

Petrarca

Outdoor Sports Lighting

Precise and shiny lighting so as not to
lose any detail

* **arianna**
light looking forward

Your talent, our patent _____

Light up the game with your talent, we will take care of the playing field.

Some people play sport professionally, amazing both adults and children with their outstanding skills, others simply give their best on Monday night football with friends.

There are star players and amateurs, professionals or simply hobbyists, those for whom sport is a job and those for whom it is a passion.

And then there is Arianna. Whether for passion or work, we want the best for you. We dedicate our ongoing commitment, our development efforts and our research to you. You deserve the best, which is why we too have given our all. Lighting systems that guarantee brightness without glare or annoying flickering, the best lighting for television broadcasts or the photos you take of your children.

Some people put in sweat, some study. Some focus on technique, others on analysis. Some have great passion, others love development. No matter what you have to give, what counts is to give your best to reach your goal, just like we do at Arianna: tireless research to ensure the best for athletes and spectators, for performance and for the spectacle.

Cutting-edge technology, modularity, our total reflection patent, innovative radial thermal design, remote control and savings; these are the attributes that we have brought to the game to win our most important match: the chance to give you the best. All finished off by our centre-forward: our services, prompt support that makes a great product into a top player.

Details make the difference. Technique, physical and mental preparation, competitive spirit, passion. These make the difference for a player.

Research, development, a unique patented system, the savings we offer our customers, the services we guarantee. These make the difference for us.

Arianna and its LEDs guarantee total, uniform lighting, without glare, a perfect view for players and spectators on every part of the pitch, field or court, from whatever angle you are looking at it.

Light up the game with your talent, we'll take care of the playing field.

Arianna



Our product

For sports lighting, Arianna has designed a single product, a solution for all **different lighting requirements**.

Petrarca is a modular spotlight that, with five different configurations and luminous flux from 3,000 to 155,000 lumens, ensures the right lighting for every space and every situation. Petrarca optics are designed to guarantee maximum performance and reliability: silver-coated aluminium reflectors with maximum reflectivity (97%).

By applying the total reflection patent to the reflectors, the spotlight can guarantee very high efficiency (module efficiency up to 170 lm/W) without glare.

The compact and modular shape facilitates installation, while the use of high-quality materials means maintenance is reduced to a minimum, ensuring long life for the entire system.

Petrarca: the LED solution that multiplies energy savings in sports installations, from design through to the configured lighting system.

Our numbers

Sport light solutions Arianna: the response you were looking for

High modularity: Petrarca's configurability means the Arianna design team can provide solutions that consume only the power that is needed, while ensuring the right light for every situation, from small paddle courts to large football stadiums.

Radial thermal design that disperses heat in the most optimum way, guaranteeing long system life with the objective of zero maintenance.

Patented reflection optics the light source is concealed from view, ensuring very high levels of visual comfort that allows players and the public to enjoy the sporting experience with zero glare.

Innovative remote control systems to ensure exactly the light that is needed is provided for training, competition or partial use of the facilities, guaranteeing comfort, efficiency and minimising power consumption at all times.

5

Year warranty

50%

Maintenance savings

80%

Energy savings

100%

Made in Italy

Lighting Requirements

Every sport has its own standard lighting requirements, which change according to the type of game, the speed at which it is played, and how far away the spectators are. Required lux values on the playing field or court vary from 75 to 500, depending on the class (I-II-III).

Indeed, every field or court has its own unique characteristics, and therefore no lighting project will be exactly the same as another. This manual is intended to give an idea of the most typical patterns for each sport and type of installation, depending on the class they belong to. This is just the first step in the design of a sport lighting system. The Arianna team comprises engineers who are trained in all of the guidelines for the lighting of sports facilities, and they will manage the project in detail so as to ensure the required lux, as well as the highest uniformity and reduction of glare.

Top level competition such as international and national competition which will generally involve large spectator capacities with long potential viewing distances. Top level training can also be included in this class. For some sports the requirements of the governing body might take precedence over the values in this standard.

Class I

Mid-level competition such as regional or local club competition which generally involve medium size spectator capacities with medium viewing distances. High level training can also be included in this class.

Class II

Low level competition such as local or small club competition which generally do not involve spectators. General training, physical education (school sports) and recreational activities will also come into this category

Class III

LEVEL OF COMPETITION

	Class		
	I	II	III
International/National	●		
Regional	●	●	
Local	●	●	●
Training		●	●
Recreational			●



Index



Football field
pag. 4



Paddle field
pag. 12



Basketball field
pag. 6



Rugby field
pag. 14



Tennis field
pag. 8



Why choose Arianna
pag. 18



Volleyball field
pag. 10



Outdoor Sports

Football field

We fill your immensity with light

“Even if I were wearing a white suit at a wedding, I’d still stop a muddy ball with my chest without even thinking”
(Diego Armando Maradona)

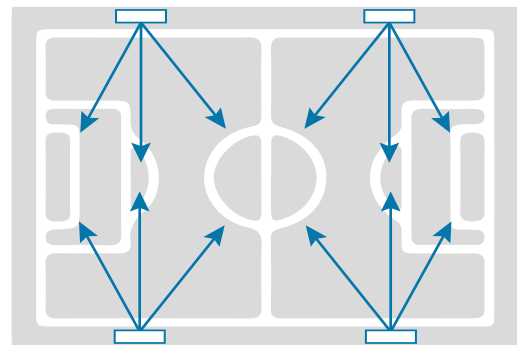
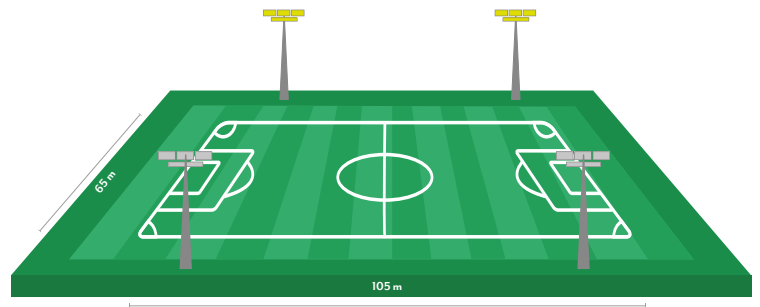
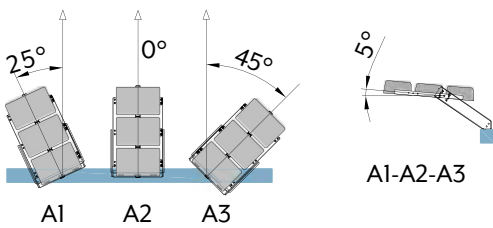
Football is passion and instinct. A natural and irresistible appeal. It is just because any game can become a saga or an epic poem and any moment or episode can unexpectedly become coloured with unimagined nuances, that those involved in lighting a stadium or even a local ground have the duty to do their best, allowing those who play, referee or simply enjoy this wonderful sport from the stands to savour every detail to the utmost, counting on lighting without flickering, shadows or glare.

That’s why we study, we design and we innovate. To give the sport born well over a century ago the modernity it deserves. Arianna innovates history.



