

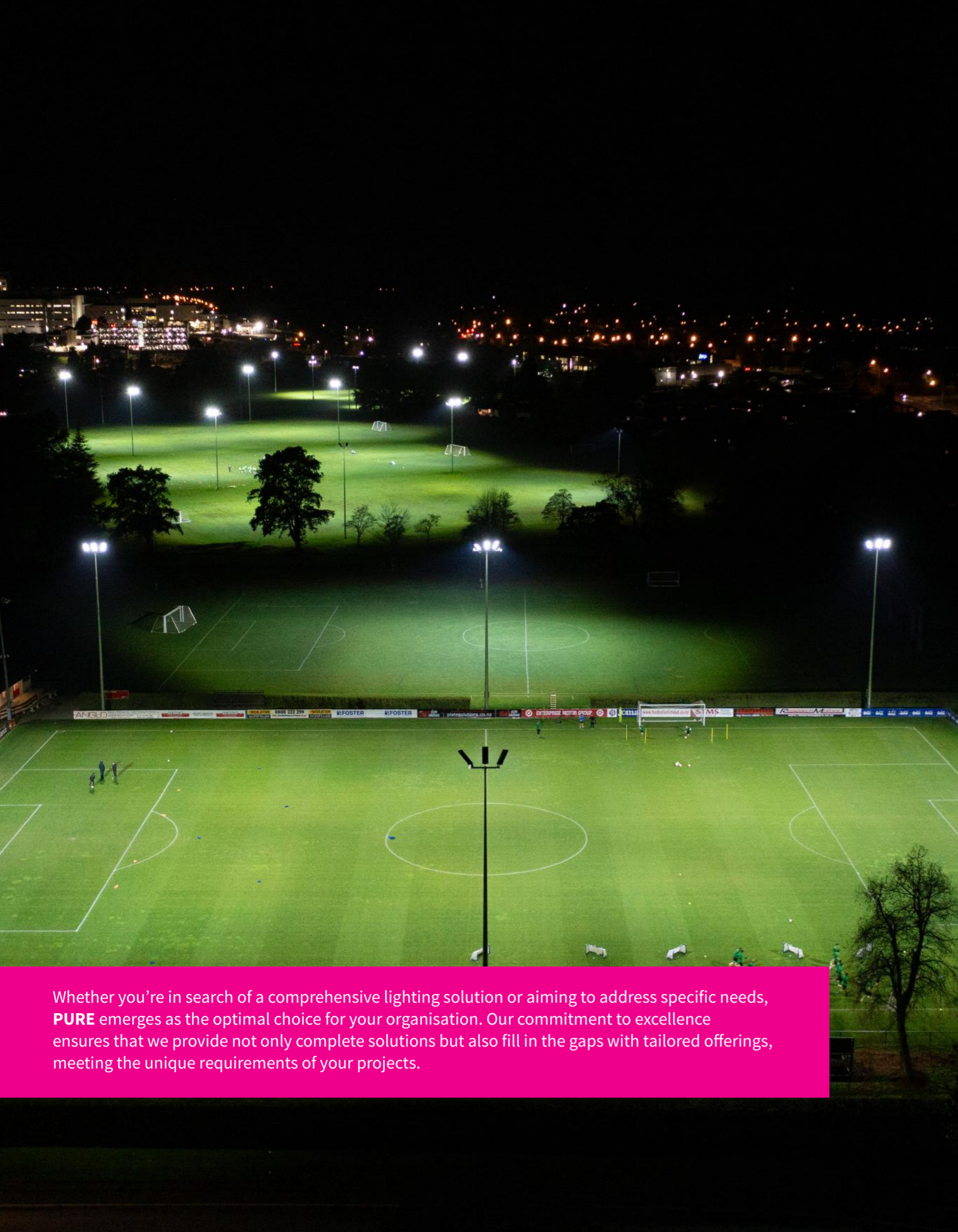


IGNITE THE SPIRIT OF VICTORY
Illuminate Your Sports Facility with PURE



PURE

INNOVATION FOR LIFE



Whether you're in search of a comprehensive lighting solution or aiming to address specific needs, **PURE** emerges as the optimal choice for your organisation. Our commitment to excellence ensures that we provide not only complete solutions but also fill in the gaps with tailored offerings, meeting the unique requirements of your projects.

