

siteco



Types,
data sheets,
configuration –
everything at a glance:

**Floodlight
FL 11**



Floodlight FL 11

Developed for games that make history.

Quantum leap Floodlight.



Brings the game into the spotlight

With precise illumination
for perfect visibility on
the field.

Protects residents, environment and insects

No light pollution – light
only where it is needed.

Visual comfort for players and fans

Thanks to optimized
light control without
annoying glare.

A perfect fit for your field

Easy to retrofit –
existing masts can
usually be reused.

As flexible as your game schedule

Selectable lighting scenes
via app or switch using your
existing wiring – for training,
games or events.

Easy to maintain and built to stay bright

Easy-to-clean optical
cover over glass panel –
with internal glare shields.

With full service on request

From luminaires
and masts to
turnkey solutions.

Extends the life span of your field

Real-time data for optimum
maintenance and use of
your sports facility.

Precise

Asymmetrical light distributions
for targeted lighting

Powerful

Up to 260,000 lm

Sustainable

0 % light immission, no disturbing
light for residents or nature

Efficient

Up to 155 lm/W and service life
of up to 100,000 hours

Reliable operation

Easy maintenance thanks to
flexible ECG integration

Flexible

Rotatable modules and adjustable light head

Future-proof

Demand-based lighting control,
optionally with D4i interface

FL 11

The FL 11 marks the beginning of a new era in sports
field lighting. Highest light output. Precise illumination.
Perfect playing conditions.





0%

Light immission

Targeted with 0 % light immission

Asymmetrical light distributions ensure precise illumination – without light spill or scattered light.

Light that protects insects

At 3,000 K, the FL 11 attracts fewer insects and thus protects the ecosystem.

Extra insect-friendly lighting at

3,000 K

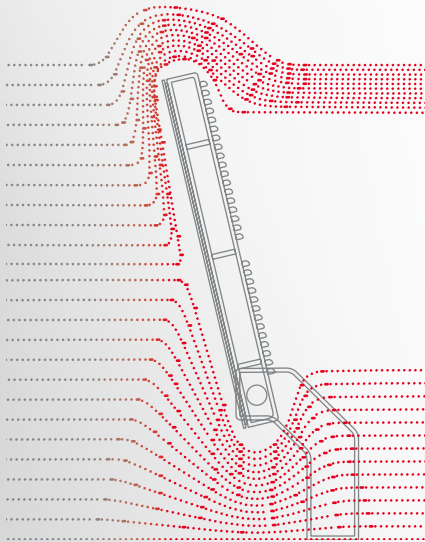
A winning combination: efficiency and sustainability.

Minimum wind profile, maximum benefit

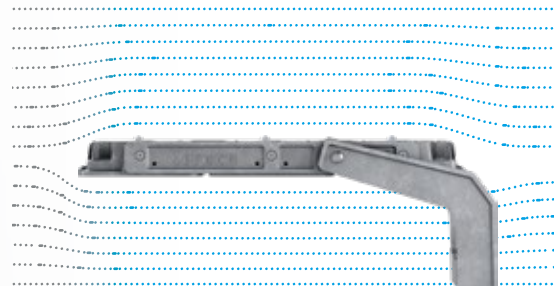
Thanks to their horizontal mounting, our floodlights offer significantly lower wind resistance than conventional models – saving costs and protecting the environment:

- **Reduced dimensions of masts and foundations**
- **Use of the existing masts possible**

Efficient. Sustainable. Economical.



Conventional floodlights in vertical arrangement



FL 11 in horizontal arrangement



Savings potential for your lighting and installation of a 4-mast system.

3t CO₂
saved per year

	Old system	New system
Luminaire type	8 × 2,000 W HQI	FL 11 maxi 917 W
Energy consumption per year kWh	8,800	3,668
Operating costs per year €	3,680	1,284
Energy	3,080	1,284
Maintenance	600	low maintenance
Savings per year €		-2.396

Additional savings can be realized with SITECO Connect Sports.



How much money and CO₂ can you save? Take the SITECO Energy Saving Check now.
<https://www.siteco.com/solutions/light-audit>



Master of adaptation.