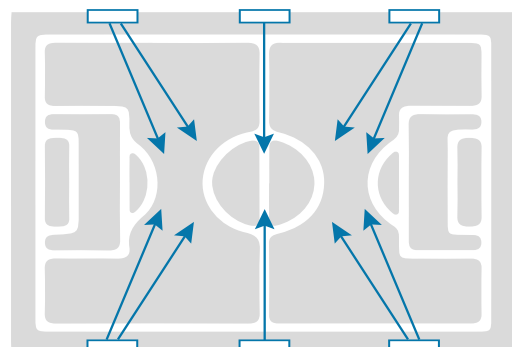
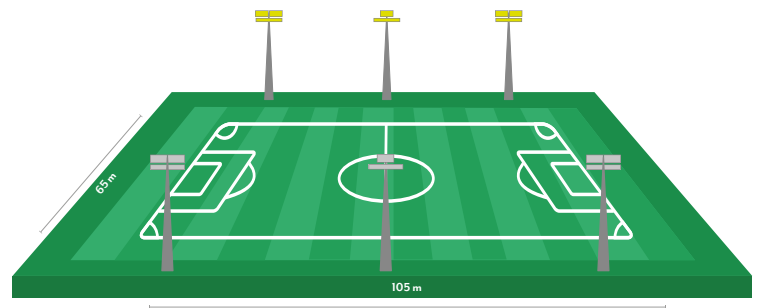
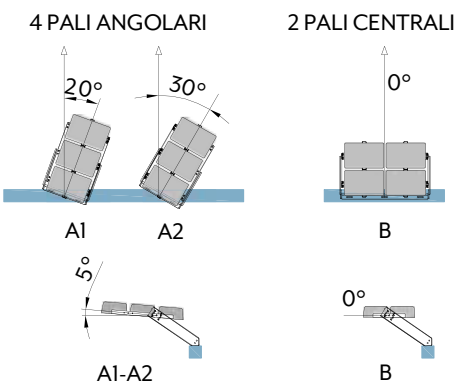
Football Field III Class - 4 Poles

Poles	4x15 m
Floodlight Petrarca	16 x 3 modules 77000 lm 611 W
System Power	9,776 KW
Eh ave	> 100
Emin/Eave	> 0,6
Ra	> 70
GR Max	-
ULR	0%
MF	0,8



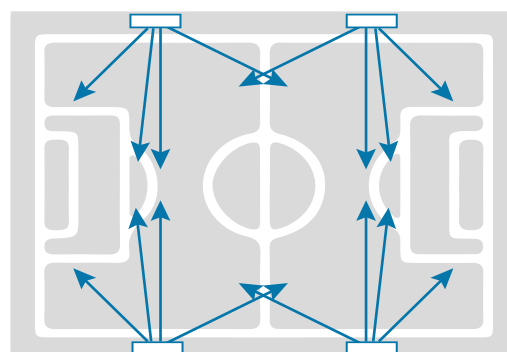
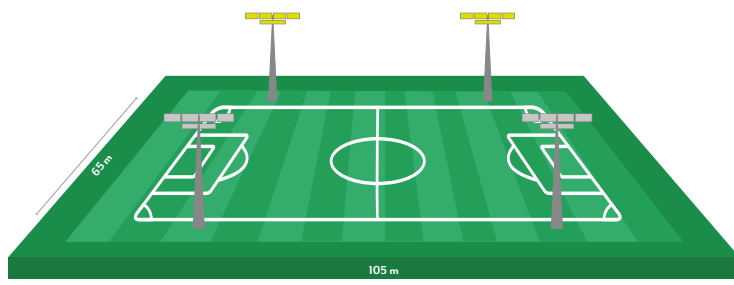
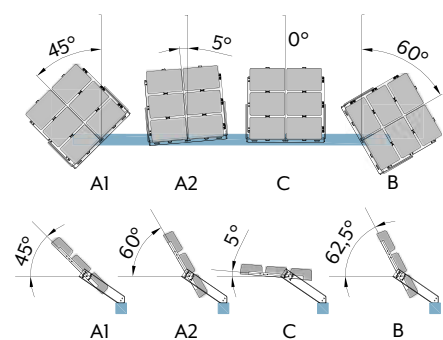
Football Field III Class - 4 Poles

Poles	4x15 m
Floodlight Petrarca	84 x 2 modules 51400 lm 412 W, 12 x 3 modules 77000 lm 611 W
System Power	8,980 KW
Eh ave	> 100
Emin/Eave	> 0,6
Ra	> 70
GR Max	-
ULR	0%
MF	0,8



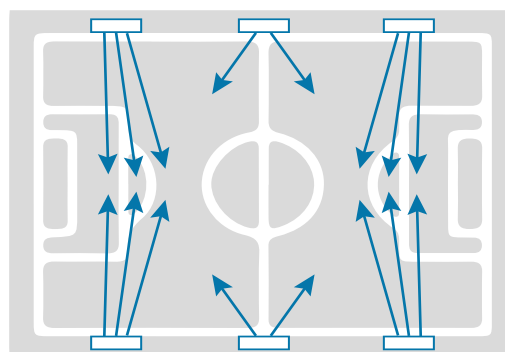
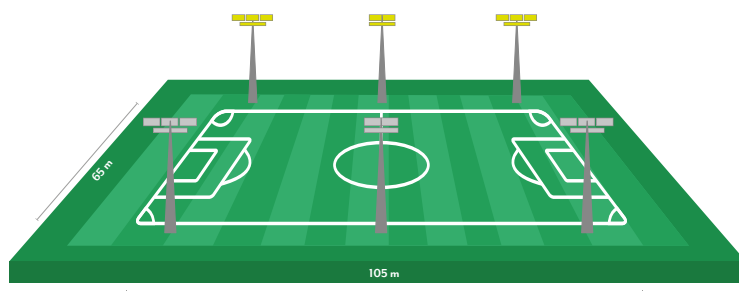
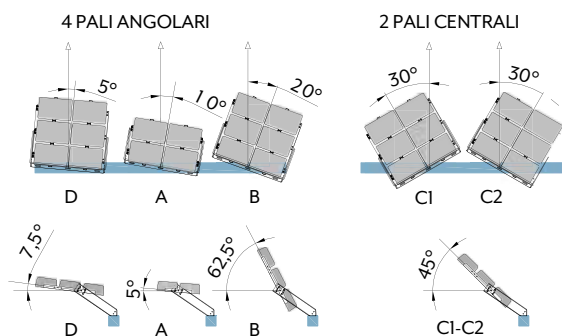
Football Field II Class - 4 Poles

Poles	4x15 m
Floodlight Petrarca	4 x 3 modules 72800 lm 611 W 8 x 6 modules 117800 lm 898 W 4 x 6 modules 145500 lm 1210 W 4 x 6 modules 154100 lm 1210 W
System Power	19,308 KW
Eh ave	> 200
Emin/Eave	> 0,6
Ra	> 70
GR Max	-
ULR	0%
MF	0,9