PURE
INNOVATION FOR LIFE



EXCELLENCE IN SPORTS LIGHTING

As the leading professionals in sports lighting, our mission at PURE is to deliver comprehensive lighting packages tailored to the distinctive needs of every sports facility. We specialise in creating bespoke lighting designs that enhance the overall experience for both athletes and spectators.

Embedded in our approach is a deep understanding of the lighting requirements for each sport and level of play. We meticulously analyze and incorporate the specifications of various sports, ensuring that our lighting solutions are not only technically superior but also enhance the specific visual demands of each game.

Beyond our commitment to unmatched lighting solutions, we take pride in providing an end-to-end package covering every stage from concept to handover—a genuine turn-key solution. From the initial design phase to the final installation, PURE stands as your trusted partner in achieving the highest standards in sports lighting.

PURE: Where innovation seamlessly meets efficiency to brilliantly illuminate your sports facility.

SUPPORT FOR LOCAL COMMUNITIES

Pure has consistently shown support for a diverse array of organisations that focus on offering recreational opportunities. We take immense pride in providing our assistance to contribute towards fostering a safer and more enjoyable playing experience.

We prioritise using local sub-contractors and sourcing supplies from within the community as part of our turnkey solution approach.

This approach has several potential benefits for the community:

- 1 Economic Impact:**
By engaging local sub-contractors and suppliers, we contribute to the local economy by creating job opportunities and supporting small businesses. This can lead to increased economic development and prosperity within the community.
- 2 Community Integration:**
Working with local businesses fosters a sense of community and helps build strong relationships. This integration can lead to better collaboration, understanding of local regulations, and a smoother overall project execution.
- 3 Reduced Environmental Impact:**
Local sourcing can also contribute to environmental sustainability by reducing the need for long-distance transportation of materials and resources. This helps minimise the carbon footprint associated with our projects.
- 4 Cultural Understanding:**
Local subcontractors are likely to have a better understanding of the local culture, which can be valuable in navigating social dynamics and customs. This can contribute to smoother project implementation and community acceptance.

- 5 Compliance with Regulations:**
Utilising local suppliers and subcontractors help us comply with any local regulations or preferences that prioritise local businesses in public projects.
- 6 Flexibility and Responsiveness:**
Local partners are often more accessible and can respond quickly to project needs. This can be crucial in situations where rapid adjustments or problem-solving are required.

Our enthusiasm for sports lighting stems from its positive impact on the community!



We are devoted to crafting and delivering state-of-the-art, efficient, and innovative LED sports lighting solutions. Our products, manufactured to the highest quality standards, ensure enduring and top-notch sports lighting experiences. Specifically engineered for the diverse and challenging needs of the sporting realm, our technology addresses crucial aspects such as reducing energy consumption and minimising environmental impact. Furthermore, our solutions excel in simultaneously cutting energy costs while elevating the overall quality of light.

SO WHY LEDS

LED floodlights leverage solid-state lighting technology, which efficiently transforms electricity into light, surpassing the efficiency of traditional lighting technologies.

LEDs contribute to minimising environmental impact by reducing the use of gases, such as mercury, commonly found in traditional lighting technologies. This reduction in hazardous materials aligns with environmentally friendly practices and promotes a safer and more sustainable lighting solution.

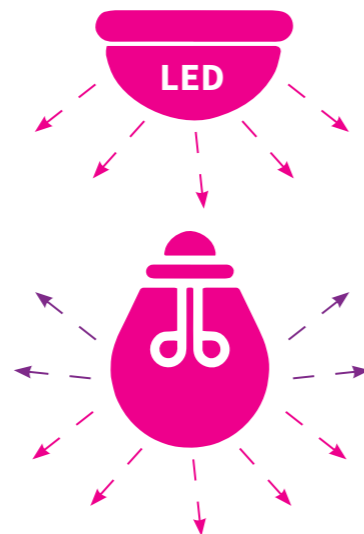
LEDs contribute to a reduced carbon footprint by using less energy compared to traditional lighting sources. This energy efficiency is a key environmental benefit, as it helps decrease overall energy consumption and lowers greenhouse gas emissions associated with electricity generation.

