

THORN

LIGHTING

URBASENS

PLAY

SPORTS LIGHTING, CONNECTED

INTELLIGENT LIGHTING FOR RECREATIONAL SPORTS

Currently, 30 % of light output over Europe is lost to light pollution. This equates to € 3.3 billion in wasted energy costs and 21 million tonnes of CO₂ per year. This would take 875 million trees per year to offset it.

Additionally, the subject of health and well-being has become increasingly central to our life balance. As people become more and more active, we need to offer flexible lighting solutions for indoor and outdoor Multi-Use Games Areas (MUGA) applications.

Artificial light increases human perception of safety and further enables our ability to exercise into the evening. As beneficial as this is, nocturnal wildlife, local biodiversity and the night sky need to be cared for as well. This is why it's essential that we strike the right balance. Optimised, uniform light.



Recreational
Sport



Multi-Use
Games Area



WE C

SUSTAINABLE CONNECTIVITY

Lighting connectivity in outdoor sport environments does not have to be overly complex. Thanks to Zhaga connectivity, our solutions enable a full range of lighting control options, meaning we don't simply have to turn the lights on when it's dark, and off when it's light.

Of all the outdoor applications, getting the lighting balance right is usually most challenging in sports settings due to the high light levels required.

UrbaSens Play enables exceptional quality lighting for the many different sports that take place across indoor and outdoor MUGA spaces. This means that you can create the perfect lit effect for each sport as opposed to wasting energy on switching all light points on at 100 %.



CARE

SUSTAINABLE DEVELOPMENT GOALS

UNITED NATIONS SUSTAINABLE DEVELOPMENT ALIGNMENT



GOOD HEALTH & WELL-BEING

Our growing will to improve our health and well-being has resulted in enormous growth for the recreational sport sector and great illumination is an essential enabler for this. UrbaSens Play allows users to precisely control light levels in a way that balances our need for illumination, the environment's need for darkness and the planet's need for a lower carbon footprint. As we balance our needs with that of the planets, UrbaSens Play is the ideal solution.



CLIMATE ACTION

There is more to managing energy consumption than switching lighting off. With UrbaSens Play, balance is the priority. Through offering light only when and where it's needed you can potentially achieve up to 80 % energy reduction. For indoor MUGA areas, there are different lighting needs depending on the sport being illuminated. This offers great opportunity to ensure that the right light level is utilised at the exact right time, enabling advanced energy savings.



PARTNERSHIPS FOR THE GOALS

So often, it's the right partnerships that most effectively advance targeted sustainability aspirations. Our collaboration with DarkSky International (formerly known as the International Dark-Sky Association) has helped us innovate our lighting solutions through optical excellence. However, when paired with an intelligent system like UrbaSens Play, it means that the light cut off, light output and lighting schedule reflects both human and biodiversity needs.

URBASENS PLAY

ADVANCED CONNECTIVITY FOR SPORTS



MOBILE APP BASED CONTROL

A simple platform for general day to day control. The app enables simple switching of luminaire zones as well as easy schedule and output amendment. This also doubles as an installation and commissioning app for our team to support the smooth set up of the UrbaSens Play system.



BESPOKE SPORTS LIGHTING CONTROL

Not only can you select different light levels for different spaces in and around the facility, you can also adjust the lighting so it's optimised for the sport being played. For example, if gymnastics is taking up half of the hall, then only that section of the hall needs to be fully illuminated.



LUMINAIRE GROUPING

At any point in time, you are able to control any individual light point, however, it may be more useful to group the luminaires. So if you have seven tennis courts and three football pitches, there may be a range of different ways to group light points to ensure that your lighting levels are optimised.



MULTI-CHANNEL

At any point in time you can see the full view of luminaires across the UrbaSens Play system. This also means you can adjust multiple luminaires to reflect the requirements of the space. So if you suddenly needed additional illumination at the skate park, you can immediately bring all luminaires online to ensure the lighting needs are met.



WHERE CAN IT BE USED?

Introducing UrbaSens Play – a unique, bespoke control system, specifically designed for recreational sport such as tennis, football, athletics, skateboarding as well as indoor and outdoor MUGA pitches. Via Bluetooth technology you're able to implement a simple lighting schedule that's aligned to the exact time that you need the space to be illuminated. For example, if only one tennis court is being used, you can either just illuminate the one active space and switch all other luminaires off, or offer a very low level supporting light level around the main court with full output.

