worlds of smartphones, tablets, apps and recreational sports lighting. In the near future, it may become possible to adjust the lighting on the move rather than from a fixed location in the clubhouse or an office-based PC. Smart control is the smart answer for the flexibility your club members need.

PerfectPlay is an intelligent sports lighting system which offers huge potential to reduce energy costs and other operational expenditure. The system improves the quality of the light on the pitch or court, and ensures easy control of the lighting by offering different light settings, matching the activity taking place.

PerfectPlay offers all the standard features you would expect from recreational sports LED lighting, but also goes so much further.

And it is all possible with dedicated, control devices that are tailored to your way of working and needs. The way you operate PerfectPlay will really depend on your sports facility. Philips Lighting offers three different versions of PerfectPlay. Each works with DALI driven Philips LED floodlights.

When at least one field or court is equipped with LEDs, it is also possible to connect your existing conventional floodlights to PerfectPlay. In this way, you can gain experience and plan your renovation stage by stage. With conventional floodlights you can only use the switch on/off setting.



### PerfectPlay standard features:

- The right quality of light—improving visibility and safety during sports and reduced light pollution
- Energy efficiency, saving on costs and promotes the green credentials of your sports club
- Low maintenance costs due to the long lifetime of LED lighting
- Meets requirements of international and national sports federations for different lighting classes

### PerfectPlay additional features:

- Simple control device that anyone can operate
- Option to produce reports on lighting consumption and usage
- Reliable communication via power-grid cables only
- Dedicated installation tool for easy re-configuration and system upgrades
- Remote support and hassle-free software upgrades
- Multiple user groups and profile authorization possible, to ensure security and guarantee additional energy savings
- Remote access to system parameters to conduct system condition checks
- Future-proof architecture thanks to cloud technology
- Easy retrofitting – cutting out disruptive and costly cable works

### Panel

This is the traditional way to trigger light settings via push buttons or a panel that can be placed on a cabinet, pole or operated from the clubhouse.

Choose between a number of simple visualized light settings on the panel, depending on the way in which your playing areas are being used. If you don't require full 'match' illumination for a training session, for instance, simply select the 'training' icon. You can even split a field in half and illuminate only one end of it, creating the possibility for additional energy savings.

### Tablet

This wall-mounted or portable tablet has a dedicated simple interface with the same functionalities as a panel. Thanks to a tablet device, it is possible to see all your courts, fields – and even pathways – on a single page.

You are able to authorize a list of users with various login accounts who will be able to control the lighting, and even assign a relevant profile to each user. For example a trainer will likely be able to control only training field settings. In this way the facility can save more on energy costs, because training sessions usually take place in the evening and do not require high lux levels.

### Smartphone\*

Just like with the tablet, an authorized user, such as a club manager, will be able to control lights from a different location via his or her smartphone with a personal password. For instance, late in the evening, you can check and override light settings or switch lights off without visiting the sports facility.

\*The smartphone version is available from June 2017.



# Improved experience for players

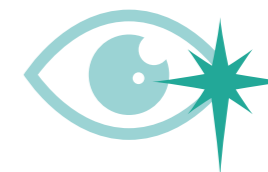
Ultimately, every recreational sport is about the players. They are the people who bring the sport to life every day and every night of the week.

Most of the time, players will only think about the lighting when it becomes an obstacle to the enjoyment of the game. But there are different ways in which they can benefit directly from the PerfectPlay system.



## Better flexibility

PerfectPlay is easy to operate and you can change the light settings to fit your needs.



## Better vision

PerfectPlay with LED provides maximum comfort and minimal glare, so playing is an even better, safer and more enjoyable experience.



## Better atmosphere

Lights can be used to enhance the sense of drama and excitement during games and create an atmosphere which improves socializing afterwards.



## Better ambience

PerfectPlay provides the right lighting to ensure that members and guests feel safe moving in and around the sports facility.



# Improved experience for managers

As a manager of a sports facility or perhaps a volunteer who is responsible for helping to run your sports club, you want to know that your lighting is reliable and designed to create the best-possible playing environment.

But what if it could help you in other important ways too?



### More flexibility

You are able to change light settings at the touch of a button, ensuring that players feel more comfortable and that the local neighborhood isn't affected by unnecessary light spillage.

Close down the system at the touch of a button from a clubhouse or from a portable device, and keep on good terms with your neighbors.



### More savings

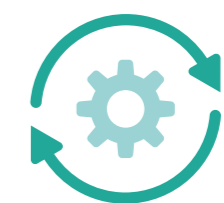
Operational expenditure is reduced through lower maintenance costs and more efficient use of energy. With cloud technology, your maintenance company can cut down on costly site visits.

If you make use of LED technology, it's easy to see real energy and cost savings.



### More business opportunities

More comfort for the players, who feel at home in the club and want to spend more time in your bar, restaurant or terrace, giving opportunities for additional revenue generation.



### Future-proof

Thanks to the connection to the cloud, you will benefit from low-cost upgrades and new software features, meaning the system can develop and improve over time.

You can decide which users can control lights and what control profiles they will have.



# Improved installation and servicing

As a service providing company or installer, you want to deliver high-quality work as quickly and efficiently for your clients.