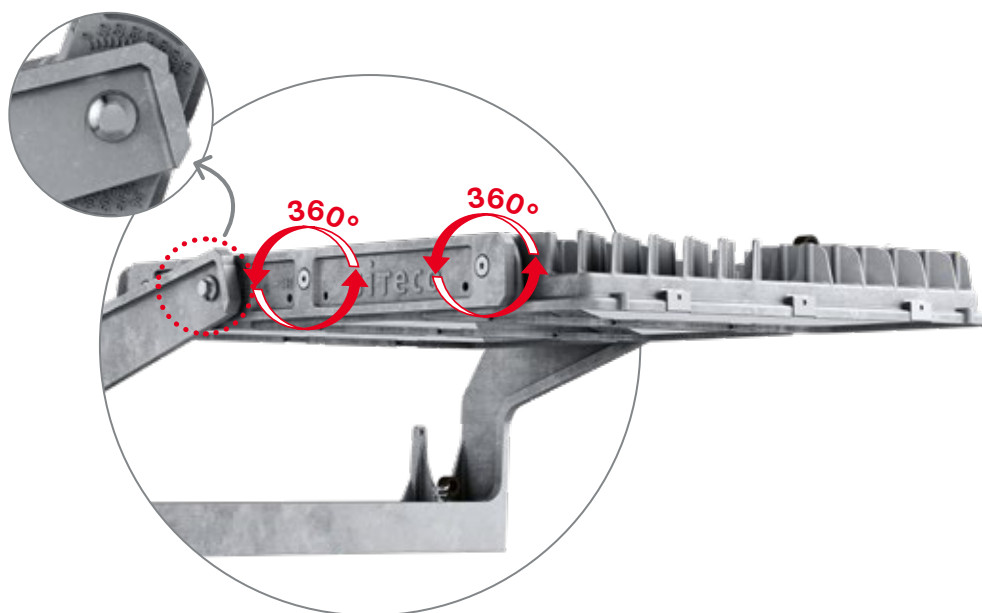
The FL 11 has a modular design – for maximum flexibility in planning, installation and lighting.

Flexible placement options

With an external ECG, maintenance becomes a breeze. Directly on the luminaire or flexibly mounted on the mast.

Flexible connection options

230 V or 400 V? You decide.
The versatile ECG keeps all options open – up until installation.



Flexible adjustment

360° rotatable modules and a finely adjustable light head ensure precise, needs-based illumination.

Flexible planning

Individually combinable optics – for customized light distributions, perfectly tailored to any placement situation.

Maximum glare control.

Limit the rear light spill with various shields.



Internal shield:
no extra wind load,
no static problems



Surrounding / rear shield:
easy retrofitting



Prepared for the future.

The FL 11 is available with an optional Smart Interface, providing Zhaga-D4i standard connectivity.

The advantages speak for themselves:

- **Modular replacement**
- **Easy retrofitting**
- **Tool-free installation**
- **Maximum efficiency**



Made in

Traunreut



Sustainability. Consistently implemented.

- **Made in Germany**
- **Short supply chains for fast availability**
- **Easy implementation of customized solutions**
- **Few, recyclable components**
- **Plastic-free packaging**

A quantum leap for your sustainability.

100 % In-house development
and production

100 % Modular
product concepts

100 % Customizability
and replaceability



Project: Vojens Speedway Center, Denmark

Product: FL 11

Floodlight FL 11 variants.

Coming soon:
FL 11 midi



FL 11 maxi

Technical data

Rated luminous flux: up to 173,200 lm
Rated power: up to 1,276 W
Luminaire luminous efficacy: up to 155 lm/W
Rated service life: up to 100,000 h
Recommended mounting height: from 10 m

Variants

Power (for outdoor sports facilities)
Longlife (for industrial applications)

Weight

With ECG on bracket 23.1 kg, remote 17.2 kg

Applications

Sports grounds, stadiums, arenas, airports, container terminals



FL 11 maxi pro

Technical data

Rated luminous flux: up to 259,300 lm
Rated power: up to 1,937 W
Luminaire luminous efficacy: up to 155 lm/W
Rated service life: up to 100,000 h
Recommended mounting height: from 16 m

Variants

Power (for outdoor sports facilities)
Longlife (for industrial applications)

Weight

With ECG on bracket 29.4 kg, remote 23.5 kg

Applications

Sports grounds, stadiums, arenas, airports, container terminals

Valid for all FL 11 variants:

Optics concept

Lenses made of PMMA, without yellowing

Light colors

3,000 K | 4,000 K | 5,000 K | 5,700 K
Color rendering: CRI 70 | CRI 80 / 90 (only for 5,700 K)
or on request
Light immission: 0 %

Protection class

IP66
Protection class: SK I
Also available with corrosion protection class C5



Overview of variants

ECG on bracket or remote up to 150 m
Rated voltage: 220 ... 240 V | 380 ... 400 V, 50 / 60 Hz, AC
DALI 2 or DMX-RDM, Smart-Interface

Dribbling, shooting, cheering – on every soccer pitch.

