

**ATP**

**SUCCESS  
STORIES**

Corrosion-immune outdoor lighting  
with a 10-year warranty

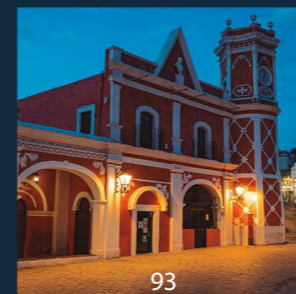
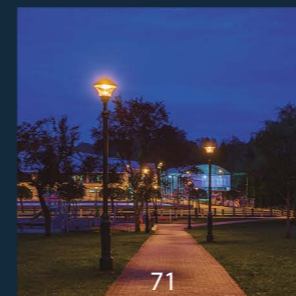
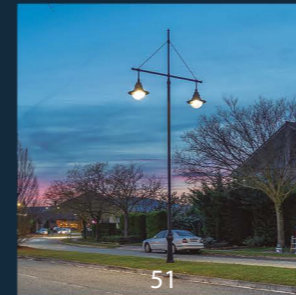
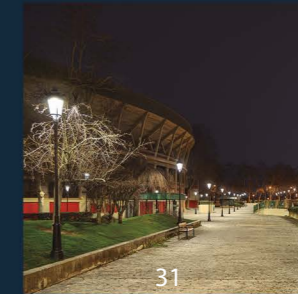
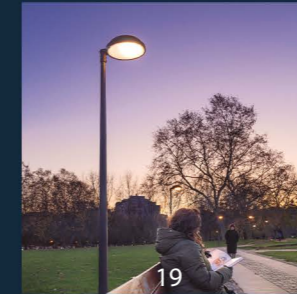
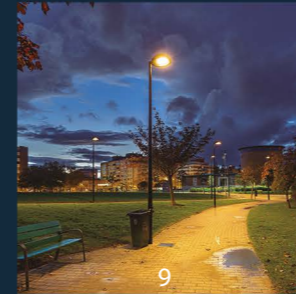


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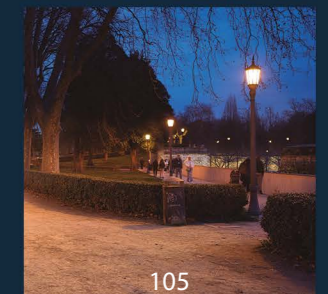
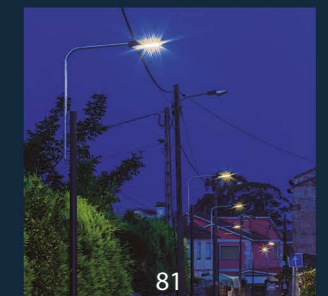
In this compilation we offer you a sample of 10 success stories of outdoor lighting projects in which ATP has provided tailor-made solutions designed to meet specific client needs and to obtain maximum lighting and energy efficiency.

This selection includes examples of lighting in historic city centres, parks, rural areas and roads, mainly with warm colour temperatures (2200 K and 3000 K), which are friendly with regards the environment and the ambience of each area.

Here you will find a sample of our most emblematic products, from the classic street lamps Siglo XLA to avant-garde luminaires such as the Aire®, as well as our KitLED® retrofitting solution.



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# TAILOR-MADE SOLUTIONS FOR EVERY ENVIRONMENT

ATP is characterised by offering tailor-made solutions for every environment. Our technological patents and our highly qualified team are at the service of lighting projects to achieve maximum sustainability, savings (energy and maintenance), safety and well-being.

Since our foundation in 1969, the company has been identifying and solving major outdoor lighting problems through continuous investment in R&D&I and in technology. This way of understanding the sector is in line with our vocation: to provide solutions which are the most advanced, most durable and which adapt most to environmental conditions, no matter how adverse they may be.

## 01 SUSTAINABILITY

We work with the long term in mind

## 02 SAVING

Maximum efficiency without maintenance

## 03 WELL-BEING

Improving comfort in the environment

## 04 SAFETY

Visual clarity without electrical risk in any environment



# INTEGRAL DESIGN OF THE PROJECT, FROM THE PRELIMINARY STUDY TO THE MANUFACTURING PROCESS

01

## STUDY

Study of the client's needs and project requirements.

02

## DESIGN

Design of tailor-made solutions:

- Type of luminaire
- Diffuser
- Customisable optics
- Power regulation
- Remote management
- Colour temperature

03

## MANUFACTURE

Manufacture and after-sales service with a 10-year warranty.



01

**YAMAGUCHI  
PARK**

**NAVARRA / SPAIN**

Yamaguchi park is a Japanese garden of 85,000 square metres located in Pamplona. This unique green area was designed in 1997 by Japanese landscapers as an allegory of the four seasons, and takes its name from the city of Yamaguchi, which is twinned with Pamplona.

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## INITIAL SITUATION

- ✗ Old lighting installation.
- ✗ High power metal halide lamps (100 W and 150 W).
- ✗ High annual consumption (72,059 kWh/year).
- ✗ High glare.
- ✗ High upper light output ratio (ULOR).
- ✗ Poor luminous efficiency.

