



**Fael**LUCE®  
DOING IT BETTER

PROJECTBOOK | VOL.1

Dear Reader,

In this book you will find out some projects that we have executed with our partners across the world. Each project has its own architectural features and thanks to the intensive collaboration with our world-wide clientele that it becomes a distinguished venue. All of these projects are the living proof of the synergies we have managed in the course of half-century of activities.

You have the imagination. We have the solution. This book just represents a starting point for further inspiration.

We strongly believe that only working closely together, your ideas will come true.

We hope that this book can inspire you in your dreams and future projects!

Enjoy the reading!















Luciano Parravicini

*Chairman President Fael Spa*

True Imagination.

True Light.



<p><b>SUMMARY</b></p>	<p><b>ESTADIO HERNAN RAMIREZ VILLEGAS</b> <i>Columbia</i></p> <p><b>4</b> LM ONE</p> 	<p><b>RADISSON BLUE</b> <i>Ukraine</i></p> <p><b>7</b> MACH 2 MACH 3</p> 
<p><b>CHANDNI CHOWK FLYOVER</b> <i>Rawalpindi - Islamic Republic of Pakistan</i></p> <p><b>8</b> TREND WAY LED</p> 	<p><b>AL AIN EQUESTRIAN SHOOTING AND GOLF CLUB</b> <i>U.A.E.</i></p> <p><b>11</b> LM ONE</p> 	<p><b>PANAMA CANAL EXPANSION</b> <i>Panama</i></p> <p><b>12</b> LM MAX</p> 
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## ESTADIO HERNAN RAMIREZ VILLEGAS

*Pereira, Colombia*

The FIFA WORLD CUP U20 disputed in Colombia in 2011, one of the main global football event, was floodlit by Fael LUCE. The award of this challenge evidences the high technical capability, competences, the quality and technical characteristics of the solutions proposed by Fael.

An event of this level has set in motion the entire Fael machine, that proposed a solution worthy of a world championship thanks to the projector LIGHTMASTER ONE, able to achieve excellent lighting levels, in full agreement with the recommendations laid down by FIFA. LIGHTMASTER ONE is the perfect solution that allows a perfect view of the playing field for players, spectators and television viewers.



Recommendation: FIFA Edition 2011  
Floodlights type: LIGHTMASTER ONE



### KEY FIGURES

**Horizontal Illuminance (Eh)**  
Average value achieved 1808 Lux  
Specified value > 1800 Lux

**Horizontal Uniformity**  
U1 0.74 Specification 0.60  
U2 0.86 Specification 0.80

**Vertical Illuminance (Ev) main TV Camera**  
Average value achieved 1761 Lux  
Specified value > 1400 Lux

**Vertical Uniformity**  
U1 0.57 Specification 0.50  
U2 0.72 Specification 0.65



Pure passion for sport



Pure architectural lighting







## RADISSON BLUE

Ukraine



The Radisson Blu Hotel in Kiev is an example of the synergy between functionality, harmony and elegance: an impeccable blend of beauty, style and cultural heritage. The main concept of this lighting project was to respect the peacefulness of the surrounding area, heart of embassies and government offices, chic shopping destinations and impressive churches, using indirect lighting solutions. The MACH Series floodlights offer an adequate *pure architectural lighting solution*, providing a soft and dim light, perfectly integrated into the general context of the structure and the surroundings.

Floodlights type:  
MACH 2 & MACH 3



## CHANDNI CHOWK FLYOVER, RAWALPINDI

*Islamic Republic of Pakistan*

Rawalpindi is a twin city of Islamabad (Capital of Pakistan) located in the Pothohar region of Punjab Province of Islamic Republic of Pakistan. The city represents the administrative seat of the Rawalpindi District and it is also an important centre for industrial and commercial activities. It is a third largest city of Pakistan in population, connected to the World through International Airport. Numerous shopping bazaars, parks and a cosmopolitan population attract shoppers from all over Pakistan and abroad.

