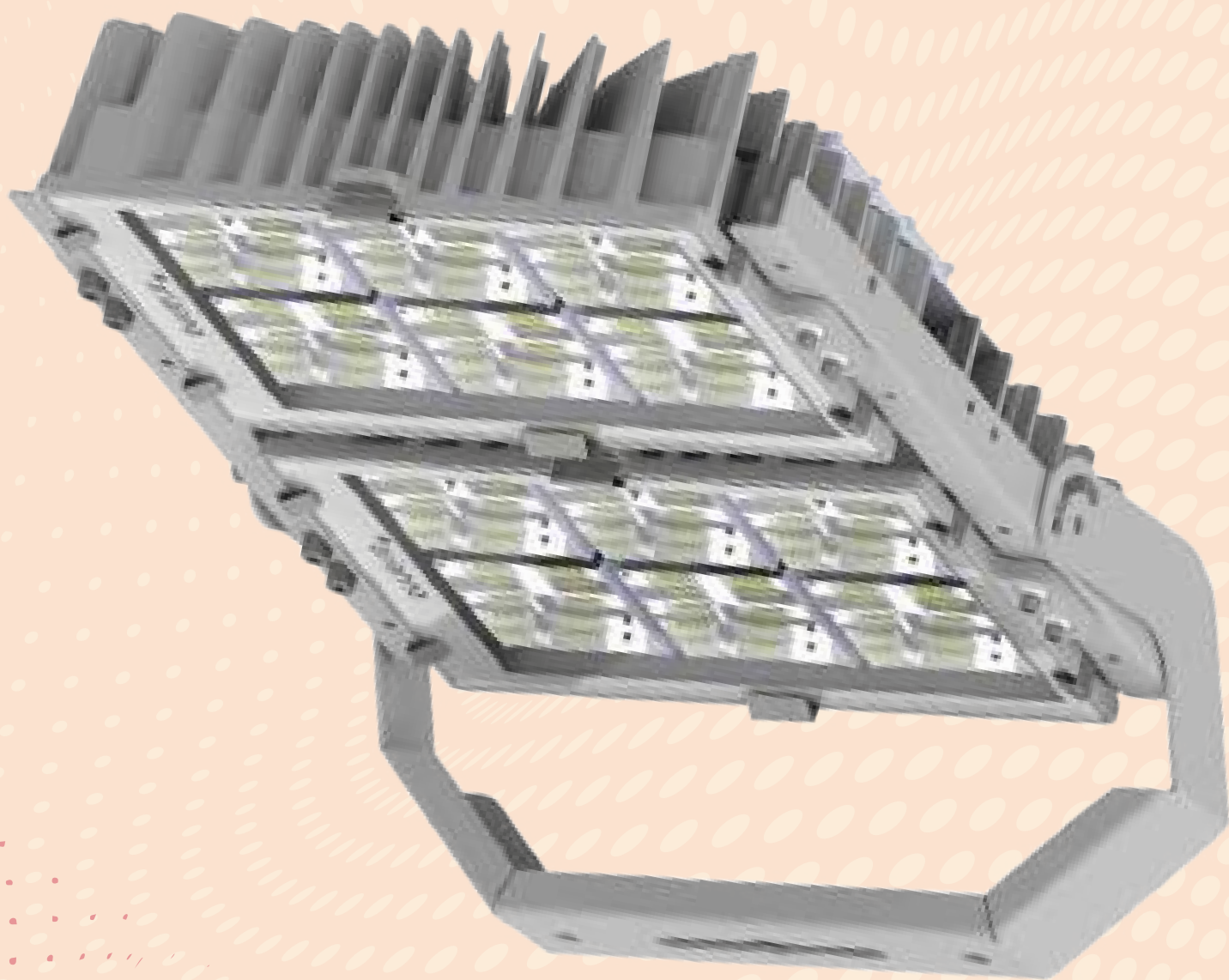


Product identification card

# Petrarca



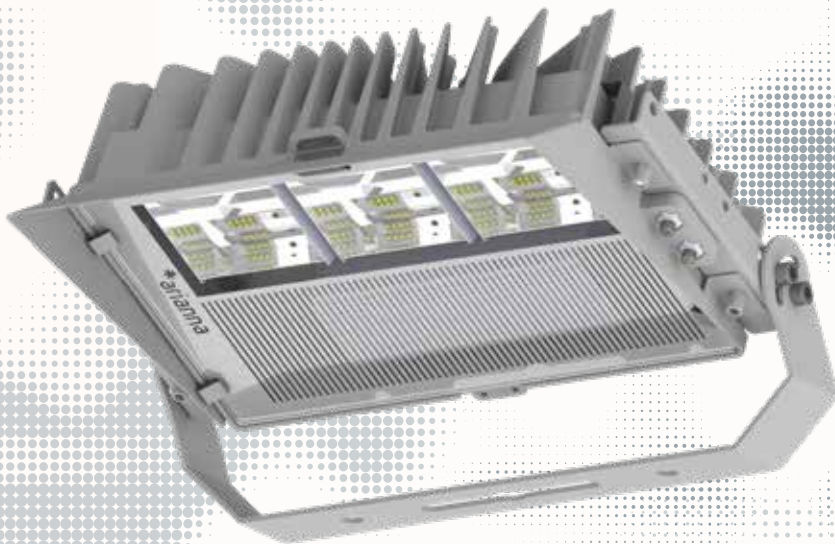
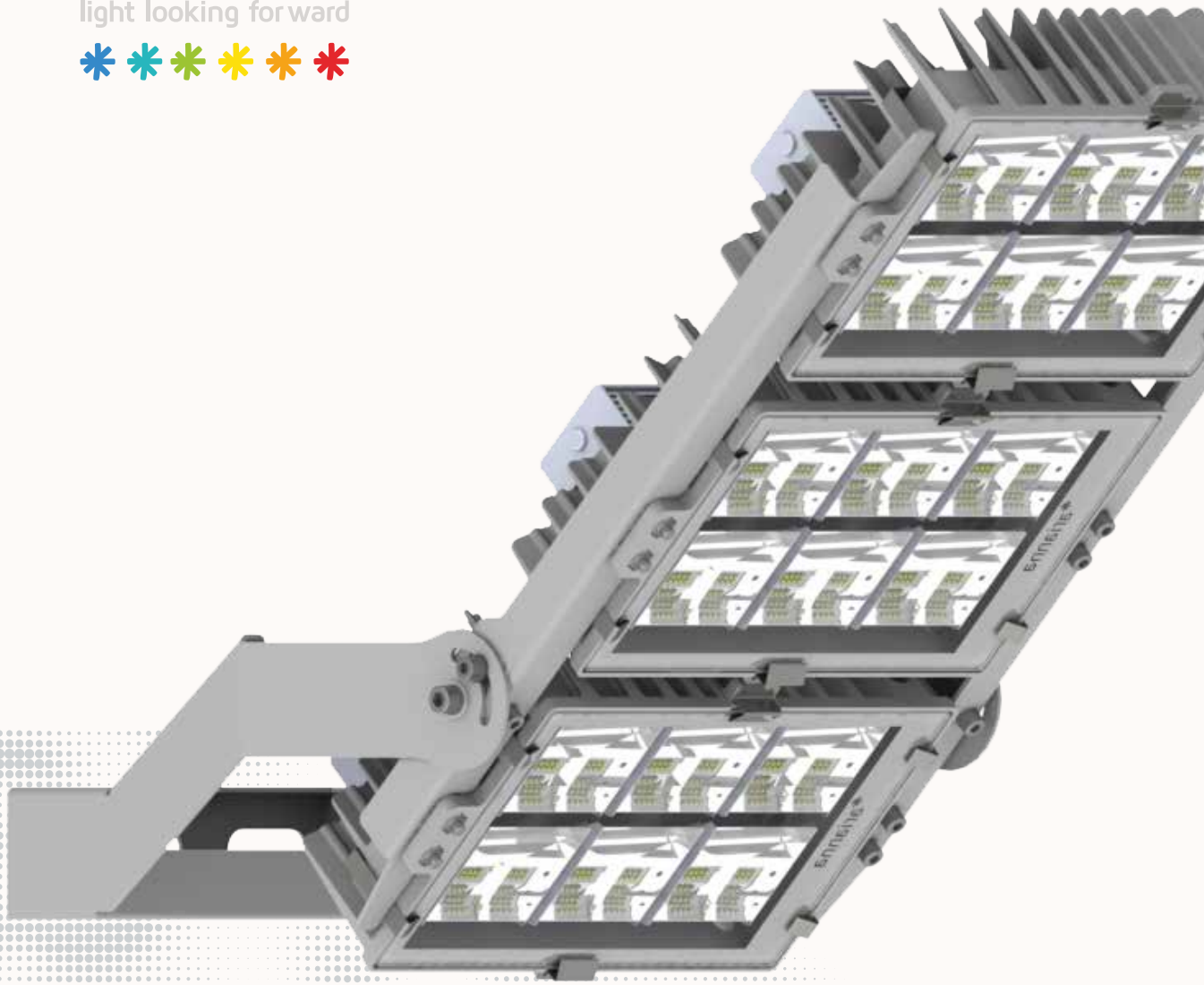
\* **arianna**

light looking for ward



# \* arianna

light looking forward





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# Petrarca floodlights:

Sport, large spaces, tunnel and industries



Petrarca is the family of modular floodlights which can adapt to the different lighting requirements for sport, large spaces, tunnels and industries.

The **very best solution** in terms of technological performance, energy savings and easy installation.

For large and small installations



Excellent energy savings







The total reflection applied to the optics of Petrarca ensures uniform lighting and no glare

Exceptional visual comfort



Drastic reduction in maintenance costs

# Petrarca: the hyper modular floodlight



## highly adaptable

for use in a variety of settings: sport, large spaces and tunnels, industries.

## from 1/2 to 6 modules

with flux from 10,000 to 195,000 lm.

## optics

24 different photometries suitable for every application area

## color rendering index

Available versions  
CRI 70, 80, 90

## configurations

from 1/2 to 6 modules

## variable drive current

in the range from 350 mA to 750 mA, so as to always ensure the exact luminous flux.