## CLIENT OBJECTIVES

- ✓ Emit only the necessary light where it is needed.
- ✓ Control of light pollution in the vicinity of the Planetarium (ULOR 0% and warm colour temperature).
- ✓ To reduce glare and visual discomfort.
- ✓ Drastic reduction of energy consumption.
- ✓ Time profile to reduce power during off-peak hours.
- ✓ Maintain a high colour rendering index (CRI).

# TAILOR-MADE SOLUTION

## ULOR

Upper light output ratio

0 %

## CRI

Colour rendering index

> 70

## CCT

Responsible colour temperature

2200 K

## RADIANT FLUX

Spectral radiant flux below 440 nm wavelength

1.3 % 

## EVOLUCIÓN P





# AVERAGE UNIFORMITY ABOVE THE STANDARD

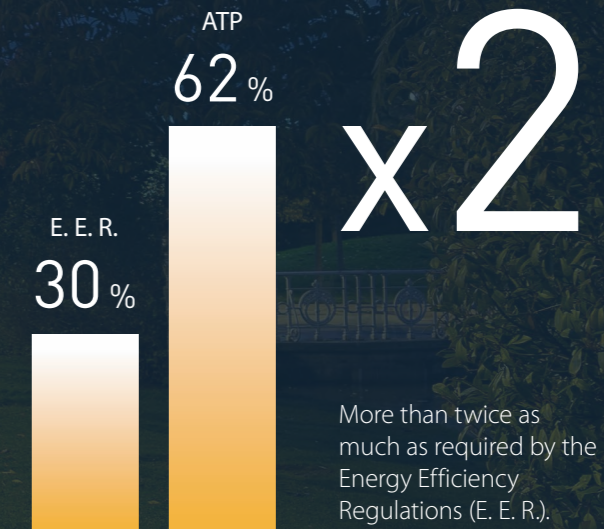
# 62%

## Efficiency gains

**25<sub>w</sub>** We replaced 100 W and 150 W luminaires with 25 W luminaires.

Based on the results of a detailed lighting study, we designed and manufactured optics adapted to the characteristics of the environment to achieve optimum lighting with the lowest consumption.

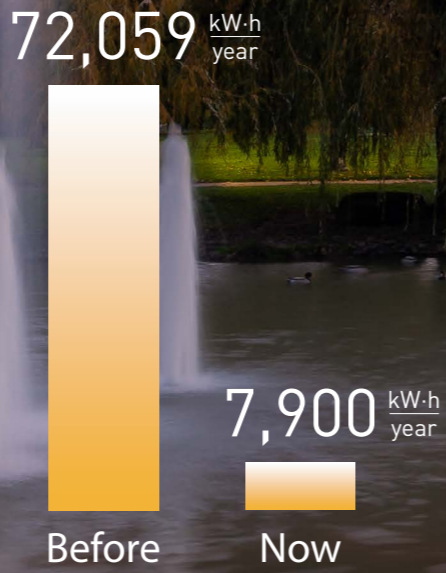
## Increased uniformity





# ENERGY SAVINGS

89%





02

**VUELTA  
DEL CASTILLO  
PARK**

**NAVARRA / SPAIN**

Vuelta del Castillo park is Pamplona's main and most emblematic green area. These gardens, located on the 'glacis' or hill of the citadel and covering an area of 280,000 square metres, are widely used as an area for walking and outdoor activities.

## INITIAL SITUATION

- ✗ Old lighting installation.
- ✗ Globes with 100 W HPSV lamps.
- ✗ High energy consumption.
- ✗ Upper light output ratio >50%.

## CLIENT OBJECTIVES

- ✓ Improve the quality of light through increased CRI and uniformity.
- ✓ Reduce light pollution and mitigate glare.
- ✓ Save on electricity consumption and maintenance.
- ✓ Integrate remote management system to control the time profile and adjust the power at events and celebrations.
- ✓ Special requirement: maintain the cosy atmosphere of the HPSV lamps, but without the excessive expense of this technology or the high ULOR of the globes.

# TAILOR-MADE SOLUTION

## ULOR

Upper light output ratio

1.1 %

## CRI

Colour rendering index

> 70

## CCT

Responsible colour temperature



## RADIANT FLUX

Spectral radiant flux below 440 nm wavelength



METRÓPOLI LLC





# ULOR REDUCTION



Before

**ULOR**

Upper Light Output Ratio

>50 %

Average  
uniformity

E. E. R.      Previous  
30%      32%



Energy Efficiency Regulations (E. E. R.).