Trend 4 Way Led, equipped with 36 of primary brand LED, was chosen to light the "CHANDNI CHOWK FLYOVER ROAD, which crosses various roundabouts such as Murree Road, Chirah Road, Commercial Market Road and Rawal Road. The TREND LED provides a bright white light which ensured the right lighting level to meet the safety and lighting requirements, maintaining the initial performance over time.

This choice embraced a new archetype of public lighting with LED technology, with an immediate result of a downturn in the energy consumption, an upsurge of energy efficiency and an effective contribute to the sustainability of the community.

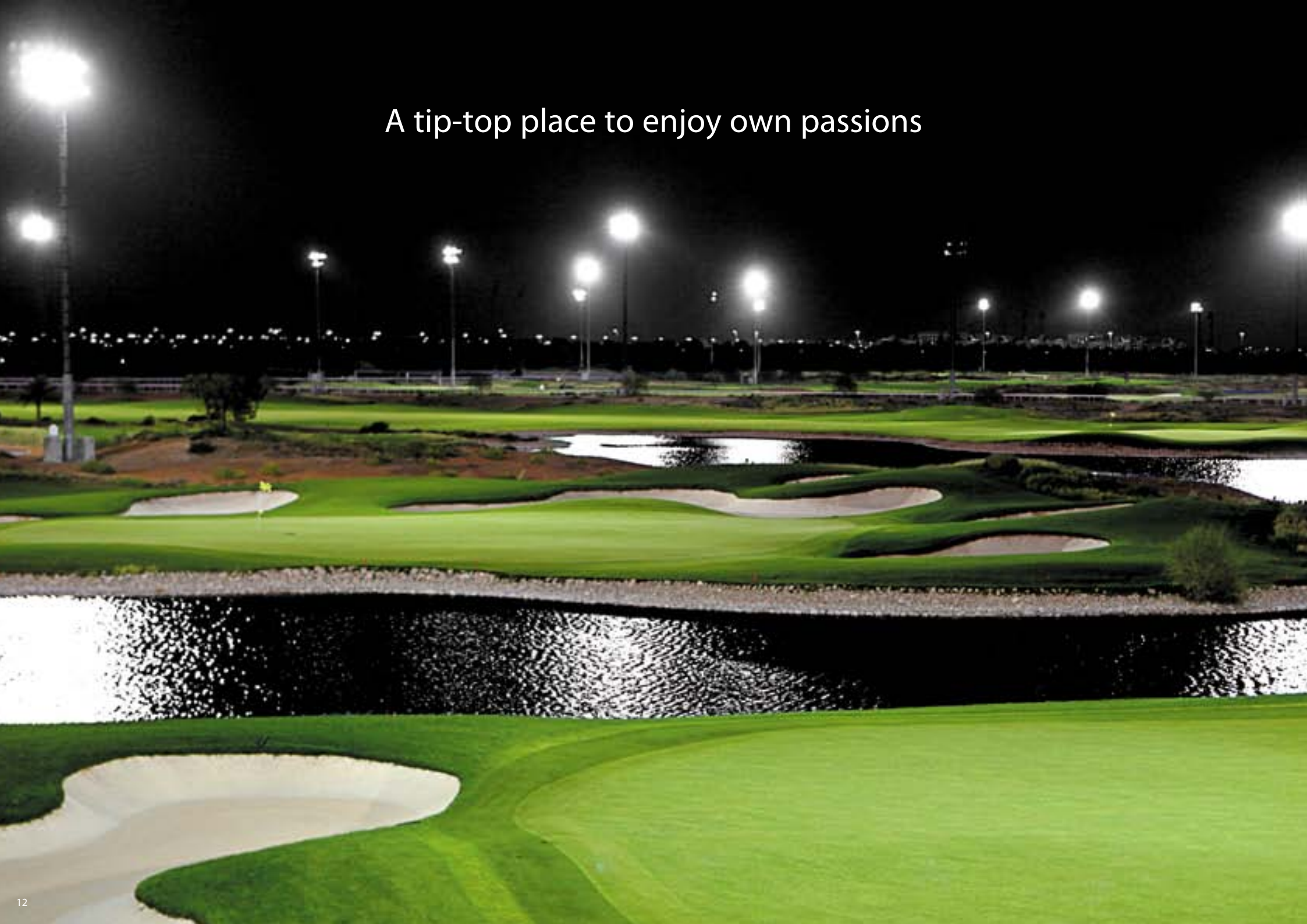
Floodlights type: TREND 4 WAY LED



Energy savings with improved safety and comfort



A tip-top place to enjoy own passions





## AL AIN EQUESTRIAN SHOOTING AND GOLF CLUB

U.A.E.



The Al Ain Equestrian Shooting and Golf Club was formerly known as the Palm Sports Golf Resort and is situated in the town of Al Ain in Abu Dhabi Emirate.

The Al Ain Equestrian Shooting and Golf Club opened its doors in September, 2007 becoming the first 9 holes grass course in Al Ain. Since then an additional 9 holes has been added to the Championship Course and a 9 hole par 3 Academy Course making the Club a full Golf Course.

The newer back 9 on the Al Ain Equestrian Shooting and Golf Club will also be floodlit for night golf thanks to the lighting system entirely provided by Fael LUCE, with 1400 LIGHTMASTER ONE floodlights.

The Al Ain Equestrian Shooting and Golf Club Championship Golf Course offers a picturesque and challenging experience for all golfers. The Golf Course also boasts the longest hole in the UAE on all the Golf Courses.