## colour temperatures

Available versions 3000,  
4000 and 5000k

## brackets

designed to meet the needs of each application area



\* arianna  
light looking for ward





# Petrarca: efficiency

The opportunity for more sustainable lighting



With Arianna, efficiency is not limited to the light source alone, but rather is amplified by series of technological details that **increase savings**.

## optics

made from anodised aluminium with PVD coating and **reflector reinforced** with pure silver, 98% reflectivity.

## extra-transparent glass

to maximise light transmittance.

## High power LEDs

resistant to corrosion from aggressive atmospheres up to 170 lm/W.

**Careful optical design**, high-quality materials, advanced LED sources, efficiency and reliability tested to the **highest levels** in the street lighting sector, ensure considerable savings in terms of design, installation and operation.

\* arianna

light looking for ward



# Technology

## and sustainable development



For Arianna, **sustainability** takes concrete form in the creation of **quality products** that respect the resources of the environment and the future of people. A principle that has always inspired the design of all products.





A woman with long blonde hair, wearing a white, flowing dress, is captured in a dynamic pose, spinning or dancing in a grassy field. The sun is low on the horizon, creating a bright, glowing effect with lens flares that radiate across the scene. The sky is a deep blue with scattered white clouds. The overall mood is joyful and optimistic.

\* arianna

light looking for ward



# Tested safety

## Endurance durability



The **choice of components** and raw materials used in Arianna is followed very carefully with a view to ensuring long product life. The maintenance or replacement of lighting fixtures involves high management costs and unnecessary CO<sub>2</sub> emissions.

Arianna guarantees **maximum quality** and efficiency tested to optimise the energy saving and durability of the products.

### materials and processes

- **Aluminium body:** this must guarantee high protection against the elements, humidity and vandalism, and have a high heat dissipation capacity.
- **Adhesives and gaskets** subjected to tightness testing after thermal ageing cycles.
- **Power supplies certified** and validated for outdoor use.
- **Material** used for the reflectors **tested** internally for corrosion protection

### LEDs

Arianna only uses LEDs that are **corrosion-resistant** in aggressive atmospheres (CO, Na<sub>2</sub>O, SO<sub>2</sub>, NaCl) and with high resistance to electrostatic discharges. LED working current is much lower than rated current.

The **quality of the materials** is verified in companies according to ISO 9001 certified processes, such as: functional testing on 100% of the production of LED boards; verification of the welds of the LEDs through X-RAY control.

# Highest test-proof quality

Endurance durability



In addition to the tests required by the EU directives, Petrarca has undergone other complementary tests:

## Vibration test

The appliance is certified according to IEC 60068-2-64 which certifies it as being immune to vibrations



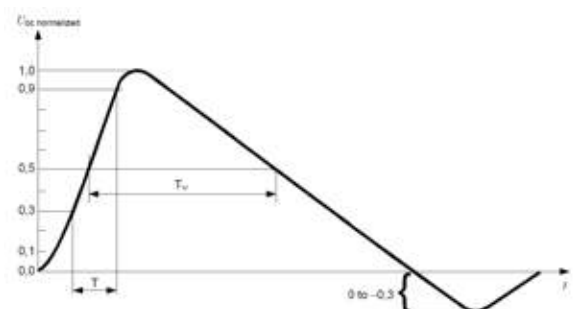
## Salt mist

EN46100 die-cast aluminium with 13-phase painting cycle chosen for Petrarca to guarantee it high protection against atmospheric agents

## Surge Immunity

Petrarca has a surge protection level that is above average; up to 10 kV can be reached in common and differential mode. The following are used:

- A device capable of distributing the energy of the discharge between the power supply and the LED module
- Insulating thermal pad, with 6kV breakdown voltage
- Insulation distances oversized with respect to the minimum required by law



Arianna spa declares that it has carried out the required approval tests at third party accredited laboratories and that it is subject to the UNI EN ISO 9001:2015 quality system.



# Certified production



Arianna's philosophy is to identify all its products with the ENEC\* mark (European Norms Electrical Certification), so as to guarantee conformity to the harmonised European standards. All Arianna products are also compliant with the European standards that regulate the lighting sector.



The products identified with this quality mark meet the European electrical and photobiological safety standards



All the Arianna products are manufactured in compliance with the directives of the European Community



Arianna products are manufactured in compliance with the European standards that limit the use of hazardous substances in electrical and electronic products



The products marked with this logo have passed all the energy and safety certification phases envisaged for export to Saudi Arabia and have the related IECEE certificate provided by SASO



The production and control processes are certified according to ISO 9001:2015 and ISO 14001:2015



\* arianna  
light looking for ward



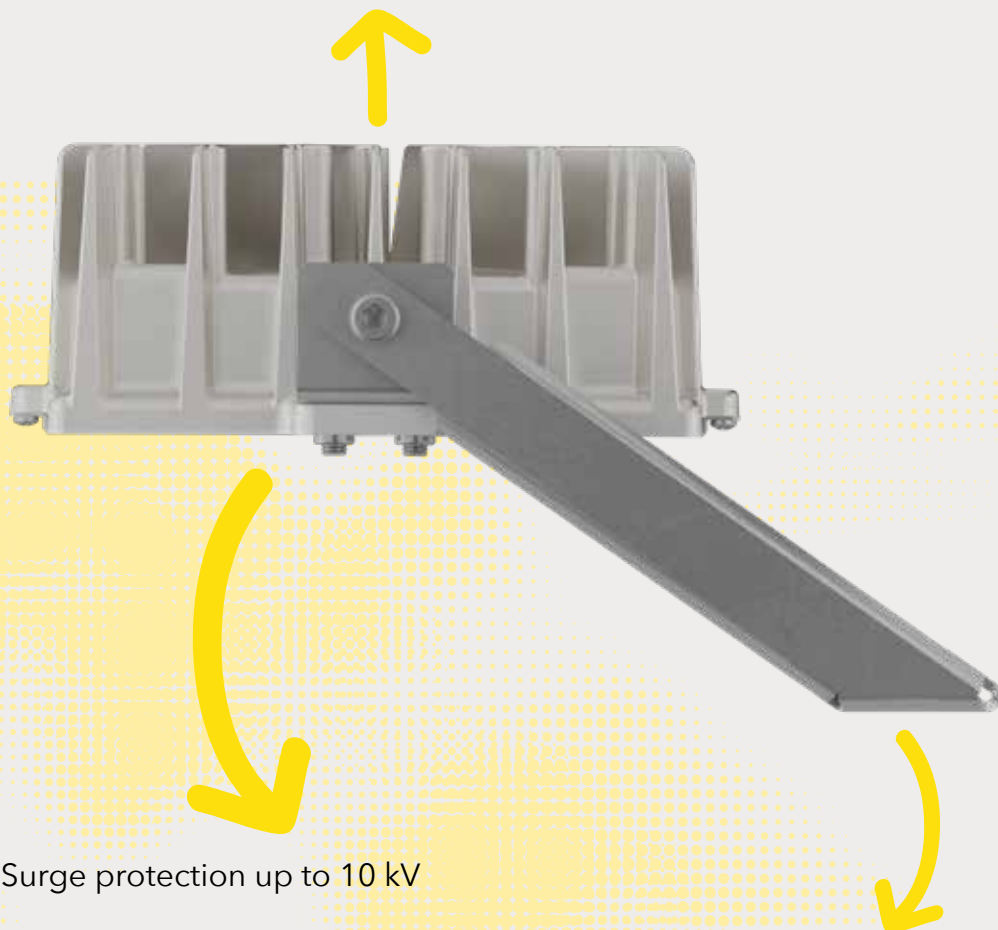
# Petrarca: components



The mechanical parts of the devices are manufactured from **AISI 304 stainless steel** or aluminium alloy, such as EN AB 44300 with a low copper content (less than 0.1%) which makes it the most corrosion-resistant casting alloy on the market.

The mechanical parts also undergo an **anti-corrosion treatment** and epoxy powder paint coating.

**Innovative cooling system:** the new radial thermal design perfected for the Petrarca floodlight maintains the internal components unaltered over time



Surge protection up to 10 kV


The impact protection rating is IK08 according to the IEC EN 62262 standard



# \* arianna



light looking forward

\* \* \* \* \*



**High power LEDs** resistant to corrosion from aggressive atmospheres up to 200 lm/W

**Extra-transparent** glass to maximise light transmittance



**Certified drivers** to resist up to 10 kV surge



# Unique visual comfort

Patented optics: light useful for uniformity and visual comfort

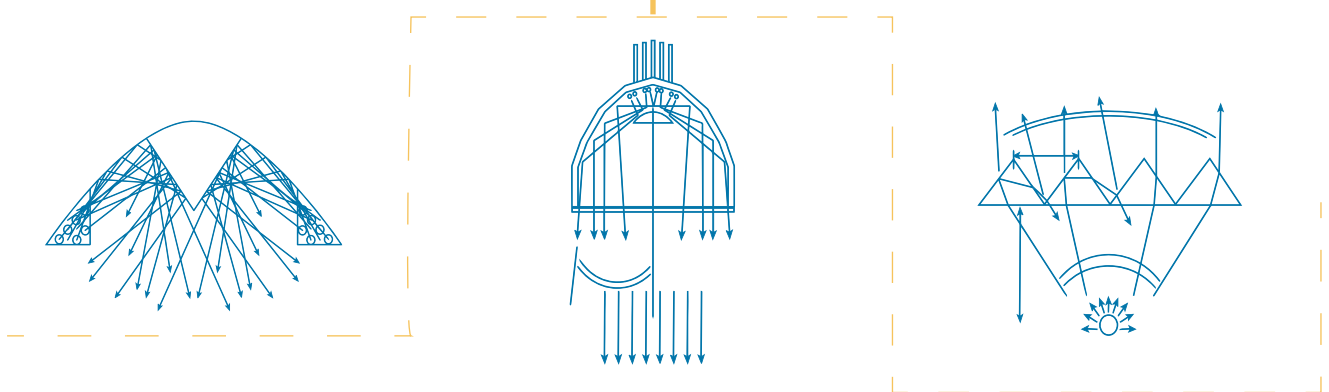


In order to further optimise energy consumption, **patented reflective optics** have been applied to the lighting fixtures of the Petrarca family, which can significantly reduce glare and guarantee high energy savings.