One of the major advantages of LEDs is their directional light emission, which allows for more efficient control and minimises wasted light. Traditional lighting sources, such as incandescent bulbs, emit light in all directions, leading to light scattering and loss. LEDs, on the other hand, can be designed to emit light in specific directions, reducing light spillage and enabling more precise control over the illuminated area. This directional characteristic contributes to increased energy efficiency and effective lighting solutions in various applications.

Switch on an LED light, it reaches full brightness immediately, providing instant illumination without the delay or warm-up time.

LED lights can last tens of thousands of hours, far outperforming incandescent bulbs and many other types of lighting technologies. This extended lifespan not only reduces the frequency of replacements but also contributes to lower maintenance costs and less environmental impact, making LEDs a more sustainable and cost-effective lighting choice in the long run.

The capability to achieve precise control over colour and intensity is a key feature that enhances the versatility of LEDs in meeting specific lighting requirements. This level of control allows for customisation and adaptation of lighting to suit various settings, moods, or functional needs.



The lighting of sports fields represents a significant portion of energy consumption and a crucial expense for numerous sports clubs. In contrast to traditional lighting, modern LED lighting can result in substantial energy savings. Beyond the notable energy efficiency, LED sports lighting brings forth a range of additional advantages, making it an attractive option for sports facilities aiming for both cost-effectiveness and sustainable illumination solutions.



In contrast to traditional lighting, which often casts yellow and uneven illumination, LED lighting excels in projecting a uniform, bright white light across the entire field. This light closely mirrors natural daylight, making it easier to perceive colours and movements. This enhancement, in turn, contributes significantly to an elevated game-play experience.

PURE SPORTS LIGHTS

Tailored for Different Sports:

Pure's sport lights are specially designed for a diverse range of sports, ensuring optimal visibility and performance. Whether it's tennis, hockey, swimming, badminton, basketball, football, or any other sport, our lights are crafted to meet the unique lighting requirements of each.

Enhanced Visibility and Safety:

Pure's powerful LED sport lights significantly increase visibility for players, reducing the risk of accidents. This not only enhances the safety of participants but also ensures that spectators can clearly follow the progress of sporting events, leading to a more enjoyable experience.

High CRI and TLCI for Quality Filming:

Understanding the importance of accurate colour rendition in sports telecasts, our LED sport lights boast options for high Colour Rendering Index (CRI) and Television Lighting Consistency Index (TLCI). This ensures more precise colour representation, making them ideal for HD filming.



Durable and Long-Lasting:

Our products undergo rigorous testing, ensuring durability and longevity. Whether used for indoor or outdoor sporting events, Pure's LED sport lights are designed to withstand the rigours of professional use, providing reliable performance over the long term.

Energy Efficiency with Smart Controls:

To contribute to energy conservation, our LED sport lights come with smart controls, including options like 0-10V, DALI 2, and DMX control. These controls offer flexibility in managing lighting levels based on specific needs, helping to optimise energy usage.

Environmentally Responsible Design:

Recognising the impact of excessive light on the environment and wildlife, our LED sport lights are thoughtfully designed to minimise light pollution. The directional lighting ensures that light is directed only where needed, reducing light spill and glare.

At PURE, our commitment to sustainability goes hand in hand with our dedication to providing top-notch LED lighting solutions for sports events.

By choosing PURE for your sport lighting needs, you not only gain access to high-quality products but also contribute to responsible and environmentally conscious illumination practices.

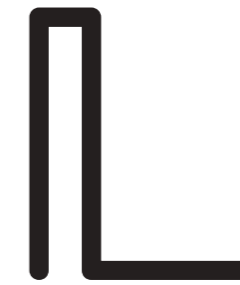


CRI >90 & flicker-free drivers provide optimal lighting for television broadcast.



LEGACY LIGHTING

We are proud to partner with Legacy Lighting, Australia's number one sports lighting manufacturer. With over a decade of experience, Legacy Lighting is renowned for its high-quality, Australian-made products designed to withstand the local climate. Specialising in the design and manufacture of lighting applications, their Invictus Series is tailor-made for the sports lighting market, delivering lightweight and high-performance solutions. By leveraging the latest LED technology, Legacy Lighting ensures energy efficiency and superior light control, meeting Australian Lighting Standards while accommodating individual project needs.