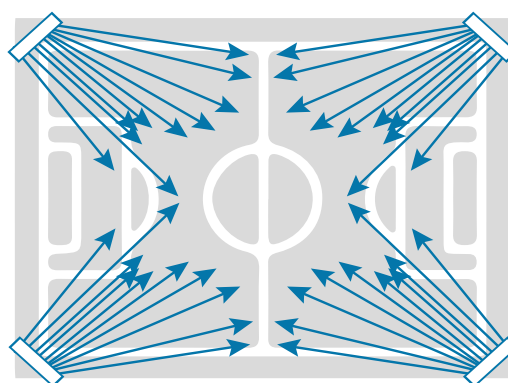
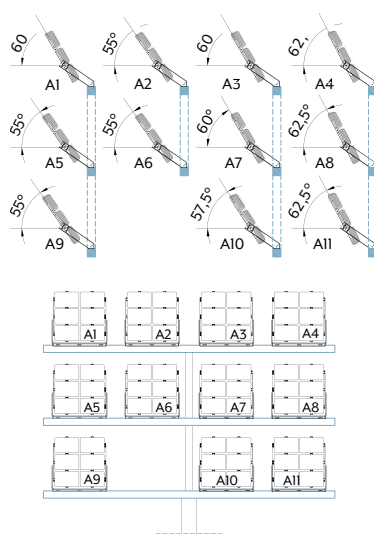
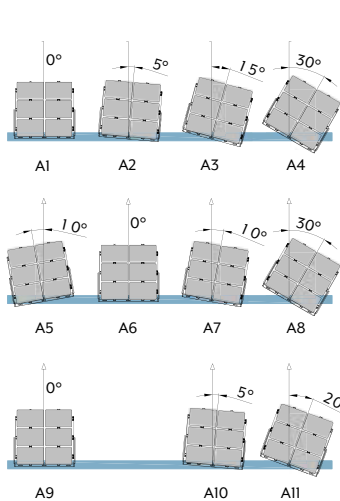
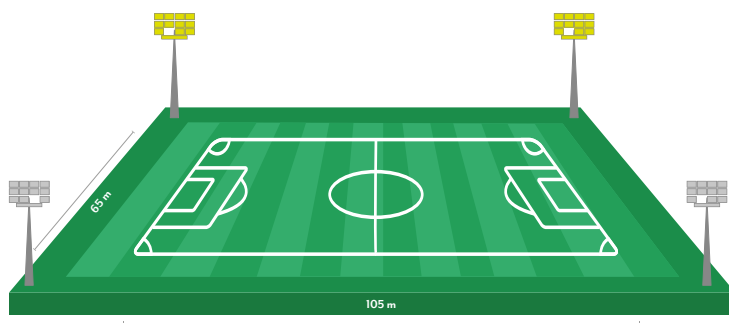
Football Field II Class - 6 Poles

Poles	6x16 m
Floodlight Petrarca	10 x 6 modules 124700 lm 898 W 8 x 6 modules 154100 lm 1210 W
System Power	18,660 KW
Eh ave	>200
Emin/Eave	> 0,6
Ra	> 70
GR Max	-
ULR	0%
MF	0,9



Football Field | Class - 4 Poles

Poles	4 x 30 mt
Floodlight Petrarca	44 x 6 modules ott.04 1210W 145.500lm (A)
System Power	53,2 kW
Eh ave	> 500 lx
Emin/Eave	> 0,7
Ra	> 70
GR Max	40
ULR	3%
MF	0,9



Outdoor Sports

Basketball field

We fill your immensity with light

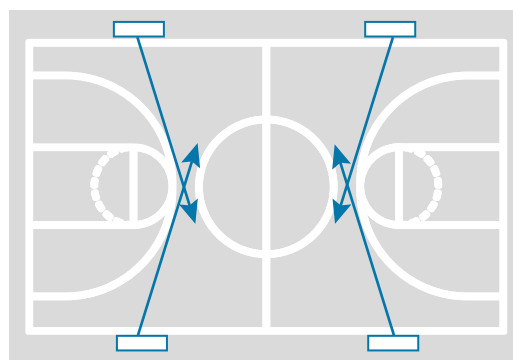
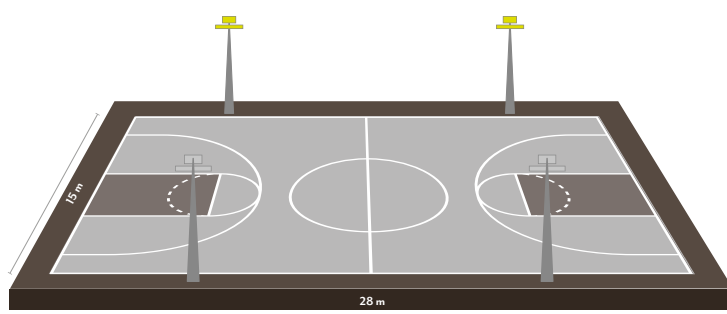
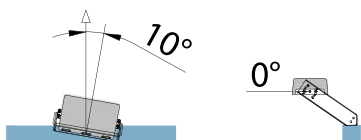
“When what you do on the court makes even the fans in the fifteenth row feel special, it means that you did a good job”
(Isaiah Thomas)

Nothing could be truer, but for it to be true, even the spectators way back in the fifteenth row need to enjoy a perfect view. And together with them the officials, the coaches, the reporters and the audience at home. Basketball is the sport that more than any other is played “high”, which is why at Arianna we focus our efforts, study and research into ensuring that every single area of play features modulated lighting for each specific need, without dark corners, so that all the stars of this show can enjoy the game without worrying about a less-than-perfect view.



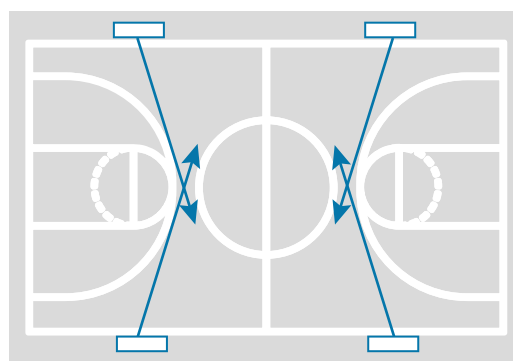
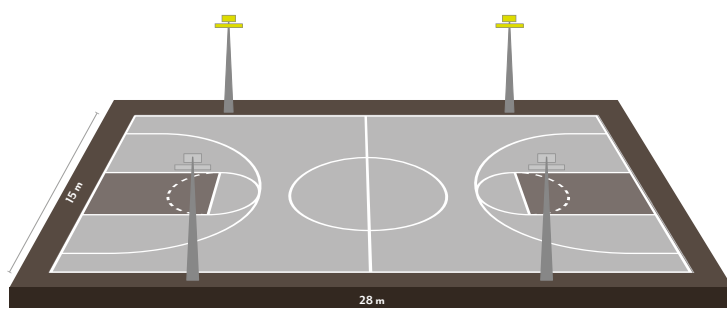
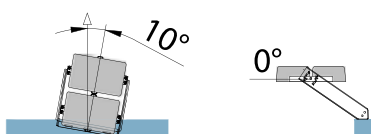
Basket Field III Class - 4 Poles

Poles	4x8 m
Floodlight Petrarca	4 x 1 module ott. 01 20800 lm 153 W
System Power	0,612 kW
Eh ave	> 100
Emin/Eave	> 0,5
R _a	> 70
GR Max	-
ULR	0%
MF	0,9



Basket Field II Class - 4 Poles

Poles	4x8 m
Floodlight Petrarca	4 x 2 modules ott. 01 41600 lm 306 W
System Power	1,224 KW
Eh ave	> 200
Emin/Eave	> 0,6
R _a	> 70
GR Max	-
ULR	0%
MF	0,9



Outdoor Sports

Tennis field



We fill your immensity with light

“No ball arrives the same as another; no shot is identical. So every time you line up to hit a shot, you have to make a split-second judgement as to the trajectory and speed of the ball and then make a split-second decision as to how, how hard, and where you must try to hit the shot back”

(Rafael Nadal)

Few things can explain tennis as well as the words of the players who have made it into an art form.