-50%



**Comfort Diffuser®**

Our solution to mitigate glare

Now

**ULOR**

Upper Light Output Ratio

1.1 %

Average  
uniformity

ATP  
42%

E. E. R.  
30%



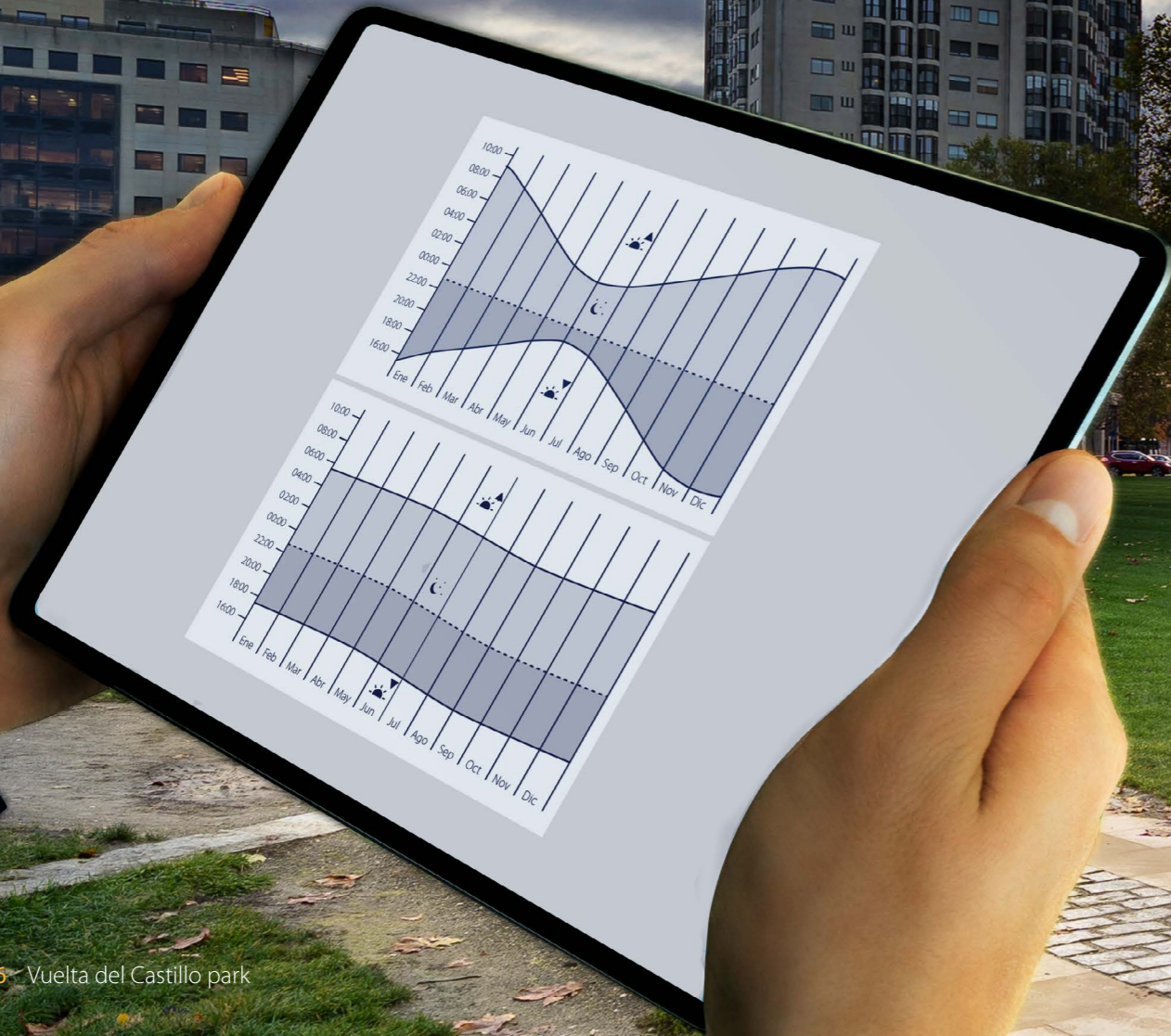
Energy Efficiency Regulations (E. E. R.).



# REMOTE MANAGEMENT PROGRAMME



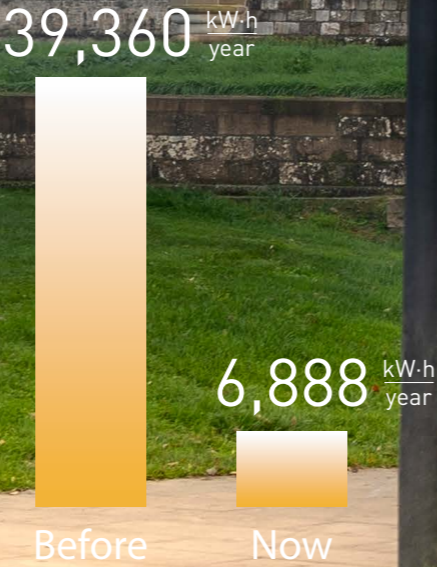
Allows the time profile to be controlled from the electrical panel to adjust the power for the various events and festivals held in the park throughout the year.





# ENERGY SAVINGS

# 82%





03

**MONUMENTAL  
BULLRING,  
PAMPLONÁ**

**NAVARRA / SPAIN**



The Monumental bullring in Pamplona is a first-class bullring with a capacity of 19,720 spectators. It is world famous for the running of the bulls in San Fermín, and is also used for concerts and shows throughout the year.