But the process can be costly and often you are reliant on traveling from site to site – leading to an increase in time and expenditure.



## Improved installation process

The PerfectPlay system can be retrofitted, while the initial set-up is simple and efficient, as the majority of system components are located in one main cabinet and therefore easy to install.

Everything else installed on the sports field does not require commissioning and configuration. In this way installation and maintenance are easy to do.



## Improved information flow

With the PerfectPlay installer software tool you can have full access to system parameters and undertake remote re-configurations.

You can do the commissioning yourself, without involving other companies. It will give you an access to the system with administrative rights. You are also able to add or remove user logins, that will be authorized to control the lighting installation. It is a convenient and simple approach that can enable a faster, better-quality service for a reduced cost.



## Improved maintenance planning

Reduce servicing and travel costs by fixing problems and requests remotely and plan any maintenance visits more efficiently.

You can also use the installer software tool for preliminary diagnostics from a remote location. It may often be possible to diagnose an issue without a need for a maintenance appointment. PerfectPlay allows you to prepare for your site visit in a better way.





# Improved operational performance

As city administrator, you may have responsibility for lighting in a range of different indoor and outdoor recreational sports facilities.

But how can you ensure that each is operating energy efficiently?



## More control

Issue warnings to recreational sports centers which are using too much energy or overriding the advised lighting limits.



## More flexibility

Imagine being able to plan and control lighting remotely via the cloud 24/7 – even when you are travelling. PerfectPlay allows you full transparency over the amount of energy being used and allows you to select different light settings at will. Gather essential data from all the sports facilities you manage and see it displayed on a simple dashboard as a status diagram. When the situation arises, adjust the settings at any remote location.



## More savings

PerfectPlay brings a new transparency to lighting and can play an important part in reducing costs. Which courts or pitches are being used? Are the lights still on when the last of the players have gone home? What is the overall energy consumption of a specific sports club?

Through cloud technology, you are able to manage and monitor all this information remotely, and react where necessary.

Maintenance becomes easier too, as any problems are quickly pinpointed by the technology, allowing you to prioritize callouts, plan ahead and minimize expenditure.



## Increase well-being and sustainability

The PerfectPlay lighting system can take on an important role in creating healthier cities by encouraging greater use of recreational facilities and enjoyment of sports.

It is good for a city's sustainability too. PerfectPlay lighting system uses less energy and reduces the carbon footprint. Besides the LED floodlights will also limit light pollution which is good for the environment.

# PerfectPlay system specifications

System features	Specifications
<b>Dimmable floodlights</b>	Philips LED floodlights, DALI driven
<b>Conventional floodlights</b>	Supported, only On/Off setting
<b>System cabinet controller</b>	Connected GPRS with M2M SIM, DIN-rail
<b>Network communication</b>	Existing power grid (220-480V) via Coded Mains
<b>Lighting control network</b>	Proprietary via Coded Mains, 2-4V, DIN rail, DALI
	Coded Mains transmitter, DIN-rail
	DALI Coded Mains receivers, 1 per 4 drivers, mounted on the driver
	Power circuit communication distance, unlimited
<b>Power grid</b>	Single or multiple circuits, Line-Line or Line-Neutral, 220 V – 480 V
<b>Dimming steps</b>	4 pre-defined light settings (match, training, comfort and off), in total 11 programmable settings and can include half field dimming
<b>Architecture</b>	Cloud-based with Philips Lighting service support
<b>Security</b>	Identity server, dedicated APN, double layer authentication
<b>Control device</b>	Panel, via RS-485 cable or dry contact
	Tablet or Smartphone, Android and iOS supported
<b>Control interface</b>	Tailored web application, matching the sports facility requirements

## PerfectPlay user control devices



Panel



Tablet



Smartphone

## PerfectPlay ready floodlights



### OptiVision LED gen2

A new era in smart area and recreational sports lighting

- Innovative floodlight with dedicated optics that ensure maximum optical efficiency and enable accurate light distribution with a minimum of spill light
- Advanced Philips system controls and sensors enable additional energy savings (up to 65%) in area lighting applications
- Minimized maintenance costs thanks to longlasting LEDs and the floodlights' thermal management system



### ClearFlood Large

The best solution for 1:1 retrofit

- Fast payback and low total cost of ownership with energy savings and minimum maintenance costs
- Multiple control options ensure increased efficiency with intelligent lighting
- Combination of lenses and flux options ensure high level of project flexibility



### ClearFlood

Real LED solution for sports lighting

- Designed for 1:1 retrofit, with high energy savings and a fast return on investment
- Easy to select the required lumen performance
- Five different optics ensure versatility in application
- Ideal for small-scale recreational sports facilities



### GentleSpace gen2

New standard in high-bay lighting, combining functionality with design

- Extremely long lifetime of 70,000 hrs
- Maximize savings on energy and maintenance costs
- Suitable for a broad range of applications, even in extreme conditions
- Compliant with all relevant norms
- Available with dedicated indoor sports optic A



### SportsStar LED

Innovative LED floodlight that meets the challenges of both area and sports lighting

- High quality optical distribution with high performance and effective light control
- Projects the light exactly where it should be going
- Suitable for retrofit and new installations
- Lumen packages vary from 50,000 to 100,000 lumen