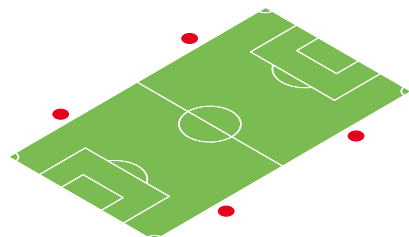
Whether 4- or 6-mast systems – our Floodlight FL 11 is configured to cover all standard layouts and meets the existing association and regulatory requirements with 0 % light immission.

Application examples with the FL 11 in light color 3,000 K CRI 70

Playing field: 105 × 68 m; mounting height: 16 m

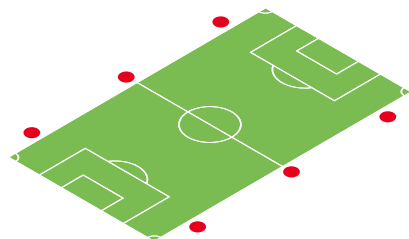
4-mast system

4 masts	FL 11 maxi pro		FL 11 maxi	
	Lighting class II	Lighting class III	Lighting class II	Lighting class III
Light distribution	8 × PL33T 4 × PL64	4 × PL64	8 × PL33T 4 × PL64	8 × PL33T
Horizontal illuminance E_{H}	258 lx	93 lx	206 lx	114 lx
Uniformity U_0 g1	0.66	0.57	0.68	0.63
Total number of floodlights per field	12	4	12	8
GR-max value	47.8	45.7	46.4	46.7



6-mast system

4 corner masts and 2 center masts	FL 11 maxi pro		FL 11 maxi	
	Lighting class II	Lighting class II	Lighting class III	Lighting class III
Light distribution	8 × PL33T 2 × PL64	8 × PL33T 4 × PL64	4 × PL33T 2 × PL64	8 × PL33T
Horizontal illuminance E_{H}	222 lx	273 lx	137 lx	124 lx
Uniformity U_0 g1	0.68	0.7	0.67	0.61
Total number of floodlights per field	10	12	6	8
GR-max value	49.7	47.4	47.3	44.9



Lighting standards and requirements of the associations	Class I	Class II	Class III
Horizontal illuminance E_{H} lx	500	200	75
Uniformity U_0 $E_{\text{Hmin}} / E_{\text{Hav}}$	0.7	0.6	0.5
GR	55	55	55
Color rendering index x_{Ra}	70	60	60

Explanation of light distribution:

PL33T: Area lighting, beam spread relative to mounting height: width 3 / depth 3, with triangular distribution

PL64: Area lighting, beam spread relative to mounting height: width 6 / depth 4

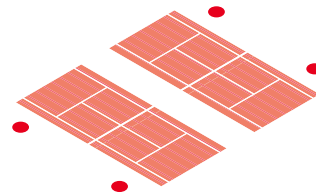
Game, set, match – on every tennis court.

