



PROJECTBOOK6

GREEN PRODUCTS, IN A GREEN WAY



The previous edition of the PROJECT BOOK introduced the new decade as a new period of change, in which light would be its central focus. Never before we found ourselves talking about a real digital transformation of public and private companies. A real change of mentality, strategies and culture in which light plays a key role in the continuous change of needs.

People, companies, technologies: only the integration of these variables allows to reap the full benefits of digital transformation. In this context, Fael LUCE has adopted the cornerstones of this revolution, making digital its activities and its production processes. Such investments have earned it the prestigious recognition of the company operating according to the model of the Circular Economy, a confirmation of how the digital transformation is a valid ally in the achievement of the objectives of environmental, economic and social sustainability. A strategic vision that has resulted, in a concrete way, in a range of products technologically advanced and focused on the Customer and the Experience.

Aware of the impact of lighting on energy consumption, Fael LUCE supports the projects of energy renewal and sustainability of its customers, with efficient solutions towards a renewed paradigm of lighting, offering complete connectivity and control. A digital approach and, above all, a transformation, a new way of conceiving lighting products, with the aim of guiding the Customers towards their digital transformation.

The reading of this brochure will allow you to see first-hand the most important international projects realized with the solutions for the wise Fael LUCE luminaires, aimed at improving the performance of energy performance and the well-being of people.

Happy reading!

Luciano Parravicini

A handwritten signature in black ink, appearing to read 'Luciano Parravicini'.

Board of Chairman Fael Spa



www.faelluce.com





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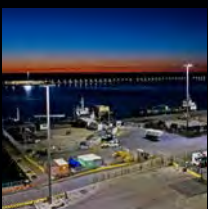
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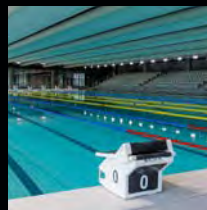
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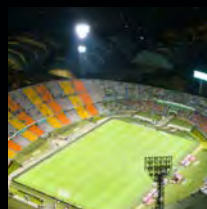
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PROXIMO HP CEMONO HORSE RIDING CENTRE

Lohfelden - Germany



The Cemono horse riding centre in Lohfelden, Germany, is a reference point for all lovers of equestrian disciplines. The wide range of products offered by Fael LUCE, allowed the equestrian centre to choose the high power PROXIMO HP floodlights, with custom asymmetrical optics, to light up the sand race course.

The **PROXIMO HP** floodlight has an unmistakable aesthetic style and contemplates design and technology to offer professional lighting solutions effectively and efficiently in a lightweight and easy-to-install body. Being the heart of the riding centre's activities, the new lighting system, installed on the perimeter, has allowed to obtain an excellent light output, making the area remarkably bright and perfect for competitions.

Any equipment settle during competitions, such as obstacle posts, training equipment, etc., are well enlightened, making it considerably easier for athletes to concentrate and improving their visual comfort. In addition, the new LED lighting system makes it possible to work and train also in the evening, while monitoring and controlling energy consumption.

NEXT SERIES
REAL CLUB PUERTA DE HIERRO

Madrid - Spain



Founded in 1895 as a polo club by a group of prominent nobles of the time, the Real Club de la Puerta de Hierro is the oldest sports club in Spain.

Today, it is still the most exclusive club as its affiliates include only Royal Families and European nobility members.

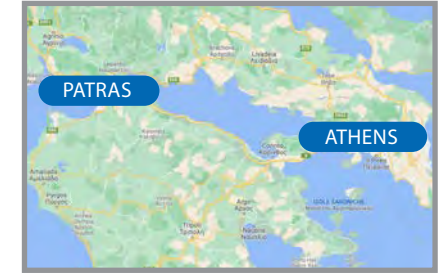
The complex hosts various sports disciplines, such as tennis, polo, padle and cricket. All its tennis courts are lit up with **NEXT SERIES** floodlights that are able to communicate in the best possible way with any type of environment. **NEXT** is the high-performance lighting solution that combines technology, modernity, flexibility and efficiency for a really revolutionary lighting.





PROXIMO SERIES A8 ATHENS-PATRAS

Patras - Greece



Fael LUCE teamed up with the Public Administration for the new LED streetlighting in Patras, Greece, proposing a solution that guarantees high energy efficiency rates as well as an increase in safety in the streets and residential areas of the city.

For the new public lighting in Patras, the need of the Municipality was to obtain lighting solutions characterized by flexibility of use, modularity and visual comfort, with the aim of increasing road safety in residential and suburban areas with heavy traffic.

