siteco

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

FL 11

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

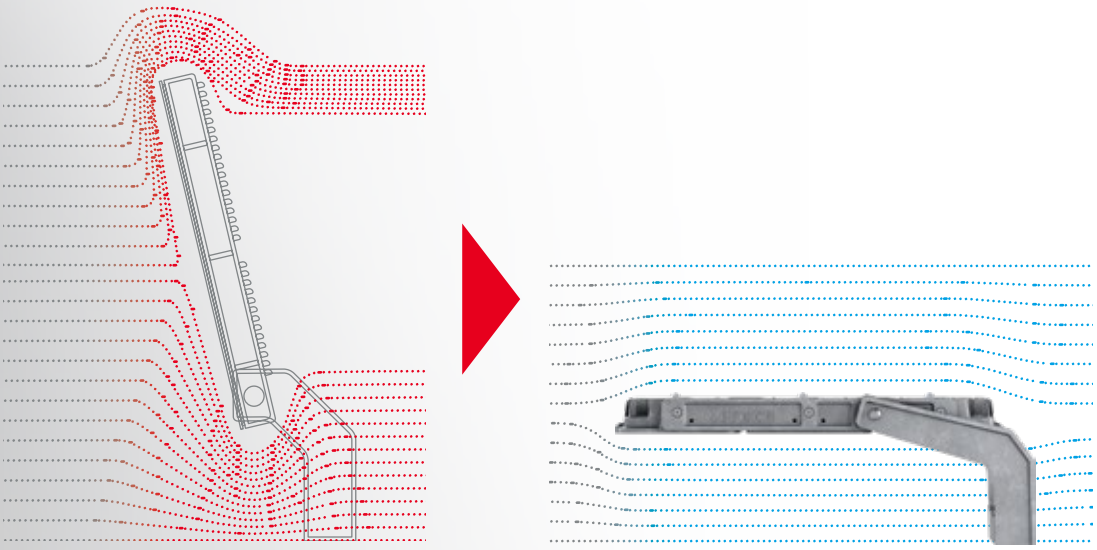
3,000 K

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 CO_2
saved per year

Reduction of operating costs by
70%

	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**

–70 % cost savings

Up to **40 % funding** possible

Additional savings can be realized with SITECO Connect Sports.

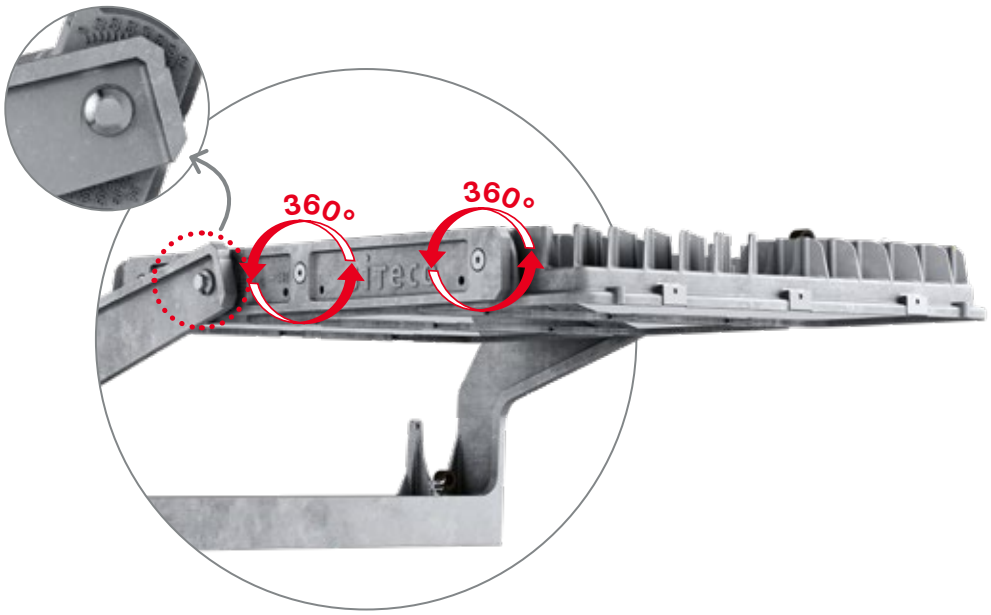
How much money and CO_2 can you save? Take the SITECO Energy Saving Check now.
https://www.siteco.com/solutions/light-audit

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.

