

**Schröder**  
Experts in lightability™

# FOCUS

## Sports lighting designs

The right light, where, when and how it is needed



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## A few of our projects





**Cédric Collard**  
Schröder Sports  
Segment Manager

## Staying connected with our body, mind and society in the digital era

Our society is evolving and our habits are changing. We are more and more connected and remote working is becoming more common. But moving and breathing is what makes us human and keeps us fit.

Physical activity is important and is recommended by the World Health Organisation. It is the best natural way to keep your body and your mind in shape.

By practising a sport I can challenge myself and socialise while playing with family, friends and new acquaintances. It helps clear the head and keep the mind sharp so we can succeed in our challenges.

Players, whether they play for fun or as a professional, wherever they play, indoor or outdoor and whenever they play, during the day or after work, deserve to do so in the best conditions.

LED technology has sufficiently evolved to deliver energy-efficient sports lighting that limits light spill and pollution.

Sports lighting can also entertain, creating a fun and exciting atmosphere. A well-designed sports lighting solution will also guarantee sharp, vivid images to capture nice moments on TV when our favourite team is scoring or on our phones when our kids are playing.

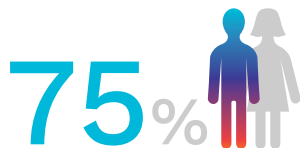


# Key facts and figures

The trend is here;  
**grab it or leave it!**



Average number of hours an employee works - this represents 7.42 hours per day



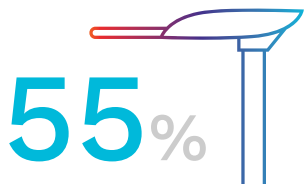
Percentage of EU population living in urban areas



Percentage of EU population practicing sports outside working hours

€ **910,000,000** 

Cost per year, for a population of 10 million people, when half of the population is insufficiently active



Average energy savings by replacing HID fixtures with LED floodlights

**1,694,100** 

Number of persons employed in the sports sector in Europe



# Regulations and standards

## EN 12193 for sports lighting

The European committee for standardisation has established a norm for sports lighting applications: the European Standard EN 12193. Its purpose is to enable a good quality sports lighting through recommendations and requirements. For each application, the norm defines:

### The minimum level of illuminance ( $E_{\text{average}}$ in lux [lx])

- Maximise visual perception

### The minimum level of light uniformity ( $U_0$ )

- Maximise visual comfort

### The maximum level of glare (GR or $R_g$ )

- Minimise discomfort

### The minimum colour rendering index (CRI or $R_a$ )

- Maximise real colour perception

## How does it work? For each sport



### Areas definition

- Principal area (playing area needed for the performance of a certain sport)
- Total area (additional safety area outside the principal area)

### Grid points definition

- For measurements and calculations
- To ensure that light performances are respected

### Class definition

- Class I = top-level competition (international, national, top level training)
- Class II = mid-level competition (regional, local, high level training)
- Class III = low-level competition (local, small club, training, school sports)



# Your benefits

## Best partner for **retrofits,** **new installations and maintenance**



### Sports clubs

- ✓ Energy savings
- ✓ High-quality facilities (attract new members and sponsors)
- ✓ Control solution and data monitoring
- ✓ Generate revenue (extend opening hours, more time spent in the bar & restaurant)
- ✓ Improve branding



### Cities

- ✓ Promote healthy and active lifestyles
- ✓ Sustainability, dark sky protection, and light pollution minimised
- ✓ Welcoming space
- ✓ Dynamic image
- ✓ Reduced cost of ownership



### Players

- ✓ Safety and high visual comfort when playing
- ✓ Boost interactions and atmosphere
- ✓ Improve the experience
- ✓ Heighten emotions
- ✓ Flexibility to play day and night



### Installers

- ✓ Easy & fast installation
- ✓ Safe set-up
- ✓ Simple planning and maintenance
- ✓ Futureproof (trouble-free upgrades & software updates)
- ✓ Compliant with regulations and certifications



# Schröder expertise and LED technology for outstanding sports lighting



## COMFORT

### High quantity of light

Up to 240,000 lumen per floodlight to enjoy every detail of the game

### High uniformity

Minimum of 70% to avoid dark zones

### Low glare

Maximum of 55 to not disturb players and spectators during the game

### Instant light

Control the luminaires physically via a power switch or remotely via a wireless control system