The Customer, thanks to the highly professional technical support of Fael LUCE, has chosen the luminaires of **PROXIMO SERIES**, the most preferred LED streetlighting for energy efficiency projects.

HIGHLIGHTS

- **Infrastructural enhancement:** more value to the city districts by increasing their attractiveness.
- **High safety in streets and residential areas of the city:** the specific Safeway® street optic guarantee an homogeneous and uniform distribution of the luminous flux throughout the road, ensuring better visibility and visual comfort for drivers, cyclists and pedestrians, reducing the number of road accidents.
- **Greater energy efficiency:** significant reduction in energy and maintenance costs thanks to the PROXIMO SERIES luminaires, which guarantee an average luminous flux greater than 100,000 hours.

LED PUBLIC LIGHTING IN PATRAS - GREECE



WE LIGHT UP YOUR SECURITY





ARCALED SERIES VISCONTI TUNNEL

Novara - Italy



Light up a road tunnel while ensuring traffic safety and visual comfort is a matter of not an easy solution. The road tunnel is defined by legislation as a dangerous environment and, for this reason, legislation or industry rules oblige those responsible for the management and maintenance of the Infrastructure to build and operate a series of facilities to ensure safety for users passing through it, regardless of the conditions that may occur during day and night operation of the Infrastructure. In this context, the lighting system plays a key role.

A BRIGHT PERFORMANCE

Italy is one of the European countries with the highest concentration of motorway tunnels. Fael LUCE has been chosen as lighting partner for the renovation of about one third of the motorway tunnels on Italian soil.

With a length of 2745 meters, the Massino Visconti gallery, near Lake Maggiore, Italy, needed a lighting renewal that would replace the old high-pressure sodium-based lighting system, which was not energy efficient. The aim of the project was threefold:

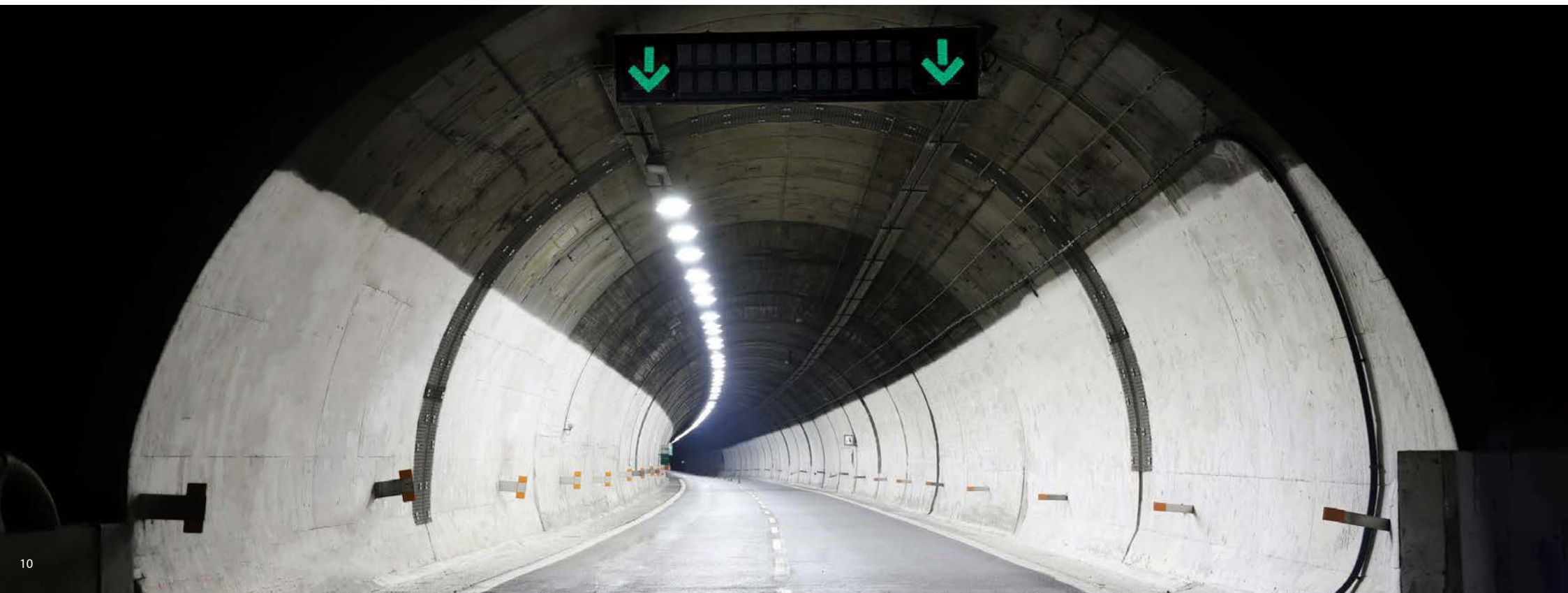
- ✓ modernize the lighting network to improve safety;
- ✓ ensure greater energy savings and greater visual comfort;
- ✓ reduce maintenance costs while maintaining the infrastructure.