The optics are interchangeable in anodised aluminium covered with an extremely reflective silver layer (98%).

**Three international patents** that change light: the total reflection patent, filed in 2008 uses a reflector inside the luminaire that collects the rays of LED light and focuses them onto the ground uniformly. The LEDs are thus concealed from view, significantly **reducing glare**.

Visual comfort and energy savings are the most tangible results of the total reflection system



## Optical design

The reflectors, capable of managing the LED sources, are designed internally. The continuous collaboration between the departments allows us to identify the best photometry for each project, capable of limiting consumption as far as possible and thereby avoiding waste. Illuminate only where needed, without shadowy areas.



\* arianna

light looking for ward



# Petrarca: technical performances



## lifetime

L80B10  
120,000 hours



IP66

## liquids/dusts

Completely protected against  
dust and liquids



IK08

## impact protection

Excellent mechanical  
resistance



## surge protection

10 kV com  
6 kV diff



## service environment temperature

Perfect functionality from  
-30°C to +50°C



## efficiency

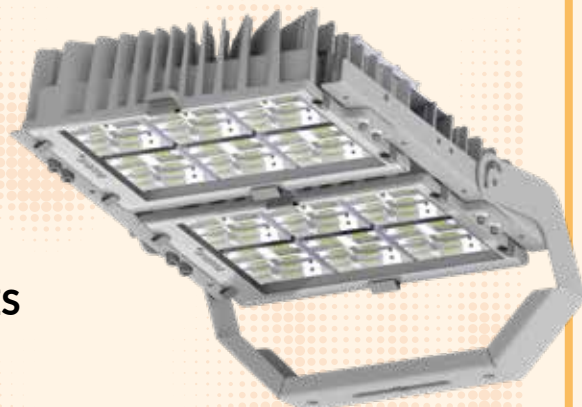
Up to  
162 lm/W

## The patented optical system

*an Arianna exclusive*

Optics designed internally on **anodized aluminum reflectors** covered with a layer of pure silver which ensure:

- \* UNIQUE RESISTANCE TO HIGH TEMPERATURES**  
up to 150°C (the highest on the market)
- \* EXCELLENT EFFICIENCY OVER TIME**  
a loss of efficiency of only 1% after 16 years has been calculated
- \* MAXIMUM REFLECTIVITY AND TRANSMITTANCE**  
98% calculated





\* arianna

light looking for ward



# Arianna services

the answer to your lighting requirements



## evaluation of the existing system

Arianna offers its customers a professional preliminary inspection to promptly evaluate the existing system (ENERGY AUDIT).

## a choice of the highest performing tested product

the LED and the materials chosen for the construction of the street lighting bodies guarantee durability of the system. Precise reliability tests confirm the quality of the components chosen and guarantee long-lasting products capable of minimising maintenance costs.

## economic evaluation of the project

after the preliminary analysis and the precise project, Arianna is able to formulate the best technical-commercial and environmental offer, calculating the return on investment (Payback), and the saving of CO2 emissions.

## precise planning

each element is studied in detail to ensure that the final installation offers high performance, in compliance with the sector standards and respecting the light pollution laws. The lighting calculations are aimed at illuminating only where it is needed to avoid wasting energy.

## maximise savings

thanks to the quality of the extremely efficient and effective products and the innovative remote-control systems, Arianna is able to offer the most advantageous solution for its customers in terms of energy savings and environmental sustainability.

## post installation assistance

Arianna is also able to offer a complete technical test of post-work lighting technology verification according to the UNI standards.



Post installation assistance



Maximise savings and an economic evaluation of the project



A choice of the highest performing tested product



Precise planning



Evaluation of the existing system

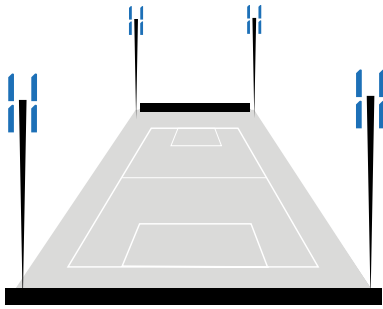


**The path  
to savings**



# Sport, tunnel and large spaces

From the design to the lighting system configured for each specific space



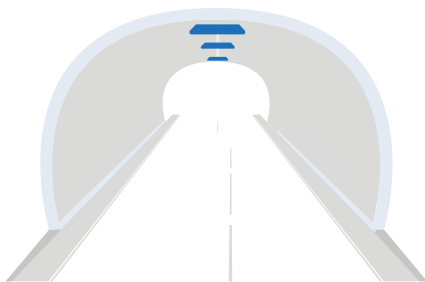
## Sports Facilities and large areas

LEDs and specific configuration for minimal dispersion allow the Petrarca system to ensure **maximum energy savings**, high **visual comfort** and **low maintenance**. The system uses the exact amount of energy needed: for training, competitions or even for partial use of the pitch or court. The thermal study reduces the heat emissions and guarantees a long lasting system with little maintenance.



## Industries

Many people spend most of their time in the workplace and **safety** and **well-being** are essential. Choosing the right light is one of the elements to consider when it comes to well-being. Petrarca guarantees excellent **visual comfort** and the **right visibility** in every situation, with **low consumption** and **excellent quality** materials.



## Tunnel

In Arianna's tunnel lighting project, Petrarca floodlights provide a new solution for efficiency, **visual comfort**, low maintenance and management. Low and competitive costs, Petrarca has a studied design in order to **optimise heat transfer**: symmetrical optics and reflection ensure visual comfort for the whole tunnel; in the entrance the counter beam flux optics and total reflection guarantee both the control of glare and avoid dispersion so simultaneously guaranteeing low TCO.



# Petrarca sport and large spaces

The right lighting for athletes and spectators

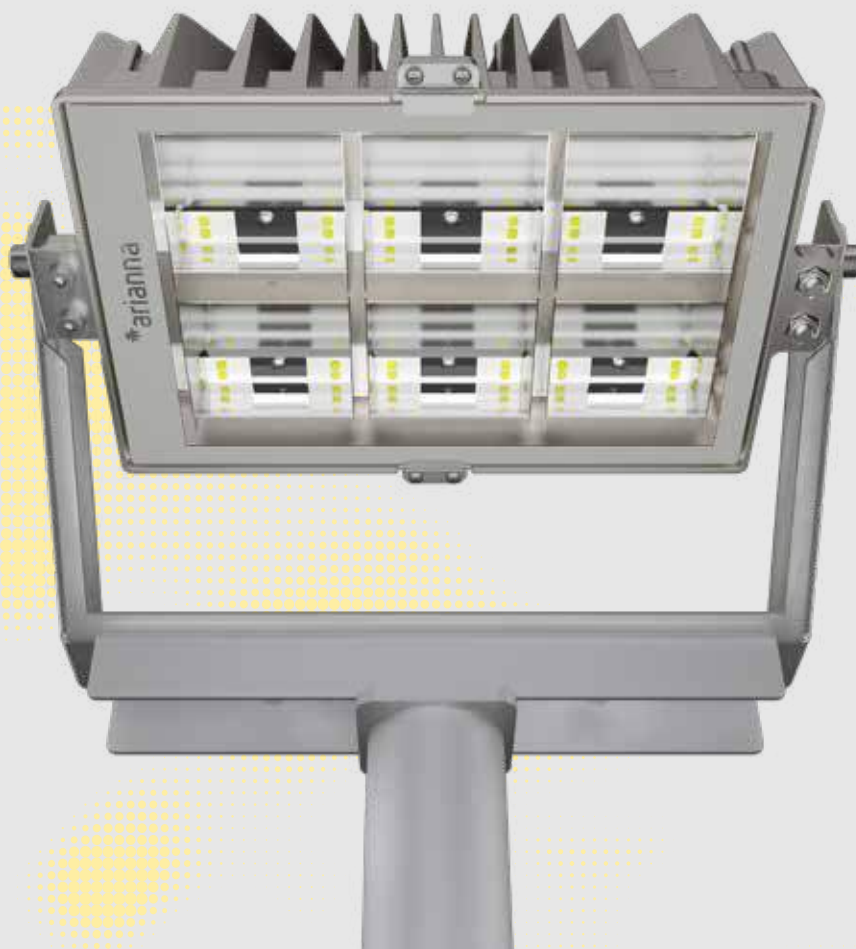


Arianna's sports ground floodlights were designed to be **hard-wearing and reliable**, responding to the need to cut maintenance work to a minimum.

Lighting systems which guarantee the **right light with no glare or flickering**, the best solution for television broadcasts or photography, global and **uniform lighting** only where required, excellent vision for athletes and spectators in all the different areas of the ground, from any viewpoint.

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 13000 to 195,000 lumens, ensures the right lighting for every space and every situation.





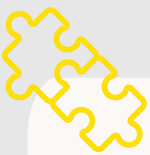
Petrarca optics are designed to guarantee **maximum performance and reliability**: silver-coated aluminium reflectors with maximum reflectivity (97%). By applying the total reflection patent to the reflectors, the spotlight can guarantee **very high efficiency** (module efficiency up to 200 lm/W) without 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.