## RETURN ON INVESTMENT

### Low energy consumption

Up to 75% energy savings compared with HID lighting power consumption

### Huge lifetime

Above 50,000 hours = 34 years if the luminaires operate 4h per day

### Versatile control solutions

The right light where, when and how it is needed



## SUSTAINABILITY & RELIABILITY

### Low light pollution

Avoid disturbing the neighbourhood

### Dark sky compliant

Protect our skies, nature and animals

### 7 R&D offices around the world

Always developing cutting-edge technologies

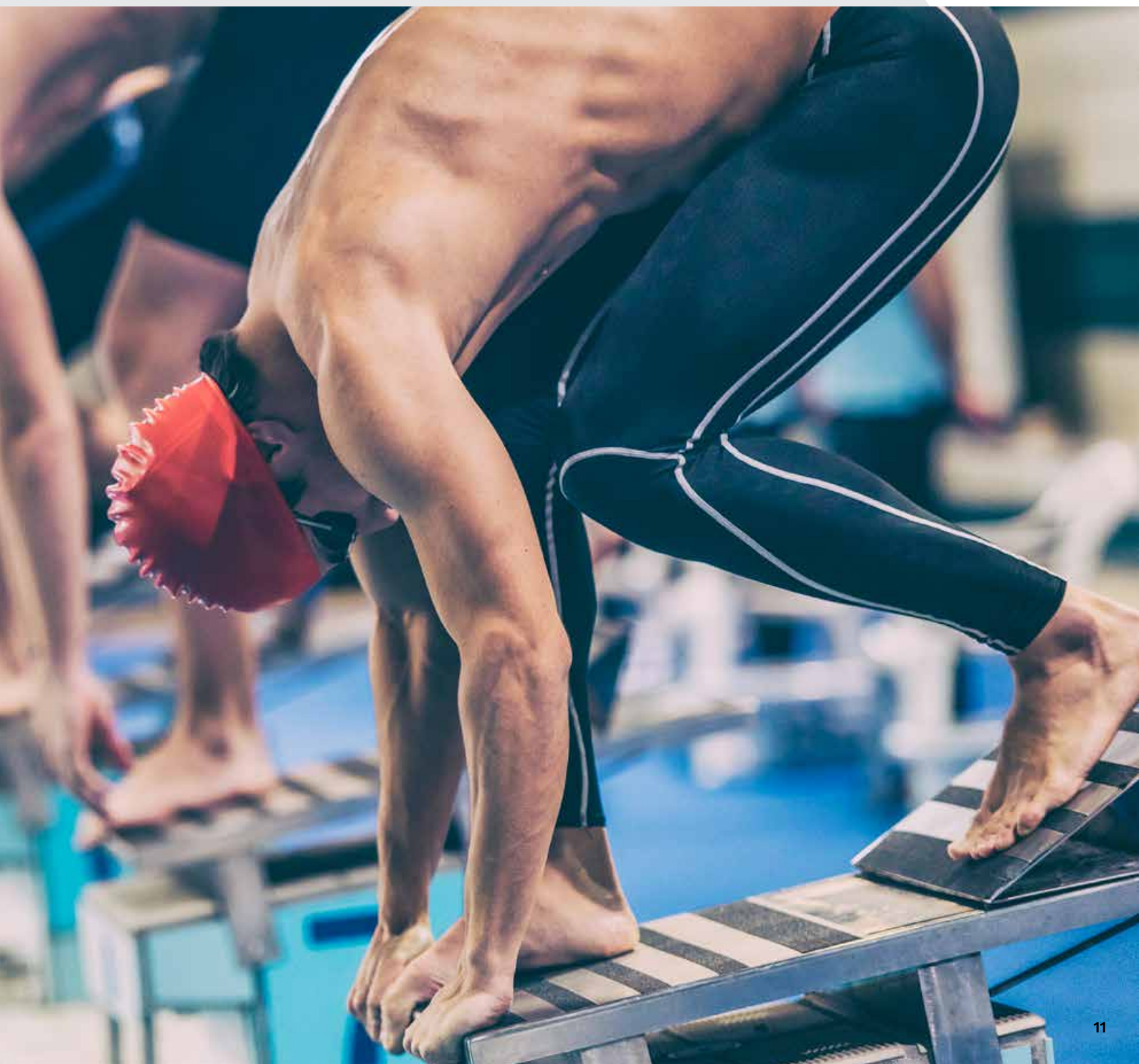
### Schröder process

Enjoy a personalised service from the audit to the installation and the commissioning