OUTDOOR SPORTS

UrbaSens Play enables you to best manage the energy consumption of your lighting network across various sports facilities. The system enables people to keep fit in adequately illuminated spaces whilst balancing our need to protect the night sky, and nocturnal biodiversity's need for darker spaces.

DARKSKY FOCUS

Of course the system offers a great opportunity to improve your energy efficiency potential through intelligent and adjustable schedules. This mindful approach to managing light levels has a dramatically positive effect on nocturnal biodiversity and protecting the night sky.

INDOOR SPORTS

In sports halls, it's common for the light points to be either on at full output, or off entirely. With UrbaSens Play, you can zone the luminaires so that across all MUGA environments you can set up varying light layers so that if only a small part of the hall is being used, you still have the potential to implement significant energy savings.

LIGHTING CONTROL FOR SPORTS

An aerial, monochromatic night-time rendering of a sports complex. The scene features a large athletics track with a running lane and a central field, a skate park with ramps and rails, and a modern building with a distinctive slatted facade. The area is populated with numerous trees and streetlights, some of which are illuminated, casting a glow on the surrounding surfaces.

ATHLETICS TRACK

Through advanced mobile app control, UrbaSens Play optimises lighting, ensuring energy-efficient illumination for training or events, reducing costs, and enhancing sustainability.

SKATE PARK

UrbaSens Play enables presence detection that allows you to create a safe and vibrant atmosphere, conserving energy, and reducing operational expenses.



INDOOR MUGA

Dynamic control reduces energy consumption, offering adaptable lighting for various sports and activities, promoting sustainability.

OUTDOOR MUGA

Smart lighting management conserves energy, fostering a versatile space for diverse recreational activities, contributing to environmental preservation.

OUTDOOR TRAINING AREAS

As different areas across a professional training facility are utilised, UrbaSens Play enables efficient illumination tailored to usage, thus supporting elite training whilst being mindful of dark sky consideration and saving costs.

RECREATIONAL SPORT

BESPOKE LIGHTING CONTROL



MULTISPORT FOCUS

In areas such as MUGA pitches the flexibility and unique lighting needs for the sports will be bespoke to the activity being undertaken in that space. So the lit effect for badminton will be different when compared to basketball.



PROFESSIONAL SPORTS TRAINING

In areas such as professional training spaces, again, the bespoke commissioning service is the enabling factor that ensures the right lighting levels are utilised for the varying training activities.