THE SOLUTION

Fael LUCE, thanks to the experience and know-how acquired in the high-power professional lighting sector, has been able to achieve very well the objectives requested by the Customer with the new, innovative and advanced series of luminaires for tunnel lighting called ARCALED.

The new series is the expression of the typical *modus operandi* of Fael LUCE: the care of the smallest design details, from the optical group to the available electrical configurations, the constant search for innovative and more and more avant-garde solutions, have given rise to a technologically advanced solution.

Fael LUCE, thanks to the experience and know-how acquired in the **high-power professional lighting sector**, has been able to solve very well the visual task required by the Customer with the new, innovative and advanced series of luminaires for ARCALED tunnel lighting.





The **EASY FIX** system, designed for the adjustment of the lighting device, has allowed the rapid and precise installation of the luminaire on the channel placed, in this precise project, is located in a decentralized position with respect to the center of the roadway, ensuring perfect adaptability to the most heterogeneous road layout within the same tunnel.

The perfect photometric distribution of the **SAFE•TUNNEL** optics blended with the excellent uniformity, allows greater glare control, while the high color rendering of the light source, combined with the high performance of the luminaire, It increases the visual comfort that results in a clearer reading of those details, such as road retro-reflectors and vertical markings, as an essential condition for greater safety of drivers.

SMART 4 TUNNEL. EMPOWERING YOUR DIGITAL TRANSFORMATION

The renovation of the lighting system of the Massino Visconti Tunnel obviously also covered the connectivity part. The luminaires are complete with **SMART4TUNNEL** solutions for remote lighting management, ensuring users comfort, safety, efficiency and significant energy savings.

With ARCALED it is now possible to create a real data transmission network and able to connect and dialogue with the most technologically advanced remote control infrastructures. The intelligent control of tunnel lighting offers a dynamic approach to the realization of project objectives, with the possibility of making the infrastructure more and more connected with the vehicles with consequent benefits for the various stakeholders.

Type of floodlight: **ARCALED SERIES**

HIGHLIGHTS

- **114:** s the number of certificates, test results, declarations of conformity and certifications certifying the quality of ARCALED SERIES.
- **170:** motorway tunnels under renovation thanks to ARCALED tunnel lighting system.
- **10.000:** the number of ARCALED tunnel lights being installed.
- **100%** reliability thanks to end-of-line testing conducted on all parts produced at the Fael LUCE production plant, which verifies the colorimetric, electrical and dimming parameters at three power levels.



PROXIMO HP MANZANILLO INTERNATIONAL AIRPORT

Manzanillo - Mexico



The Manzanillo International Airport or Manzanillo-Costalegre International Airport, located in the north of the municipality of Manzanillo, Colima in Mexico occupies an area of approximately 355 hectares.

In view of the uninterrupted increasing number of passengers, the airport has had several improvements: one of the latest renovations concerns the outdoor lighting.

With the support of our technicians and our lighting designers, Fael LUCE designed a special mounting arrangement for **PROXIMO HP** floodlights. They are installed on 16 meter high poles in order to offer a perfect lighting in the apron areas.

Type of floodlight: **PROXIMO HP**

HIGHLIGHTS

- **High level** of lighting uniformity
- **Low glare** levels
- **High visibility and safety** during maintenance and loading / unloading operations

MADE IN ITALY SOLUTIONS FOR AIRPORT LIGHTING



LEADER IN PORTS LIGHTING EQUIPMENTS





LEDMASTER ONE SERIES PORTS OF ROME

Civitavecchia, Fiumicino, Gaeta - Italy



The ports that fall under the name of “Ports of Rome” are the ports of Civitavecchia, Fiumicino and Gaeta, all three located in Lazio Region, in Italy.

The Port of Civitavecchia is one of the biggest cruise ports in the world. It welcomes more than 2,300,000 passengers per year due to its close proximity to the city of Rome. The other two ports record in the last years a significant increase of goods and passengers transport.

