



siteco

Great sport.  
**Floodlight 20 maxi**





- Complete floodlight family with different sizes and lumen packages - for the perfect solution on every sports field
- Very long service life of up to 100,000 hours thanks to optimum heat dissipation via cooling fins for predictable investments
- Very robust due to protection class IP66 and vibration stability tested with over 250,000 strokes
- Avoidance of light immission and glare due to the design as a planar surface floodlight with 0% light immission up to an inclination of 15 °

## Floodlight FL 20

**The all-purpose solution for sports lighting.** The planar surface floodlight is characterised by excellent asymmetry and individual light distributions.



**Weatherproof for any application:**

Temperature resistant outdoors up to 55 ° C, cold-resistant down to -30 ° C



**Snow stability:** long bracket extremely pressure load resistant with 400 kg/m<sup>2</sup> = Snow height of up to 1.5 m



**Safe during thunderstorm** and other overvoltages: Over-voltage protection up to 10 kV

**Floodlight FL 20 maxi**

<b>Rated luminous flux</b> lm	74,000 – 138,000
<b>Rated input power</b> W	948
<b>Luminous efficacy</b> lm / W	up to 145
<b>Rated service life</b> (L-value at 25° C / B50)	L95 / 50,000 h L94 / 75,000 h
<b>Weight</b> kg	33.0
<b>Mounting height</b>	from 12 m
<b>Colour temperature</b> K	3,000, 4,000, 5,000
<b>Corrosion protection class</b>	C5



SITECO Connect Sports.  
The control in your hand.



## Our top light for Your peak performance.

Best light brings best results. With Siteco Floodlight 20 solutions you install today what can accompany you all the way to the top tomorrow. The floodlight fulfils all requirements that you need up to the top leagues. But not only that: it is also top class in the disciplines of future-proofing and sustainability, energy efficiency and costs. Discover our solution for your top sporting performances now.

**Include SITECO Floodlight 20 in your team - it pays off!**



## Do you already know SITECO Connect Sports?

**The smart lighting solution from SITECO.** SITECO Connect offers you perfectly tailored smartphone solutions via app for local or central control and monitoring of your lighting system. We are happy to support you throughout the entire process: planning, configuration and commissioning.

For more information, visit [www.siteco.com/solutions/siteco-connect](http://www.siteco.com/solutions/siteco-connect)



# Nr. 1 for every football field.

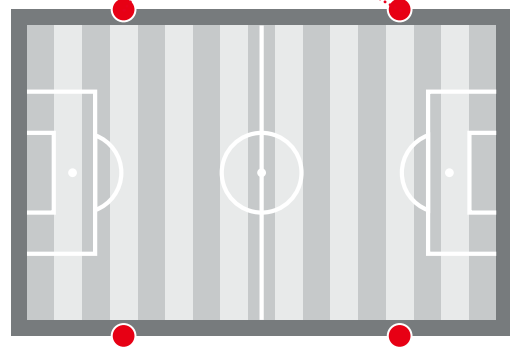
Whether 4 or 6 pole systems - our planar surface floodlights are configured in such a way that they cover all common geometries and meet the existing association and standard specifications. If you have different dimensions or other mast configurations, we will be happy to help you with the individual planning of your lighting system.

Lighting standards and requirements of the associations	Class I	Class II	Class III
Horizontal illuminance $E_{av}$ lx	500	200	75
Horizontal illuminance $E_{min}/E_{av}$	0.7	0.6	0.5
GR	55	55	55
Colour rendering index $R_a$	70	60	60

## Application examples with the Floodlight FL 20

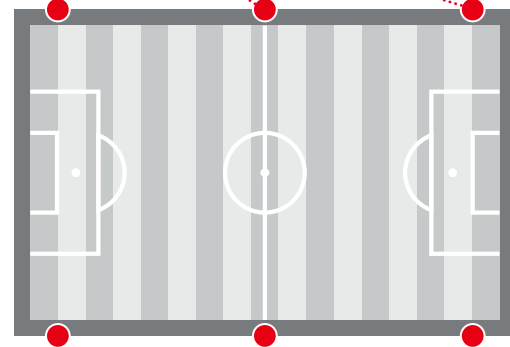
### 4-pole-system

	Number of floodlights per pole		Total number per field
Class II	5 × PL43	5 × PL43	20
Class III	2 × PL43	2 × PL43	8



### 6-pole-system

	Number of floodlights per pole			Total number per field
Class II	2 × PL44T	5 × PL33	2 × PL44T	18
Class III	1 × PL44T	2 × PL33	1 × PL44T	8