### **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.



### **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.



### **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.





\* arianna  
light looking forward





# Accessories



## Bracket

### monolithic bracket

composed of a single piece

hot-dip  
**galvanized steel**

innovative  
aerodynamic  
**conformation**

**laser cut**  
and folded

**ennobled look**  
thanks to the painting

## Optional

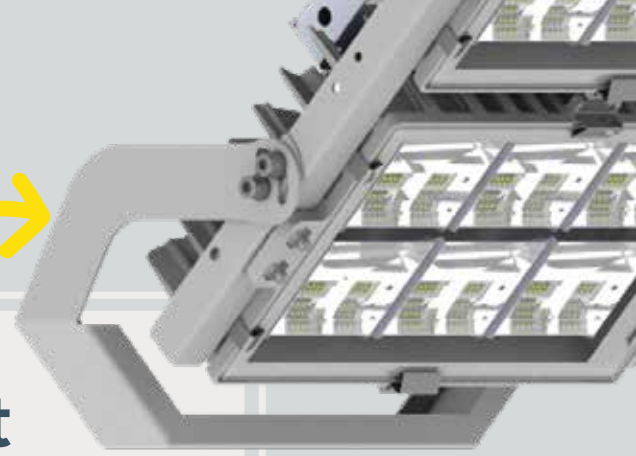
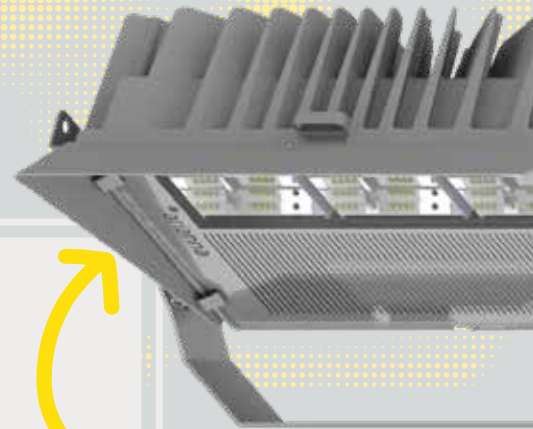
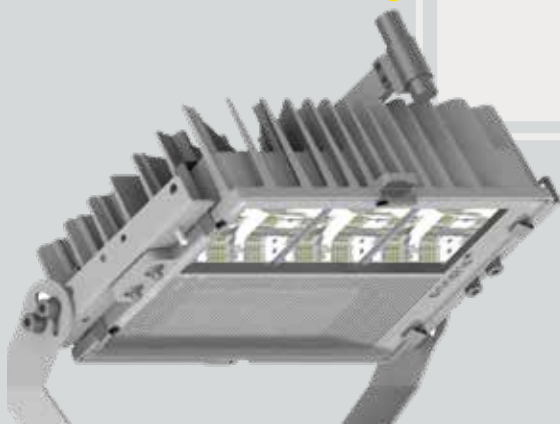
driver and cable  
**cover**

**laser beam adapter**

**cage IK10**  
up to 2 modules

**indoor brackets**  
up to 2 modules

anti-glare  
**screen**





# Smart Lighting

Arianna technology in every field




Arianna is able to offer **smart solutions** tailored to all customers that will optimise savings while reducing waste to the minimum, thanks also to remote control.


**The remote control** allows you to stay up-to-date on the efficiency of the individual floodlight (signalling malfunctions), to control the ignition and shutdown of the floodlight at a distance, to set specific lighting scenarios (competition, training, partial use of the field) and it is equipped with an automatic shutdown of the system if the field is not being used.




Products with **incorporated sensors** able to detect any access on the playing fields, allowing you to turn on the lamps only when you need them



Point-by-point dimming to ensure **energy optimisation** and visual comfort



Creation of **customised scenarios**



**Remote control** of the system

An aerial photograph of a sports field at night. In the center, a tall, black, multi-tiered lighting tower stands on a green artificial turf field. The tower has several horizontal arms extending outwards, each holding a large, rectangular light fixture. The field is marked with white lines. In the background, there are buildings and a parking lot, all illuminated by city lights under a dark blue sky. A bright light source, likely the sun or moon, is visible in the upper center of the sky, creating a lens flare effect.

\* arianna

light looking for ward



Choose our  
**TECHNOLOGY**

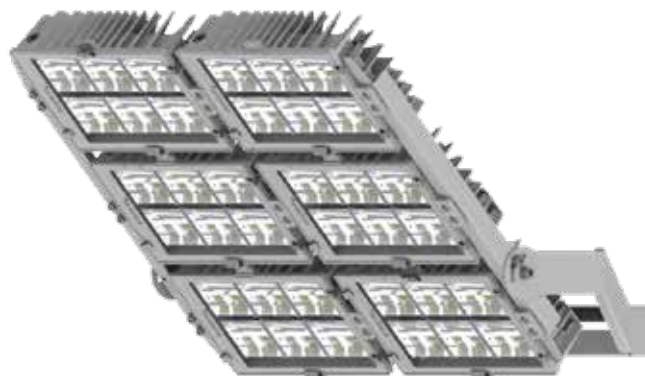
maximise your  
**SAVINGS**

# Petrarca 2.0

## Technical Data Sheet



Mechanical Features	
Body	Die-cast aluminum EN AB 44300
Copper content	Less than 0,1%
Total weight	see specifications sheet 2/3
Area exposed to the wind	see specifications sheet 2/3
Ingress protection	IP66
Shock protection	IK08
Diffuser	4 mm extra clear tempered glass
External screws	A2 stainless steel
Mounting	Floodlight bracket
Bracket material	Galvanized and painted steel

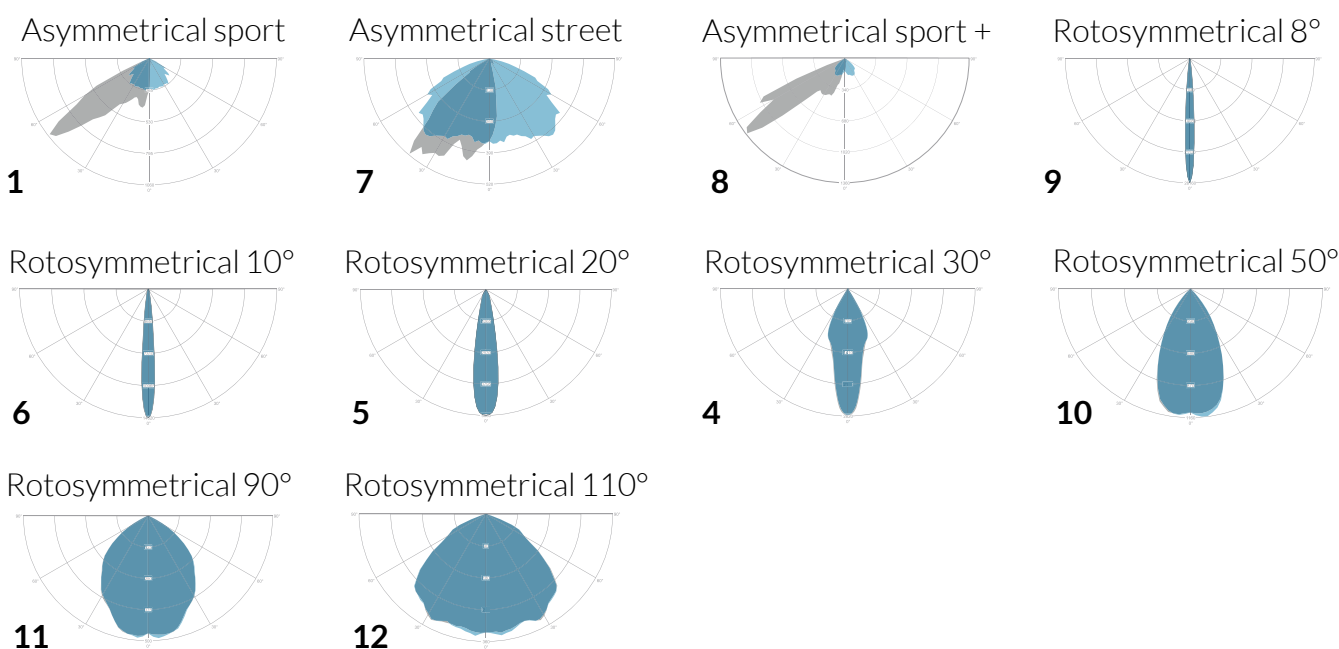


Product Features	
Voltage	220÷240 Vac (opzionale 380-400 Vac per 4 e 6 mod.)
Frequency	50/60 Hz
Electrical safety class	I (class II optional for 1 or 2 mod.)
Power Supply Program	F - Fixed with 1-10 V (standard) P - Standard Night Cycle D - DALI 2 X - DMX
Driving current	Up to 800 mA
Service environment temperature	-30° ÷ +50°C
Storage room temperature	-40° ÷ +80°C
Certifications	ENEC, CE, RoHS, EN60598-1, EN60598-2-5
Surge protection	10 kV com - 6 kV diff (10/10 on request)

Driver Features	
Power factor	> 0,9
Failure rate	<10% to 100.000 h
Substitutability	External replaceable driver
Flicker	Flicker factor <3%

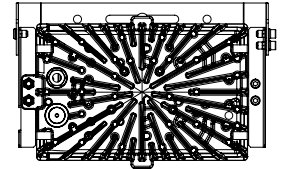
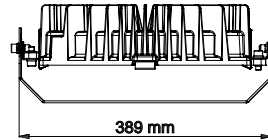
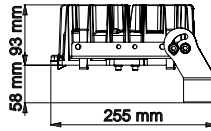
LED Module Features	
Color temperature	4000 K (3000 K 5700 K on request)
Color rendering index	> 70 (CRI 80 and 90 on request)
Lifetime L80B10	> 100.000 h (25°C T amb)
Optical system	Reflection optics

### available optics





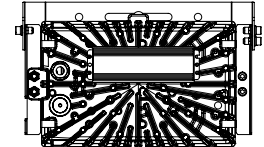
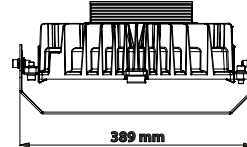
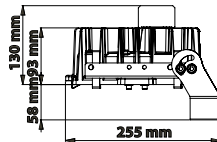
## 1/2 module version



Weight	6,5 kg
Area exposed to the wind	0,10 - 0,05 - 0,03 m <sup>2</sup>

CODE	OPTIC	CCT-CRI	FLUX (lm)	POWER (W)	EFFICIENCY (lm/W)
PET0098FY00**G00FE	*01-07-08	4000K-CRI70	10600	72	147
PET0134FY00**G00FE	*01-07-08	4000K-CRI70	14400	97	148
PET0107FV00**G00FE	*04-10-11-12	4000K-CRI80	10700	72	148
PET0141FV00**G00FE	*04-10-11-12	4000K-CRI80	14100	96	147
PET0088FY00**G00FE	*05-06-09	4000K-CRI70	9700	74	131
PET0126FY00**G00FE	*05-06-09	4000K-CRI70	13800	115	120