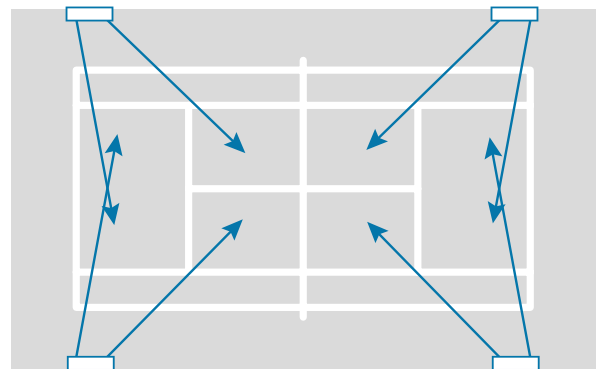
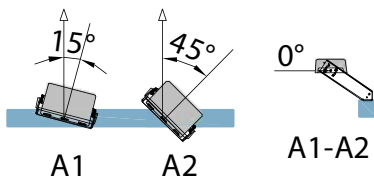
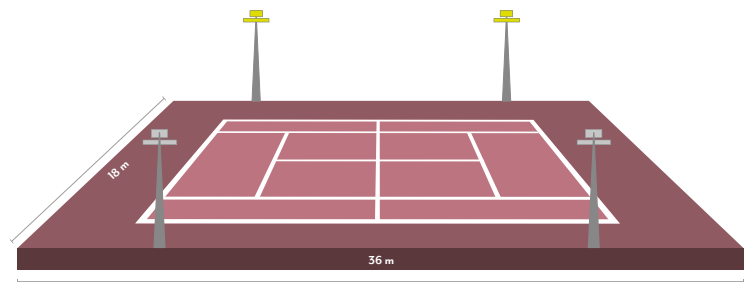
Because each shot is unique, each effect imparted on the ball is different, serves and returns are always unpredictable, it is essential for visibility to be optimal in all conditions, for everyone. Players, umpires, line umpires, the public around the court, the audience at home; everyone has the right to enjoy a perfect view. There is no room for flickering lights, deceptive shadows or glare, especially for tennis players who often have to look upwards.

Our mission is to only leave room for the spectacle and the enjoyment of players and spectators.



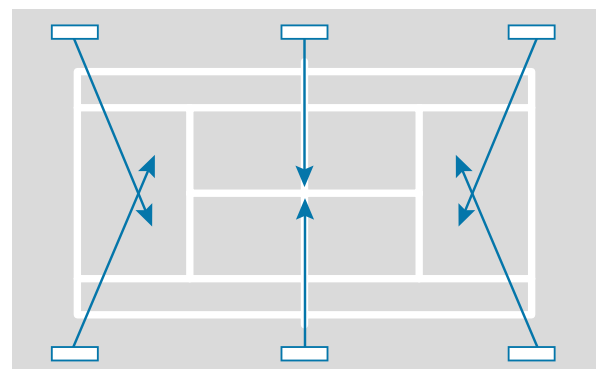
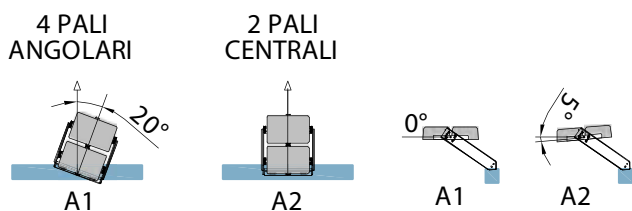
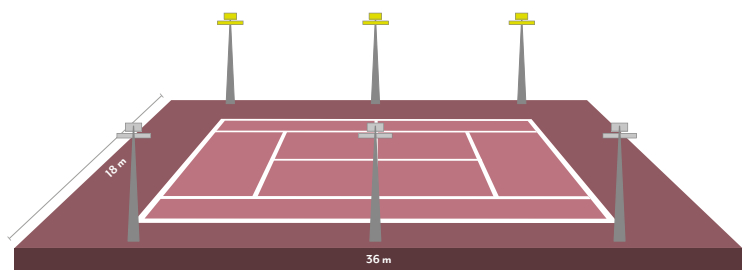
Tennis Field III Class - 4 Poles

Poles	4x10 m
Floodlight Petrarca	8 x 1 module 25700lm 206 W
System Power	1,648 KW
Eh ave	> 200
Emin/Eave	> 0,6
Ra	> 70
GR Max	-
ULR	0%
MF	0,9



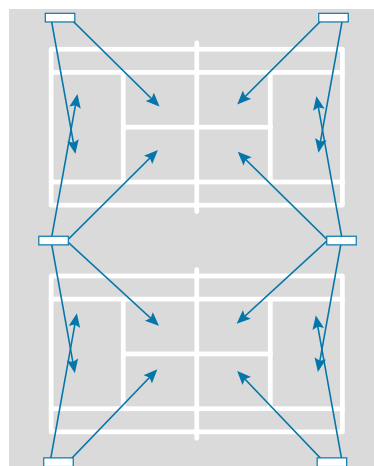
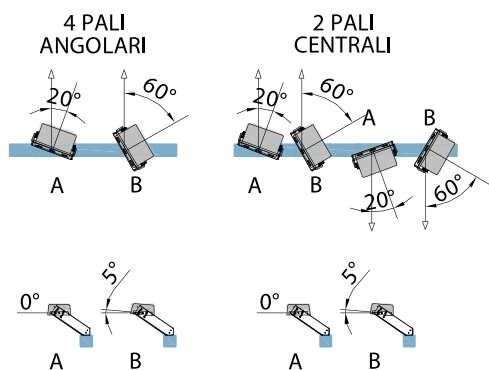
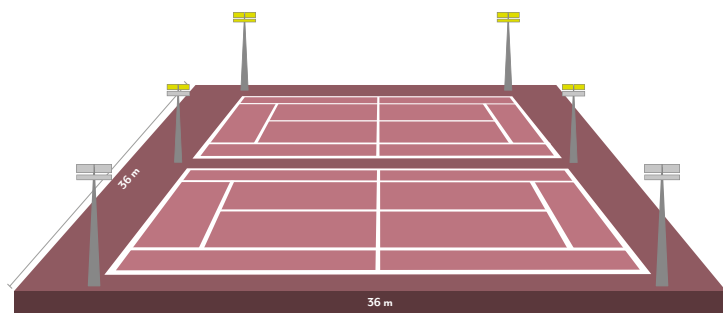
Tennis Field III Class - 6 Poles

Poles	6x10 m
Floodlight Petrarca	6 x 2 modules 41600 lm 306 W
System Power	1,836 KW
Eh ave	> 200
Emin/Eave	> 0,6
Ra	> 70
GR Max	-
ULR	0%
MF	0,9



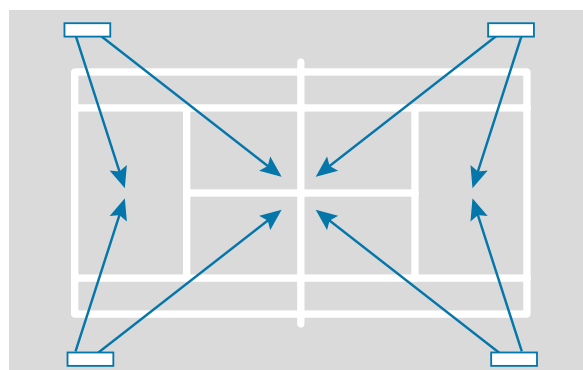
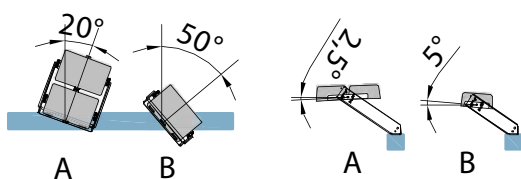
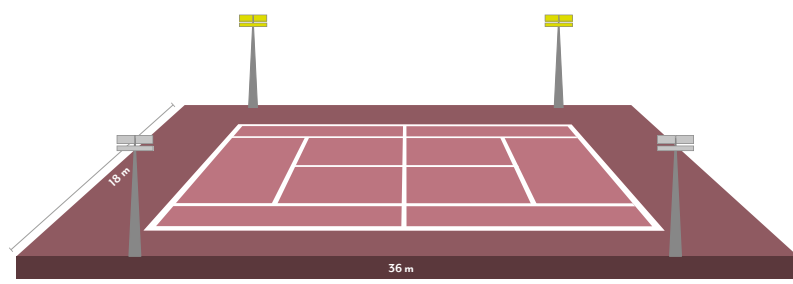
Tennis Field II Class - 4 Poles