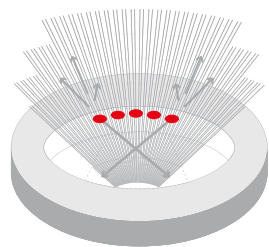
**Field size:** 105 × 68 m  
**Light point height:** 16 m  
**Floodlight FL 20**  
 maxi power

#### Explanation of light distribution

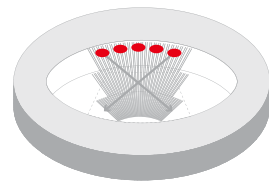
**PL43:** Place lighting, radiation in relation to light point height: Wide 4/Low 3  
**PL44T:** Place lighting, radiation in relation to light point height: wide 4/low 4, with triangular distribution

### Minimal light pollution due to superior optics.

Focussed light insert increases efficiency and reduces light immission. Thanks to its clever design, the Floodlight FL 20 requires only minimal upward tilt and thus minimises unnecessary light scattering while maximising light output.



Conventional floodlighting systems cause increased light pollution - affecting the environment, neighbouring areas and air traffic.



By directing light with minimal tilt, our optical solutions minimize unnecessary scattering.

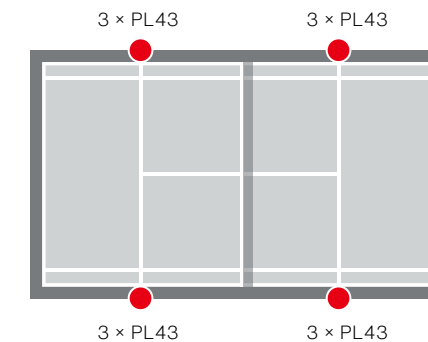
# Game, set, match - on every tennis court



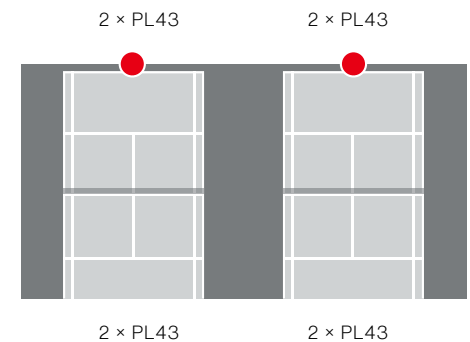
## Class II tennis court

DIN EN 12193  
 ≥ 300 lx,  
 Floodlight 20 midi and Floodlight 20 maxi power

### Single space



### Double space



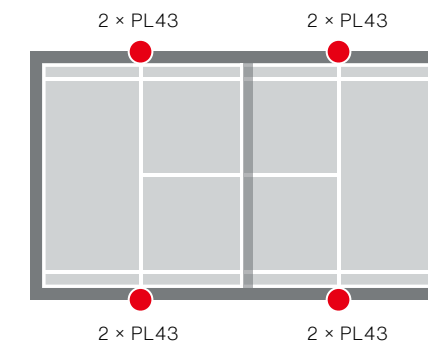
<b>Em</b>	≥ 300 lx	≥ 300 lx
<b>g1</b>	≥ 0.7	≥ 0.7
<b>Light point height</b>	8 m	12 m
<b>Playing field size</b>	18 × 36 m	36 × 36 m
<b>Total luminaires</b>	12 floodlights, 4 poles	8 floodlights, 4 poles
<b>Luminaire variant</b>	Floodlight 20 midi, PL43, 5,000 K	Floodlight 20 maxi power, PL43, 5,000 K



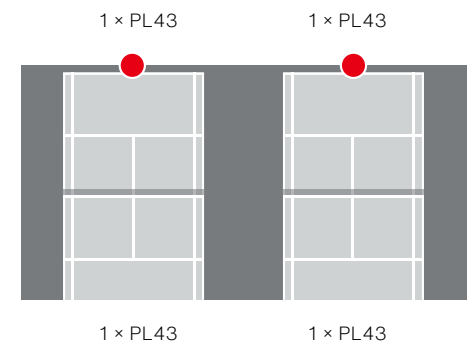
## Class III tennis court

DIN EN 12193  
 ≥ 200 lx,  
 Floodlight 20 midi and Floodlight 20 maxi power

### Single space



### Double space



<b>Em</b>	≥ 200 lx	≥ 200 lx
<b>g1</b>	≥ 0.6	≥ 0.6
<b>Light point height</b>	8 m	12 m
<b>Playing field size</b>	18 × 36 m	36 × 36 m
<b>Total luminaires</b>	8 floodlights, 4 poles	4 floodlights, 4 poles
<b>Luminaire variant</b>	Floodlight 20 midi power, PL43, 5,000 K	Floodlight 20 maxi power, PL43, 5,000 K