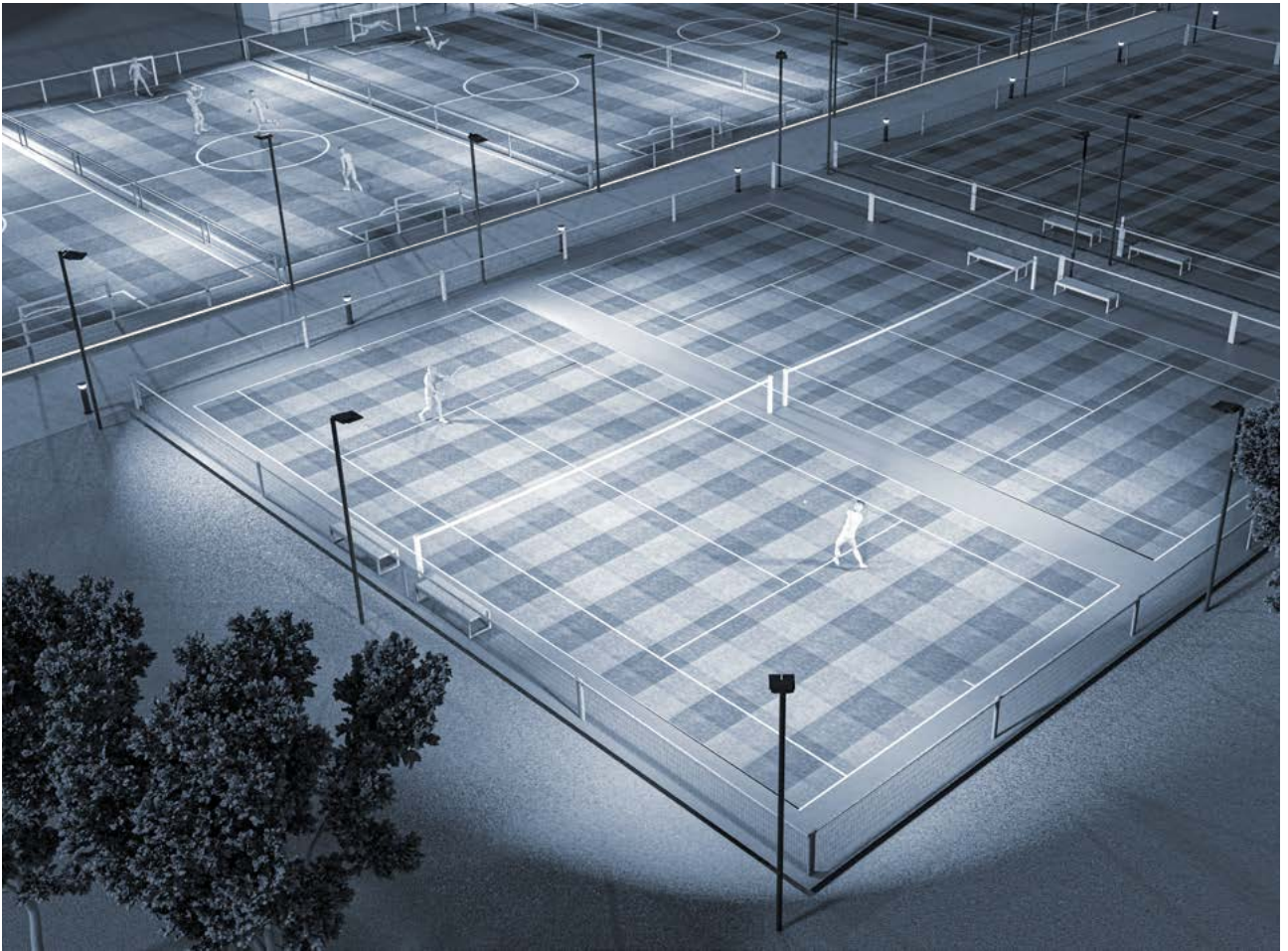
DARKSKY CONSIDERATIONS

For many, the optimal time to focus on our health and well-being is in the evening. This means nighttime illumination is required, but usually, we don't need all light points to be delivering full output at all times. By lowering the group luminaires' total output when the space isn't booked and occupied, we avoid unnecessary light spill whilst saving energy and protecting the local biodiversity.



LIGHT WHERE AND WHEN YOU NEED IT

With the Bluetooth app, you're able to switch on the exact luminaire or luminaire group that you need as and when required. If only one tennis court is being used or only a quarter of the indoor sports hall, then you can ensure that only the required sections of the space are perfectly illuminated.



TECHNICAL CONSIDERATIONS

01 NODES

Maximum number of wireless nodes per network
250 wireless nodes

02 NETWORKS

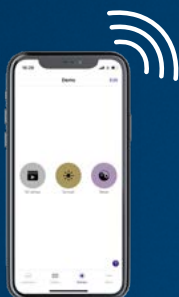
Several networks in one building.
Parallel operation possible

03 SCENES

Maximum number of scenes
No limit

04 COVERAGE

Up to 100 m with a clear,
unobstructed line of sight



4REMOTE BLUETOOTH APP

The 4Remote Bluetooth app is free to download via Apple iOS and Google Play app store for operation and commissioning of the UrbaSens Play system.



ALTIS FLOODLIGHT LUMINAIRE

Sports floodlight with exceptional optical performance with integrated wireless module to enable UrbaSens Play control.



URBASENS PLAY RETROFIT BOX

If your lighting is working for you already and has a DALI driver, then you can install this box and immediately connect your light points to UrbaSens Play and benefit from all of the advanced controls to save additional energy.