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## INITIAL SITUATION

- ✗ High-pressure sodium vapour luminaires (HPSV) with high levels of power consumption.
- ✗ Excessive power for the needs of the environment.
- ✗ Low colour rendering index (CRI).

## CLIENT OBJECTIVES

- ✓ Reduce energy consumption.
- ✓ Mitigate light pollution by minimizing unnecessary power usage while ensuring proper environmental illumination.
- ✓ Retain a warm colour temperature, but significantly improve the colour rendering index.

# TAILOR-MADE SOLUTION

## AVERAGE UNIFORMITY

> 50 %

## CRI

Colour rendering index

> 70

## CCT

Responsible colour temperature

3000 K

## RADIANT FLUX

Spectral radiant flux below 440 nm wavelength

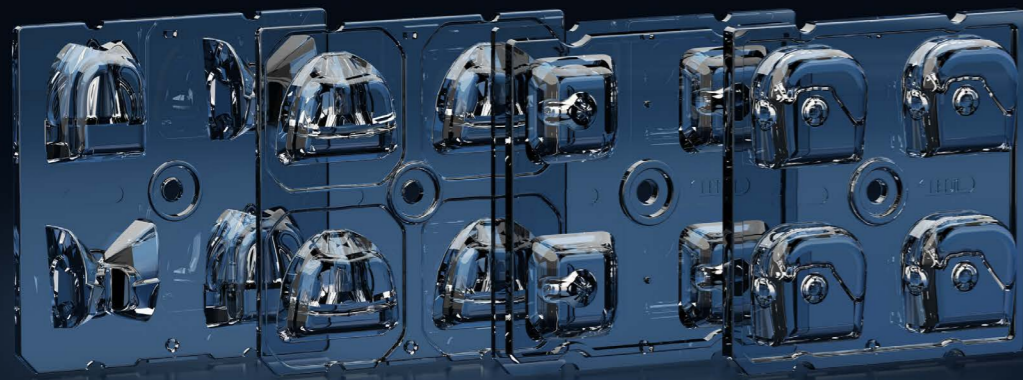
3.1 % 

SIGLO XLA



# CUSTOMIZABLE OPTICS

Based on the results of a detailed lighting study, we designed and manufactured optics adapted to the characteristics of the environment to achieve optimum illumination with the lowest consumption.





# ENERGY SAVINGS

65%

21,525 kW·h  
year



Before

7,476 kW·h  
year



Now



04

**SEGOVIA  
MAIN  
SQUARE**

**SEGOVIA / SPAIN**

Segovia main square is located in the old quarter of the city, and is famous for its monuments such as the apse of the cathedral, the Juan Bravo theatre and the town hall. The centre of the square is dominated by a bandstand for musical performances.

## INITIAL SITUATION

- ✗ Old lighting installation: 43 100 W induction lights suspended under the arcades and 45 HPSV 250 W lights in the central area.
- ✗ Heterogeneous colour temperatures.
- ✗ High upper light output ratio (ULOR).
- ✗ The installation generated far more light than was needed to adequately illuminate the environment.
- ✗ Energy consumption far superior to what LEDs can offer today.

## CLIENT OBJECTIVES

- ✓ Improve the energy efficiency of the entire installation.
- ✓ Reduce light pollution in the area.
- ✓ Enhance the monumental surroundings of the main square.
- ✓ Improve visual comfort by standardising CCT and increasing CRI.
- ✓ Install 3000K to comply with the general plan to use warm white light throughout the municipality.
- ✓ Integrate a point-to-point remote management system to optimise flows in each area according to use.