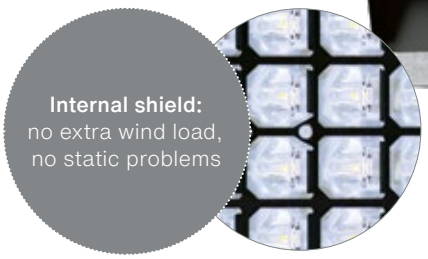


Flexible adjustment
360° rotatable modules and a finely adjustable light head ensure precise, needs-based illumination.

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
siteco

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**

FL 11 variants.

FL 11 midi

Technical data

Rated luminous flux: up to 86,600 lm
Rated power: up to 638 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 16.5 kg, remote 10.5 kg

Applications

Sports grounds (e.g., tennis, paddle tennis), container terminals

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

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

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

Dribbling, shooting, cheering – on every soccer pitch.

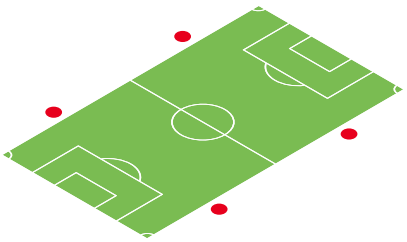
Whether 4- or 6-mast systems – our FL 11 is configured to cover all standard layouts and meets the existing association and regulatory requirements with 0 % light immission.

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

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

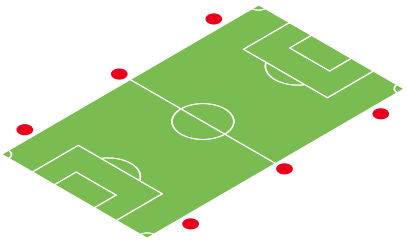
4-mast system

	FL 11 maxi pro		FL 11 maxi	
4 masts	**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 Em	258 lx	93 lx	206 lx	114 lx
Uniformity U0 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

	FL 11 maxi pro			FL 11 maxi
4 corner masts and 2 center masts	**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 Em	222 lx	273 lx	137 lx	124 lx
Uniformity U0 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 $_{Eav}$ lx	500	200	75
Uniformity $U0_{Emin}$ / $_{Eav}$	0.7	0.6	0.5
GR	55	55	55
Color rendering index$_{Ra}$	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

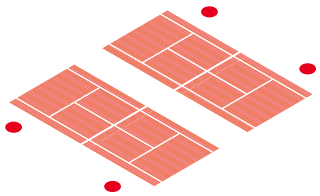
Game, set, match – on every tennis court.

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

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

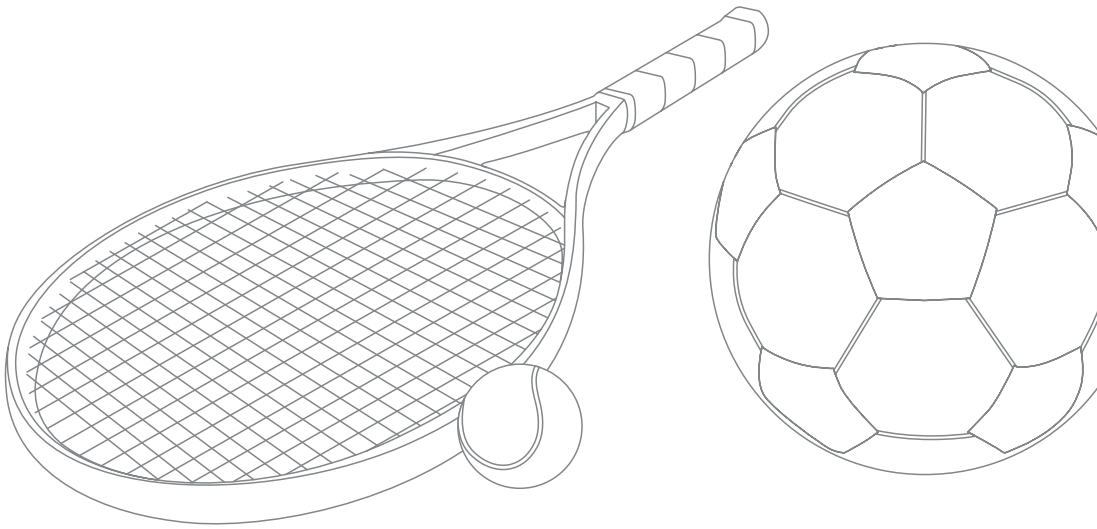
4-mast system

	FL 11 maxi pro	FL 11 maxi
4 masts	**Lighting class II**	**Lighting class III**
Number of floodlights per mast Light distribution	4 × PL64	4 × PL64
Horizontal illuminance Em	353 lx	235 lx
Uniformity U0 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 $_{Eav}$ lx	500	300	200
Uniformity U0 $_{Emin/Eav}$	0.7	0.7	0.6
GR	50	50	55
Color rendering index$_{Ra}$	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