Application examples with the FL 11 in light color 3,000 K CRI 70

Playing field: 35 × 35 m; mounting height: 10 m

4-mast system

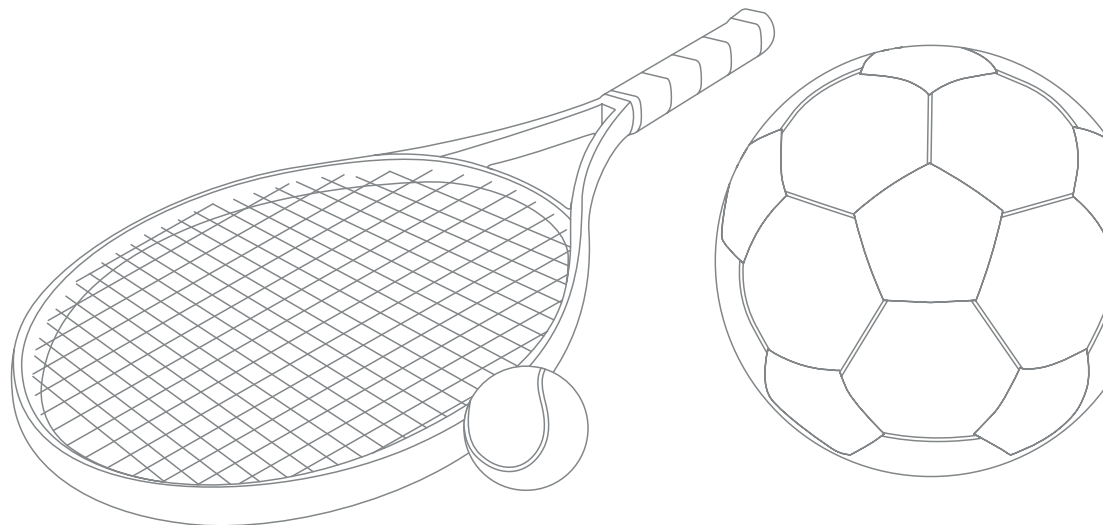
	FL 11 maxi pro	FL 11 maxi
4 masts	Lighting class II	Lighting class III
Number of floodlights per mast	4 × PL64	4 × PL64
Light distribution		
Horizontal illuminance E_{av}	353 lx	235 lx
Uniformity U_0 $g1$	0.75	0.75
Total number of floodlights per court	4	4
GR-max value	39.2	39.2



Lighting standards and requirements of the associations	Class I	Class II	Class III
Horizontal illuminance E_{av} lx	500	300	200
Uniformity U_0 E_{min}/E_{av}	0.7	0.7	0.6
GR	50	50	55
Color rendering index x_{Ra}	70	60	60

Explanation of light distribution:

PL64: Area lighting, beam spread relative to mounting height: width 6 / depth 4



Effortless operation with unique mast solutions.

We have reimagined mast solutions. With innovative telescopic and raise and lower masts.

A revolution in installation and operation.
Minimal effort for installation at maximum speed.
SITECO mast solutions require neither cranes
nor helicopters. And the same goes for maintenance
and servicing.

Simply lower the mast and work comfortably on the
floodlight system. With heights from 6 to 50 meters,
we offer the right solution for every sports field.

A quantum leap in comfort.

Up to **80** %
lower maintenance
and installation costs

only **1** person
for annual maintenance

No crane or
helicopter
for installation and maintenance





Always the right light. At the touch of a button.

Dimmed half-field lighting for training, brilliant color rendering for the derby game. Lighting scenes can be adjusted at any time – flexibly and easily via our app.

SITECO Connect Sports for perfect lighting at every game.