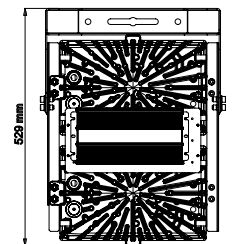
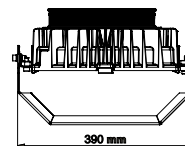
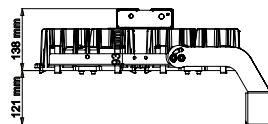
## 1 module version



Weight	7 kg
Area exposed to the wind	0,10 - 0,05 - 0,03 m <sup>2</sup>

CODE	OPTIC	CCT-CRI	FLUX (lm)	POWER (W)	EFFICIENCY (lm/W)
PET0207FY00**G01FE	*01-07-08	4000K-CRI70	20800	139	150
PET0256FY00**G01FE	*01-07-08	4000K-CRI70	30600	207	148
PET0196FV00**G01FE	*04-10-11-12	4000K-CRI80	21300	144	148
PET0242FV00**G01FE	*04-10-11-12	4000K-CRI80	29000	196	148
PET0186FY00**G01FE	*05-06-09	4000K-CRI70	20400	155	131
PET0260FY00**G01FE	*05-06-09	4000K-CRI70	28400	237	120

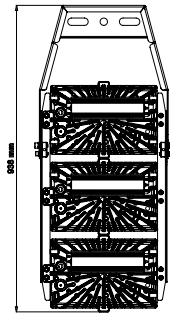
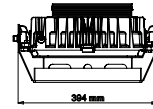
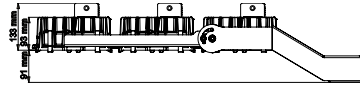
## 2 modules version



Weight	14 kg
Area exposed to the wind	0,20 - 0,05 - 0,06 m <sup>2</sup>

CODE	OPTIC	CCT-CRI	FLUX (lm)	POWER (W)	EFFICIENCY (lm/W)
PET0415FY00**G02FE	*01-07-08	4000K-CRI70	44800	301	148
PET0513FY00**G02FE	*01-07-08	4000K-CRI70	59500	403	148
PET0393FV00**G02FE	*04-10-11-12	4000K-CRI80	44900	303	148
PET0485FV00**G02FE	*04-10-11-12	4000K-CRI80	59500	404	147
PET0390FY00**G02FE	*05-06-09	4000K-CRI70	42600	355	120
PET0521FY00**G02FE	*05-06-09	4000K-CRI70	56800	473	120

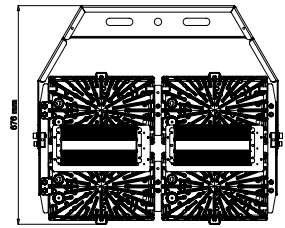
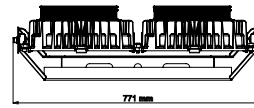
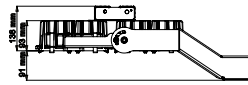
### 3 modules version



Weight	21 kg
Area exposed to the wind	0,29 - 0,05 - 0,08 m <sup>2</sup>

CODE	OPTIC	CCT-CRI	FLUX (lm)	POWER (W)	EFFICIENCY (lm/W)
PET0623FY00**G03FE	*01-07-08	4000K-CRI70	74800	505	148
PET0770FY00**G03FE	*01-07-08	4000K-CRI70	95400	654	146
PET0589FY00**G03FE	*04-05-06-09	4000K-CRI80	71000	585	121
PET0727FY00**G03FE	*04-05-06-09	4000K-CRI80	85200	703	121

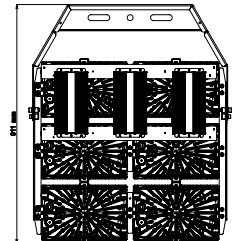
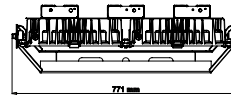
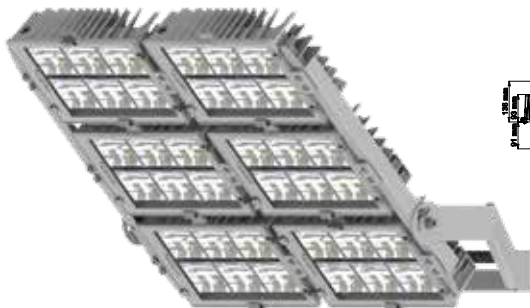
### 4 modules version



Weight	21 kg
Driver weight	5 kg
Area exposed to the wind	0,36 - 0,10 - 0,06 m <sup>2</sup>

CODE	OPTIC	CCT-CRI	FLUX (lm)	POWER (W)	EFFICIENCY (lm/W)
PET0831FY00**G04FE	*01-07-08	4000K-CRI70	113200	771	147
PET1027FY00**G04FE	*01-07-08	4000K-CRI70	129500	882	147
PET0785FY00**G04FE	*04-05-06-09	4000K-CRI80	99300	811	122
PET0970FY00**G04FE	*04-05-06-09	4000K-CRI80	113600	926	123

### 6 modules version



Weight	33 kg
Driver weight	7 kg
Area exposed to the wind	0,54 - 0,09 - 0,10 m <sup>2</sup>

CODE	OPTIC	CCT-CRI	FLUX (lm)	POWER (W)	EFFICIENCY (lm/W)
PET1246FY00**G06FE	*01-07-08	4000K-CRI70	149800	999	150
PET1540FY00**G06FE	*01-07-08	4000K-CRI70	193200	1313	147
PET1178FY00**G06FE	*04-05-06-09	4000K-CRI80	142000	1159	122
PET1455FY00**G06FE	*04-05-06-09	4000K-CRI80	181100	1518	119

### Accessories



DESCRIPTION	1/2 MOD	1 MOD	2 MOD	3 MOD	4 MOD	6 MOD
LASER BEAM ADAPTER	ACC0008	ACC0008	ACC0008	ACC0008	ACC0008	ACC0008
ANTI-GLARE SCREEN	ACC0009	ACC0009	2x ACC0009	3x ACC0009	ACC0010	ACC0015
DRIVER COVER			ACC0011	ACC0011	ACC0012	ACC0012
SHELTER + CABLE + STEEL CONDUIT			ACC0013	ACC0013	ACC0014	ACC0014

POSITIONS 1,2,3	PRODUCT FAMILY	P E T	Petrarca
POSITIONS 4,5,6,7	FLUX (*)	1 2 3 4	123 400 lm
		F	Fixed with 1-10 V (standard)
POSITION 8	POWER SUPPLY PROGRAM	P	Standard night Cycle
		D	DALI
		X	DMX
		X	3000K - CRI 70
		W	3000K - CRI 80
		Y	4000K - CRI 70
		V	4000K - CRI 80
		Z	5700K - CRI 70
		T	5700K - CRI 80
		N	5700K - CRI 90
		00	Classe I - 220 V ac
POSITIONS 10,11	ELECTRICAL SAFETY CLASS AND VOLTAGE	02	Class II - 220 V ac (only for Petrarca 1 and 2 modules)
		03	Class I - 380 V ac (only for Petrarca 4 and 6 modules)
		01	Asymmetric sport
		04	Rotosymmetrical 30°
		05	Rotosymmetrical 20°
		06	Rotosimmetrica 10°
		07	Asymmetric street
		08	Asymmetric sport +
		09	Rotosymmetrical 8°
		10	Rotosymmetrical 50°
		11	Rotosymmetrical 90°
		12	Rotosymmetrical 110°
POSITION 14	COLOUR	G	Grey
POSITIONS 15,16	NB. OF MODULES	06	6 modules
POSITION 17	FIXING MODE/APPLICATION	F	Floodlight
		E	External on board
POSITION 18	DRIVER POSITION	Y	Pole base IP66 (only for Petrarca 4 and 6 modules)

**EXAMPLE: Petrarca 6 modules, grey, 181.100 lm - 4000K CRI 70, with optic Rotosymmetrical 30° and external driver**

COD	P	E	T	1	4	5	5	F	Y	0	0	0	4	G	0	6	F	E
POS.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

The resulting code is: **PET1455FY0004G06FE**



# Petrarca Tunnel

The right lighting in every meter of the tunnel



Arianna lights are **sturdy, reliable and long-lasting**, thanks to the first-class components used; a fundamental characteristic in problematic environments such as tunnels, where maintenance can prove difficult.

The use of the **patent for total reflection** in tunnels sets Arianna lights apart from all the others, ensuring visual comfort and improving overall visibility to **guarantee greater safety**.

For **reinforced lighting**, Arianna has devised counterbeam optics which, once the vertical and symmetric components of the light emission have been eliminated, generate a light beam that can achieve significant lighting levels, fulfilling the project's specific lighting requirements with significantly lower consumption.

For **permanent lighting**, the patented symmetrical total reflection optic guarantees the right lighting in terms of uniformity, glare and energy efficiency.