Poles	4x10 m
Floodlight Petrarca	4 x 2 modules 51400 lm 412 W 4 x 1 module 25700 lm 206 W
System Power	2,472 KW
Eh ave	> 300
Emin/Eave	> 0,7
Ra	> 70
GR Max	-
ULR	0%
MF	0,9



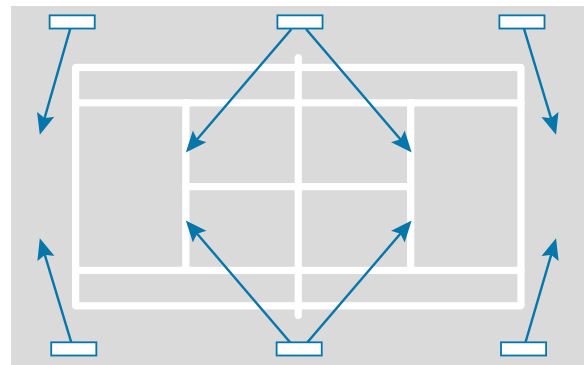
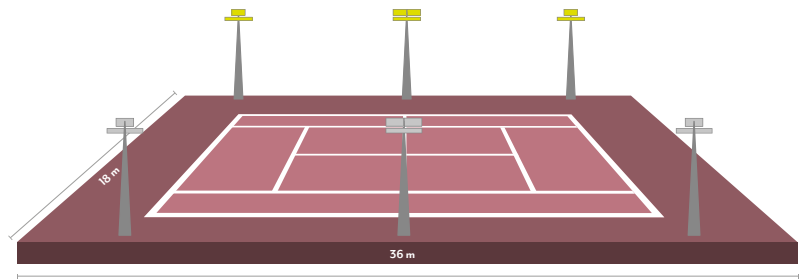
Tennis Field II Class - 4 Poles

Poles	6x10 m
Floodlight Petrarca	4 x 2 modules 51400 lm 412 W 4 x 1 module 25700 lm 206 W
System Power	2,872 KW
Eh ave	>300
Emin/Eave	> 0,7
Ra	> 70
GR Max	-
ULR	0%
MF	0,9



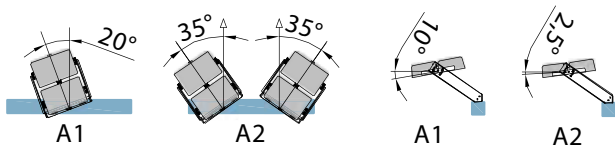
Tennis Field II Class - 4 Poles

Poles	4x10 m
Floodlight	4 x 2 modules 48500 lm 412 W
Petrarca	4 x 3 modules 58900 lm 454 W
System Power	3,464 KW
Eh ave	> 500
Emin/Eave	> 0,7
Ra	> 70
GR Max	-
ULR	1%
MF	0,9



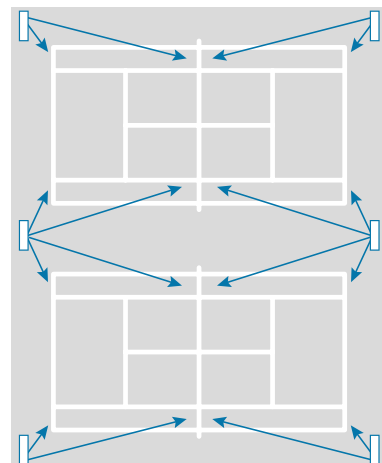
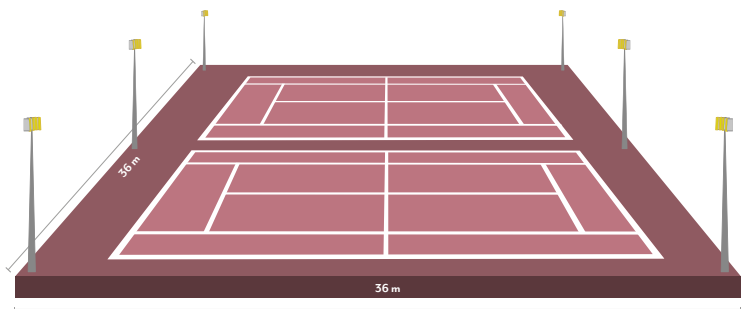
4 PALI ANGOLARI

2 PALI CENTRALI



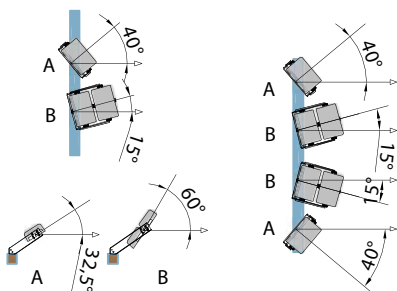
Tennis Field II Class - 6 Poles

Poles	6x10 m
Floodlight	4 x 2 modules 51400 lm 412 W
Petrarca	4 x 3 modules 58900 lm 454 W
System Power	3,464 KW
Eh ave	> 500
Emin/Eave	> 0,7
Ra	> 70
GR Max	-
ULR	0,9%
MF	0,5



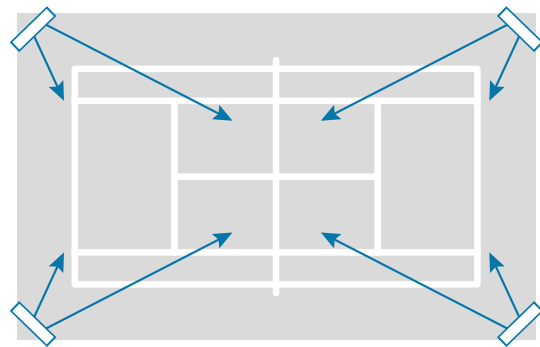
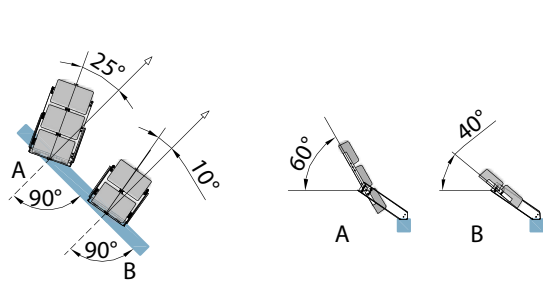
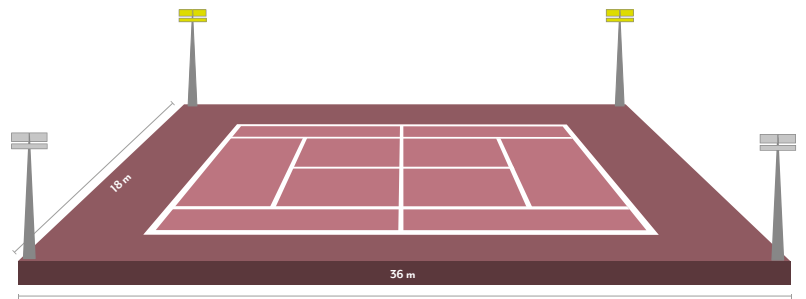
4 PALI ANGOLARI