# Schröder solutions for sports facilities

12	Football field
18	Outdoor tennis court
26	Indoor tennis court
30	Multi-sports hall
36	Multi-sports ground
38	Padel court
42	Swimming pool
46	Rugby field
50	Other sports



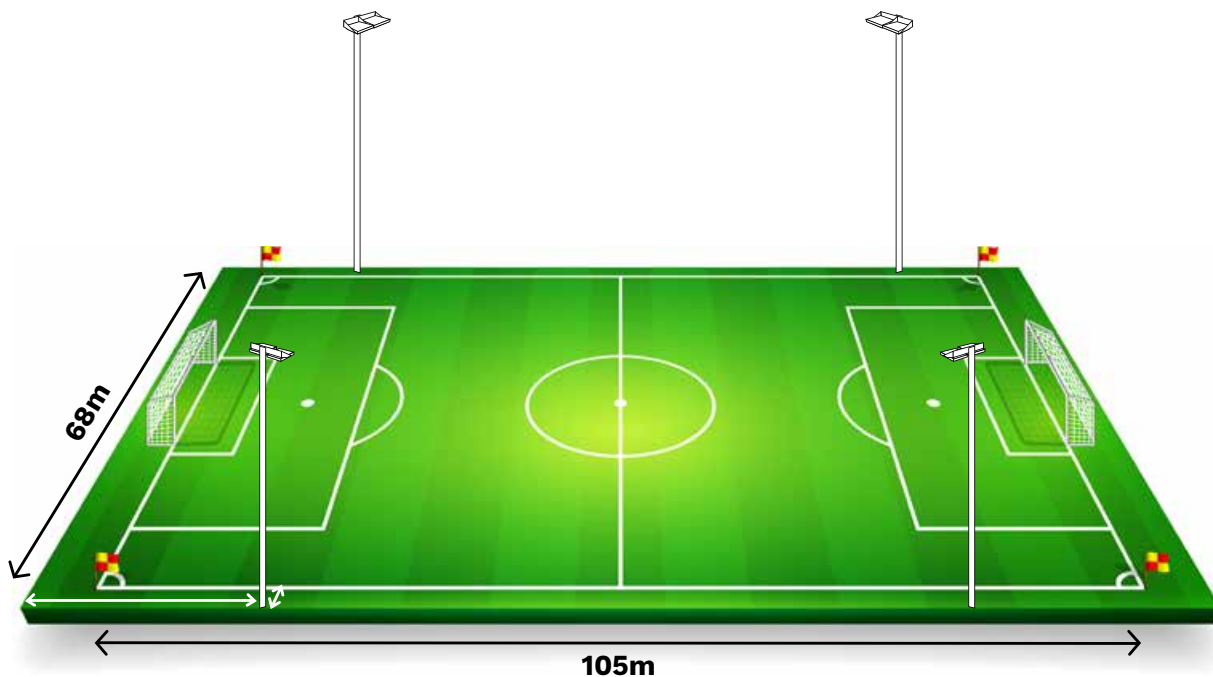


# Football field



# Football lighting solutions

## Masts in the corners (before the sideline)



### Principal area:

105x68m

### Grid points:

21x13 = 273pt

### Number of masts:

4

### Masts location:

x: 14m / y: -4m

### Maintenance factor:

0.9

	EN12193 Class I	EN12193 Class II	EN12193 Class III
ILLUMINANCE	500lx	200lx	75lx
UNIFORMITY	0.7	0.6	0.5
GLARE	55	55	55
CRI	70	60	60

# Football field

## SOLUTION CLASS I COMPLIANT

1

Professional  
500lux – 200lux – 75lux

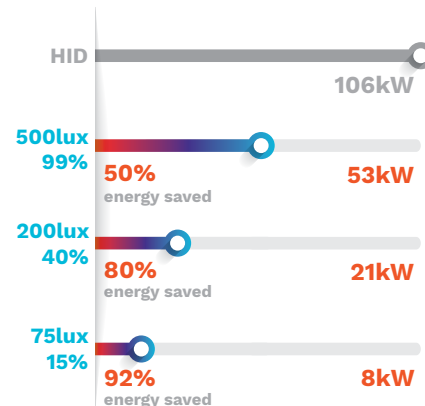
Mast height: 18m

### ECOBLAST 6



Initial flux	236,100lm
Colour temperature	4000K
Power	1,660W

	Nominal values
Illuminance	506lx
Uniformity	0.77
GR	<55
CRI	70
Total power	53,120W
Total number of floodlights	32
Floodlights per pole	8