### KEY FIGURES

Floodlights type: LIGHTMASTER ONE 2000W  
Area: 9 Competitive holes + 9 Training holes

Horizontal Illuminance (Eh)  
Tee and Green: 250 Lux

Vertical Illuminance (Ev)  
Total area: 200 Lux



## PANAMA CANAL EXPANSION

*Panama*

The enlargement of the existing Panama Canal is one of the largest and most important engineering projects in the world.

It includes the construction of a new set of locks, which complements the existing one and will allow the transit of larger ships, increasing the commercial traffic using the canal and satisfying the market developments in the maritime transportation, which is continuously under expansion.

Fael LUCE has provided the floodlights to illuminate the building site that is working on the expansion of the Canal. This kind of lighting must ensure high standards of safety, so that the laborers, involved day and night in the realization of the enlargement, can work in a safety environment, properly lighted up.



The largest engineering project  
of the twentieth century



# The new era of lighting control







## HONG KONG STADIUM

Hong Kong



In this project, the engineering department of Fael LUCE has chosen LIGHTMASTER ONE floodlights by providing precise available optics and by the way delivering an excellent control of the luminous flux, a considerable glare control, a recommended lighting pollution control and a consistent saving money.

The Hong Kong stadium design is complete of five switching modes in accordance to a multi-purpose International and Domestic pitches light, emergency lighting and coaching, too.



Homologation: FIFA  
Floodlights type: LIGHTMASTER ONE  
Football field dimension: 105 x 68 m  
Rugby field dimension: 120 x 70 m  
Spectators: 54000

