

Floodlight FL 11

ER.

Pinpoint precision. Infinite possibilities.



Floodlight FL 11

Floodlight FL 11. The new dimension of light.

Become a minimalist.

Our power solution will enable you to save money, electricity and CO_2 . It needs fewer luminaires than a competitive LED solution while increasing the precision of illumination with the help of a new light distribution system.

Don't do things halfway.

100 % flexibility in planning, installation, alignment and control. This also includes flexible placement of the ECG, LED modules that can be rotated 360°, and two sizes.

Say yes to environmental protection.

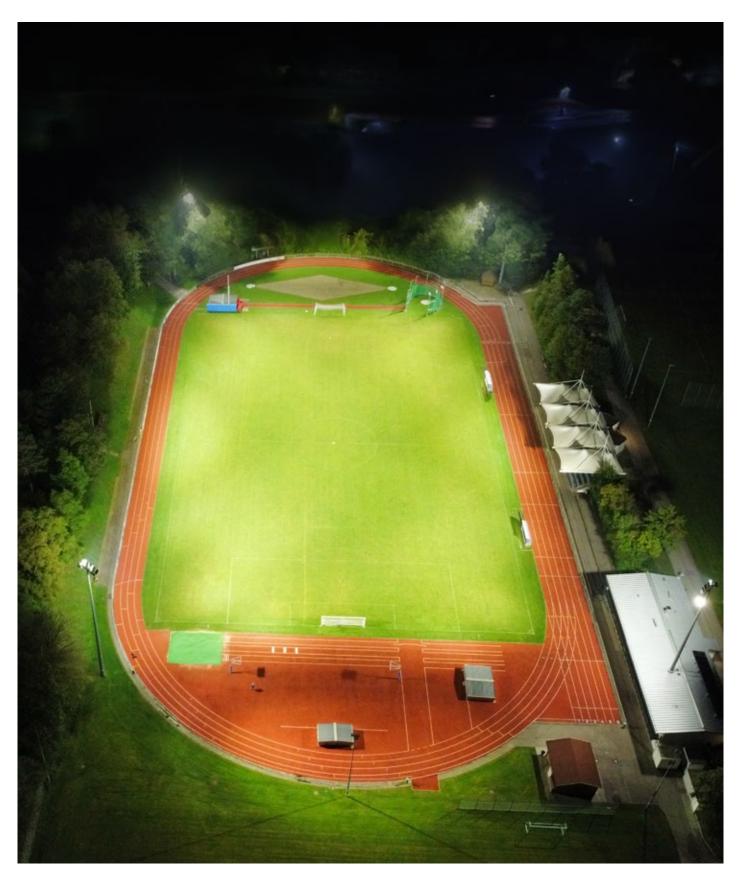
"Green" floodlights with replaceable components, recyclable materials, insect-friendly light colors and, most of all, no light pollution – all delivered in non-plastic packaging. "Environmental protection" are not empty words to us.

Infinite – and pinpoint.

Top athletic performances require ideal lighting conditions. That's why our Floodlight FL 11 produces glare-free light and can be precisely controlled. It will exceed every expectation you ever had about the visual comfort of players and spectators.

The FL 11 meets all the needs of modern sports. It's energy efficient and easy to mount. And it's flexible enough to react precisely to changing circumstances on short notice. Whether it be sports grounds, playing fields or halls: FL 11 combines visual comfort, cost savings, climate protection and flexibility. The ideal light for both team players and lone warriors. And for perfectly illuminated sports thrillers.





Project: FC Aschheim, Germany Product: Floodlight FL 11

The master of modification.

Since no two sports venues are exactly the same, the lighting can't be either. And it doesn't have to be. Floodlight FL 11 is designed to be as flexible as possible to meet all kinds of needs – from planning to installation to illumination.

Flexible installation

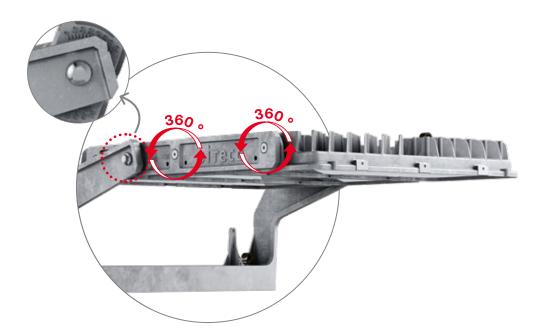
You decide where the driver should be affixed – compactly on the luminaire or wherever you like on the mast. Either way: With an external remotely positioned ECG, maintenance work is a matter of minutes.