Due to this expansion, the three ports needed a restyling and a modernization of the entire lighting system. The Port Authority asked for products that light up only where it was needed and with the right power, in fully compliance with the UNI EN 12464-2 standard which governs outdoor workplace lighting regulations. In addition the new lighting system had to reduce energy consumption and enhance security at the same time.

LEDMASTER ONE was the product that perfect suited all this requests.



The Port Authority can boast **efficient lighting systems** able to comply with the current rigorous regulations related to environmental protection.





A SMART AND INNOVATIVE SOLUTION

LEDMASTER ONE, with customized PROFESSIONAL asymmetric optic system ideal to lighting large areas, replaced the previous discharge lamps on the existing high mast towers.

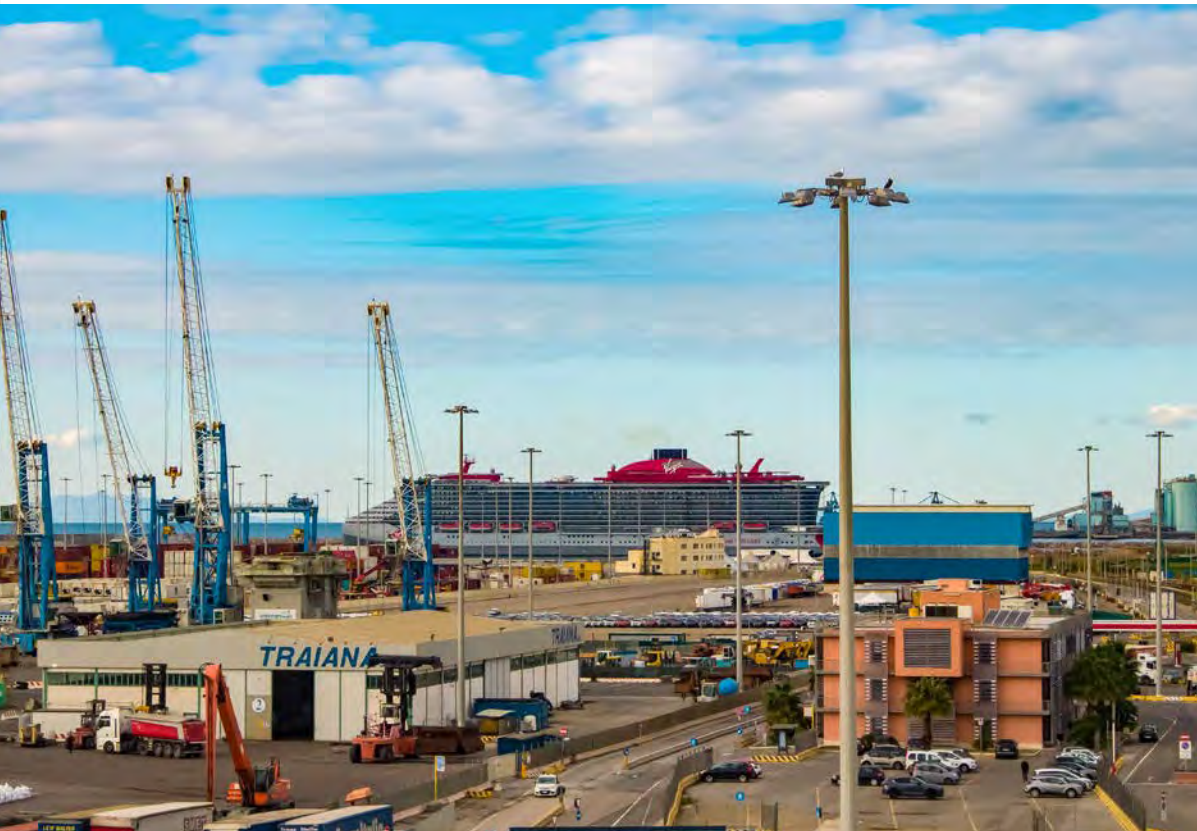
Furthermore, in order to prevent accidents and create a safe environments for goods and people, the whole port system needed a high level of visibility, focused only in areas where necessary.

Fael LUCE offered a turnkey lighting solution that integrates the **WISE SOLUTIONS**, the wireless and interconnected IoT solution for digital lighting management.

WISE SOLUTION-SMART4PRO allowed the management of **LEDMASTER ONE** with DALI system via Wi-Fi, in order to achieve energy savings thanks to the regulation based on the contribution of natural light and time schedules.

The new lighting system perfectly met the Authority requirements, ensuring high visibility and an excellent improvement in energy efficiency with a consequent reduction in costs and light pollution.