# TAILOR-MADE SOLUTION

## AVERAGE UNIFORMITY

55 %

## CRI

Colour rendering index

> 70

## CCT

Responsible colour temperature

3000 K

## RADIANT FLUX

Spectral radiant flux below 440 nm wavelength

3.1 % 

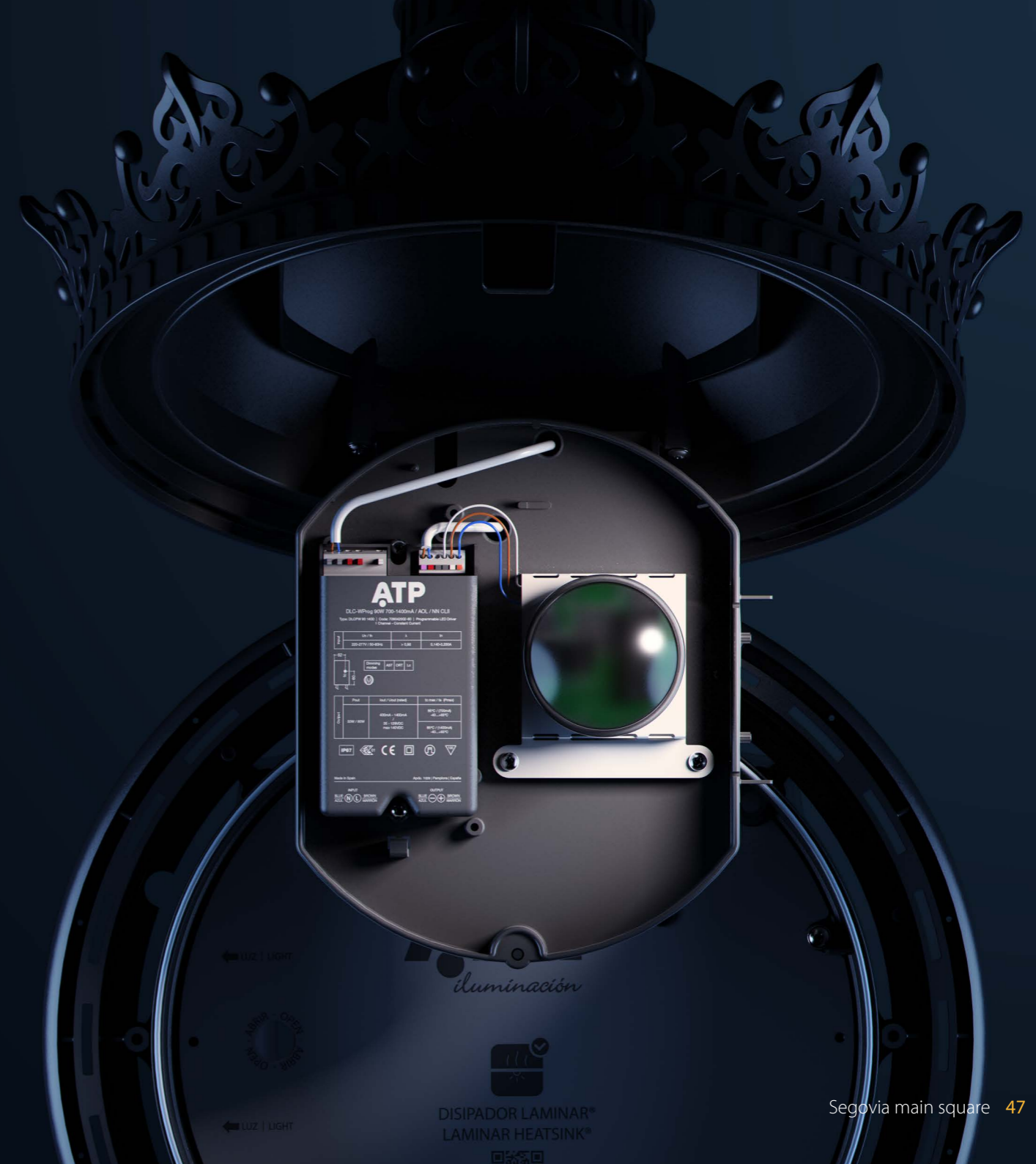
SIGLO XLA





# INVISIBLE REMOTE MANAGEMENT

Solution for lighting control, monitoring and management. The node is located inside the luminaire, which means they can retain their classic appearance.





# ENERGY SAVINGS

80%

63,755 kWh year



Before

12,751 kWh year



Now



05

VALLE  
DE  
EGÜÉS

NAVARRA / SPAIN



Valle de Egüés is a municipality belonging to the metropolitan area of Pamplona, with a territory of 53.57 square kilometres and around 22,000 inhabitants in total. Rural and modern urban areas coexist, each with very different lighting and aesthetic needs.

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## INITIAL SITUATION

- ✗ Heterogeneous lighting installation with discharge technologies. High annual consumption.
- ✗ More luminaires than necessary; overillumination.
- ✗ High upper light output ratio (ULOR).
- ✗ High energy consumption.
- ✗ Low uniformity, dark and poorly lit areas, especially in the more isolated areas of the Valley.

## CLIENT OBJECTIVES

- ✓ Achieve maximum savings in energy and maintenance costs.
- ✓ Reduce light pollution.
- ✓ Strengthen citizen security, particularly in rural and more isolated areas of the Valley.
- ✓ Implement a variable lighting system with presence sensors and which is adaptable to night time, and which has a centralised means of lighting management.
- ✓ Obtain optimal lighting for each of the different scenarios, which include urban areas, large avenues, crossings and rural areas.

# TAILOR-MADE SOLUTION

## AVERAGE UNIFORMITY

> 50 %

## CRI

Colour rendering index

> 70

## CCT

Responsible colour temperature

3000 K

## RADIANT FLUX

Spectral radiant flux below 440 nm wavelength

3.1 % 

AIRE® 3 SERIES  
ALAMEDA A  
CÓNICA TLA  
VILLA XLA





# INCREASED SECURITY

✓ Improved uniformity

✓ Removal of dark areas

✓ Improving the CRI

It allows to correctly distinguish the colours of clothes, cars and other elements of the urban landscape.