Flexible connection

230V or 400V? Both, of course! You don't have to decide before placing an order. Floodlight FL 11 is equipped with a variable ECG that can handle both connection options.

Flexible adjustments

You can rotate the modules of the Floodlight FL 11 by 360°. The light head itself can be adjusted in 2.5° steps. Thus, the light beams can be adjusted with great precision and tailored to your needs.



0 siraco 0 0/0 12 light pollution

Light – where athletes need it and spectators want it.



A new form of green light.

Light sets the pace of our lives. Artificial light can be a real annoyance. It can throw both us and nature off balance – with far-reaching consequences for on insects and the entire downstream food chain. But there's some good news: The FL 11 prevents it all from happening. It meets every criterion set by the latest environmental laws and planning directives. Because light has a special responsibility to assume as human settlements encroach more and more on the habitats of wildlife.

100 % precise - 0 % light pollution

Thanks to its new asymmetric light distribution system, the Floodlight FL 11 casts light with pinpoint and targeted precision onto the sports ground or playing field – and only there. Without any spill light or obtrusive light, the night sky remains dark. And nature and residents undisturbed.

Insect-friendly light for more biodiversity

The warmer the light color, the less it attracts insects. This is why SITECO's Floodlight FL 11 produces 3,000 K light, a color that's especially insect-friendly. Other animals benefit as well: all predators of insects, migratory birds and even fish and amphibians that live near human settlements.



The No. 1 on every soccer field.

No matter whether you need 4- or 6-mast units - our Floodlight FL 11 can cover all established geometries. It also meets all current regulatory standards as well as professional requirements.

Putting the floodlight FL 11 to the test

Sports field: 105×68 m; light point height: 16 m

4-mast system

	FL 11 m	naxi pro	FL 11 maxi	
4 masts	Lighting class II	Lighting class III	Lighting class III	
Light distribution	12 × PL64	8 × PL64	8 × PL 64	
Horizontal illuminance Em	217 lx	165 lx	110 lx	— • < <
Uniformity UO g1	0,63	0,60	0,60	
Total number of floodlights / field	12	8	8	•
GR max	47,4	45,5	45	
	о 			

6-mast system

	FL 11 m	naxi pro	FL 11 maxi	
4 corner masts and 2 center masts	Lighting class II*	Lighting class III	Lighting class III	
Light distribution	4 × PL64 8 × PL33T	2 × PL64 4 × PL33T	8 × PL33T	•
Horizontal illuminance Em	242 lx	122 lx	109 lx	
Uniformity UO g1	0,72	0,67	0,61	
Total number of floodlights / field	12	6	8	
GR max	47,3	47,1	44,8	

* Class II can also be realised with 10 floodlights. (Em: 205 lx | U0 g1: 0.63)

Illumination standards and professional requirements	Klasse I	Klasse II	Klasse III
Horizontal illuminance E _{av} Ix	500	200	75
Uniformity U0 E _{min} / E _{av}	0,7	0,6	0,5
GR	55	55	55
Color rendering index R _a	70	60	60

Notes on light distribution:

PL43: Field illumination, distribution in relation to light point height: width 4 / depth 3
PL33T: Field illumination, distribution in relation to light point height: width 3 / depth 3, with triangle distribution
PL64: Field illumination, distribution in relation to light point height: width 6 / depth 4

Game, set, match – on every tennis court.

Putting the floodlight FL 11 to the test

Tennis court: 35 × 35 m; light point height: 10 m

4-mast system

FL 11 maxi pro	FL 11 maxi	
Lighting class II	Lighting class III	_
4 × PL64	4 × PL33T	
335 lx	269 lx	
0,8	0,71	
4	4	•
44,2	48,8	
	Lighting class II 4 × PL64 335 Ix 0,8 4	Lighting class II Lighting class III 4 × PL64 4 × PL33T 335 Ix 269 Ix 0,8 0,71 4 4



Illumination standards and professional requirements	Class I	Class II	Class III
Horizontal illuminance E _{av} Ix	500	300	200
Uniformity U0 E _{min} / E _{av}	0.7	0.7	0.6
GR	50	50	55
Color rendering index R _a	70	60	60

Notes on light distribution:

PL33T: Field illumination, distribution in relation to light point height: Width 3 / depth 3, with triangular distribution

Your light, your way, at a push of a button.