Half-field lighting

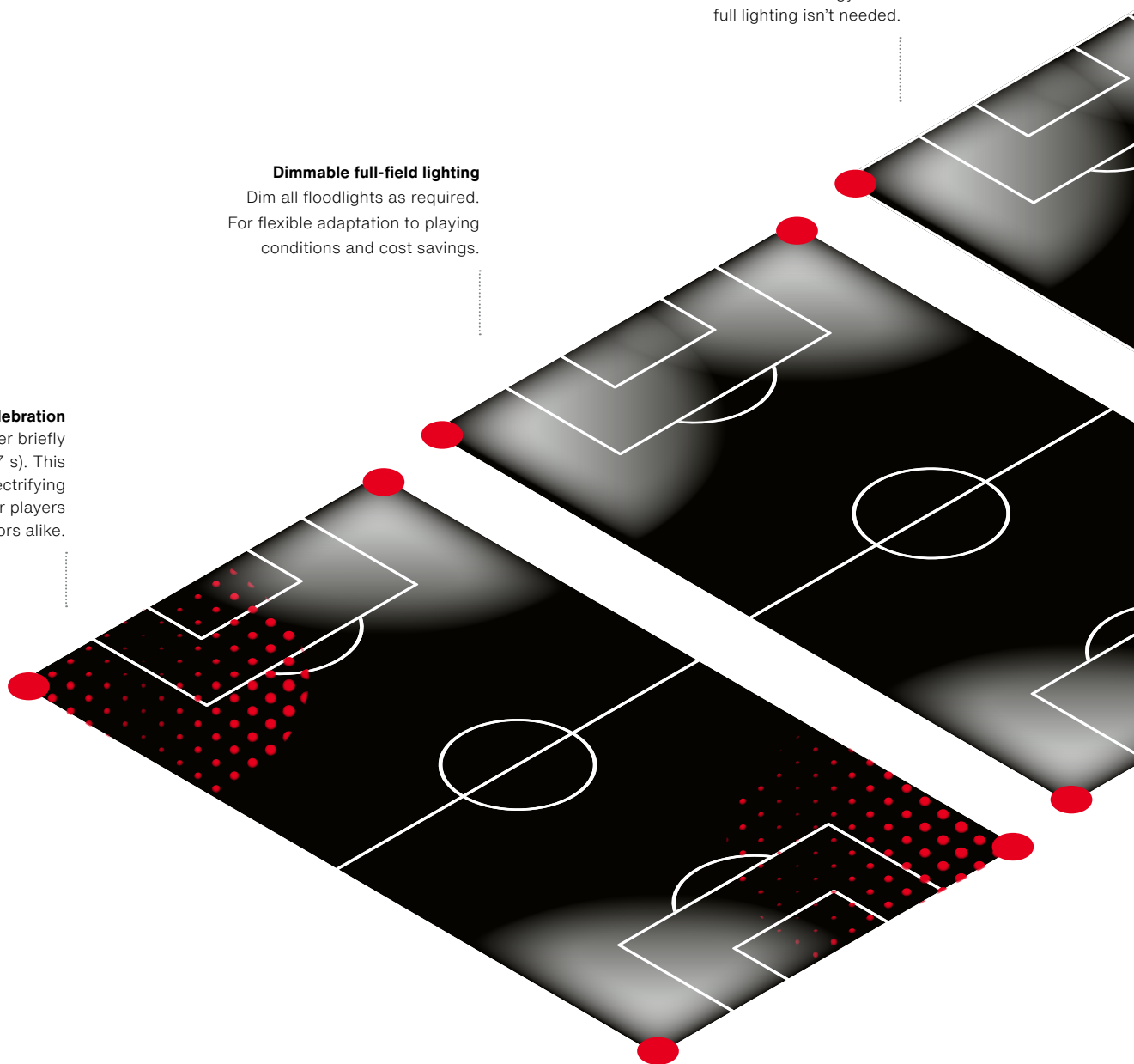
Illuminate just one half of the field and save energy when full lighting isn't needed.

Dimmable full-field lighting

Dim all floodlights as required. For flexible adaptation to playing conditions and cost savings.

