



# General lighting

OUR COMMITMENT IS TO PEOPLE





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# Overview

Light is an essential part of our lives, influencing our emotions, our perception of spaces, and our overall well-being. It goes far beyond simple illumination, shaping how we experience and interact with our surroundings.

In recent years, lighting design has increasingly focused on people, leading to new approaches that place human needs at the centre. Good lighting is not just about visibility; it plays a key role in comfort, productivity, and quality of life.

For lighting to be effective, it must suit the specific space and the activities that take place within it. By carefully considering intensity, colour, and distribution, artificial lighting can support daily tasks while creating pleasant and balanced environments, closely reflecting the qualities of natural light.



# Light shapes life

## SHAPING WELL-BEING THROUGH LIGHT



**Light has a powerful impact on people, influencing them both physically and emotionally. It is much more than simple illumination; light shapes how we feel, think, and perform in every environment we experience.**

In the workplace, well-designed lighting supports concentration, reduces fatigue, and enhances productivity, while poor lighting can lead to stress and discomfort. At home, light contributes to a sense of comfort and well-being, helping to create relaxing atmospheres and support daily routines. During sports and physical activities, appropriate lighting improves visibility, safety, and motivation, allowing people to stay focused and energized.

A human-centric approach to lighting places people at the heart of design, adapting light to their needs, activities, and natural biological rhythms. By reflecting the dynamic qualities of daylight, thoughtful lighting solutions can support mood, alertness, and overall well-being, positively influencing both body and mind throughout everyday life.



# Light quality

## WELL-BALANCED MIXTURE



**The quality of light is essential for supporting the wide range of tasks people perform both indoors and outdoors. More than just providing visibility, good lighting enhances comfort, safety, and performance by responding precisely to human needs and the characteristics of each environment.**

Key aspects of light quality include Color Rendering Index (CRI), Color Gamut (GAI), and Correlated Color Temperature (CCT). A high CRI and a balanced color gamut ensure that colors appear natural and accurate, which is especially important for tasks requiring visual precision, recognition, and comfort. CCT influences how warm or cool a space feels, affecting alertness, concentration, and emotional response.



By carefully selecting and combining these parameters, lighting can be adapted to different activities—whether working indoors, relaxing at home, or moving through outdoor spaces—supporting visual clarity, well-being, and overall performance in every situation.



### **Circadian rhythm**

Respecting the circadian rhythm in lighting is essential for human health and well-being. Our internal clock, which regulates sleep, alertness, and energy levels, is strongly influenced by light. Lighting that follows natural rhythms—cool and bright during the day, warmer and softer in the evening—helps boost focus and productivity, supports relaxation, and promotes healthy sleep patterns. By aligning artificial light with the body's natural cycles, we can create environments that enhance both physical performance and emotional well-being.



# Light quantity

## OPTICAL POWER



**The right amount of light is essential for comfort, safety, and performance. Too little causes strain and fatigue; too much creates glare and discomfort. Proper lighting levels ensure tasks are done efficiently while supporting well-being.**

Proper illumination depends on three key factors: the level of illuminance, the evenness of light distribution (uniformity), and effective glare control.

### **Illuminance**

Illuminance ensures spaces have the right amount of light for tasks, safety, and comfort, helping people see clearly and work efficiently.



### **Uniformity**

Light uniformity—how evenly light is distributed across an area—is important because it directly affects performance, comfort, safety, and perception in many environments.



### **Glare control**

Glare control is a critical aspect of good lighting design because excessive or poorly managed light can reduce visibility, comfort, and safety.



# Market segments

## OUR STRATEGY



**Aware of the market in which it operates, LOKI Lighting seeks to plan, design, and provide solutions that fit and suit your real needs.**

Our solutions are designed to meet real market needs across multiple segments. For sports, they deliver high-performance, uniform, and glare-controlled lighting. In industrial and logistics environments, LOKI provides robust, efficient solutions that enhance safety, productivity, and reliability. For services and commercial spaces, the focus is on visual comfort, flexibility, and energy efficiency.

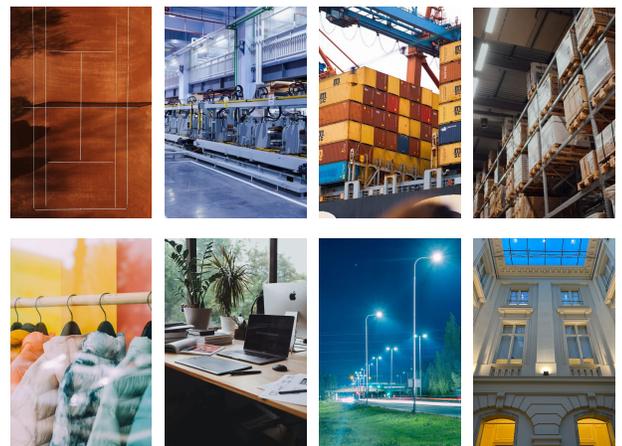
Across all applications, LOKI combines performance, durability, and efficiency to deliver long-term value.

### Market segments

With a deep understanding of the technical requirements and specific characteristics of each application—and recognizing the key role LED technology plays in improving visual comfort, performance, and energy efficiency—we are committed to providing expert guidance and tailoring our lighting studies and solutions to the specific needs of each project.

These are the key markets we focus on.