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

Light distributions, e.g. PL43: square (PL) | wide beam (4) | narrow beam (3) in relation to the light point height

### Rule of thumb for poles and floodlights for tennis courts

**12 m pole**  
 → Floodlight 20 maxi  
**8 m pole**  
 → Floodlight 20 midi

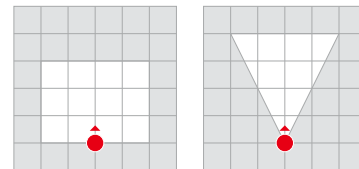
# Light where it should be.

Thanks to the asymmetrical light distribution, the light of the Floodlight 20 arrives exactly where it is needed: on the pitch. Light immission is thus avoided and the emitted light is used efficiently. By using warm white light (3,000 K), additional attention is paid to insect protection.

## Outstandingly uniform light distribution

With the Floodlight 20, you can illuminate surfaces particularly evenly and precisely right down to the last angle. Various light distributions offer flexibility in planning. Requirements can be easily determined.

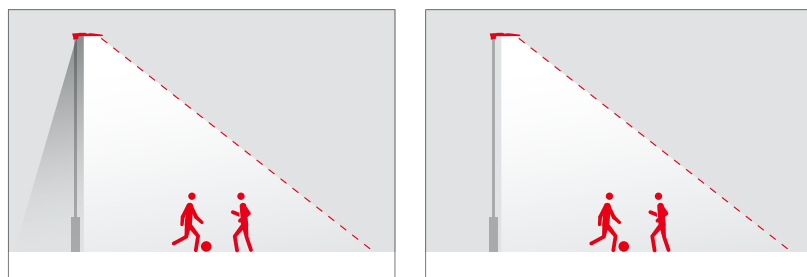
In addition, there are cost advantages as often fewer luminaires are required for a lighting task.



**Lighting design made simple**  
Different light distributions offer flexibility in lighting design. The requirements can be easily determined.

# The extra for quiet sleep in inner city areas.

Especially for urban sports fields with residential buildings in the direct vicinity, an additional equipment of the Floodlight 20 with an integrated screen is recommended. This also reduces the already small amount of scattered light. The guideline on light immissions of the Federal / State Working Group for Immission Control (LAI) can be implemented.



The Floodlight 20 can be equipped with an aperture that reduces the backward stray light to an absolute minimum.

# Modernization has never been so easy.

Our support makes your path to new lighting maximally simple. In a free lighting audit, we check your existing system and identify potential savings - in black and white thanks to detailed profitability calculations. Our experience shows: cost and energy savings of up to 70 % are the rule, not the exception. Public subsidy programmes and individual financing options through SITECO reduce the investment burden and please your treasurer. We are also happy to offer you holistic solutions, support you in planning and coordinate a smooth installation and commissioning.

**Spend less for much better light with SITECO floodlighting solutions.**

## Financing example for lighting

(8 year term)

	Old plant	New plant	
Luminaire type	8 x 2,000 W HQI	FL 20 maxi 948 W	
Energy consumption per year kWh	8,600	3,792	
Reduction of CO <sub>2</sub> emissions per year in t		-3	-56%
Operating costs lighting per year (incl. maintenance) €	2,750	948	
Annual rate €		1,375	
Total costs per year over financing period €	2,750	2,323	
Savings per year from day 1 €		-427	-16%
Savings per year after end of term €		-1.802	-66%

# Much better light and save money at the same time.

## The simple way to greater efficiency and a secure future:

Save with our individual financing solutions  
You from day 1 and play immediately under the best light.

- Save budget and earn money easily from day 1 thanks to flexible financing solution
- State-of-the-art lighting technology with over 145 lm/W for up to 70 % CO<sub>2</sub> - and energy savings
- Maximum future-proofing thanks to open standards for the applications of tomorrow
- Maximum convenience with turnkey solutions from consulting to commissioning





Project: Tobebanden  
Product: Floodlight 20

## Contact.

### **Siteco GmbH**

Georg-Simon-Ohm-Str. 50  
83301 Traunreut, Germany  
Tel. +49 8669 330  
info@siteco.com

[siteco.com](http://siteco.com)

### **Technical Support**

Tel. +49 8669 338 44  
technicalsupport@siteco.com