LEGACY
LIGHTING


THE INVICTUS SERIES LED STADIUM LIGHTING

With a striking, low-profile design and advanced in-built thermal management, the Legacy Invictus floodlight is a highly-reliable fitting that requires low maintenance. Producing a vivid white-light that renders colours as they are meant to be seen, this revolutionary fitting has helped redefine high-output illumination as we know it, helping you Define the Moment.



SPORTS LIGHTING UPGRADE PROCESS



 Our process offers a seamless turn-key solution, covering everything from planning and installation to the final handover—all from a single source. This ensures a comprehensive and hassle-free experience for our clients throughout every stage of the project.

EFFECTIVE LIGHTING DESIGNS FROM AN ACCOMPLISHED DESIGNER

In our design process, we consider various factors, and we engage a lighting designer with expertise in sports lighting. Our designer is well-acquainted with council regulations and New Zealand and Australia standards, bringing a wealth of experience to the project.

Horizontal Illuminance:

Horizontal illuminance pertains to the illuminance on a horizontal plane at ground level. Its primary purpose is to establish a stable visual backdrop that aids in discerning players and objects.

Vertical Illuminance:

Emphasising vertical illuminance is crucial when illuminating players, as it directly influences how well they are perceived.

Uniformity:

Ensuring uniformity is essential to prevent adaptation issues for both players and spectators. Inadequate uniformity may result in challenges seeing certain objects or player details from specific positions.

Glare Restriction:

Glare, a subjective factor, is addressed by the CIE through a practical evaluation system developed from extensive field research. This system is applicable in outdoor sports lighting scenarios.

Controlling Spill Light:

Stray light from outdoor lighting installations can disrupt individuals in the vicinity, such as drivers on nearby roads. Local authorities or municipalities often maintain their own guidelines for controlling spill light.

Colour Properties:

The colour properties of luminaires encompass two significant aspects: the colour appearance of the light and the colour rendering properties. Both aspects contribute to the overall visual experience provided by the lighting.

LIGHT POLES

Pure is at the forefront of innovative light pole solutions, providing a versatile range designed for various applications. Whether it's street lighting, flood lighting, car park lighting, or sports lighting, our poles are tailored to meet the specific requirements of each application. With a commitment to cutting-edge design and functionality, Pure stands as a leader in delivering high-quality and purpose-driven solutions for modern lighting needs.

There are a number of key factors when considering poles for any project:

Safety and Stability:

Structural engineers ensure that light poles are designed to withstand various environmental conditions, including wind loads, seismic activity, and other potential stress factors. This is critical for the safety of both the infrastructure and the people in the surrounding area.

Compliance with Regulations:

Light pole designs adhere to local and international building codes and standards. Compliance with regulations is essential for obtaining necessary permits and ensuring that the infrastructure meets safety and performance requirements.

Load-Bearing Capacity:

Light poles support not only the weight of the fixtures but also additional loads such as banners, surveillance cameras, or other accessories. Structural engineers calculate the load-bearing capacity of light poles to ensure they can safely accommodate these additional elements without compromising stability.

Durability and Longevity:

Materials are corrosion resistant, minimising maintenance requirements and maximising the lifespan of the infrastructure.

Aesthetic Considerations:

While ensuring structural integrity, engineers also work to create aesthetically pleasing designs. This involves balancing functional requirements with visual appeal to integrate light poles seamlessly into the surrounding environment.

Foundation Design:

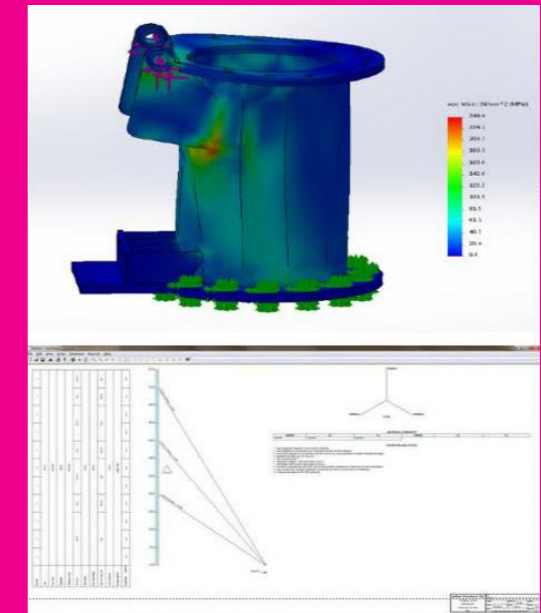
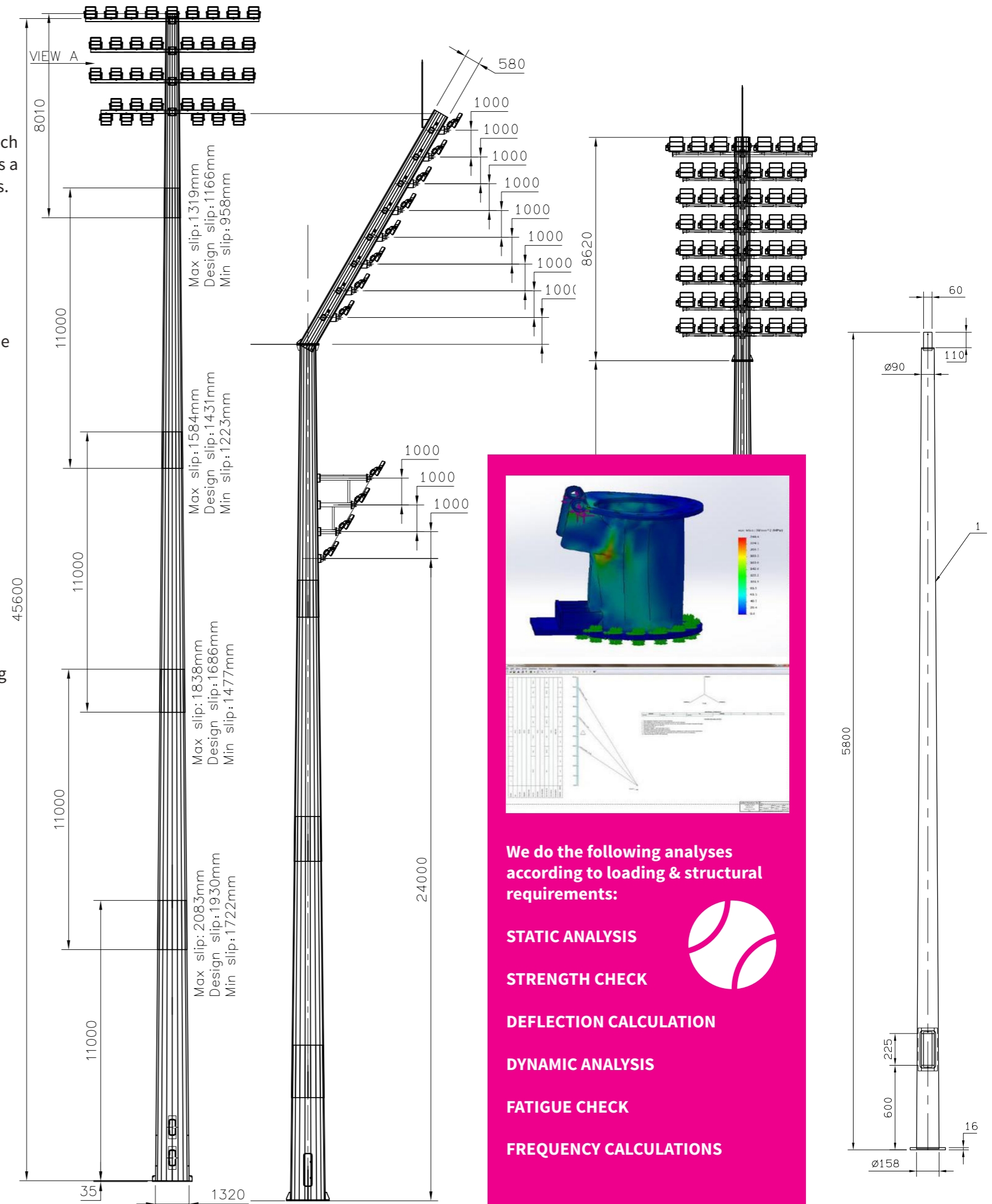
Engineers determine the appropriate foundation design for light poles based on soil conditions and other geotechnical factors. A well-designed foundation is crucial for the stability and longevity of the entire structure.