Type of floodlight: **LEDMASTER ONE SERIES**



NEXT SERIES WATER SPORT CENTER

Kaunas - Lithuania

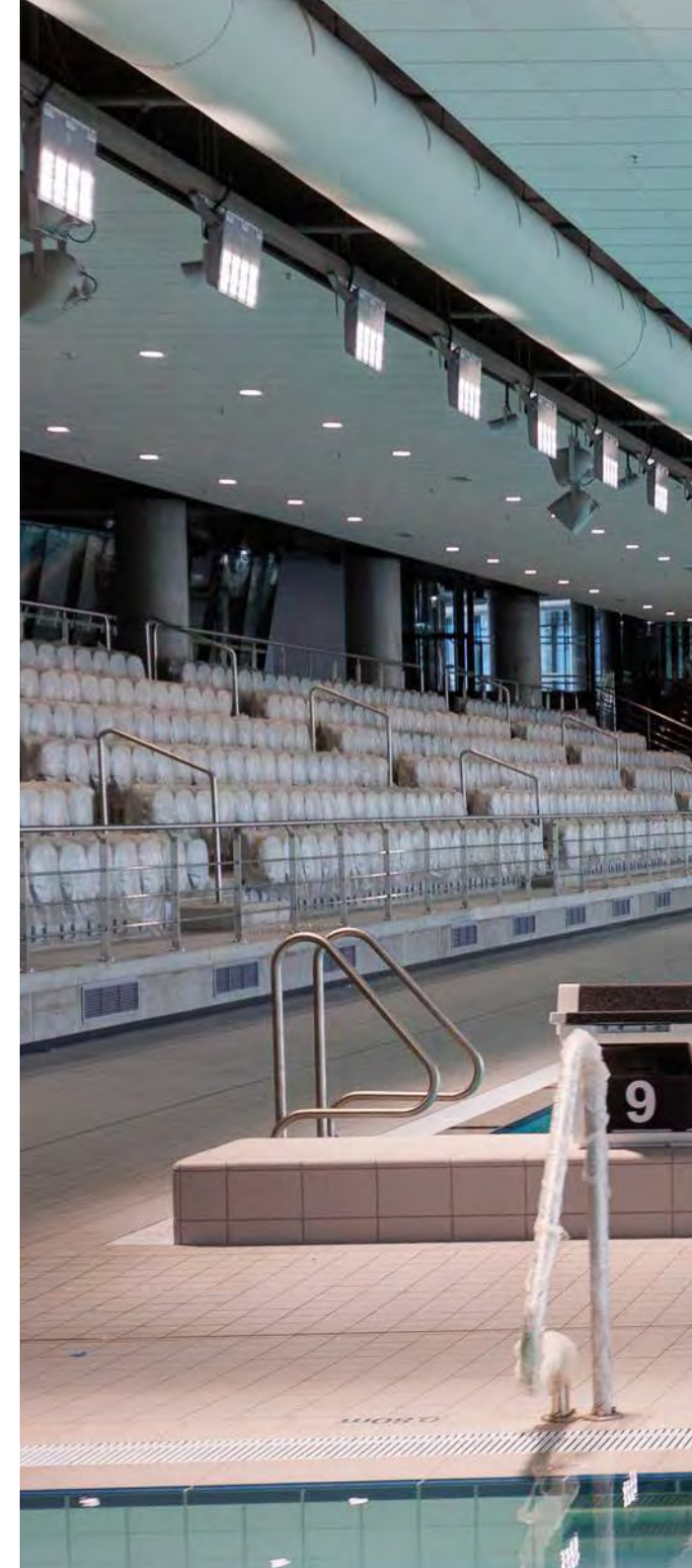
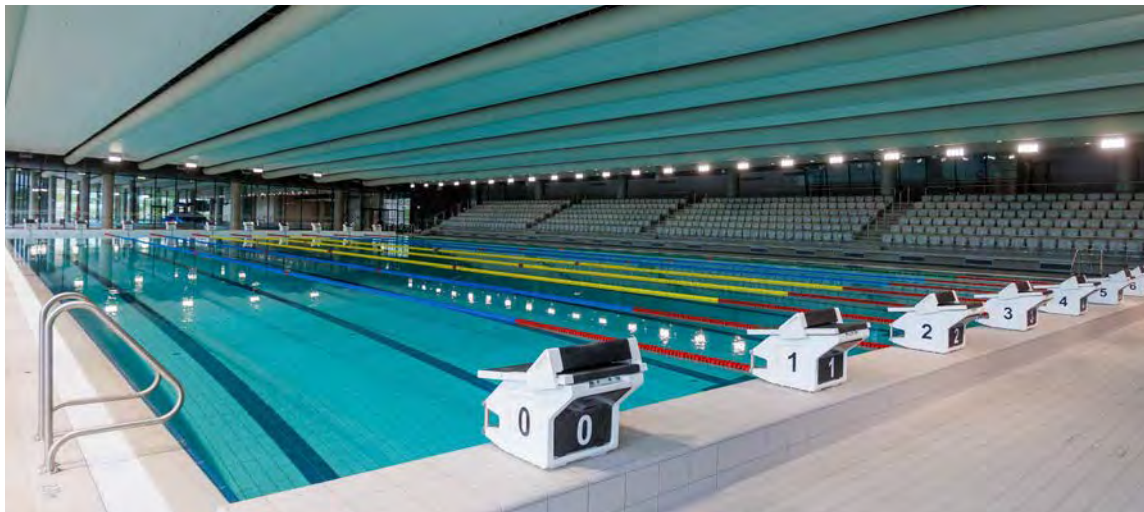