✓ Creation of safe walkways between isolated councils



# ENERGY SAVINGS

63%

2,408,000 kW·h  
year



Before

878,000 kW·h  
year



Now



06

**SORIA,  
PROVINCIAL  
CAPITAL**

**CASTILLA Y LEÓN / SPAIN**

There is an abundance of historical heritage packed into the centre of Soria, and the city is known for its castle, its Romanesque churches, such as Santo Domino and San Juan de la Rabanera, and its convents and monasteries, including San Juan de Duero.

## INITIAL SITUATION

- ✗ Old lighting installation.
- ✗ Heterogeneous mixture of discharge lamps (mercury vapour, high pressure sodium vapour, metal halide) of different models and shapes, with different light levels and colour temperatures.
- ✗ Lights deteriorated by the passage of time.
- ✗ High-power luminaires.

## CLIENT OBJECTIVES

- ✓ Unify classic luminaire models, technology, CCT and levels in general throughout the historic centre.
- ✓ Improve uniformity with customised optics for each area.
- ✓ Remote management system to adjust the levels of the different spaces to the specifications of the project.
- ✓ Improve energy efficiency and reduce maintenance costs.
- ✓ Class II luminaires, which do not require earthing, to avoid infrastructure investment.



# TAILOR-MADE SOLUTION

AVERAGE UNIFORMITY

56 %

CRI

Colour rendering index

> 70

CCT

Responsible colour temperature



2200 K

RADIANT FLUX

Spectral radiant flux below 440 nm wavelength



SIGLO XLA  
SIGLO XLS





# POINT-TO-POINT REMOTE MANAGEMENT

Solution for the control, monitoring and management of point to point lighting. The node is located inside the luminaire, which allows it to retain its classic appearance.

## ✓ Maintenance

An alert programme that avoids the need for periodic rounds, with automatic notification of incidents.

## ✓ Control

Point-to-point flux and power regulation via a user-friendly web application.

## ✓ Adaptability

Levels easily adjustable if there are changes in the lighting requirements of each area.

## ✓ Sustainability

Optimisation of public lighting, reduction of light pollution and energy savings.



# ENERGY SAVINGS

68%

238,440 kW·h year



Before

162,139 kW·h year



Now



07

THE TOWN  
OF  
NOREÑA

ASTURIAS / SPAIN



The town of Noreña is the municipal capital of the council of the same name, one of the most densely populated in Asturias. This town stands out for its heritage, which includes the Clock Tower, the Ecce Homo hermitage and the bandstand, all of which have different lighting needs.

---

## INITIAL SITUATION

- ✘ Installation consisting of a heterogeneous mixture of more than 1200 high pressure sodium vapour (HPSV) and metal halide (MH) lamps.
- ✘ High-power luminaires.
- ✘ Over-illuminated village: the installation generated much more light than necessary, with a consequent increase in upper light output ratio and light dispersion towards the sky.

## CLIENT OBJECTIVES

- ✓ Obtain lighting that is as rational and efficient as possible, that meets the needs of each area and that above all avoids overillumination at any point.
- ✓ Tailor-made lighting project, carried out in close collaboration with the engineering company in charge, to design and manufacture optimal lighting solutions for the different areas.
- ✓ Reduce capacities and fluxes to maximise energy savings.
- ✓ Install a fully watertight, corrosion-resistant product with a comprehensive warranty, given the region's oceanic climate.

# TAILOR-MADE SOLUTION

AVERAGE UNIFORMITY

80 %

CRI

Colour rendering index

> 70

CCT

Responsible colour temperature

2200 K

RADIANT FLUX

Spectral radiant flux below 440 nm wavelength

1.3 % 

VILLA XLA  
LIBRA A  
ENUR MICRO  
AIRE® 3 SERIE





# HIGH UNIFORMITY WITH CUSTOMISED SOLUTIONS

ATP carried out more than 400 lighting studies in collaboration with engineering, from which solutions were designed and manufactured enabling the achievement of uniformities well above the standard.

Before

Now

80%



# ENERGY SAVINGS

65%

738,000 kW-h  
year



Before

258,300 kW-h  
year



Now



08

**CAMIÑO  
REAL**

**GALICIA / SPAIN**



The Camiño Real connects the towns of Cangas and Moaña, in Pontevedra, over a distance of more than five kilometres. Through a comprehensive restoration project, the former heterogeneous network of urban roads has been converted into the longest pedestrian and cycle-friendly street in Galicia.

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## INITIAL SITUATION

- ✘ Heterogeneous network of urban roads, with a dispersed and uneven installation mixing high pressure sodium vapour (HPSV) and metal halide (MH) luminaires.
- ✘ High levels of power and consumption.
- ✘ Low uniformity, with numerous dark or insufficiently illuminated areas.

## CLIENT OBJECTIVES

- ✓ Unify luminaire models, lighting technology and colour temperature along the entire route.
- ✓ Improve the overall quality of light by homogenising the colour rendering index (CRI) and achieving optimum uniformity.
- ✓ Controlling light pollution by reducing the upper light output ratio (installed ULOR) and an appropriate choice of CCT.