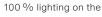
Wide range of lighting scenarios.

First training on the sports field with dimmed half-field lighting, followed by a derby match with brilliant color rendering for TV broadcasts. Check. Today an indoor championship match, tomorrow the venue for a trade show. Anytime. With our app, personalized scenes are quickly and easily programmed.

For optimal light at every game.

Half field lighting

The user will have the opportunity to voluntarily illuminate half of the pitch only. Saving energy on unused field lighting.



Nighttime Kick off

entire pitch. Dim your lights (%) depending on players preferences.

Goal celebration

When a player scores a goal, there is the option to briefly flicker the lights (7 secs). Lighting an electric atmosphere for players and spectators.



- Simple light control with Tablet or Smartphone (Android or iOs)
- No Wifi Connection and new cabling required
- Flexible usage & settings to support your individual lighting needs
- Maximum possibilities for energy savings due to adapted lighting scenarios
- Fully compatible with all FL 11 Dali variants
- Personalized accounts: e.g. for trainers
- One-time investment no licensing fees

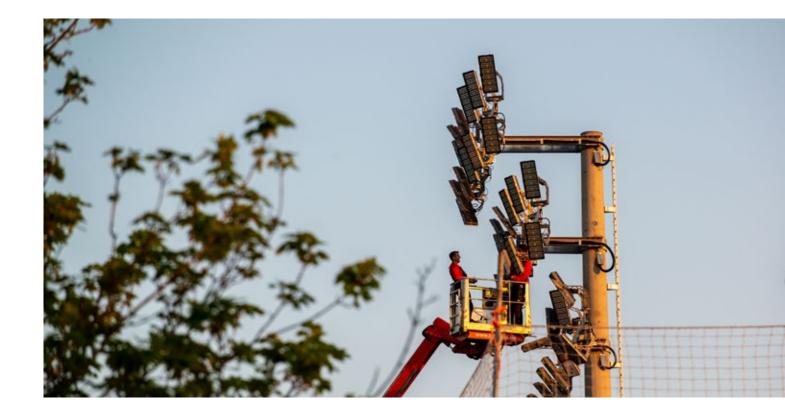
Lighting is teamwork. Truly the best lighting solution for you.

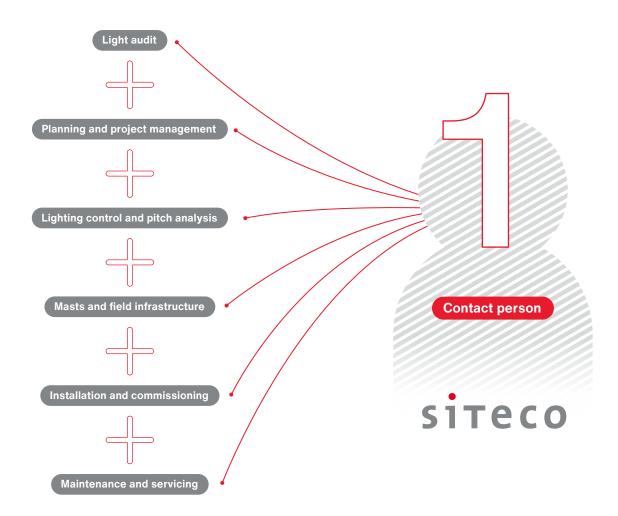
Would you rather focus on your core business?

No problem: SITECO is the right partner by your side. We support you from the idea all the way to commissioning your lighting. We take care of funding subsidies and financing options. And once the lighting is up and running, we'll make sure everything is operating smoothly and your energy consumption is as low as possible.

How does our project management help you?

- Accompany project on site
- Coordinate and control project
- Install and accept lighting systems
- Assign and outsource partner companies
- Optimize and conclude contracts
- Organize tests and measurements
- Document project





Our service is modular. You choose where we support you.

For each service module, we have trained specialists with many years of experience in the electrical industry. And if required, our professional project managers will manage your project for you. You get your reliable contact person who coordinates all steps. So that everything happens at the right time. So that all partners are well integrated. For the entire project. At any time.