Other configuration

OMNIBLAST GEN2



• technical versatility

## SOLUTION CLASS II COMPLIANT

2

Semi-professional  
200lux – 100lux – 75lux

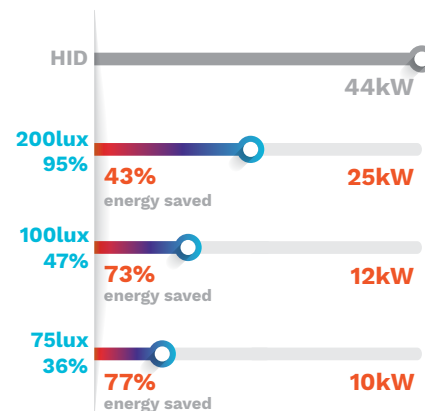
Mast height: 18m

### ECOBLAST 6



Initial flux	236,100lm
Colour temperature	4000K
Power	1,660W

	Nominal values
Illuminance	211lx
Uniformity	0.80
GR	<55
CRI	70
Total power	26,560W
Total number of floodlights	16
Floodlights per pole	4



Other configurations

OMNIBLAST GEN2



• technical versatility

OMNISTAR



• specific mountings

**SOLUTION**  
CLASS III  
COMPLIANT

3

Amateur  
100lux – 75lux

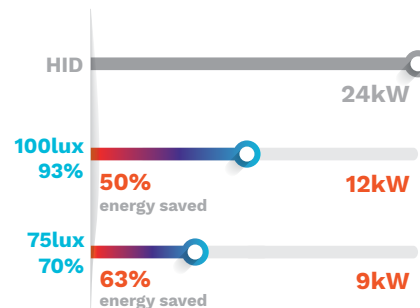
Mast height: 18m

**ECOBLAST 6**



Initial flux	236,100lm
Colour temperature	4000K
Power	1,660W

	Nominal values
Illuminance	107lx
Uniformity	0.74
GR	<55
CRI	70
Total power	13,280W
Total number of floodlights	8
Floodlights per pole	2



Other configurations

OMNIBLAST GEN2



• technical versatility

OMNISTAR



• specific mountings

**SOLUTION**  
CLASS III  
COMPLIANT

4

Amateur  
75lux

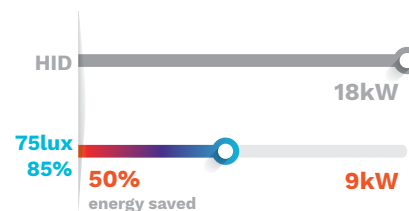
Mast height: 18m

**ECOBLAST 5**



Initial flux	196,800lm
Colour temperature	4000K
Power	1,385W

	Nominal values
Illuminance	88lx
Uniformity	0.74
GR	<55
CRI	70
Total power	11,080W
Total number of floodlights	8
Floodlights per pole	2



