PHILIPS

Arena & Stadium

ArenaVision

Sports lighting system

Create excitement in your venue

Professional sports and entertainment is a unique environment. While top-level conditions must be created for players, performers, fans, media, broadcasters, and sponsors, generating excitement is also fundamental to creating a great experience for everyone.



Empowering venues to **offer a truly winning experience**

Multi-purpose venues for professional sports and entertainment are unique spaces. When the lights turn on, everyone wants to win, from the players to the performers to the visitors and commercial partners. The name of the game is success, today and into the future.



Ekinox Arena, Bourg-en-Bresse, France

As a venue manager, you want to create top-level conditions for all stakeholders. Players, performers, fans, sponsors, media, broadcasters, and everyone else involved in an event want to enjoy their experience to the fullest.

At Philips Lighting, we know that excellent lighting is a powerful factor for making venues comfortable and exciting so that everyone wins and wants to come back for more. Because sports and entertainment events are highly visual and diversified, getting the lighting right is crucial.

But creating the right lighting conditions isn't always straightforward. Different stakeholders have different needs and requirements, and striking the right balance is key. Also, you need to know which lighting systems are available today and what is possible for your venue. That way, when you're ready to take the next step, you can be sure it will pay off!

Together we bring light beyond illumination, making your venue's day-to-day operations less complex and improve your business performances.

ArenaVision system features

From sporting events to live concerts, Philips ArenaVision sports lighting system has everything it takes to make each event a spectacular success.



- Ultra-efficient optics for maximum design flexibility and best quality of light
- Interfacing with building management systems
- Integration of multiple floodlight types into a single show
- Integration of light, audio, and video scenes
- Remote diagnostics and management
- Significant maintenance cost savings
- Seamless interfacing with external event consoles
- Secured UI support for mobile devices
- Customized user interface for different types of events
- Flexible and fast dynamic lighting scenes
- Instant control of floodlights
- Super slow-motion broadcasting is flicker-free and future-proof



Flexible and **easy to operate**

Operators of today's sport and entertainment venues want to create visually stunning experiences for their fans and partners. They want to ensure that their venues are flexible and multi-use while reducing their operational costs. These are all needs that LED can satisfy. Venues can potentially cut their electricity bills in half, maximize revenue potentials, and also realize significant savings on maintenance costs.



Philips possesses many decades of expertise in sports and entertainment lighting, and has contributed to industry standards for premier events and sports federations worldwide. We partner with our customers to offer the right technology at the right time, so that you can always depend on top performance and top quality. LED lighting has transformed venue performance over the past years, boosting comfort, flexibility, and excitement to new levels.

Philips ArenaVision is a feature-rich system which can be designed to meet your specific needs. ArenaVision system features include instant on/off; dimming; full controllability; and high-quality, flicker-free pitch lighting that meets the latest broadcasting and sports federation standards, as well as high-end entertainment event capabilities. With the ArenaVision system, you can create stunning static or dynamic lighting effects for unforgettable experiences. Illuminating your venue with ArenaVision system will excite players and fans and make every match or show an exciting event.

Before, during, and after a match, the future-proof ArenaVision system switches easily among lighting settings to create the right atmosphere, improve safety, or support crowd-flow management. As a venue operator you only have to select pre-programmed scenes via the system's user touch panel. You can even connect the system to an external event console, and fully integrate the floodlights into a spectacular lighting show.

Turn your stadium into an outstanding, attractive, and welcoming venue that provides unforgettable experiences for fans, players, sponsors, media and broadcasters.

Enjoy full control of your venue's illumination: easy to oversee, always at your fingertips with reliability, giving you peace of mind


ACC Liverpool, UK

Transform stadium and arena lighting

Multi-purpose venues

Whether it's a rock concert or a stand-up comedy night, the light will perfectly match the mood and heighten everyone's spirits.

Indoor arenas and outdoor stadiums

Perfect lighting keeps everyone on the edges of their seats when a sports match reaches its stunning conclusion, or it can transform your arena or stadium into a giant stage for special entertainment events.



Ekinox Arena, Bourg-en-Bresse, France

Elevate enthusiasm in the crowd

System **solution bundles**

You can choose between dedicated ArenaVision system packages to maximize value at a reasonable cost. With the solution bundles you can adjust the system's functionality to suit your venue's commercial purpose. It is an excellent investment for the short and longer term. The complementary bundles are offered separately and support on-site feature upgrades.