Floodlight FL 11 models





FL 11 maxi

Technical data

Rated luminous flux: up to 147,000 Im
Rated output: up to 1,022 W
Luminous efficacy: up to 144 lm/W
Rated service life: up to 100,000 h
Recommended light point height: 10 m or higher

Models

Power (for outdoor sports facilities)	
Longlife (for industry and indoor use)	

Weight

With ECG on the bracket, 23.1k g; remote 17.2 kg

Applications

Sports fields, stadiums, arenas, airports, container terminals

Light distribution

0234567

Optical concept

Non-yellowing PMMA lenses

Light colors

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

Type of protection

IP66	
Safety class: I	

Technical data

Rated luminous flux: up to 220,500 lm
Rated output: up to 1,540 W
Luminous efficacy: up to 143 lm/W
Rated service life: up to 100,000 h
Recommended light point height: 16 m or higher

Models

Power (for outdoor sports facilities) Longlife (for industry and indoor use)

Weight

With ECG on the bracket, 29.4 kg; remote 23.5 kg

Applications

Sports fields, stadiums, arenas, airports, container terminals

Light distribution

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Models at a glance

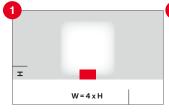
ECG on the bracket or remotely positioned up to 150 m away Nominal voltage: 220 ... 240V | 380 ... 400V, 50/60 Hz, AC DALI2 or DMX-RDM

Applies to all FL 11 models.

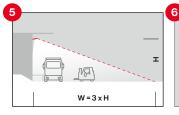
Back Light Control (BLC)

Would you like to ensure minimal rearward light spill? If so, you have to look no further than our Back Light Control: BLC enables you to adjust your light with even greater precision. Integrated spill light control: No additional wind load, no static problems

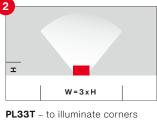
Light distribution for FL 11 models:

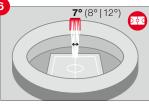


PL64 – to illuminate areas using a wide beam spread



PL43 – to illuminate areas using a wide beam spread

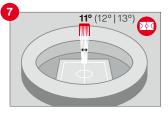




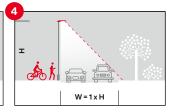
RS07 | RS08 | RS12 – to illuminate long distances in stadiums and halls



PL52 – to illuminate wide streets and parking lots



RSD11 | RSD12 | RSD13 – to illuminate long distances in stadiums and halls with maximum luminous flux



PL61 – to illuminate streets with widely separated light points

517250

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Environmental protection. Implemented honestly.

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Is a product sustainable because it uses less energy? No. The process of manufacturing and disposing of the product has to be taken into consideration as well. That's why we manufacture our Floodlight FL 11 in Germany – energy-optimized and using a clever modular concept as well as plastic-free packaging. This is how we define Made in Germany.

Futureproof and easy maintenance

Modules, drivers and other components can be replaced easily, some even without tools - the ideal way to make repairs or add updates in no time at all. SITECO thinks long-term.

0 % light pollution

0% light in the upper atmosphere is our goal. And this is exactly what the Floodlight FL 11 achieves, thanks to its asymmetric light technology. To ensure a **naturally dark night sky.**

SITECO luminaires can be dimmed, activated and controlled as needed. The reduced level of light has a positive effect on the **environment and nature**.

Precise lighting control

Eco-friendly production and packaging

SITECO offers

From die-cast aluminum housings to the latest generations of LEDs equipped with special lighting technology that we developed ourselves – at SITECO, everything is designed for **long-lasting operation and** significant CO₂ savings.

Sustainable light

GITECO offers

SITECO manufactures its products in Germany in accordance with **environmental protection regulations**. This means two things: Our transport routes don't extend halfway around the world, and our packaging contains **no plastic**.



Saved per year

Reduction in operating

	Old system	New system	
Luminaire type	8 × 2,000 W HQI	FL 11 maxi 917 W	
Annual energy consumption kWh	8,800	3,668	
Annual operating costs \in	3,680	1,284	-70 %
Energy	3,080	1,284	-70 % cost savings
Maintenance	600	low maintenance	st savings
Annual operating savings \in		-2,396	^{up to} 40 % out
			Up to 40 % subsidy possible

Additional savings can be realized with SITECO Connect Sports.

How much money and CO₂ can you save? Do the SITECO energy-savings check now. www.siteco.com/solutions/light-audit



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