### KEY FIGURES

Horizontal Illuminance (Eh)  
3104 Lux

Horizontal Uniformity  
U1 0.81  
U2 0.87

Vertical Illuminance (Ev) main TV Camera  
2903 Lux

Vertical Uniformity  
U1 0.81  
U2 0.79

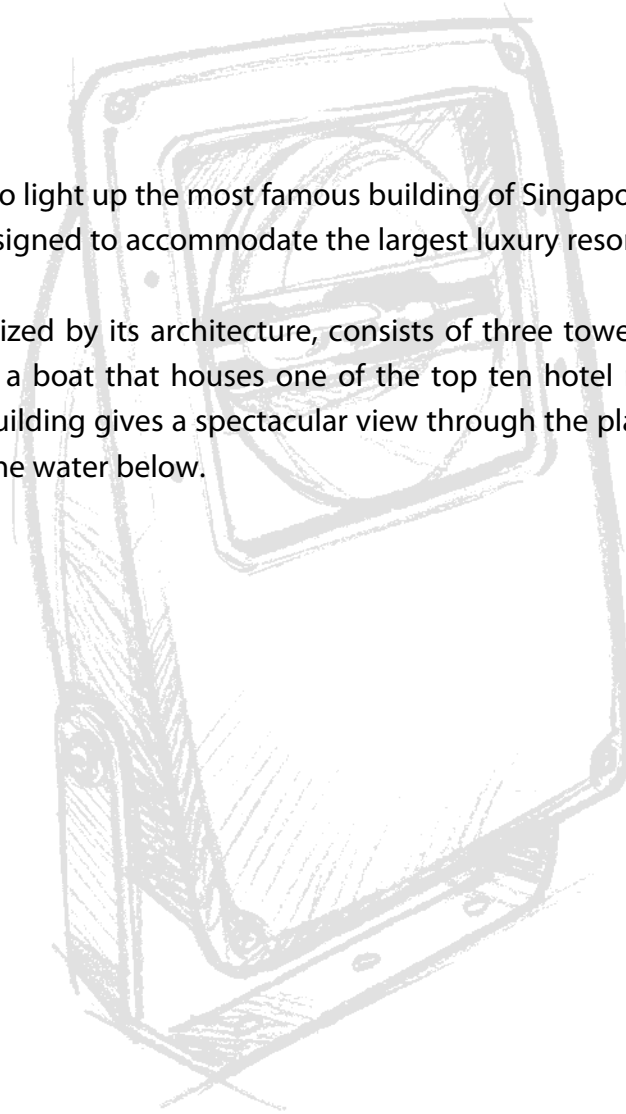


## MARINA BAY SANDS RESORT

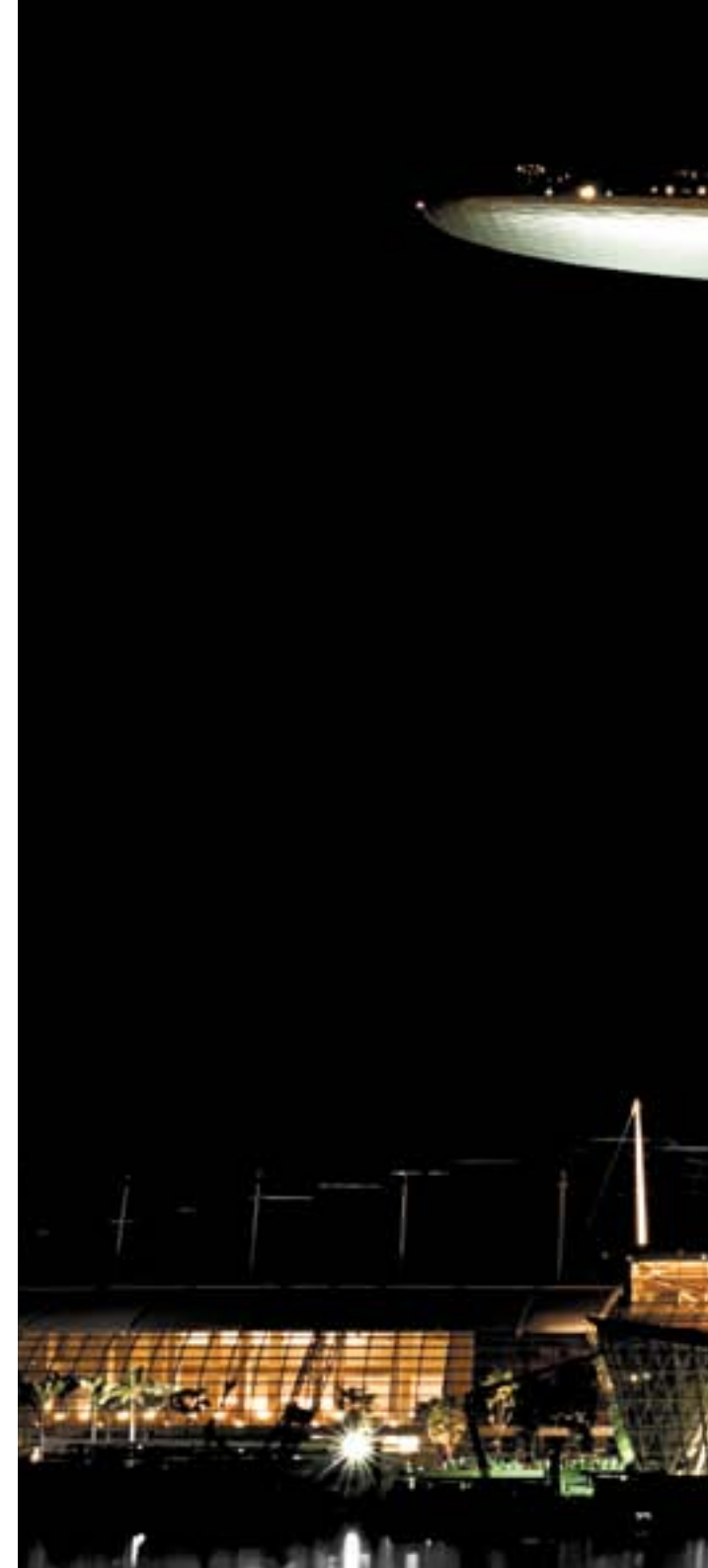
*Singapore*

Fael LUCE contributed to light up the most famous building of Singapore, the Marina Bay Sands Complex, designed to accommodate the largest luxury resort of the entire Asian continent.

The complex, characterized by its architecture, consists of three towers covered by a structure shaped like a boat that houses one of the top ten hotel rooftop pools. During the night, the building gives a spectacular view through the play of light and reflections created on the water below.



Floodlights type: MACH 2





An elitist view to enjoy the Formula 1 show

An international scenario,  
proscenium of the FIBA Olympic  
qualification playoff





## POLIEDRO DE CARACAS

Venezuela



For the main event of the International Basketball Federation (FIBA), the Poliedro de Caracas has been selected as the main venue to play the Olympic qualifying playoff. This complex has been just renovated, being now a scenario of international standard, able to welcome 13500 spectators.

For this project Fael LUCE provided LIGHTMASTER ONE floodlights, ensuring the achievements of amazing lighting values.



Homologation: FIBA LEVEL I  
Floodlights type: LIGHTMASTER ONE 2000W  
Area dimension: 34 mt x 20 mt  
Spectators: 13500