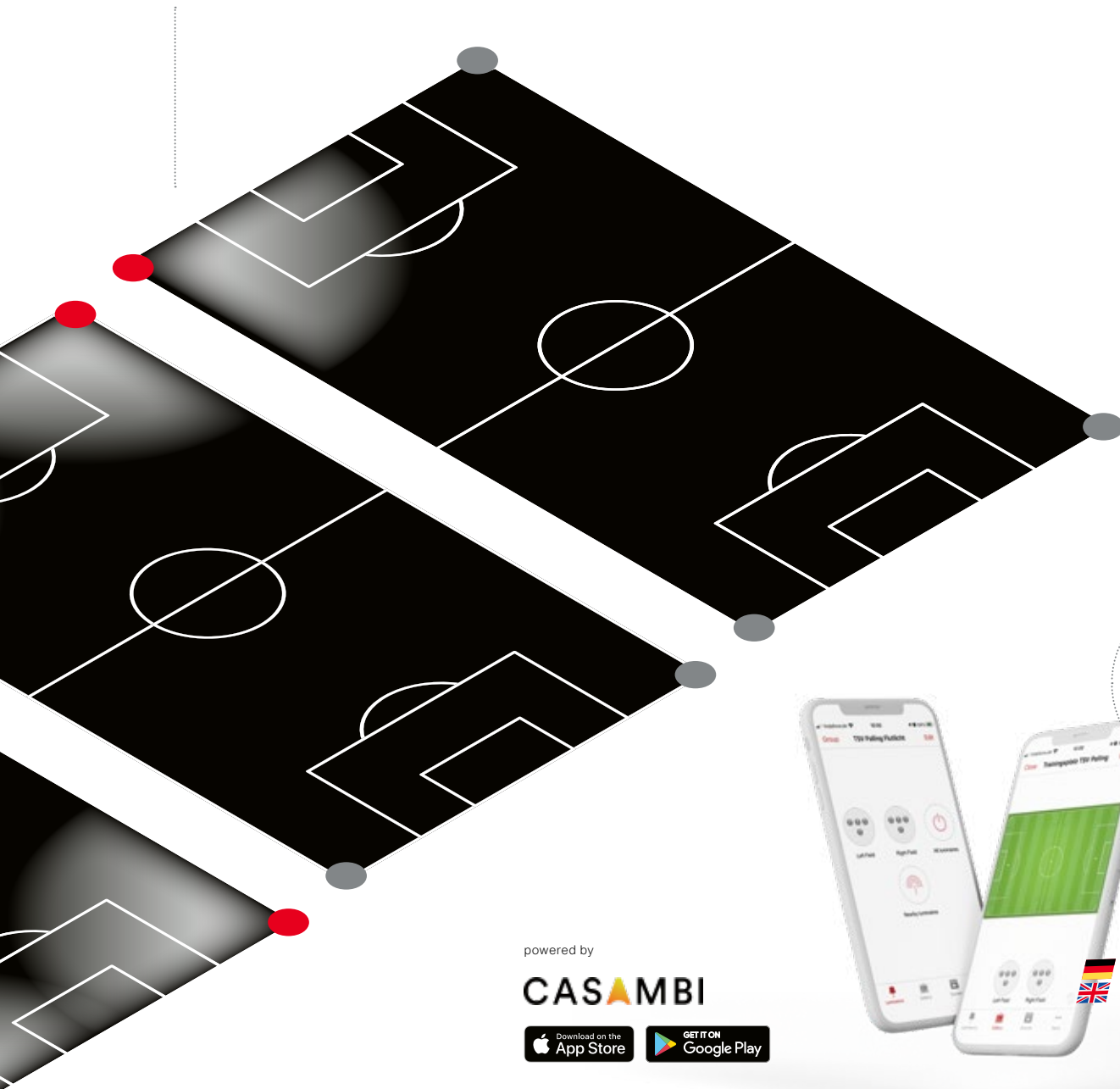
Goal celebration

Let the lights flicker briefly after a goal (7 s). This creates an electrifying atmosphere for players and spectators alike.



Multifunctional single-light control

Control a single floodlight. For example, perfect for team talks or individual training sessions.



powered by

CASAMBI



- **Simple lighting control** via tablet or smartphone (Android or iOS)
- **No Wi-Fi or rewiring required**
- **Flexible use & configuration** tailored to your individual needs
- **Maximum energy savings** thanks to customizable lighting scenes
- **No license fees**

Perfect playing conditions thanks to Intelligent Play.

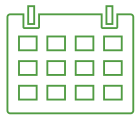
AI-powered analysis of turf conditions to solve challenges faced by sports facility owners and managers.





Play
better.

Optimum playing conditions at all times thanks to precise real-time data on turf quality.



Last
longer.

Extended turf life through full transparency on field conditions and automated maintenance recommendations.



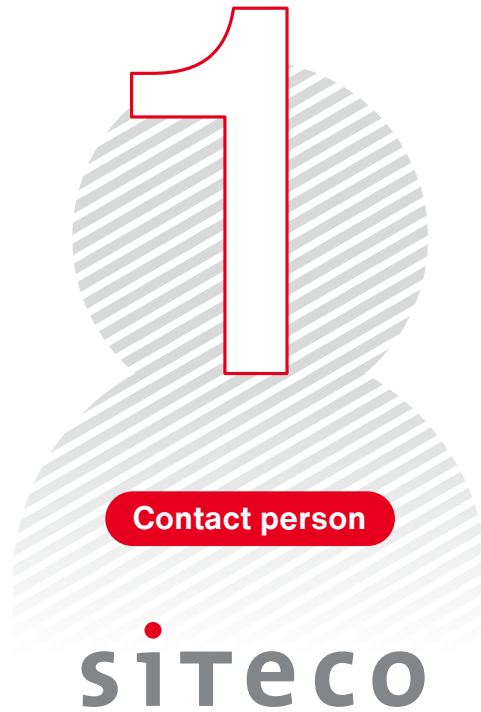
Play
safer.

Minimize the risk of injury for players by identifying high-stress areas and planning appropriate maintenance and protective measures.



Be
greener.

Maximum sustainability through efficient maintenance, increased productivity and extended turf lifespan.



Top-level expertise and a single point of contact.