2 PALI CENTRALI



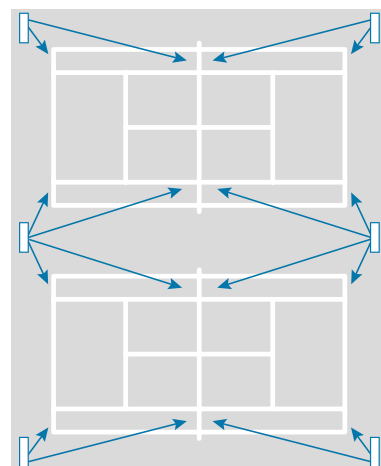
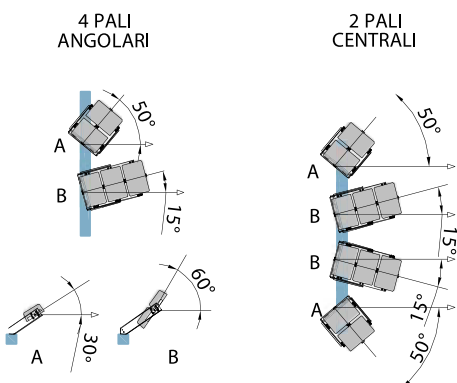
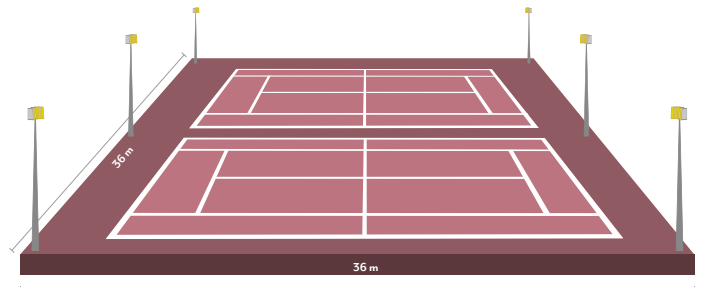
Tennis Field I Class - 4 Poles

Poles	4 x 10 mt
Floodlight	4 x 2 modules ott.04 306W 39.300lm (A)
Petrarca	4 x 3 modules ott.04 611W 72.800lm (B)
System Power	3,6 kW
Eh ave	> 500 lx
Emin/Eave	> 0,7
R _a	> 70
GR Max	38
ULR	0%
MF	0,9



Tennis Field I Class - 6 Poles

Poles	6 x 10 mt
Floodlight	8 x 2 modules ott.04 306W 39.300lm (A)
Petrarca	8 x 3 modules ott.04 611W 72.800lm (B)
System Power	7,3 kW
Eh ave	>500 lx
Emin/Eave	> 0,7
R _a	> 70
GR Max	43
ULR	0%
MF	0,9





Outdoor Sports

Volleyball field

We fill your immensity with light

“Volleyball is no less physical than rugby, it is no less muscular than water polo, it is no less direct than boxing, it is no less explosive than basketball, it is no less intelligent than sailing, it is no less ingenious than chess; it has nothing less than any other sport, but more, much more, because it has everything, legs and brain, heart and liver, fingertips and toes, responsibility, conscience, strategy, courage, and an unlimited, burning, scorching, incendiary desire”

(Ivan Zaytsev and Marco Pastonesi)

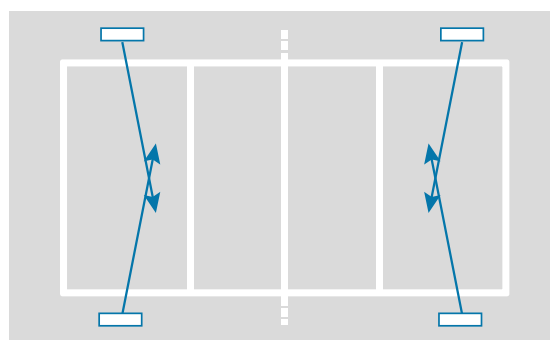
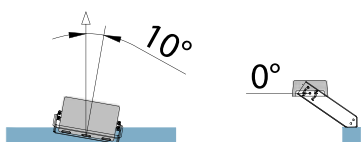
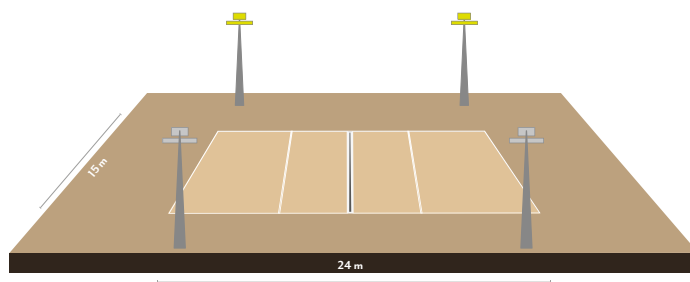
Who better than Arianna can illuminate every detail of a sport where the ball travels at impossible speeds with millimetre precision, a sport where simply touching the ball can make the difference between glory and hell. Modularity, the exclusive total reflection patent and radial thermal dispersion are just some of the aspects that make Petrarca one of the leaders in sports lighting.

Even in volleyball arenas, Arianna is there to give its all to ensure players, officials and spectators a perfect view of every part of the court.



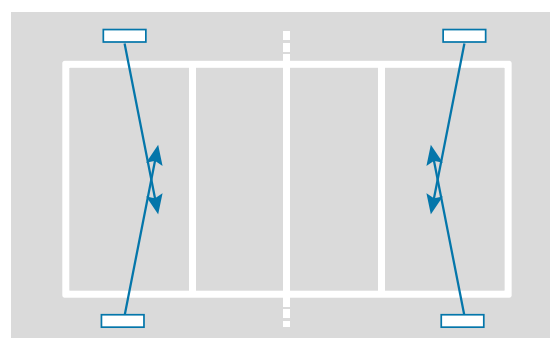
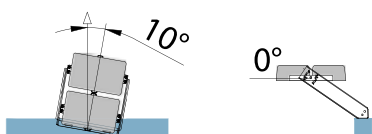
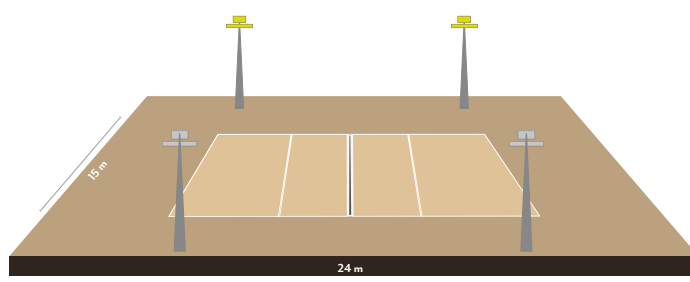
Volleyball Field III Class - 4 Poles

Poles	4x8 m
Floodlight Petrarca	1 module ott. 01 20800 lm 153 W
System Power	0,612 KW
Eh ave	> 100
Emin/Eave	> 0,5
Ra	> 70
GR Max	-
ULR	0%
MF	0,9



Volleyball Field II Class - 4 Poles

Poles	4x8 m
Floodlight Petrarca	2 modules ott. 01 41600 lm 306 W
System Power	1,224 KW
Eh ave	> 200
Emin/Eave	> 0,6
Ra	> 70
GR Max	-
ULR	0%
MF	0,9



Outdoor Sports

Paddle field

We fill your immensity with light

“It’s no accident, I think, that tennis uses the language of life. Advantage, service, fault, break, love, the basic elements of tennis are those of everyday existence, because every match is a life in miniature. Even the structure of tennis, the way the pieces fit inside one another like Russian nesting dolls, mimics the structure of our days. Points become games become sets become tournaments, and it’s all so tightly connected that any point can become the turning point. It reminds me of the way seconds become minutes become hours, and any hour can be our finest. Or darkest. It’s our choice”