### KEY FIGURES

Horizontal Illuminance (Eh) 5104 Lux Uniformity U1: 0.77 Uniformity U2: 0.84	Vertical Illuminance (Ev) main TV Camera 3214 Lux Uniformity U1: 0.73 Uniformity U2: 0.83
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## NEW SENEGAL INTERNATIONAL AIRPORT

*Senegal*

The new international airport serving Dakar will open in the first quarter of 2014. The new airport will be named "Aéroport International Blaise Diagne" (AIBD), in the honor of Mr. Blaise Diagne, a Senegalese politician and the first African to serve in the French National Assembly, beginning in 1914. The airport is being built on a site of about 4500 hectares that dwarfs the existing "Léopold Sédar Senghor International Airport" (AILSS) at Yoff, close to the center of Dakar, nowadays inadequate to cover the traffic needs of this region.

Indeed the initial operating capacity will handle 3 million passengers a year from a single runway. A second development phase could ultimately provide capacity for 10 million passengers a year with development of a second runway.

Fael LUCE provided 529 LIGHTMASTER 1000, able to offer a precise lighting technology: the proportion of scattered light emitted in the environment is greatly reduced, avoiding in this way light pollution. The only defined surface is effectively illuminated, with a minimized influence on the environment. This floodlight is highly recommended specially for an upper spill light control in those areas, such as aircraft aprons, where the light pollution is an essential condition.