Turnkey projects require expertise – in every discipline. That's why we rely on specialized experts with many years of experience in the electrical industry. Your benefit: one contact person at SITECO coordinates your entire project.

Our SITECO service team takes responsibility for your project.

+ Light audit

+ Planning & project management

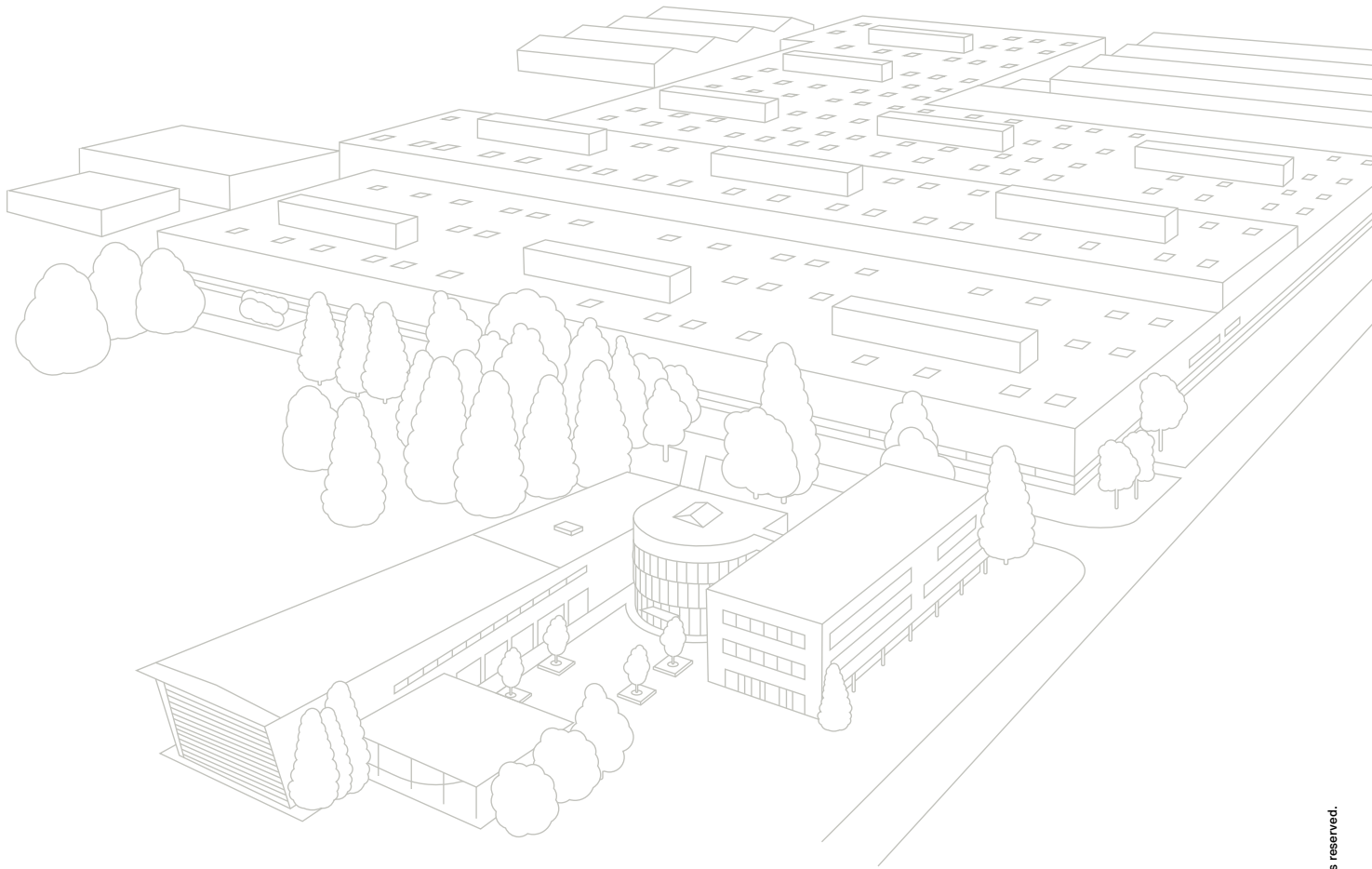
+ Lighting control & field analysis

+ Masts & site infrastructure

+ Installation & commissioning

+ Maintenance & servicing

Get in touch today and
discover the quantum
leap in floodlighting.



Contact.

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