The Water Sport Center, an appendix to the Žalgiris arena, in Kaunas – Lithuania, is a new and modern structure, which houses a 50-metre Olympic-size swimming pool with 10 lanes and a large wellness area next to it. The facility will host the new Lithuanian and Baltic championships. The A+ class construction totally reflects the values of sustainability in full respect of the environment.

Fael LUCE, in order to pursue this philosophy, has designed the new lighting system of the aquatic sports center proposing NEXT series floodlights, integrated with WISE SOLUTION for the control of the luminous flux. This greener solution ensures the structure a significant savings of electricity, with a sharp reduction in maintenance.

The floodlights, in die-cast aluminium, have proven to be the ideal solution for these environments, particularly exposed to a high level of humidity. The glare free optics guarantee high visual comfort for both athletes and spectators.

Type of floodlight: **NEXT SERIES**



GREATER ATTRACTIVENESS FOR WATER SPORTS



COPA AMERICA: KICK OFF FOR LIGHTING REVOLUTION IN COLOMBIA





LEDMASTER ONE, LEDMASTER ONE JUST COPA AMERICA 2021

Barranquilla, Cali, Medellin - Colombia



Thanks to many years of experience in the lighting of important sports facilities in the world and thanks to a solid expertise in dealing with issues related to the modernization of stadiums, Fael LUCE was chosen as the unique partner in the design and supply of lighting fixtures for the three major stadiums in Colombia, which should have hosted Copa America 2021 matches.

The three stadiums involved are: Estadio Metropolitano Roberto Meléndez in Barranquilla, Estadio Olímpico Pascual Guerrero in Cali, and Estadio Atanasio Girardot in Medellín. Given the importance of the competition, the Colombian Ministry of Sport has started a restyling project to adapt all three stadiums to CONMEBOL-FIFA's new technical and architectural requirements.

A PROFESSIONAL SOLUTION

The new lighting systems were made entirely with **LEDMASTER ONE** floodlight series, an "ecological" and quality choice that brings countless advantages. Thanks to customized optics, you get perfect stability and outstanding light quality (with color media 5700K and CRI80), high energy efficiency and maximum visual comfort for both players and spectators.

In addition, Fael LUCE LED lighting system meets the needs of many TV broadcasters and football federations that require high quality lighting for HDTV and slow motion shootings. Fael LUCE, however, did not offer only the floodlights, but a full package solution. All the products are integrated with **WISE SOLUTIONS**, the new system with which it is possible to combine, thanks to IoT, management systems of the luminous flux, energy consumption and creation of scenic lighting effects with DALI and DMX control system.