### KEY FIGURES

Recommendation: ICAO

Floodlights Type: LIGHTMASTER 1000 ASYMMETRIC

Horizontal Illuminance (Eh)	Vertical Illuminance (Ev)
> 40 Lux	> 40 Lux



A future-proof airport in terms of security  
and sustainability





Pavlo



2



W.G. BOBA CHAMP



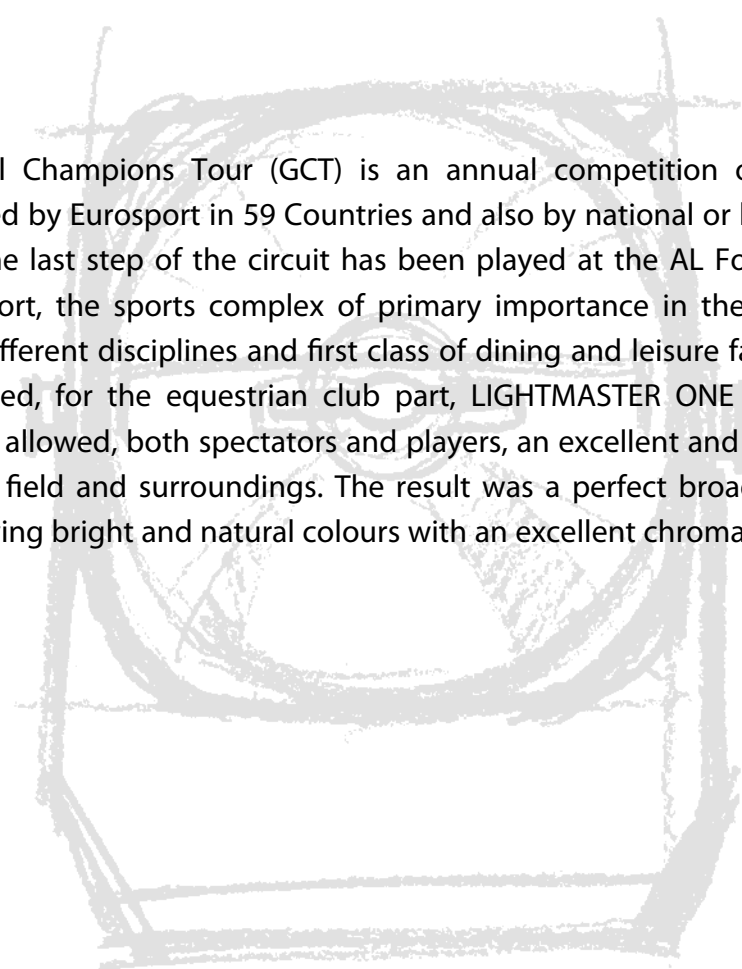


A new light illuminates  
the GTC's winner

**AL FORSAN  
INTERNATIONAL SPORTS RESORT**  
U.A.E.



The Global Champions Tour (GCT) is an annual competition of show jumping, broadcasted by Eurosport in 59 Countries and also by national or local TV such as Al Jazeera. The last step of the circuit has been played at the AL Forsan International Sports Resort, the sports complex of primary importance in the Middle East that includes different disciplines and first class of dining and leisure facilities. Fael LUCE has provided, for the equestrian club part, LIGHTMASTER ONE with six different optics that allowed, both spectators and players, an excellent and clear vision of the equestrian field and surroundings. The result was a perfect broadcast quality light level, showing bright and natural colours with an excellent chromatic balance.