## version with central cable tray mounting



**1 MODULE** from  
2500 to 15000 lm

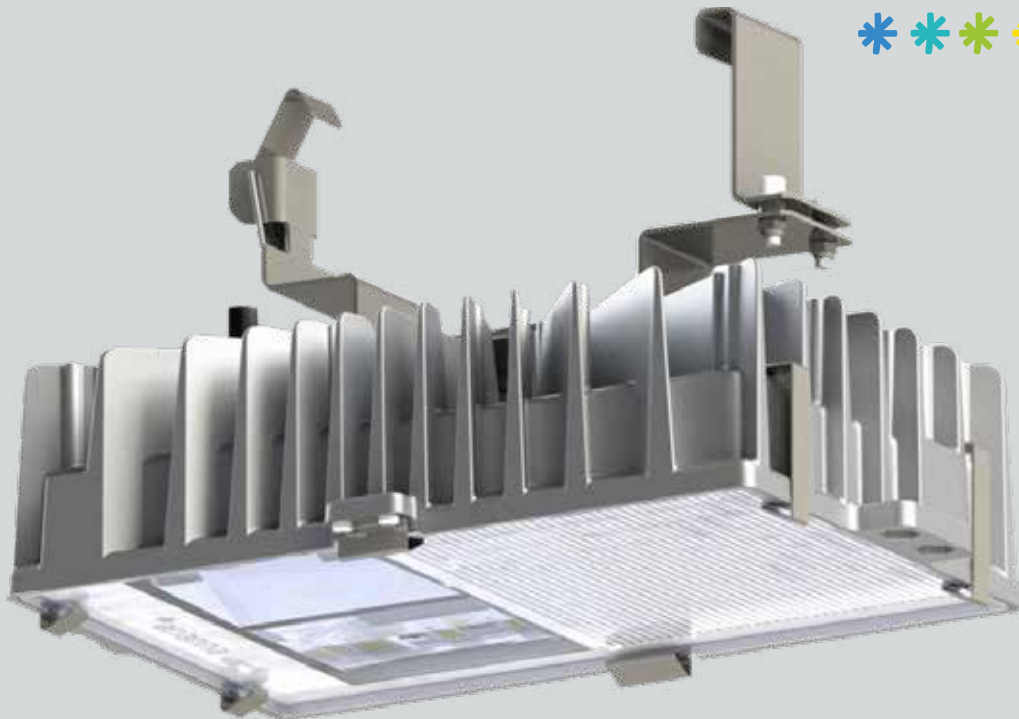


**2 MODULES** from  
19000 to 28000 lm



**3 MODULES** from  
33000 to 55500 lm

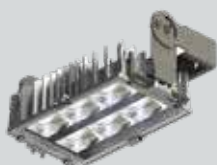
\* arianna  
light looking forward



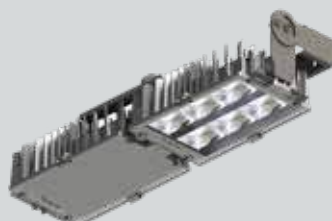
Petrarca lighting solutions **maximise energy savings** thanks to the total reflection system.

In the Tunnel version, Petrarca guarantees the **right lighting on different types of motorway and in road tunnels**. Thanks to the modularity of the Petrarca tunnel system, it is possible to meet all the project requirements both at the entrance and along the entire length of the tunnel for flux from 2,500 lm to 55,000 lm.

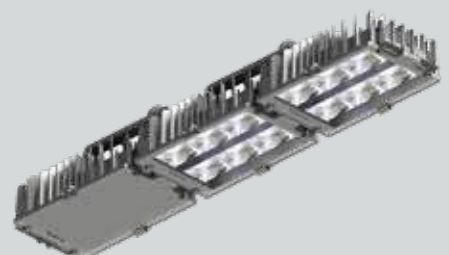
### **linear version with cable tray or side wall mounting**



**1 MODULE** from  
2500 to 15000 lm



**2 MODULES** from  
19000 to 28000 lm



**3 MODULES** from  
33000 to 55500 lm

## mechanical features

- The **mechanical parts** of the devices are manufactured from AISI 304 stainless steel or aluminium alloy, such as EN AB 44300 with a low copper content (less than 0.1%) which makes it the most corrosion-resistant casting alloy on the market. The mechanical parts also undergo an anti-corrosion treatment and epoxy powder paint coating;
- The **bracket fastening system** to the body of the Petrarca tunnel series fixture is made with a decoupler which avoids the damaging effect of screw connections between aluminium and stainless steel;
- The **adjustment modules** are integrated into the light fixture that was created to house the electronic equipment. The reception antenna, in particular, is fitted inside the optical compartment and, therefore, protected from the outside environment, the risk of breakage and corrosion, due to the atmosphere in the tunnel and cleaning operations.
- The **connection to the network** is via 2x1.5 FTG100M1 cable and CEE 16A 2P + E IP67 plug to ensure a quick connection to the junction box.
- The **outer screws** are made of A2 stainless steel (A4 on request), with a minimum dimension of M6. Self-locking screws are used.

## manufacturing features

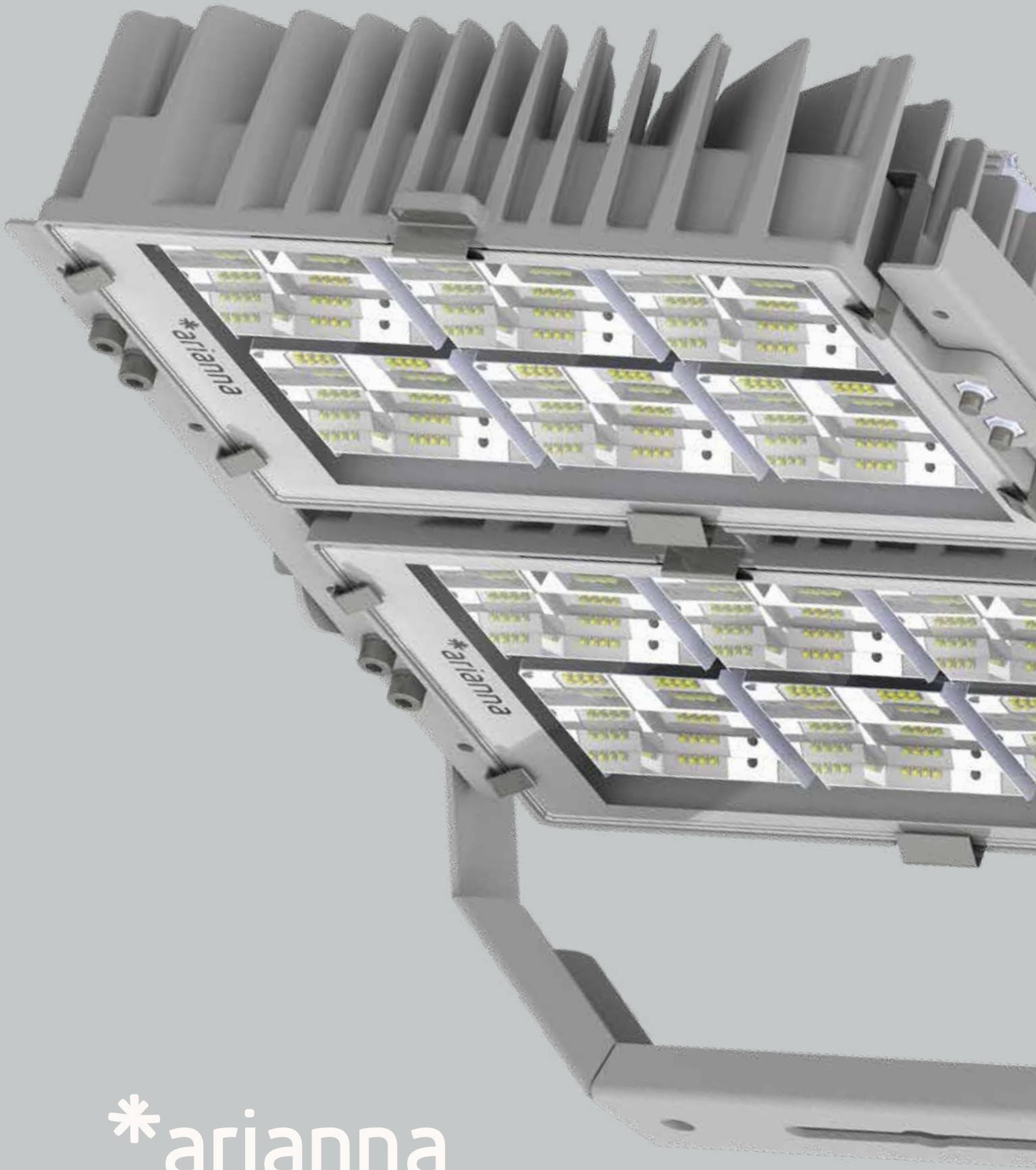
The glass of the proposed lighting fixtures is made airtight by using stainless steel clips to guarantee the right degree of protection. This prevents vehicle exhaust fumes from getting inside the appliances, preventing failure of the electronic components and **ensuring long-term efficiency of the appliance**. The system can be opened to facilitate maintenance of the LED modules, power supply unit and electronic controls

## installation method

The **brackets** feature quick-release AISI 304 stainless steel clips (316L on request) with a safety system to prevent accidental release. They have been designed to allow the floodlight to be rotated more easily.

The **wide range of brackets** available means the floodlight can be installed in a variety of ways: attached to the wall/ceiling, with a cable tray mounting compensating for the different shapes of existing cable trays when being installed.





\* arianna

light looking for ward


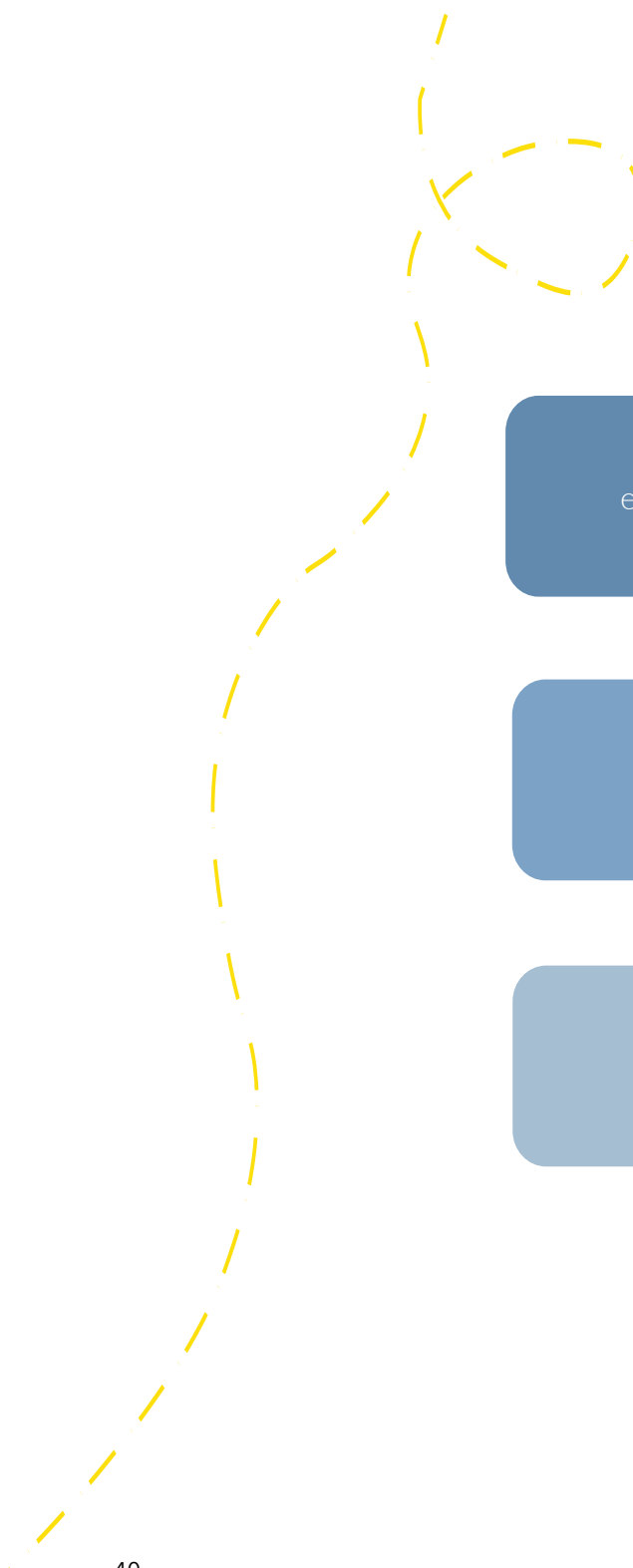


# Tunnel Smart


## Remote control systems in tunnel by Arianna




Remote control in tunnels is now of particular importance, to ensure an ever-**increasing level of safety** but at the same time to control energy waste, in the sense of **economic savings** but also of **environmental sustainability**.