Optimising Material Usage:

We aim to optimise material usage in the design of light poles, balancing strength and efficiency. This not only contributes to cost-effectiveness but also aligns with sustainability goals by minimising resource consumption.

Integration of Advanced Technologies:

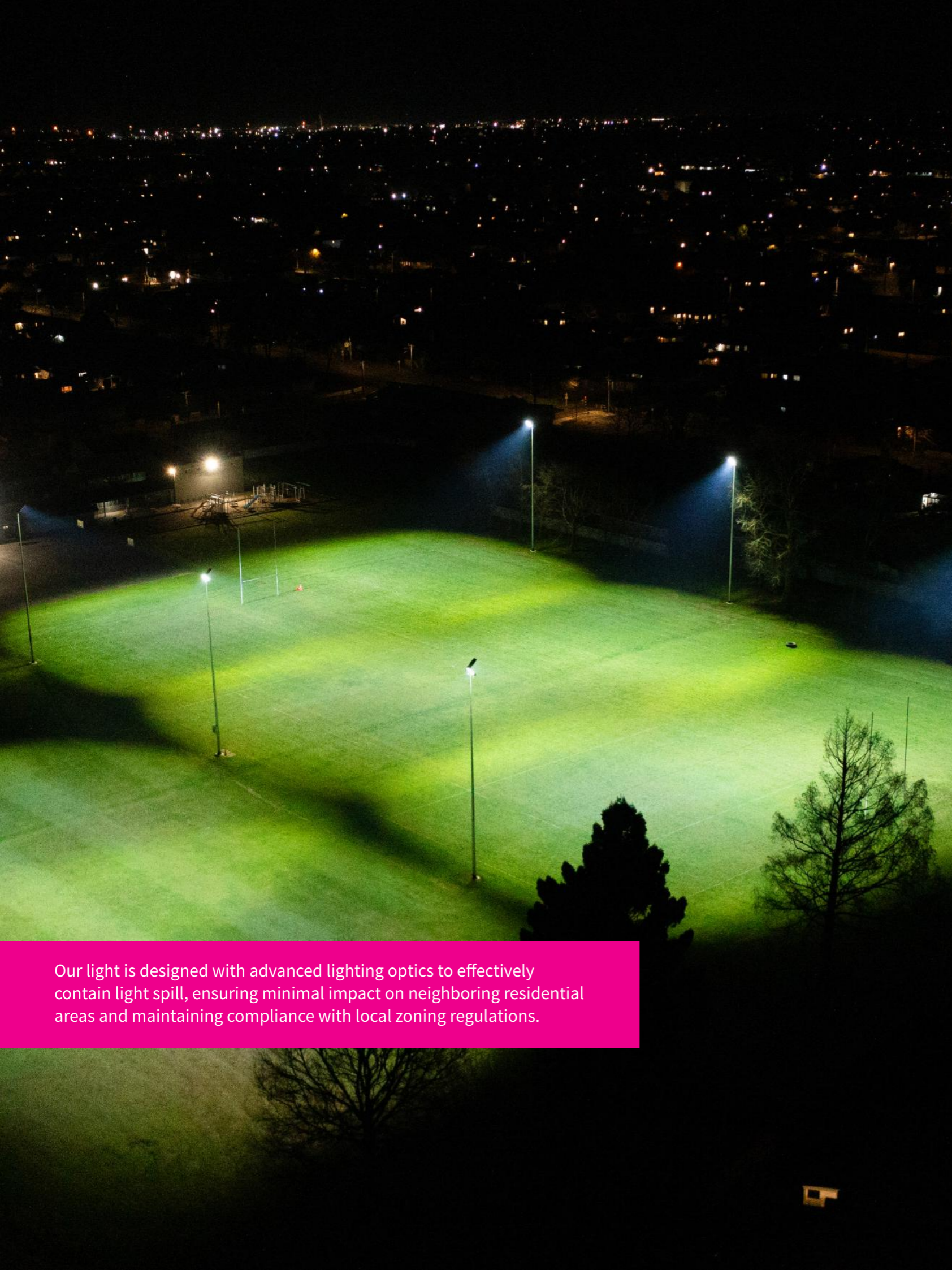
As smart lighting and other technologies become more prevalent, we consider how integration of these features into light pole designs. This may include accommodating sensors, communication equipment, or energy-efficient technologies.