Eco
Get flicker-free LED sports field lighting with functionality similar to state-of-the-art HID floodlights. Features include instant on/off switching, flicker-free performance, and a range of dimming levels.

Effects
Enjoy pre-programmed personalized scenes, dynamic lighting effects, tablet support, synchronized light and sound effects, support for multiple floodlight types, and targeted remote diagnostics.

Experience
Tailor your venue's lighting for multiple purposes. Get all the benefits of a DMX-controlled LED floodlighting system, but with the added ability to access every single floodlight, when these are used in light shows by entertainment production companies and lighting designers. This package is compatible with all major entertainment consoles to enable full-featured entertainment shows.



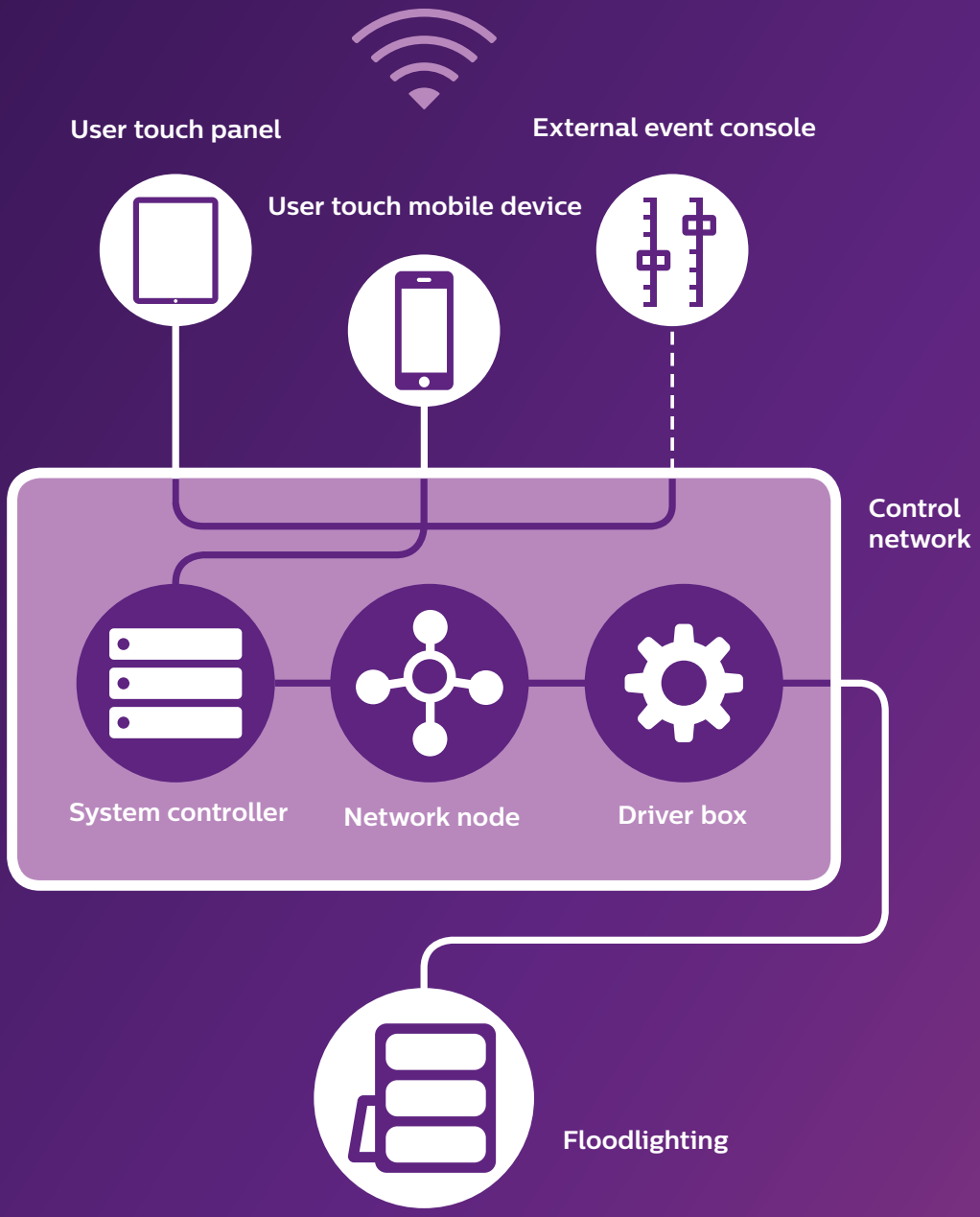
	Eco	Effects	Experience
LED floodlights Top light quality External driver box	+	+	+
Control network Ethernet, Art-Net, Simple User Interface	+	+	+
Switch modes Static & Dynamic Tablet User Interface	–	+	+
Effects features Light & Sound Multiple fixture types	–	+	+
Remote access Diagnostics Quick resolution	–	+	+
Connectivity External light console Entertainment fixtures	–	–	+