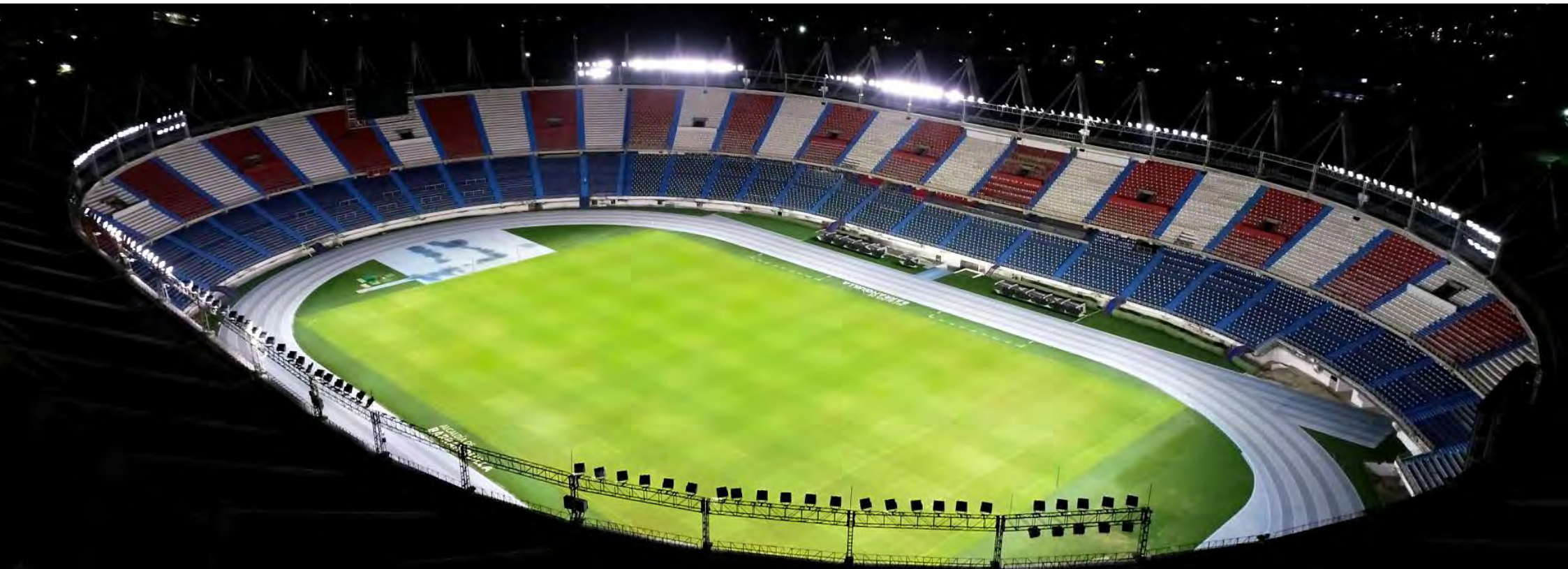
Recommendation:
FIFA- IAAF International
events level V.5



Recommendation:
Comenbol
Copa Libertadores



High technological floodlights manufactured entirely in Italy, equipped with **advanced digital lighting management systems** for entertainment and sporting events, reaching excellent results and achieve high-level lighting uniformity for HDTV and slow-motion footage.
Light and show: a perfect combination of emotions!





All the floodlights were equipped with DMX drivers and dedicate console which allowed to set pre-programmed lighting combinations such as colors, creation of unforgettable scenarios and spectacular light tricks that left all the audience attending the match astonished.

Moreover, it processes in real time the failure messages on the monitored systems, showing the current values for each situation and potential warning making the sport venue more efficient.

OUR LIGHTING REVOLUTION

One of the extraordinary advantages of Fael LUCE lighting system and for which the Authority chose Fael LUCE, was the certainty of achieving significant energy savings; thanks to the integration of all systems and centralized management, it can be saved more than 40% in energy consumption.

Thanks to Fael LUCE, the three Colombian stadiums can join the exclusive list of smart stadiums in the world with a technological lighting system that allows to manage different information in real time, bringing the entertainment experience to a completely new level.

The lighting revolution has already begun!

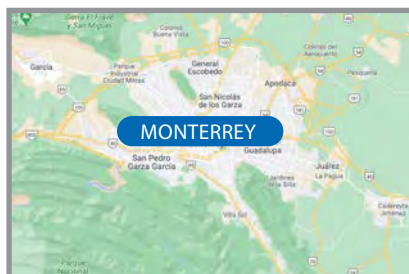
Type of floodlight: **LEDMASTER ONE, LEDMASTER ONE JUST**

WATCH THE VIDEOS!

  <p>BARRANQUILLA ESTADIO METROPOLITANO</p>	  <p>CALI ESTADIO PASCUAL GUERRERO</p>	  <p>MEDELLIN ESTADIO ATANASIO GIRARDOT</p>
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PROXIMO HP CLUB DEPORTIVO COLINAS

Monterrey - Mexico



In a privileged location with the most beautiful view of the city, the Club Deportivo Colinas in Monterrey, Mexico, has renewed the lighting systems of its 8 tennis courts by choosing **PROXIMO HP** floodlights.

The renovation included the replacement of the old traditional lighting fixtures located inside the sports centre, which originally consisted of metal halide floodlights with a total power of 61,600 watts.