- ✔ Sports
- ✔ Industrial
- ✔ Maritime
- ✔ Logistics
- ✔ Retail
- ✔ Services
- ✔ Street
- ✔ Architectural



# Lighting solutions

## WHAT WE PROPOSE

**Artificial lighting is important because it allows people to see, work, and live comfortably and safely regardless of natural light availability. It ensures consistent visibility, improves safety and productivity, and enhances visual comfort and overall quality of life.**

Our LED solutions achieve these goals by delivering efficient, high-quality lighting tailored to each application.

They provide consistent illumination with excellent uniformity and glare control, improving visibility, safety, and visual comfort. High energy efficiency and long lifetime reduce operating costs and maintenance, while flexible designs and smart control options allow lighting levels to be adapted to real usage needs. Together, these features ensure reliable performance, comfort, and sustainability across all environments.

### Lighting systems

LOKI Lighting has developed a high-performance LED range designed to meet the needs of all major market segments, application types, and installation conditions.



PROFLOOD T2/S

### Management systems

LOKI Lighting gives customers full control over their LED systems with an easy-to-use management solution. After installation and testing, customers receive full training so they can operate the system on their own. LOKI Lighting also provides ongoing technical support whenever needed.



# Our Methodology

## CUSTOM-DESIGNED SOLUTIONS



**LOKI Lighting always works closely with its customers to identify their needs and find appropriate solutions that meet their expectations.**

Once the project requirements have been identified and the necessary technical and regulatory frameworks have been established, the respective specifications are generated and duly validated by the client. These will serve as the basis for the technical and economic study of the proposed solution and, once approved, for its development and implementation. This entire process is carried out in close consultation with the client.

### Methodological architecture

#### 1. Needs assessment

Identification of project needs and requirements, in accordance with the client's wishes or the project's objectives/purposes.



#### 4. Defining the solution

A study of the equipment and solution that will form part of the proposal to meet the client's needs based on the characteristics of the proposed project.



#### 5. Approval of the solution

Analysis and rectification/approval by the client of the technical proposal submitted, with the subsequent preparation of the respective economic proposal and study.



#### 2. Regulatory framework

Search for appropriate solutions that meet the identified needs and comply with technical and regulatory requirements.



#### 3. Drawing specifications

The document provides guidelines, references, and technical details for each proposed piece of equipment. It also explains current requirements and compliance, as well as the expected results of the project.



#### 6. Project implementation

Production and installation of the equipment specified in the approved solution. Commissioning the system and carrying out all the lighting tests and adjustments required to complete the work.



# Our commitment

## HUMAN-CENTRIC CONCEPT



**Light is a fundamental element in human well-being and performance, influencing physiological, cognitive, and emotional processes throughout the day. Our primary goal is to deliver lighting conditions tailored to human needs, supporting visual comfort, circadian rhythm alignment, and overall health while maintaining the highest standards of quality, sustainability, and efficiency.**

By carefully balancing light intensity, spectrum, timing, and control, we create environments that enhance comfort, productivity, and well-being, while also delivering long-term value and positive outcomes for both people and organizations.

People are at the heart of our entire research and development process in this area.

### Performance & Light Quality

The lighting must deliver the right intensity, spectrum, and uniformity for its purpose, ensuring consistent, high-quality results without glare or flicker.



### Efficiency & Sustainability

High energy efficiency, long lifespan, and optimized thermal management to minimize operating costs and environmental impact.



### Reliability & Durability

Robust design and stable performance over time, capable of operating reliably under the specific environmental and usage conditions.



### Control & Adaptability

Intelligent control and flexibility to adjust output, timing, and distribution according to changing needs and conditions.



# R&D

## BEYOND LIGHTING



**Innovation is the guiding principle for any challenge we face, based on environmental sustainability and social responsibility.**

Research and development (R&D) improves lighting systems by driving innovation, efficiency, and sustainability. It enables energy-saving, reliable solutions and supports smarter lighting for areas like horticulture, healthcare, and industry, ensuring better solutions for the future.

### **In-house and third-parties collaboration**

In addition to our in-house R&D capabilities, we actively collaborate with trusted third-party partners—including research institutions, technology providers, and industry experts—to strengthen innovation and broaden the reach and performance of our lighting solutions.

### R&D projects



#### **INOVOlive**

The INOVOlive project focuses on developing LED lighting solutions for table olive production. It aims to speed up fermentation, reduce salt content in brine-packaged olives, and study ways to add value to the brine.



#### **T-LAMP**

Strengthen research and innovation to improve artificial lighting efficiency while ensuring optimal growth of natural turf in soccer stadiums for high-level competition.



# About us

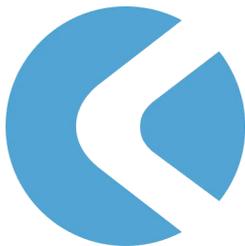
## INNOVATION IN LED LIGHTING



*Founded in February 2014 and headquartered in Águeda, Portugal, LOKI is a technological innovation company dedicated to the research, design, development, and production of high-performance lighting systems based on state-of-the-art LED technology. Operating exclusively in the professional market, we cover a wide range of application areas, always adhering to the highest standards of quality and technical requirements.*

*LOKI has a professional and multidisciplinary team with over twenty years of experience in the lighting industry, and specifically in LED technology. This accumulated experience allows us to develop solutions focused on people's well-being, environmental sustainability, and business.*

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*The information contained in this document is subject to change without notice.*