System **control network**

ArenaVision system is enabled by a fully-scalable system architecture which incorporates a dedicated controls network and software applications. An intuitive user interface, such as a tablet, can be used to manage full system functionality in a simple and convenient way.





Floodlighting

ArenaVision LED floodlights illuminate the selected pitch area and/or first rows of the stands. The floodlight is available in 8 different optics to meet a wide range of lighting installation need. Floodlights will be aimed to ensure absolutely perfect horizontal and vertical light uniformity.

Driver box

The driver box houses the advanced connected electronics that supply power to and control each ArenaVision LED floodlight. This connection is used for on/off switching, dimming the lights, thermal management, and so on.

Control network

Dedicated scalable Ethernet with Art-Net protocol. All system components are connected and can be controlled via this network.

Network node

The network node is a DMX interface that converts Art-Net protocol into DMX-RDM commands. Each node can drive up to 128 drivers.

System controller

This is the central lighting settings controller, where all static and dynamic light scenes are stored. Scenes are triggered via commands over Art-Net.

External event console

For special events, an additional external event control device can be connected. Simply press a virtual button on the user touch panel to grant the device access to the external event console. Philips can supply external event controllers if needed. The ArenaVision system facilitates toggling control to an external event controller and back.

User touch panel / mobile device

For easy lighting control, use a network-connected touchscreen or mobile device. An intuitive design offers an easy way to activate pre-defined scenes to users, while the buttons' designation can be perfectly tailored to the venue type and usage profile. A selected button is always highlighted, so you are always aware of which scene is active.

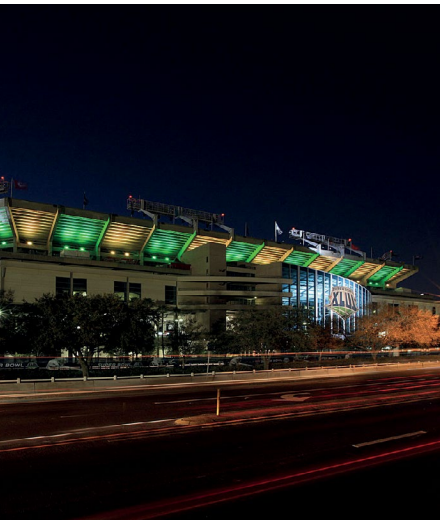
A look at some **Arena experiences**

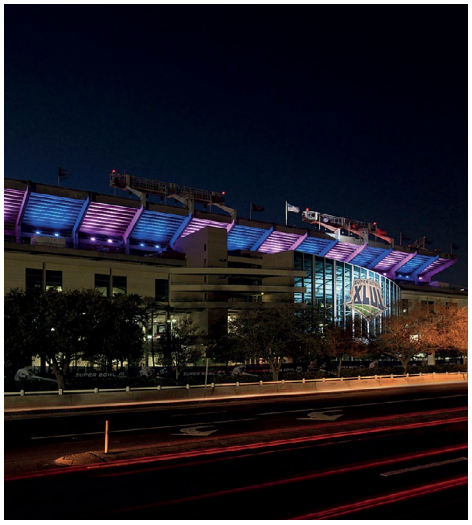


Maracana Stadium – Rio de Janeiro, Brazil

Philips lighting systems deliver quality, high-performance illumination that astonishes spectators, performers and athletes across the globe