HALIDAY

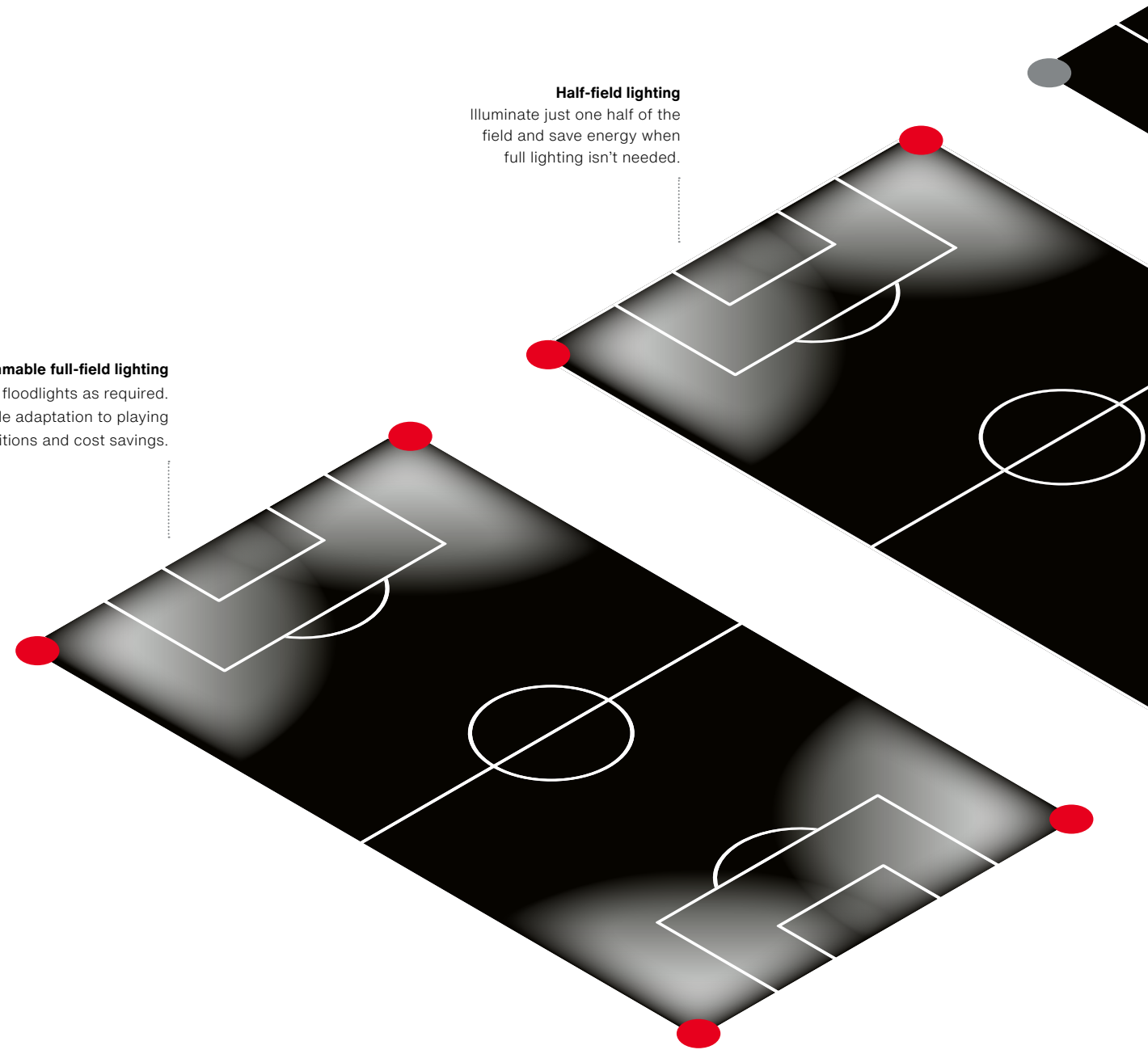
Always the right light.
At the touch of a button.

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.