The new LED floodlights, in the asymmetric version, make it possible to light tennis courts of any size, because they concentrate all the light power on the playing field, without ever dispersing it.

The other advantages of this technological upgrade are the creation of an extraordinary uniformity of light on the court, perfect visibility of the game for both players and spectators, and the achievement of energy savings of over 40%.

Fael LUCE has thus become the benchmark for Club Deportivo Colinas. Thanks to its specialized know-how and staff, the Club has been able to enjoy an excellent technical advice and the best lighting solution.

Type of floodlight: **PROXIMO HP**



UNDER THE NEW SPOTLIGHT



LIGHT AND INNOVATION TO TRANSFORM YOUR CITY





CHALLENGE - PROXIMO - DOMINO SERIES ITALIAN MUNICIPALITIES

Italy



Increasingly in recent years, cities make extensive use of innovation and technology in several contexts and more and more municipalities count on solutions to provide useful information and services to promote the city, make it safer, accessible and increasing its attractiveness.

A large number of Italian municipalities are the protagonist of an important urban revolution project that involves the entire public lighting system. With this terms we refer to streetlights, huge spaces and green areas, parking lot and infrastructures.

THE PROJECT

The project aims to reduce energy consumption and light pollution while improving light efficiency, traffic flows and road safety levels because municipalities are constantly looking for ways to provide sustainable solutions to their communities and improve facility performance.



Smart public lighting makes
the difference: **transform your city**
and save energy and costs.





TECHNICAL SOLUTION

Thanks to the high technological level of the Fael LUCE products, the outdated public lighting fixtures have been replaced with **CHALLENGE, PROXIMO** and **DOMINO SERIES**.

All the LED product involved in this project are integrated with **FAEL WISE SOLUTIONS**, the new system that, thanks to connectivity and the integration of several technologies, is able to create a two-way communication network.

Both for Public Administrations and users, the advantages of this new system are countless: significant reduction in energy costs, real-time control and monitoring of the lighting system, maximum applicability and flexibility and last but not least, achievement of sustainability goals (reducing CO₂ emissions and light pollution).

Type of floodlight: **CHALLENGE SERIES, PROXIMO SERIES, DOMINO SERIES.**



HIGHLIGHTS

- **Energy efficiency:** using LED sources means consuming less electricity and reducing maintenance costs. Thanks to the WISE SOLUTIONS, it is also possible to facilitate the lighting control, for a totally responsible lighting management.
- **Visual comfort:** excellent uniformity, allow greater glare control, while the high color rendering of the light source, combined with the high performance of the luminaire, increases the visual comfort that results in a clearer reading of road details.
- **Urban development:** thanks to high-quality lighting, it is possible to enhance the public areas and streets of the city, increasing visual perception at night with Fael LUCE street lighting solutions.

PROXIMO HP
"PALESTRA"
SALLE OMNISPORT

Chaumont - France

Open to the public in July 2021, Palestra is a sports, aquatic and cultural center supported by the Municipality of Chaumont, consisting of recreational facilities, wellness areas and several state-of-the-art indoor and outdoor pools.

Oriented to high-level sport events, the arena will host, in particular, the professional volleyball club of Chaumont, the CVB52 which plays in the National Serie A, for training sessions and championship matches.

The multipurpose structure can also be home to cultural events and shows. With a maximum capacity of more than 3000 seats, Palestra offers various

configuration options: from sports to show mode with a different configuration of the grandstand and seats, according to the type of event.

Thanks to the wide range of products offered by Fael LUCE, it was possible to choose the most suitable lighting configuration for this prestigious structure. The choice of designers focused on the high power **LEDMASTER ONE** projector, with PROFESSIONAL asymmetrical optical system that offers high efficiency in sports applications in the professional field.

Thanks to the integration of the **WISE SOLUTIONS** control system, the floodlight offers maximum versatility according to the required lighting scenarios.





GALAXY SHOW
LEAR CORPORATION
SEATING PLANT

Presov - Slovakia



Lear, a global automotive technology leader in Seating and E-Systems, is “Making every drive better™” by delivering intelligent in-vehicle experiences for customers around the world.

Its plant needed a lighting restyling that would transform the production site into a pleasant and safe place to work, favoring the increase in the productivity of the operators and reducing the risk of accidents at work.

By choosing the **GALAXY SHOW** highbays, the Company was able to achieve its objectives while supporting an environmental friendly project. The fixtures of this series are in fact perfect for replacing traditional light sources, not only in terms of energy savings with lower consumption, but also in terms of disposal, as they are completely free of pollutants such as metal halides and sodium vapors.





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