We do the following analyses according to loading & structural requirements:

- STATIC ANALYSIS
- STRENGTH CHECK
- DEFLECTION CALCULATION
- DYNAMIC ANALYSIS
- FATIGUE CHECK
- FREQUENCY CALCULATIONS





Our light is designed with advanced lighting optics to effectively contain light spill, ensuring minimal impact on neighboring residential areas and maintaining compliance with local zoning regulations.

ELECTRICAL DESIGN

The electrical design for ducting and trenching around a sports field involves careful planning to accommodate the various electrical components required for lighting, power distribution, and other electrical systems. Pure's key considerations for the electrical design process:

Underground Ducting:

Plan the layout of underground ducts to house electrical cables, ensuring they are strategically positioned to supply power to lighting poles and other electrical equipment.

Trenching:

Determine the trenching requirements based on the layout and dimensions of the sports field. This involves digging trenches to accommodate electrical conduits and cables. The depth of the trenches is a key consideration, it ensures they are sufficient to protect the cables and comply with local regulations.

Cable Laying:

Define the routes for electrical cables within the ducts to connect various electrical components, such as lighting fixtures and power distribution points. Ensure separation of power and communication cables to minimise interference and maintain the integrity of signals.

Safety Measures:

Implement safety measures, such as marking the location of underground electrical infrastructure, to prevent accidental damage during construction or excavation activities. Include warning signs and markings to indicate the presence of electrical infrastructure.

Capacity Planning:

Determine the electrical load requirements for the sports field, considering factors such as the number and wattage of lighting fixtures, power outlets, and other electrical devices. Ensure that the capacity of the electrical infrastructure, including cables and distribution equipment, can meet the demands of the sports field.

Compliance with Standards:

Design the electrical infrastructure in compliance with relevant electrical codes, standards, and regulations in your region. Consider environmental regulations and requirements, especially if the sports field is in a sensitive or protected area.

Accessibility and Maintenance:

Plan for accessibility to the electrical infrastructure for maintenance and repairs. Include features such as access points or junction boxes for easy troubleshooting and upgrades.

Future Expansion:

Anticipate future needs and design the electrical infrastructure to accommodate potential expansion or upgrades, allowing for additional electrical loads or technological advancements.

LED CONTROL SYSTEMS

Controlling LED lighting is paramount, and the significance of effective control systems cannot be overstated. Here are key aspects that highlight the importance of LED control:

Zoning:

LED control allows for precise zoning, enabling the selective illumination of specific areas as needed. This is particularly crucial for sports facilities with multiple playing or activity zones.

Dimming Capability:

Control systems empower the dimming functionality of LED lights. This versatility is valuable in adjusting light levels to suit different sports activities, providing optimal visibility and creating the desired ambiance.

Energy Savings:

Efficient control systems play a pivotal role in managing the operational times of LED lights. By scheduling and automating lighting based on usage patterns, energy consumption is optimised, leading to significant cost savings and environmental benefits.

Adaptability to Activities:

LED control allows for adaptability to diverse activities within a sports facility. Whether it's a high-intensity game or a training session, the ability to customise lighting conditions enhances the overall experience for participants and spectators.

Enhanced User Experience:

Precision control enhances the overall user experience. The ability to tailor lighting conditions to specific requirements ensures that participants can perform optimally, and spectators can enjoy events in an appropriately lit environment.

Cost-Effective Operation:

Through efficient control, LED lighting can be operated in a cost-effective manner. The ability to turn off or dim lights during non-peak hours or when specific areas are not in use contributes to overall operational cost savings.

Integration with Smart Technologies:

LED control systems can integrate with smart technologies, allowing for seamless connectivity and centralised management. This integration enhances the overall intelligence of the lighting infrastructure.

Customisation for Events:

LED control systems provide the flexibility to customise lighting configurations for special events or occasions. This adaptability ensures that the lighting setup aligns with the unique requirements of each event.



LED control systems play a pivotal role in optimising the functionality and efficiency of LED lighting in sports facilities. The ability to precisely adjust lighting conditions based on zoning, dimming needs, and usage patterns not only enhances the user experience but also contributes to energy savings and operational cost-effectiveness.





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