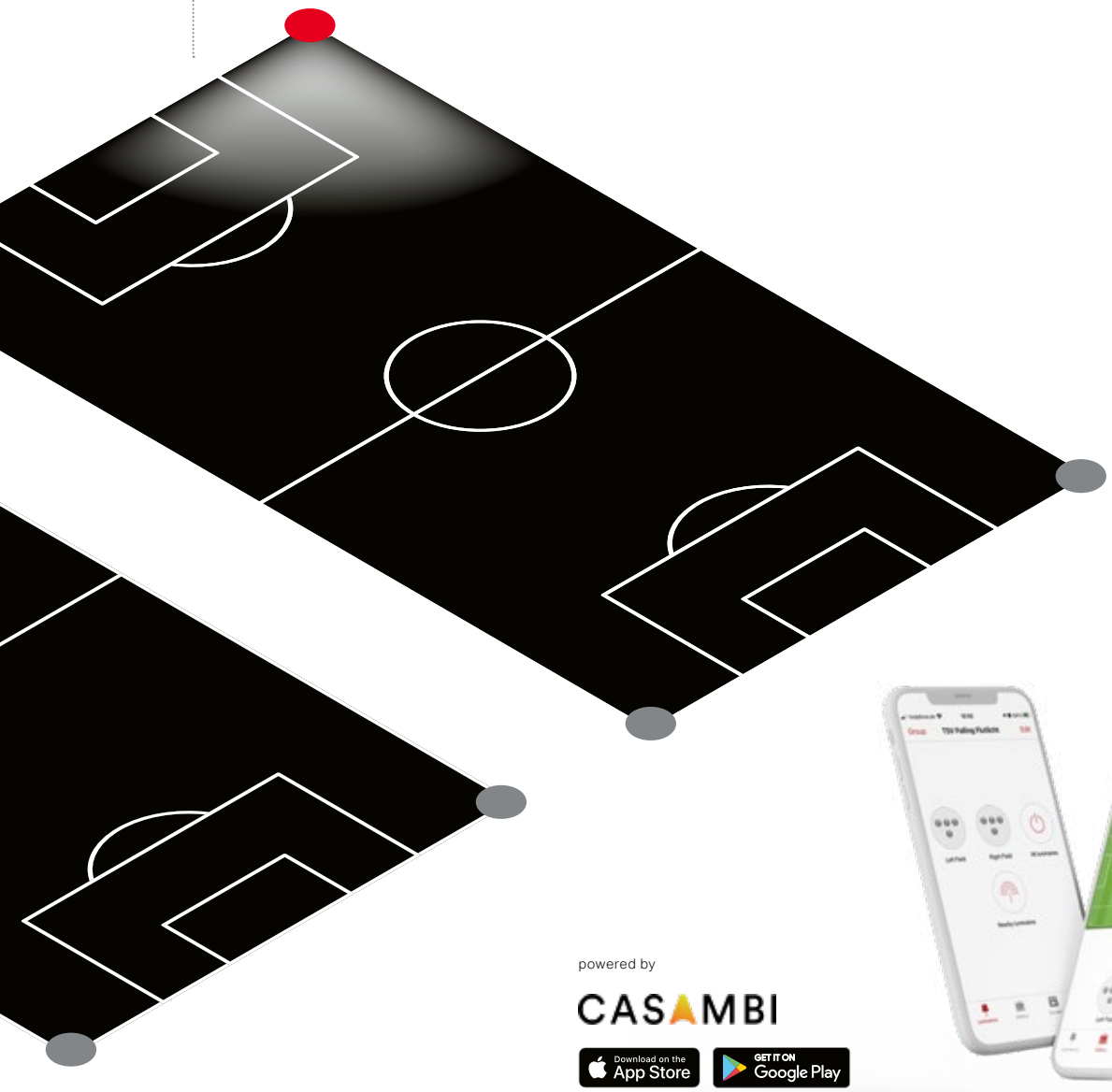
SITECO Connect Sports for perfect lighting at every game.

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.



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



SITECO Connect Sports

powered by

CASAMBI

Download on the App Store

GET IT ON Google Play

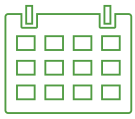
- **Simple lighting control** via tablet or smartphone (Android or iOS)
- **No Wi-Fi or rewiring required**
- **Flexible use & configuration** tailored to your individual needs
- **Maximum energy savings** thanks to customizable lighting scenes
- **No license fees**

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.

Outstanding lighting solutions for over 160 years.

SIEMENS

1862

Foundation of Siemens & Halske A.G.