Point-to-point dimming, to ensure **energy optimization** and visual comfort



Creating **custom scenarios**



**Remote control** of the system

To ensure **correct operation of the system**, the devices must be installed carefully and their position must be noted.

The remote-control technology provides a **local operating mode** managed by the control unit and remote system supervision, where provided, managed by the control centre.

**Two groups of lighting fixtures** are typically defined:  
**reinforcement and permanent**

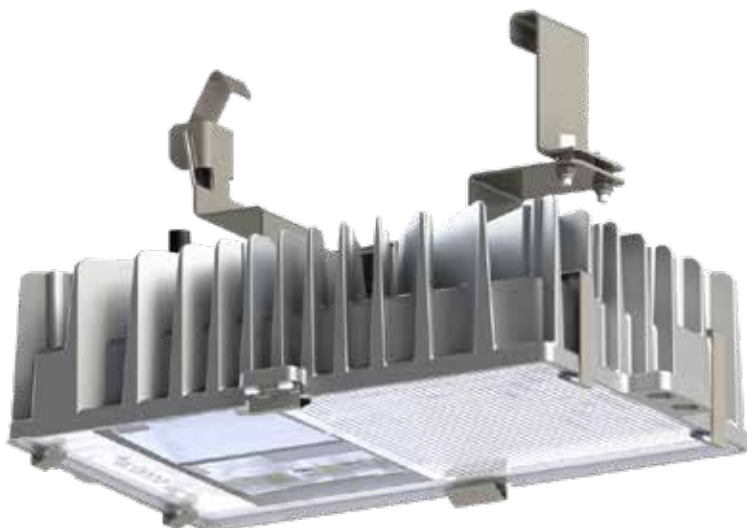


In this way it is possible to define the dimming rules according to the luminance detected in order to respect the lighting engineering parameters required **without waste** and the need for different lighting commands for each group.



# Petrarca tunnel

## technical data sheet



### Mechanical Features

Body	Die-cast aluminum EN 44300
Total weight	7.5 kg - 14 kg - 20 Kg
Ingress protection	IP66
Shock protection	IK08
Painting	Polyester powder paint
Gasket	Dispensed PU foam gasket
Color	Grey
Diffuser	5 mm extra clear tempered glass
External screws	Stainless steel A2
Brackets	Stainless steel AISI 304
Mounting	Wall or ceiling mounting; tool-less cable tray mounting Standard 100x75/200x75/300x75

### Product Features

Voltage	220÷240 V ac
Frequency	50/60 Hz
Electrical safety class	II (I optional)
Control system	F - Fixed D - DALI T - TLC PLC R - TLC Radio (standard)
Service environment temperature	-30° ÷ +35°C
Storage room temperature	-40° ÷ +80°C
Driving current	Up to 750 mA
Certifications	CE, RoHS, EN60598-1, EN60598-2-3
Surge protection	10 kV com - 6 kV diff

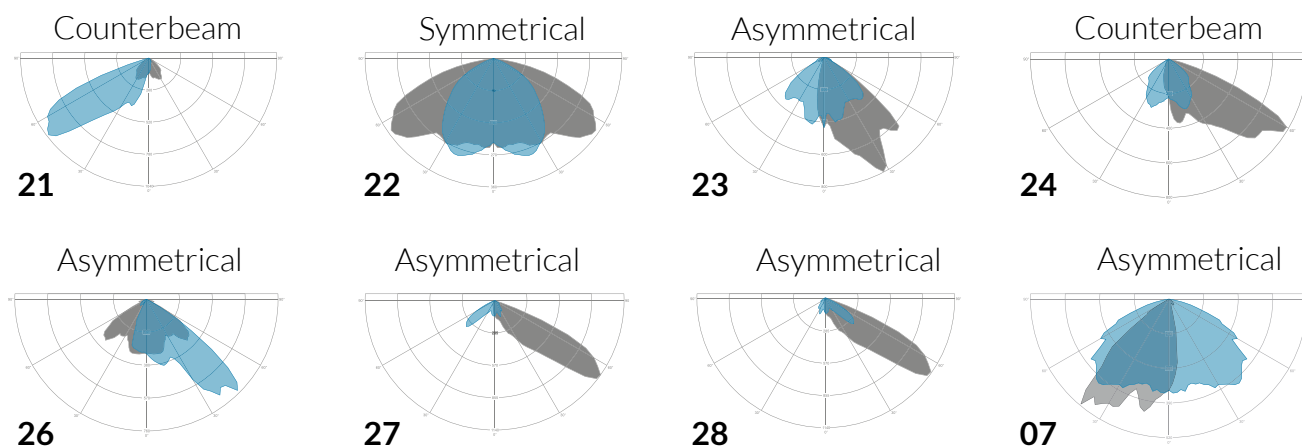
### Driver Features

Power factor (full-load)	> 0,9
Lifetime	> 100.000 hours
Power supply failure rate for 50,000 hours	<10%
IP driver compartment	IP66
Cable	FTG18OM16 - 2 x 1,5 mm2 with plug CEE IP67 2P+T 16A
Dimming	DALI

### LED Module Features

Color temperature	4000 K (5700 K optional)
Color rendering index	> 70 (80 optional)
LEDs' chromatic positioning	MacAdam step ≤ 5
Lifetime L80B10	> 120.000 ore (25°C T amb)
Optical system	Reflection optics

## Optics Petrarca 2.0 for galleries



## \*\* Asymmetric optics 21-23-24-26-27-28-07

CODE	N. MODULES	FLUX (lm)	POWER (W)	EFFICIENCY (lm/W)
PET0027RR00**G01yx	1	2588	19	137
PET0033RR00**G01yx	1	3595	25	143
PET0045RR00**G01yx	1	5063	36	140
PET0067RR00**G02yx	1	7107	48	147
PET0091RR00**G02yx	1	9395	66	142
PET0136RR00**G03yx	1	14664	105	140
PET0182RR00**G04yx	2	19785	139	143
PET0227RR00**G05yx	2	23518	165	143
PET0272RR00**G06yx	2	28054	196	143
PET0318RR00**G07yx	3	33122	234	141
PET0363RR00**G08yx	3	37629	267	141
PET0409RR00**G09yx	3	42080	299	141
PET0454RR00**G10yx	3	46476	325	143
PET0510RR00**G11yx	3	50816	356	143
PET0557RR00**G12yx	3	55733	388	143

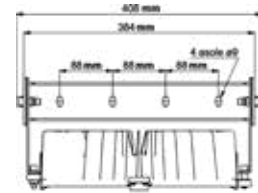
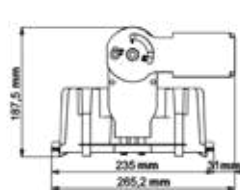
## Symmetric optic 22

CODE	N. MODULES	FLUX (lm)	POWER (W)	EFFICIENCY (lm/W)
PET0027RR0022G02yx	1	2691	17	157
PET0033RR0022G02yx	1	3709	24	153
PET0045RR0022G02yx	1	5164	34	151
PET0067RR0022G02yx	1	7295	45	162
PET0091RR0022G02yx	1	9764	64	154
PET0136RR0022G02yx	1	14578	96	152

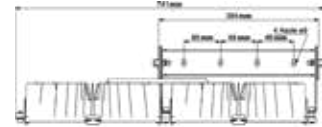
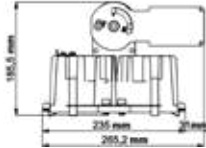
y Mounting: L=wall T=ceiling

x Bracket size

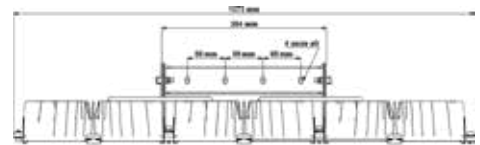
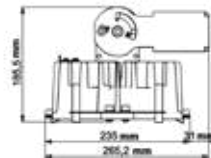
1 module linear



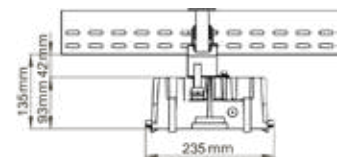
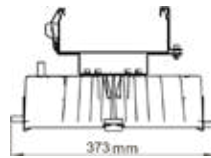
2 modules linear



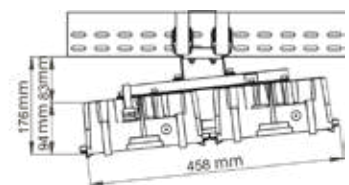
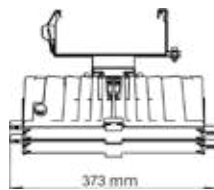
3 modules linear



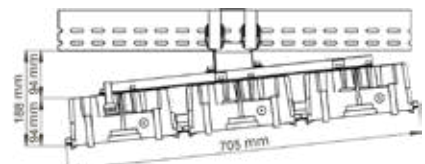
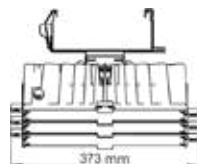
1 module ceiling