**KEY FIGURES**

Floodlights type: **LIGHTMASTER ONE**  
Equestrian field dimension: **90 mt x 65 mt**

**Horizontal Illuminance (Eh)**  
2200 Lux  
Uniformity U1: 0.72  
Uniformity U2: 0.66

**Vertical Illuminance (Ev) main TV Camera**  
1500 Lux  
Uniformity U1: 0.52  
Uniformity U2: 0.75



## TRINITAPOLI INDUSTRIAL AREA

*Italy*

The new industrial area of Trinitapoli (Italy) looks toward the future. Not only because, in the development of this area, the intention of the local administration was to give the stimulus to local companies and to be the driving force for the development of the territory, but also for the lighting technology used in this area, entirely made with TREND WAY LED street lighting. This was an important choice for safety and visibility matters, energy efficiency and for the minimization of running costs. This project demonstrates how the right lighting, which balances performance, efficiency and comfort is able to transform an industrial area into a cradle for the future.



Floodlights type: TREND WAY LED

A row of large, white, cylindrical industrial storage tanks stretches into the distance under a cloudy sky at dusk. The tanks are illuminated by streetlights, and a dark fence is visible in the foreground. The overall scene is industrial and modern.

Lighting up the cradle for the future

The next World Cup's winner will come to light





## BORIS PAICHADZE STADIUM TBILISI

Georgia



The Dinamo Arena, formerly known as the Boris Paichadze National Stadium, is the largest stadium in Georgia, based in Tbilisi, and the home stadium of Dinamo Tbilisi, Georgia national rugby union team and Georgia national football team.

With the capacity of 74000 spectators, the stadium is the largest stadiums in Eastern Europe. The name of the stadium was given in honor of the famous football player Boris Paichadze.

The stadium has been selected as the proscenium to play the qualification for FIFA WORLD CUP 2014. The matches have been broadcasted in High Definition in several countries across the world. The project solution proposed by FAEL allowed the achievement of two objectives: the accomplishment of the lighting values required by FIFA recommendations and, through the use of a lower number of LIGHTMASTER ONE floodlights, the overall operating cost of the system decreased.



Recommendation: FIFA WORLD CUP 2014  
Floodlights type: LIGHTMASTER ONE



### KEY FIGURES

**Horizontal Illuminance (Eh)**  
Average value achieved 1658 Lux  
Specified value > 1500 Lux

**Horizontal Uniformity**  
U1 0.77 Specification 0.60  
U2 0.87 Specification 0.80

**Vertical Illuminance (Ev) main TV Camera**  
Average value achieved 1915 Lux  
Specified value > 1400 Lux

**Vertical Uniformity**  
U1 0.65 Specification 0.50  
U2 0.79 Specification 0.70

**CHERNOMOREC STADIUM**  
*Ukraine*



**HANDBALL IZBOR**  
*Oman*



**PRUSZKOW NATIONAL VELODROME**  
*Poland*



**KONIAMBO NICKEL PLANT**  
*New Caledonia  
Australia*



**KOLUMNA CASTLE**  
*Poland*



**MAYBANK TOWER**  
*Singapore*



**KUANTAN COURT**  
*Malaysia*



**SVETICKHOVELI MONASTERY**  
*Republic of Georgia*

**EURO BASKET 2013**  
*Slovenia*



**SHA LU OVERPASS**  
*Taiwan*



**RED BULL X-FIGHTERS**  
*Egypt*



**FIAT DEALER**  
*Bari - Italy*



**COMMUNICATION ROUTES**  
*Italy*



**RECIFE ROUTE**  
*Brasil*



**AUTOSTRADE PER L'ITALIA**  
*Italy*



**CENTRO DIREZIONALE COLLEONI**  
*Italy*

**I PINI HORSE TRACK**  
*Follonica - Italy*



**STADE LOUIS II DE MONACO SALLE OMNISPORTS**  
*France*



**GLOBAL CHAMPIONS TOUR**  
*Wien - Austria*



**GIULIO ONESTI OLYMPIC SWIMMING POOL**  
*Rome - Italy*



We are thankful to all of our partners for their contribution  
to the growth of the success of our company.

We are thankful to all those who will trust in us in the realization  
of their own dreams.





**faelLUCE**  
DOING IT BETTER

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