Download the App



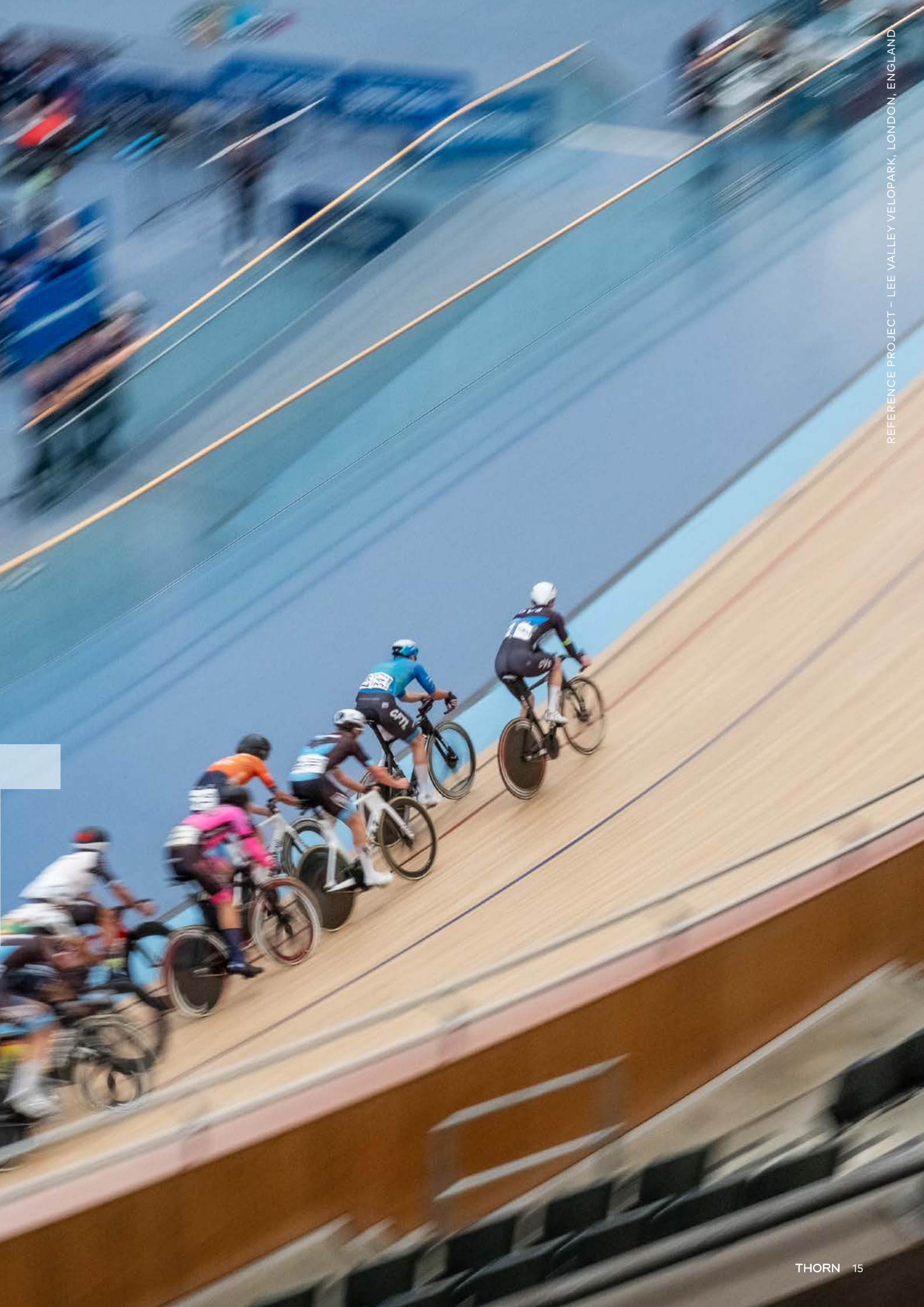
REFERENCE PROJECT – TASTA SKATEPARK, STAVANGER, NORWAY



REFERENCE PROJECT – BVB TRAINING GROUND, DORTMUND, GERMANY

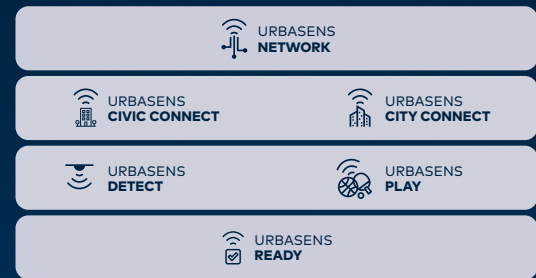


WE
MAKE
LIGHT
WORK



DISCOVER

URBASENS PLAY



AS TECHNOLOGY INNOVATORS, THORN LIGHTING HAS A VARIETY OF APPLICATION SPECIFIC CONNECTIVITY SOLUTIONS.

Uniform standards such as Zhaga enables interoperability and upgradability for light points over time. UrbaSens Play has been designed to maximise the opportunity to responsibly and dynamically control the lit environment.