# TAILOR-MADE SOLUTION

## AVERAGE UNIFORMITY

54 %

## CRI

Colour rendering index

> 70

## CCT

Responsible colour temperature

3000 K

## RADIANT FLUX

Spectral radiant flux below 440 nm wavelength

3.1 % 

## ENUR MICRO





# REDUCTION OF LIGHT POLLUTION

The combination of a warm colour temperature with the reduction of upper light output ratio (installed ULOR) has drastically reduced light pollution.





# IMMUNE TO CORROSION

Luminaires made of corrosion-resistant engineered polymers are optimal for coastal areas.





# ENERGY SAVINGS

70%

184,500 kWh year



55,350 kWh year

Before

Now



09

**THE MAGIC  
TOWN  
OF BERNAL**

**QUERÉTARO / MEXICO**



The town of Bernal, in Querétaro, was incorporated into Mexico's Pueblos Mágicos (Magic Towns) tourism programme in 2005 because of the high number of visitors who flock to the Peña, a rock formation approximately 300 metres high that is the third largest monolith in the world.

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## INITIAL SITUATION

- ✗ Discharge technology with cold colour temperature unsuitable for the village.
- ✗ Light pollution at a location that joined the Magic Towns programme in 2005.

## CLIENT OBJECTIVES

- ✓ As a Magic Town, the lighting must comply with the requirements of the Carta de Taxco (Mexican regulations governing proposals for night-time lighting of monuments and historic centres).
- ✓ The lighting must also comply with the environmental and heritage conservation criteria set by the National Institute of Anthropology and History of the state of Querétaro (INAH).
- ✓ Implement an ultra-warm colour temperature that respects the traditional essence of the Magic Town and at the same time offers a high colour rendering index (CRI greater than 70).