1882

First street light in Berlin

1949

Relocation to Traunreut

1962

First lighting test road in Traunreut

1971

First 3.5 kW floodlight for the Olympic Games in Munich

1975

First trunking system

1980

First BAP50 louvered luminaire

1987

First secondary system as the basis for the successful MirrorTec concept

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1997

Company foundation SITECO

1998

Patent on micro-prism technology

2006/08

First LED office and street light

2019

Sirius:
first LED floodlight
with TLCI 96

2025

Silica, Lunis, Spot:
product offensive for
offices and education

2020

Licross:
the trunking system
for Industry 4.0

2022

sixData and Bergmeister
Leuchten become part
of SITECO

2023

Halliday Lighting
and Intelligent Play
become part
of SITECO

2011

SITECO becomes
part of OSRAM

2021

iQ & Connect:
Intelligence² for luminaires
and lighting control

2024

Highbay:
the world's most efficient
high-bay luminaire
with 211 lm/W

2019

SITECO becomes
an independent,
medium-sized company

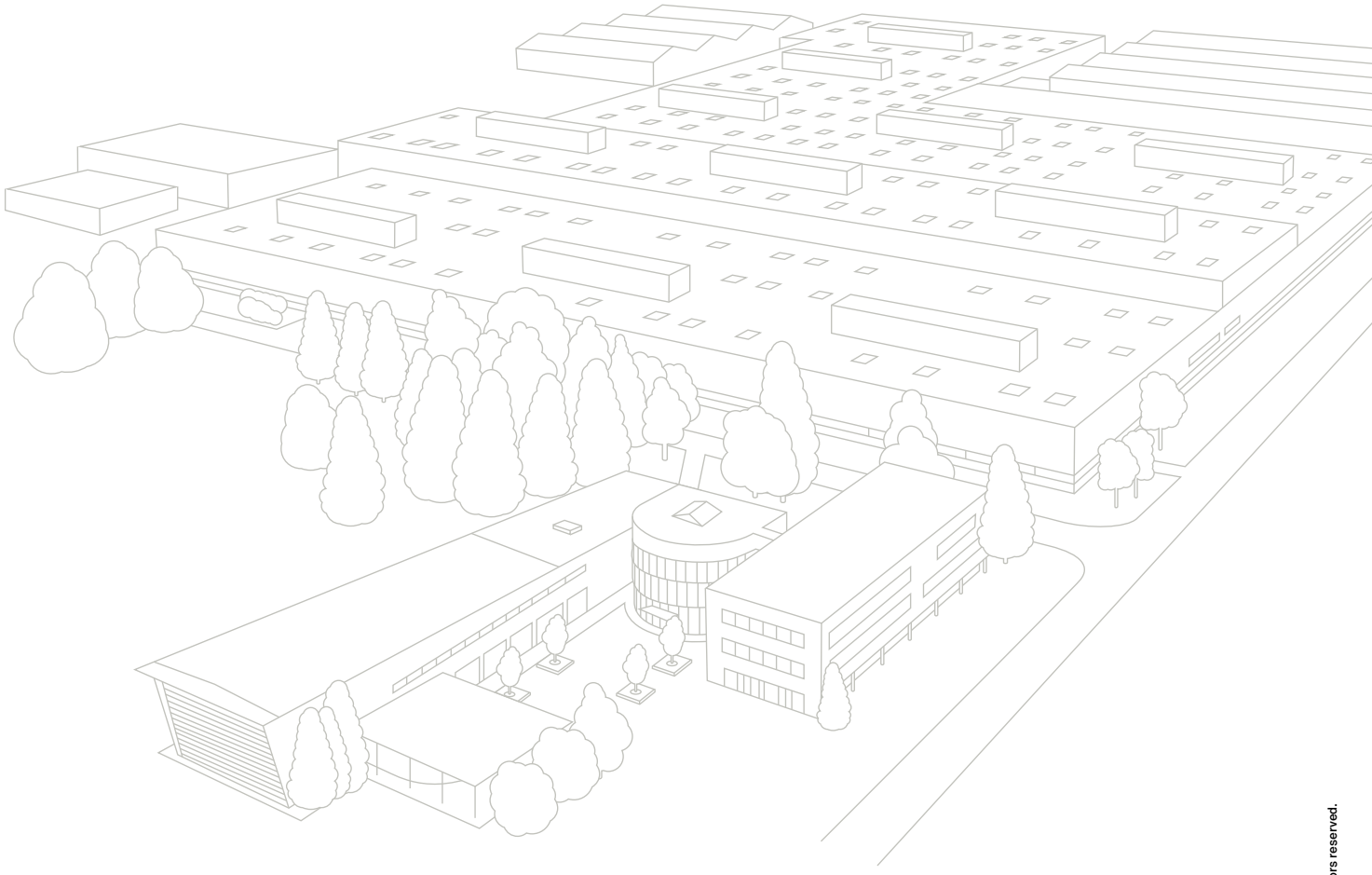
Stern Stewart Industries

2022

Launch of in-house
electronics manufacturing
for even greater
value creation

Made in Traunreut

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



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