		READY	DETECT	URBASENS PLAY	CIVIC CONNECT	CITY CONNECT
SWITCHING	Day-Night cycle	■	■	■*	■	■
	Ambient light	—	—	—	■	■
SCHEDULING	Real time	—	—	—	■	■
	Weekly calendar	—	—	—	■	■
MOTION	Standalone	—	■	—	■	■
	Group	—	—	—	—	■
ADDRESSING	NightTune	■	—	—	■	—
	Variable Light Distribution	—	—	—	—	—
ANALYTICS	Fault reporting	—	—	—	■	■
	Energy monitoring	—	—	—	■	■
COMMISSIONING	On-site commissioning	—	—	■	■	■
	Remote commissioning	—	—	—	■	■
	GPS	—	—	—	■	—
PLAY SWITCHING	Scene recall via app	—	—	■	—	—
	Scene recall via panel	—	—	■	—	—

*=optional with additional hardware

PRODUCT COMPATIBILITY

SPORTS AND AREA LUMINAIRES



Altis – Dali versions



Areaflood Pro – Zhaga Up,
Zhaga Up & Down or Zhaga Down versions



Champion – Dali versions

SPORTS ACCESSORIES



ZG Retrofit Box M (Mast)



ZG Retrofit Box W (Wall)

HOW TO SPECIFY



RF-Controller
ZG bDW BC Dim

Radio Frequency Luminaire
Controller without GPS for
Zhaga Up socket

Art No - 96636993

THE BENEFITS

OF WORKING WITH THORN

01

OVER 95 YEARS' EXPERIENCE

Yes, we really have passed the 95-year mark! Thorn has had nearly a century to develop its unique knowledge and expertise. And the best part is that we can build on this knowhow to make sure that we are always ahead of the game with the latest technology, the most reliable services and a price that works for everyone.



ELECTROMAGNETIC COMPATIBILITY (EMC) TESTING LABORATORY

02

CONSTANT RESEARCH AND INNOVATION

Thorn has been at the forefront of lighting technology for decades, and continues to push the boundaries. Our investment in R&D and innovation aims to bring customers the very best performance, thanks to the latest advanced engineering in light and electronics, with in-house development.

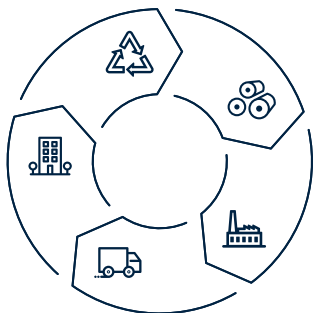
03

EXTENSIVE TESTING AND CERTIFICATION

Thorn's products undergo demanding tests for compliance, safety and performance. With Thorn, you can be sure that your lighting product does what it says it will do, meets all relevant standards and regulations, and comes with a guarantee of quality and safety.

04

ENVIRONMENTAL PRODUCT DECLARATION (EPD)



At Thorn we provide EPDs as a standard service. The EPD for each specific product details its impact on the environment throughout its lifecycle. The EPDs are based on EN ISO 14025 and EN 15804. The information given by an EPD is relevant not only for environmental certifications such as LEED, BREEAM or ÖGNI. EPDs form the data basis for an environmental building assessment.

05

BEST-IN-CLASS OPTICS

Thorn's product range benefits from our class-leading optical systems. They offer several precision light distributions to fulfil various requirements, with excellent uniformity and glare control.



06

QUALITY FROM THORN'S SPENNYMOOR FACTORY

Thorn's products go through intensive quality manufacturing, assuring the best processes to develop better products all the way. In addition, we are one of the first companies in the UK to be certified to ISO 14001 – the standard for environmental management. In addition, we have successfully been recommended for certification to ISO 50001:2018 for energy management. Our factory at Spennymoor in the UK has achieved a reduction of approximately 25 % in significant energy uses and 14 % in electricity use compared to the previous year.

07

FIVE YEAR GUARANTEE

All Thorn products carry a five year guarantee.



**5 YEAR
GUARANTEE**

08

ZUMTOBEL GROUP MEMBER

The Zumtobel Group is an international lighting group and a leading supplier of innovative lighting solutions, lighting components and associated services. With its core brands, Zumtobel, Thorn and Tridonic, the Group offers its customers around the world a comprehensive portfolio of products and services.

GET IN TOUCH

www.thornlighting.com/contact



**5 YEAR
GUARANTEE**

As a globally leading luminaire manufacturer, Thorn Lighting provides a five-year warranty for its complete product range within all European Countries.
thornlighting.com/guarantee

Thorn Lighting is constantly developing and improving its products. All descriptions, illustrations, drawings and specifications in this publication present only general particulars and shall not form part of any contract. The right is reserved to change specifications without prior notification or public announcement. All goods supplied by the company are supplied subject to the company's General Conditions of Sale, a copy of which is available on request. All measurements are in millimetres and weights in kilograms unless otherwise stated.
02/2024 (INT)

**WE
MAKE
LIGHT
WORK**