# TAILOR-MADE SOLUTION

## AVERAGE UNIFORMITY

50 %

## CRI

Colour rendering index

> 70

## CCT

Responsible colour temperature



2200 K

## RADIANT FLUX

Spectral radiant flux below 440 nm wavelength

1.3 %

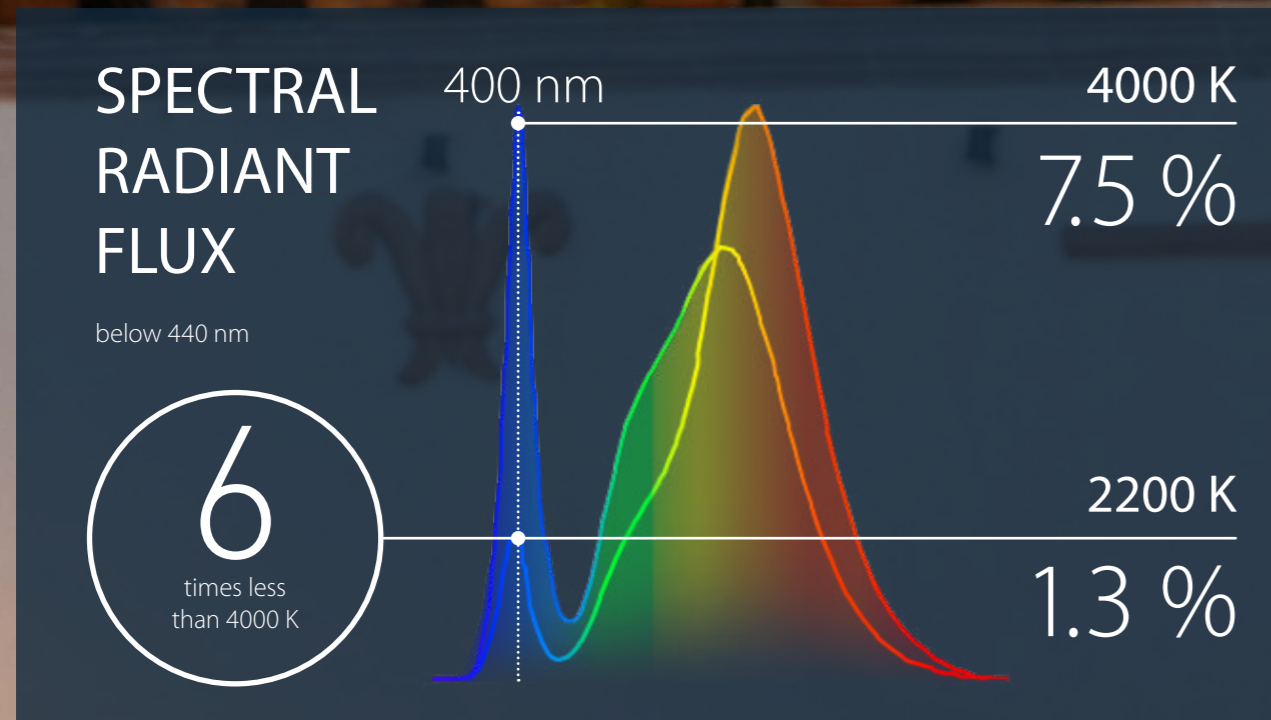
VILLA XLA





# LOW PERCENTAGE OF BLUES

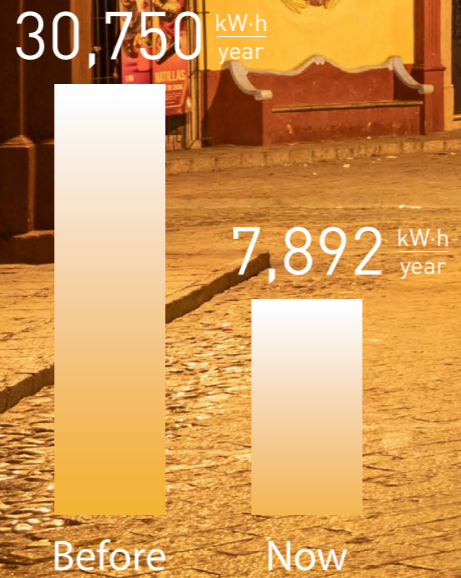
The blue spectral component (below 440 nm wavelength) generates the most light pollution and is the most disruptive to circadian rhythms.





# ENERGY SAVINGS

# 74%





10

**TACONERA  
GARDENS**

**NAVARRA / SPAIN**



The Taconera gardens make up the oldest park in Pamplona. It is a green area of 90,000 square metres around the ramparts, unique for its various architectural elements and for the diverse fauna that inhabits its moats, from fallow deer to pheasants.

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## INITIAL SITUATION

- ✗ Outdoor lighting installation consisting of eight-sided Munich lanterns, ornamental classics that form part of the park's traditional aesthetics and are an important element of its history, identity and attractiveness.
- ✗ HPSV technology: excessive power for the needs of the environment (100-150 W luminaires), high upper light output ratio (ULOR >50%) and low colour rendering index (CRI 20)
- ✗ Insufficient average uniformity (30 %).

## CLIENT OBJECTIVES

- ✓ Retain intact the original decorative lanterns, which are no longer in production, but upgrade their light source (HPSV) to LED technology without altering their enveloping glass casing in any way.
- ✓ Improve the overall quality of light through increased uniformity and the colour rendering index.
- ✓ Save on electricity consumption.
- ✓ Use an ultra-warm colour temperature to protect local wildlife.
- ✓ Compatibility of the electronics of the new LED units with the existing flux regulators in the installation's control panels.



# TAILOR-MADE SOLUTION

## AVERAGE UNIFORMITY

50 %

## CRI

Colour rendering index

> 70

## CCT

Responsible colour temperature



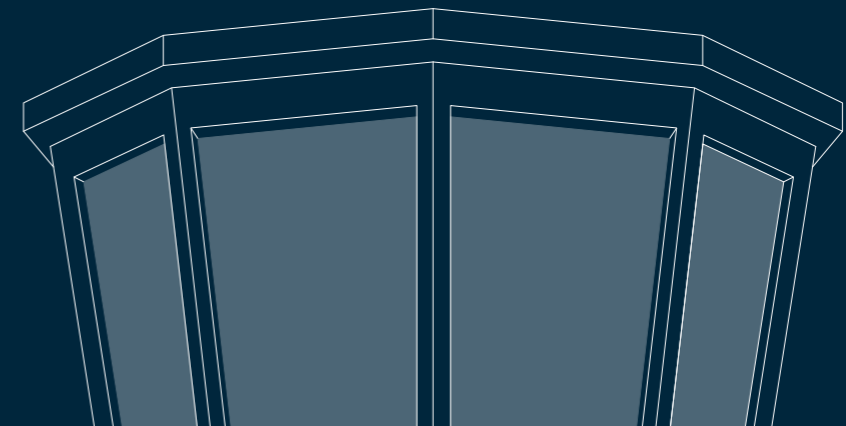
2200 K

## RADIANT FLUX

Spectral radiant flux below 440 nm wavelength



KitLED®  
M Model





# KitLED®

KitLED® has all the unique features of ATP:



✓ **Laminar Heatsink®**

Advanced thermal management to maximise service life.

✓ **Comfort Diffuser®**

The best lighting and visual result in any situation.

✓ **Class II+: Anti-electrocution**

Polymeric tray insulating the equipment from the metal parts.

✓ **IP66+: Integral sealing**

Total protection against dust and water throughout the entire enclosure.

✓ **Surge immunity**

Maximum electrical robustness without the need for earth connection.

✓ **10 year warranty**

The largest comprehensive coverage in the industry, without paying extra.



# ENERGY SAVINGS

68%

130,380  $\frac{\text{kW}\cdot\text{h}}{\text{year}}$



Before

41,873  $\frac{\text{kW}\cdot\text{h}}{\text{year}}$



Now





 Factory
  Delegations
  Exports

**ATP Factory**

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 Navarra · Spain  
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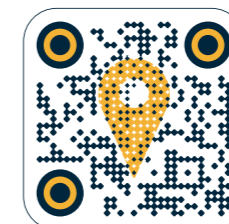
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