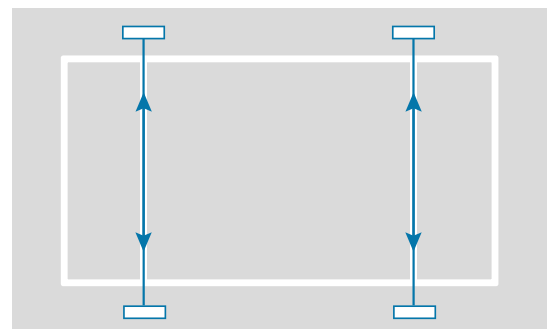
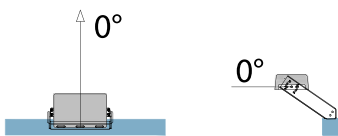
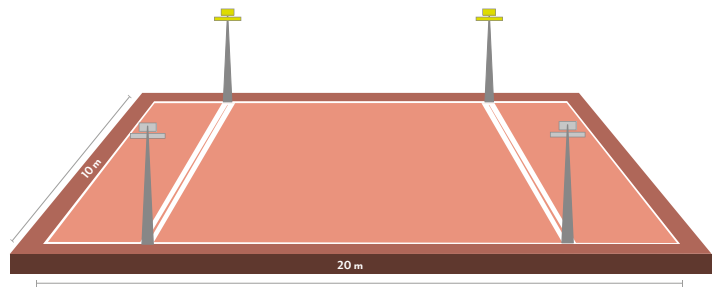
(André Agassi)

And the possibility of giving you the most brilliant, optimal, uniform view depends on us. Sports such as paddle tennis are highly challenging to the eye, so minimising flicker, glare, the transition from shadow to light is essential for those who love playing this sport and those who enjoy following it. Providing the standards that help meet these needs is our victory.



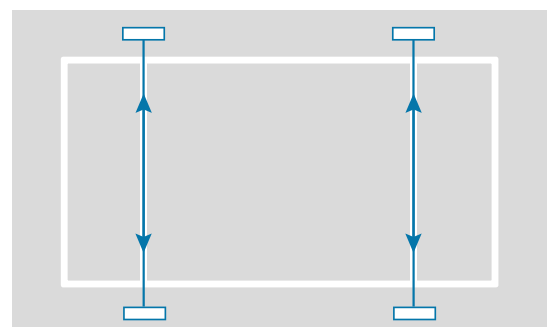
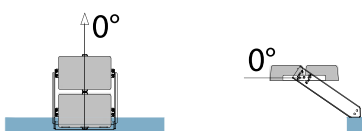
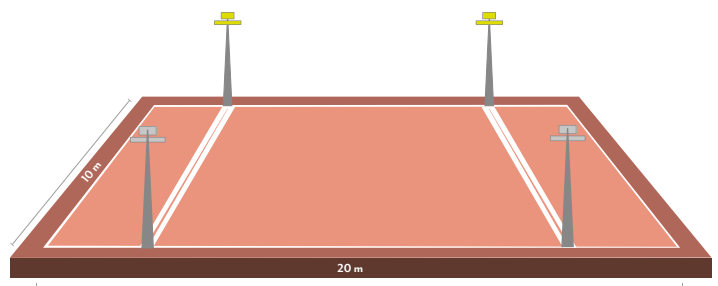
Paddle Field III Class - 4 Poles

Poles	4x6 m
Floodlight Petrarca	4 x 1 module ott. 01 20800 lm 153 W
System Power	0,612 KW
Eh ave	> 200
Emin/Eave	> 0,6
Ra	> 70
GR Max	-
ULR	0%
MF	0,9



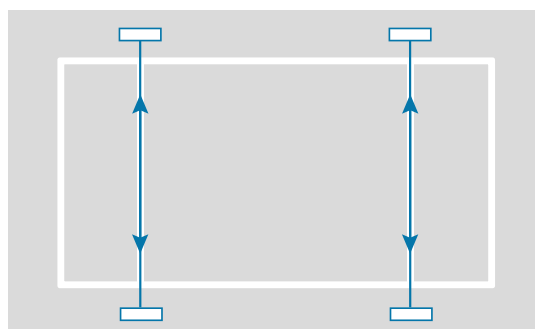
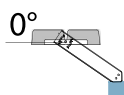
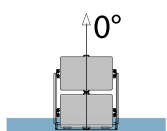
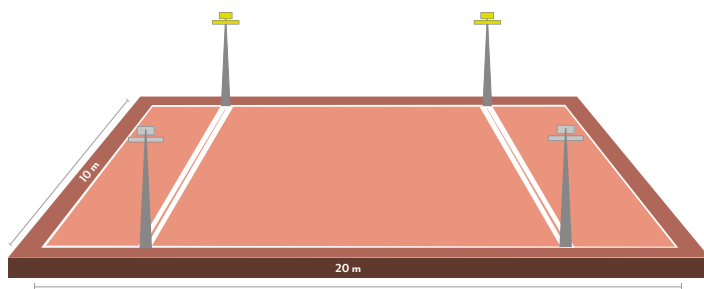
Paddle Field II Class - 4 Poles

Poles	4x6 m
Floodlight Petrarca	4 x 2 modules ott. 01 29600 lm 212 W
System Power	0,848 KW
Eh ave	> 300
Emin/Eave	> 0,7
Ra	> 70
GR Max	-
ULR	0%
MF	0,9



Paddle Field I Class - 4 Poles

Poles	4x6 m
Floodlight Petrarca	4 x 2 modules ott. 01 51400 lm 412 W
System Power	1,648 KW
Eh ave	> 500
Emin/Eave	> 0,7
Ra	> 70
GR Max	-
ULR	0%
MF	0,9





Outdoor Sports

Rugby field

We fill your immensity with light

“Rugby is a primordial game: take a ball into the heart of enemy territory. Yet it is based on an absurd and wonderfully perverse principle: you can only pass the ball backwards. The result is a paradoxical movement, an ongoing sequence of creating and unravelling, with the ball flying continuously backwards like a fly stuck in a travelling train: despite flying backwards it still gets to the final destination: spectacularly absurd”.

(Alessandro Baricco)

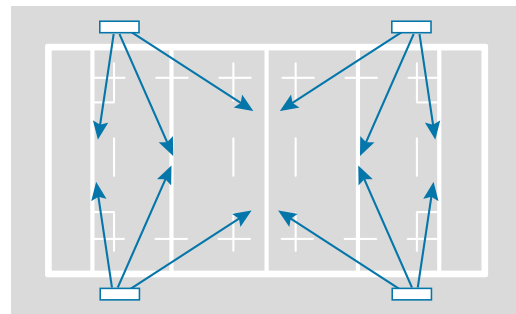
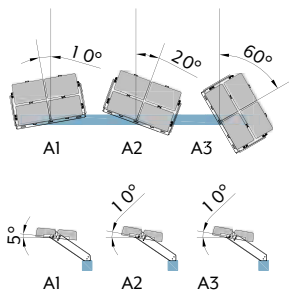
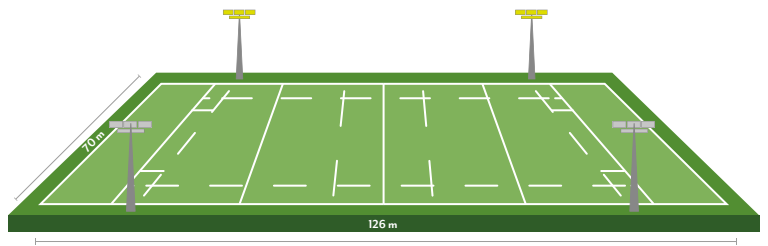
Power, technique, tactics, loyalty, sportsmanship, desire to win, no fear of taking hits, courage, a sense of enterprise, and so on and so on. This is rugby. Would you want see even just one of these aspects cast into the shadows? We at Arianna certainly wouldn't! Hence we give everything we have in our minds, in our imagination and in our hearts to offer those who play rugby and those who enjoy it from the stands the best view, with the best light. Focused light, without annoying flickers, without shadows and uniformly distributed.