2 modules ceiling



3 modules ceiling





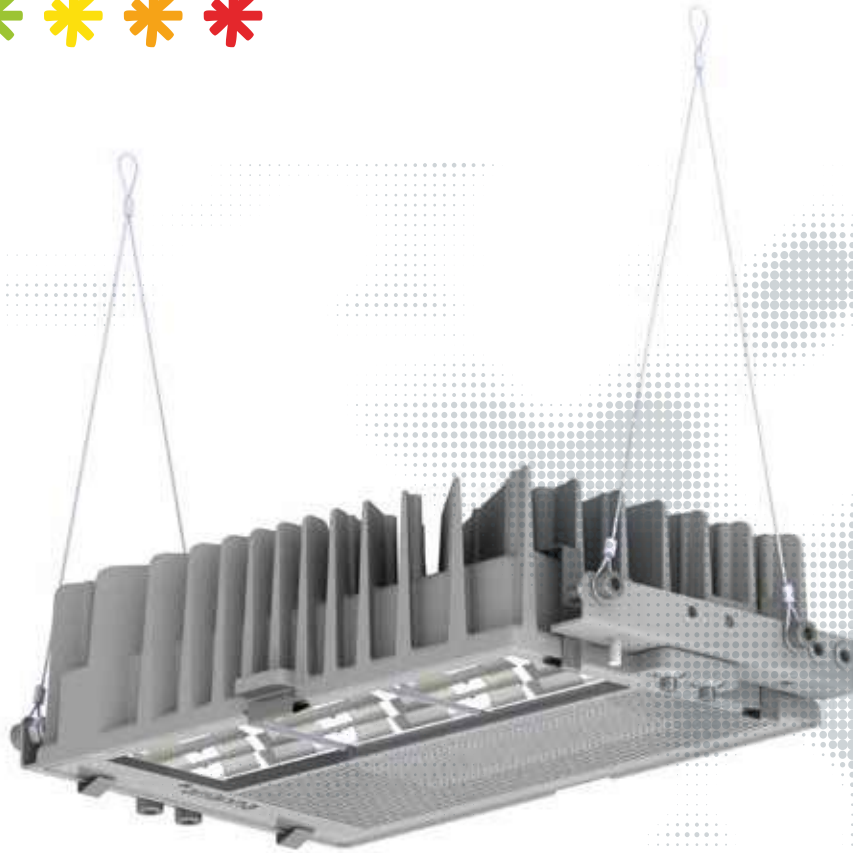
POSITIONS 1, 2, 3	PRODUCT FAMILY	PET	Petrarca
POSITIONS 4, 5, 6, 7	FLUX	0557	55700 lm
POSITION 8	POWER SUPPLY PROGRAM	F	Fixed
		D	DALI
		T	TLC PLC
		R	TLC Radio
POSITION 9	CCT + CRI	R	4000K - CRI 70
		O	4000K - CRI 80
		S	5700K - CRI 70
		0021	Counterbeam Optic
POSITIONS 10, 11, 12, 13	OPTIC	0022	Symmetric Optic
		0023	Asymmetric Optic
		0024	Counterbeam Optic
		0026	Asymmetric Optic
		0027	Counterbeam Optic
		0028	Counterbeam Optic
		0007	Asymmetric Optic
POSITION 14	COLOUR	G	Grey
POSITIONS 15, 16	NB. OF OPTICS	1 - 12	1 ÷ 12 optics
POSITION 17	FIXING MODE/APPLICATION	T	Ceiling mounting
		L	Wall mounting
POSITION 18	BRACKET SIZE		

**EXAMPLE: Linear Petrarca Tunnel 4 optics, grey, 18.200 lm - 4000K CRI 70, optic 26 and TLC PLC**

COD.	P	E	T	0	1	8	2	T	R	0	0	2	6	G	0	4	L
POS.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

The resulting code is: **PET0550TR0022G04L**

# Petrarca Industrial



Making workplaces comfortable is essential for the well-being of workers and for the productivity of the company. One of the fundamental aspects is the lighting, which must guarantee **visual comfort** and the **right visibility** where needed.

Petrarca is the Arianna floodlight with **maximum technical performance** designed to adapt to all types of environments and to contain consumption and maintenance costs. In the industrial environment it is the ideal product for installations above 6m in height up to 30,000 lm thanks to the wide optical range and the accessories designed for each type of relamping.

In addition to maximizing **energy savings**, the patented optical system ensures a comfortable environment capable of minimizing glare and making workplaces live in safety.

The mechanical parts, already tested in the tunnel, are perfectly suited to industries, sheds, warehouses, parking areas and in all environments with high stress factors such as humidity, extreme temperatures, chemical and welding fumes, thanks also to the **wide range of temperatures resistance from -30°C to +50°C**.



### **a solution for all environments**

Petrarca's robust design is suitable for all areas of the working environment, even the most complicated thanks to the IK08 mechanical resistance and IP66 resistance to dust and liquids.



### **patented optical system**

The light source is hidden from view and ensures very high levels of visual comfort but also a uniform distribution of light up to 30,000 lm.



### **maximum savings**

The choice of materials, the innovative thermal study and the long tested L80 life of more than 100,000 hours allow management costs to be contained. The high levels of efficiency (up to 150 lm/W) also ensure a considerable reduction in consumption costs.



### **ease of installation**

The compact shape and accessories designed for Petrarca allow ease of installation and adaptability to different relamping needs.



# Petrarca industrial

## Technical Data Sheet



Mechanical Features	
Body	Die-cast aluminum EN AB 44300
Copper content	Less than 0,1%
Total weight	6,5 kg
Area exposed to the wind	0,10 - 0,05 - 0,03 m <sup>2</sup>
Ingress protection	IP66
Shock protection	IK08
Diffuser	5 mm extra clear tempered glass
External screws	Stainless steel A2
Mounting	Suspended
	Projector
	Wall mounting

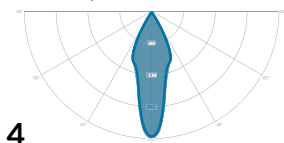
Product Features	
Voltage	220÷240 Vac
Frequency	50/60 Hz
Electrical safety class	I
Control system	F - Fixed (standard) D - DALI 2
Service environment temperature	-30° ÷ +50°C
Storage room temperature	-40° ÷ +80°C
Certifications	CE, RoHS, EN60598-1, EN60598-2-5
Surge protection	10 kV comune - 6 kV differenziale

Driver Features	
Power factor	> 0,9
Failure rate	<10% for 100.000 h
Substitutability	External replaceable driver
Flicker	Flicker factor <3%

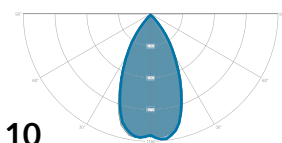
LED Module Features	
Color temperature	4000K (5700K optional)
Color rendering index	> 80
Lifetime L80B10	> 100.000 h (25°C T amb)
Optical system	Reflective optics

### available optics

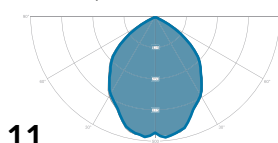
Rotosymmetrical 30°



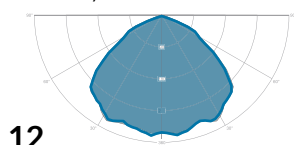
Rotosymmetrical 50°



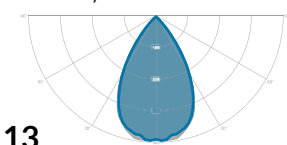
Rotosymmetrical 90°



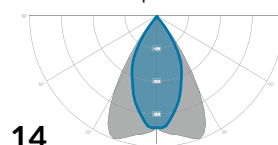
Rotosymmetrical 110°



Rotosymmetrical 70°



Elliptical



## Standard version **\*\*04-10-11-12-13-14**

CODE	FLUX (lm)	POWER (W)	EFFICIENCY (lm/W)
PET0140FV00**G00HE	14300	96	149
PET0180FV00**G01HE	18200	122	149
PET0210FV00**G01HE	21400	144	149
PET0300FV00**G01HE	30300	205	148

## DALI2 version **\*\*04-10-11-12-13-14**

CODE	FLUX (lm)	POWER (W)	EFFICIENCY (lm/W)
PET0140DV00**G00HE	14300	96	149
PET0180DV00**G01HE	18200	122	149
PET0210DV00**G01HE	21400	144	149
PET0300DV00**G01HE	30300	205	148

## Configurator

POSITIONS 1,2,3	PRODUCT FAMILY	P E T	Petrarca
POSITIONS 4,5,6,7	FLUX (*)	1 2 3 4	123 400 lm
POSITION 8	POWER SUPPLY PROGRAM	F	Fixed (standard)
		D	DALI2
POSITION 9	CCT + CRI	V	4000K - CRI 80
		T	5700K - CRI 80
		N	5700K - CRI 90
POSITIONS 10,11	INSULATION CLASS AND VOLTAGE	00	Class I - 220 V ac
		04	Optic 30°
POSITIONS 12,13	OPTIC	10	Optic 50°
		11	Optic 90°
		12	Optic 110°
		13	Optic 70°
		14	Elliptic optic
POSITION 14	COLOUR	G	Grey
POSITIONS 15,16	NB. MODULES	01	1 module
		H	High bay
POSITION 17	FIXING MODE/APPLICATION	F	Projector
		C	Wall mounting
POSITION 18	DRIVER POSITION	E	External on board

**EXAMPLE: Petrarca DALI 6 modules, grey, 21.000 lm - 4000K CRI 80, with 50° rotosymmetrical optic and external driver**

COD	P	E	T	0	2	1	0	D	V	0	0	1	0	G	0	1	H	E
POS.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

The resulting code is: **PET0210DV0010G01HE**





\* arianna

light looking for ward





**Arianna s.p.a.**

Via dell'Industria, 17/A - 35028  
Piove di Sacco (PD), Italia

Tel. +39 049 73 89 920  
P.I. 04387780283

[infoitalia@ariannaed.com](mailto:infoitalia@ariannaed.com)  
[www.ariannaed.com](http://www.ariannaed.com)