Photo Credits: Luiz Dianese

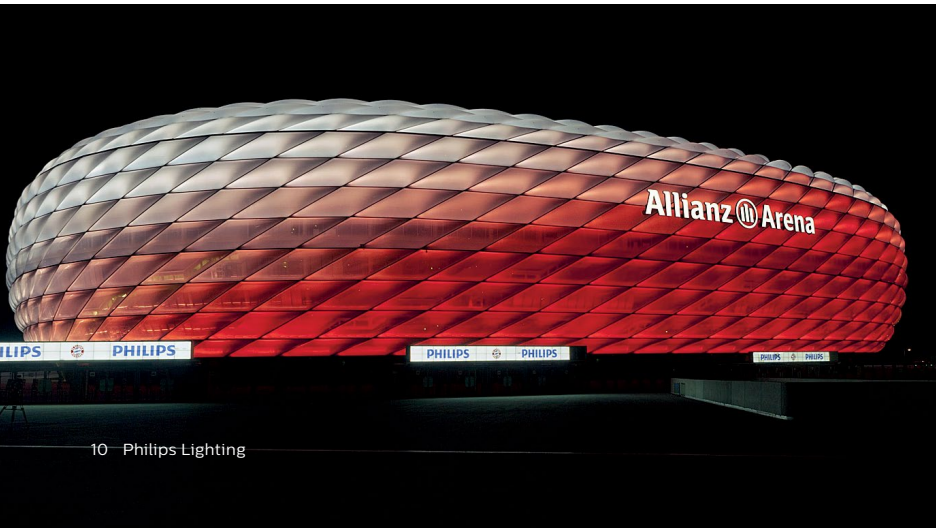




Super Bowl XLIII – Tampa, Florida

Philips lighting systems change the venue to the event to enhance the experience

Photo Credits: Stephen Kovich



Allianz Arena – Munich Germany

Philips lighting systems intensify the emotional experience in the Allianz Arena before, during and after the match. Fans and television viewers enjoy unique lighting effects.

Offering **services and sustainability**

Delivering a complete solution for your stadium and arena

Philips offers complete end-to-end services that will help you with several tasks and minimize the risk of your investment. Our services are available separately or can be combined to create a tailor-made package, guaranteeing a coordinated turnkey solution.

1. Define your objectives and needs
2. Determine your lighting requirements and design the lighting system
3. Provide you with a customized finance solution
4. Arrange for installation and commissioning of the lighting system
5. After care services such as monitoring and maintaining of your lighting installation adjustments are needed.

Customer Care & Maintenance

- Operational training
- 24/7 customer care
- Responsive maintenance





Identify Your Needs & Objectives

- Audit your venue
- Define your lighting needs



Total Lighting Solution



Turn-key Installation Services

- Experienced project management
- Cost and time efficient
- Single point of contact

Design Solution

- Measurement and verification
- Efficient design
- Advanced technologies
- Cutting edge lighting products
- State-of-the-art control systems



Customized & Competitive Financing

- Collaborate to customize a competitive financing plan

Philips is a technology company that strives to improve people's lives and make the world healthier and more sustainable through innovation.

Refer to our current sustainability brochure online for more information:
http://www.philips.com/b-dam/corporate/about-philips/sustainability/downloads/brochures/Philips-approach-to-sustainability-brochure.pdf

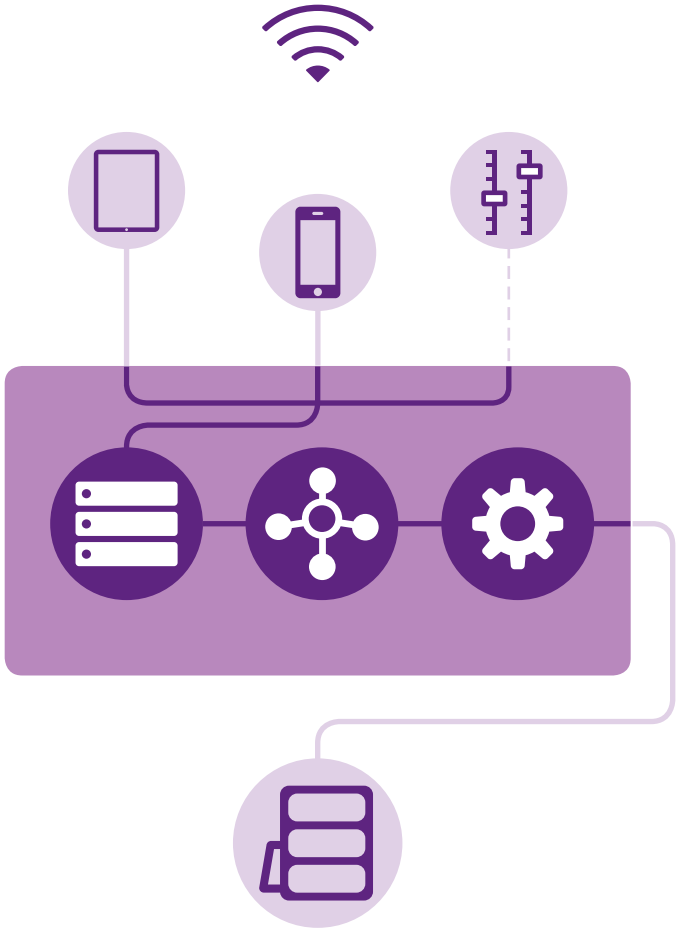
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CDP™ CLIMATE DISCLOSURE LEADER 2015