While in the game of rugby there are 14 players fighting to give the fifteenth a half-metre advantage, Arianna can be thought of as the sixteenth player on the field, committed to giving everyone the chance to fully experience every emotion.



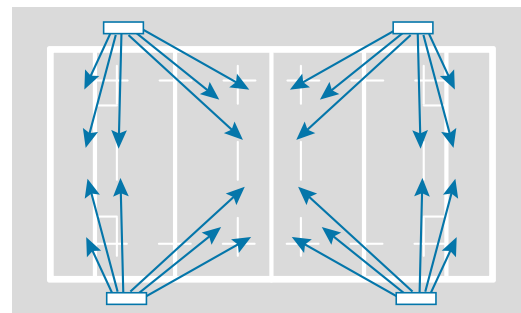
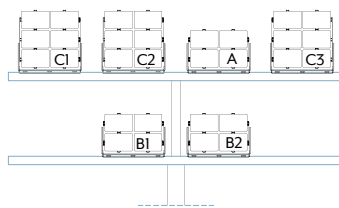
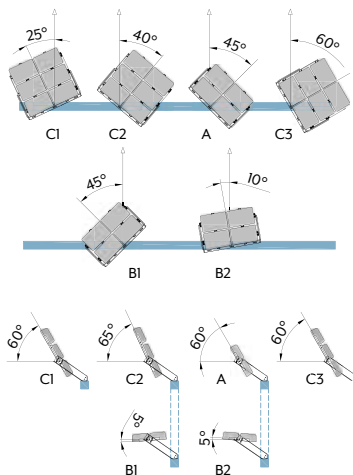
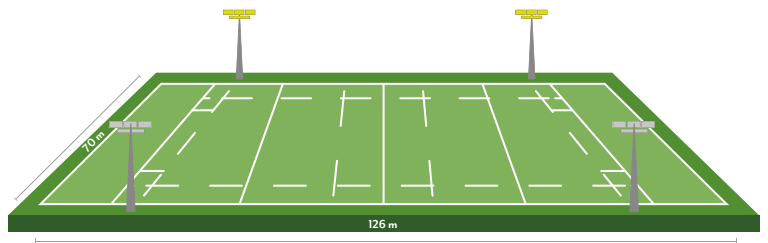
Rugby Field III Class - 4 Poles

Poles	4 x 20 mt
Floodlight Petrcarca	12 x 4 modules ott.01 807W 102.700lm (A)
System Power	9,6 kW
Eh ave	> 75 lx
Emin/Eave	> 0,5
Rα	> 70
GR Max	39
ULR	0%
MF	0,9



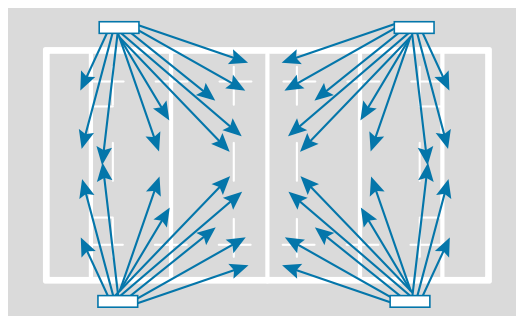
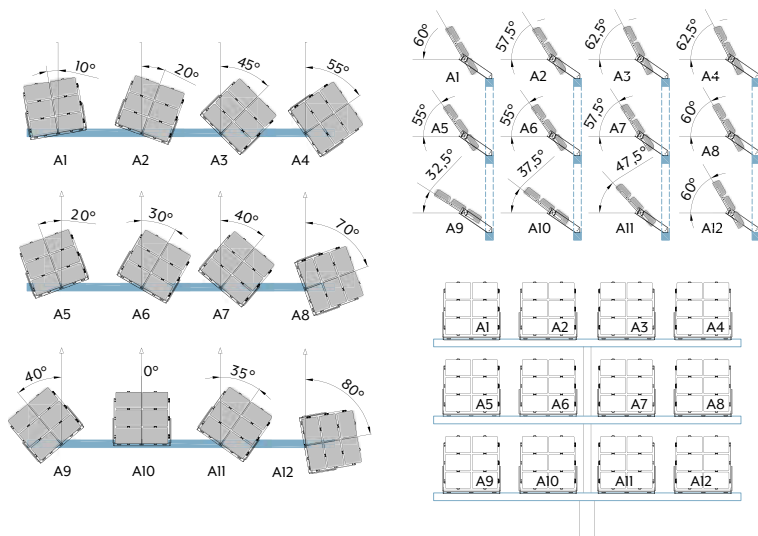
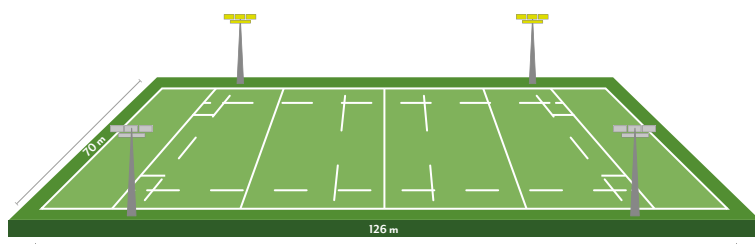
Rugby Field II Class - 4 Poles

Poles	4 x 20 mt
Floodlight	12 x 4 modules ott.04 807W 97.000lm (A)
Petrcarca	8 x 4 modules ott.01 807W 102.700lm (B) 4 x 6 modules ott.04 1210W 145.500lm (C)
System Power	24,2 kW
Eh ave	> 200 lx
Emin/Eave	> 0,6
Rα	> 70
GR Max	43
ULR	3%
MF	0,9



Rugby Field I Class - 4 Poles

Poles	4 x 25 mt
Floodlight Petrarca	48 x 6 modules ott.04 I210W 145.500lm (A)
System Power	58,1 kW
Eh ave	> 500 lx
Emin/Eave	> 0,7
Ra	> 70
GR Max	38
ULR	2%
MF	0,9





Our strenghts _____

**Why choose
Arianna?**

Certified products

Arianna's lighting fixtures have passed all the tests obtaining the ENEC certification mark (European Norms Electrical Certification) which guarantees harmonized European standards.



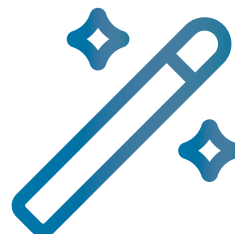
In-House production, faster answers

The heart of Arianna products is designed and manufactured in house. Lighting fixtures are made in Italy. The internal SMD process controls the welding quality of the LEDs and speeds up product delivery times.

Custom design


Arianna's professionals respond to the various requests in real time planning. Possibility of an inspection on the point of installation, to evaluate the existing plant and formulate the best technical-economic offer.

Our team of professionals is available to study lighting calculations together for each project.



Higher quality, less maintenance

Lighting fixtures with long-lasting components, in-house spare parts always available.



The lighting of the playing fields must be designed to guarantee players maximum visual comfort, with less perceptive effort.

Our lighting systems fully respect these quality standards and, at the same time, ensure considerable energy savings.

ARIANNA spa

via dell'Industria 14
35020 Brugine (PD)



+39 049 738 9920



info@ariannaed.com