ENERGY STAR AWARD 2015
PARTNER OF THE YEAR
Sustained Excellence

ROBECOSAM
Sustainability Award
Industry Leader 2016

Technical **specifications**



ArenaVision system specifications

System features	Specifications
Touchscreen	Programmable UI layout
Tablet, smartphone	Android, iOS
System controller	Programmable, DIN-rail mounted
Control network - Ethernet - Art-Net / UDP - Refresh rate - Network cabling - Cable length	 (IP layer 1 and 2) (IP layer 3 and 4) 40 per sec Fiber Optic or CAT5/6 Within venue
Floodlight control	DMX-RDM, multiple universes
Scalability	Up to 2,000 floodlights
Support floodlight types	DMX, DALI, KiNet
Synchronization accuracy between floodlights	< 0.02 s
Mains grid control support	Relays via Ethernet
Floodlight full diagnostics possibility	On-site and remote
Secured remote access for diagnostics	Customer override
Audio and light effects	Synchronous
External event console support	Art-Net
Software upgrades	On-site and remote



BVP420



BVP978

ArenaVision LED floodlight main specifications

Floodlight features	Specifications
Type	BVP420 (3-module) or BVP978 (2-module)
Luminous flux	Up to 149 klm (at CRI 70)
Correlated Color Temperature	5700 K (+/- 400 K) or 4500K (+250/-200K)
Color Rendering Index	90, 80, or 70
Flicker percentage	< 2%
Lifetime	LED lifetime L80 up to 50k hrs - total system lifetime depends on application and design choices
Optics	From 10x10 to 38x30 (7 optics)
Mains input voltage	120V, 208V, 240V, 277V, 347V or 480V all 50/60Hz
Terminals for mains wires	Push-in terminals for wires up to 16 AWG; cord seal is M25 thread, 1/4"-1/2" grip range for cords up to 16 AWG (no thru-wiring in/out)
Material	Housing: Aluminum Optic cover: UV protected PC
Operating temperature range	-30°C to +45°C, -22°F to +113°F
IP and IK ratings	IP66, IK08
Accessories	External spill-light control louver
Luminaire mounting and aiming	Molded aluminum U-shaped mounting bracket (same finish/coating as luminaire), fixation with standard bolts and nuts, aiming: -90° / +90° with protractor scale with 5° intervals (do NOT aim upwards in uplighting applications), precision aiming device available
Control interface	DMX-RDM
Certification	cULus Wet Location, RoHS, DLC QPL



ArenaVision LED driver box main specifications

Driver features	Specifications
Type	EVP428 (3-module) or EVP978 (2-module)
Wattage	923W to 1408W (EVP420 3-module), 625W to 954W (EVP978 2-module)
System efficacy	up to 116 LPW (EVP420 3-module), up to 118 LPW (EVP978 2-module)
Lifetime	driver lifetime 50k hrs - total system lifetime depends on application and design choices
Mains input voltage	120V, 208V, 240V, 277V, 347V or 480V all 50/60Hz
Material	Housing: Aluminum
Operating temperature range	-30°C to +45°C, -22°F to +113°F
IP rating	IP66
Driver type	Included inside driver box
System surge protection	10 kV standard
Output to luminaire's electrical connection box	Cord seal is M20 thread, 1/4"-1/2" grip range for cords up to 16AWG; 3 cables of 7-core each (cables not supplied)
Remote mounting	Up to 374 ft
Certification	cULus Wet Location, RoHS, DLC QPL



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Philips Lighting
North America Corporation
200 Franklin Square Drive
Somerset, NJ 08873
Tel. 855-486-2216

Philips Lighting Canada Ltd.
281 Hillmount Rd,
Markham, ON,
Canada L6C 2S3
Tel. 800-668-9008