Other configurations

OMNIBLAST GEN2



• technical versatility

OMNISTAR

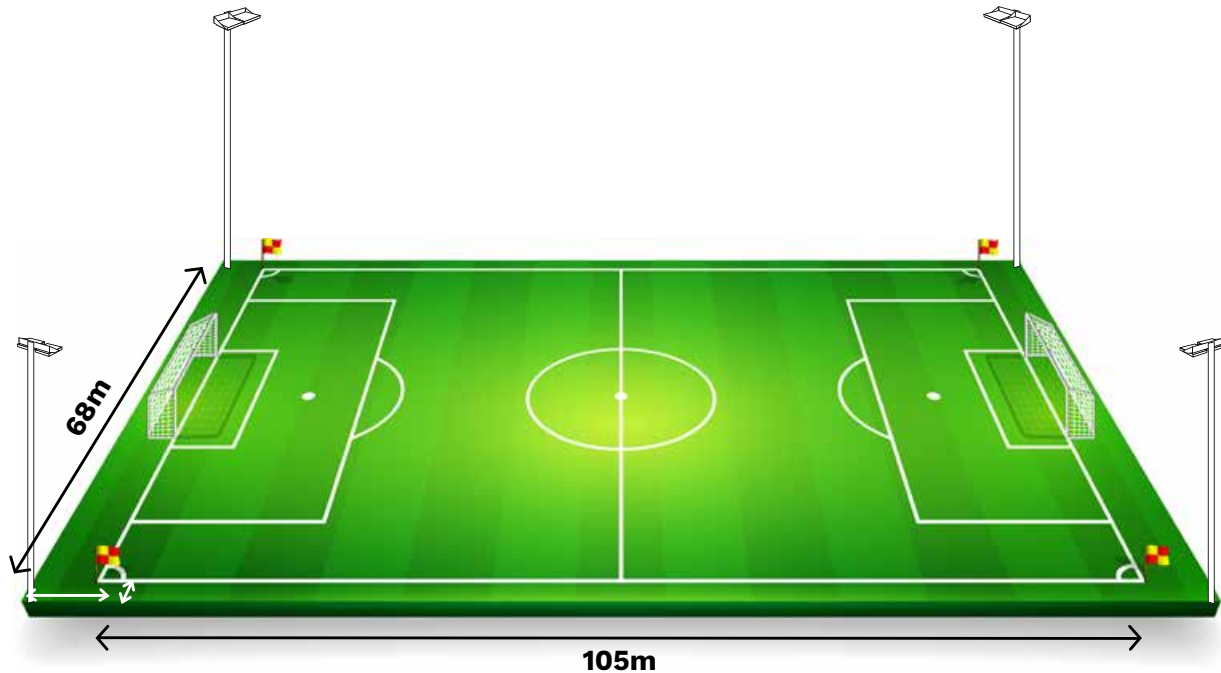


• specific mountings

# Football field

## Football lighting solutions

### Masts in the corners (behind the sideline)



#### Principal area:

105x68m

#### Grid points:

21x13 = 273pt

#### Number of masts:

4

#### Masts location:

x: -6.5m / y: -4m

#### Maintenance factor:

0.9

	EN12193 Class I	EN12193 Class II	EN12193 Class III
ILLUMINANCE	500lx	200lx	75lx
UNIFORMITY	0.7	0.6	0.5
GLARE	55	55	55
CRI	70	60	60



**SOLUTION**  
CLASS I  
COMPLIANT

5

Professional  
500lux – 200lux – 75lux

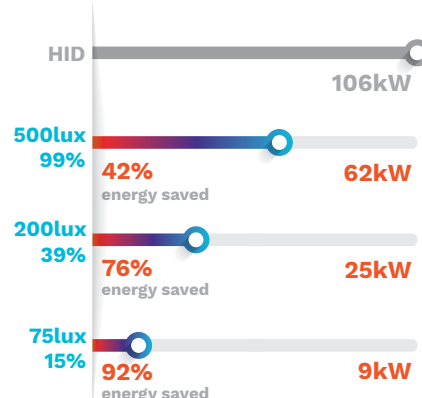
Mast height: 25m

**ECOBLAST 6**



Initial flux	236,100lm
Colour temperature	4000K
Power	1,660W

	Nominal values
Illuminance	507lx
Uniformity	0.89
GR	<55
CRI	70
Total power	63,100W
Total number of floodlights	40
Floodlights per pole	10



Other configuration

OMNIBLAST GEN2



• technical versatility

**SOLUTION**  
CLASS II  
COMPLIANT

6

Semi-professional  
200lux – 100lux – 75lux

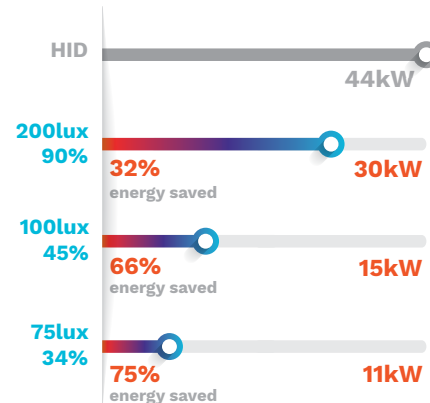
Mast height: 25m

**ECOBLAST 6**



Initial flux	236,100lm
Colour temperature	4000K
Power	1,660W

	Nominal values
Illuminance	223lx
Uniformity	0.83
GR	<55
CRI	70
Total power	33,200W
Total number of floodlights	20
Floodlights per pole	5



Other configurations

OMNIBLAST GEN2



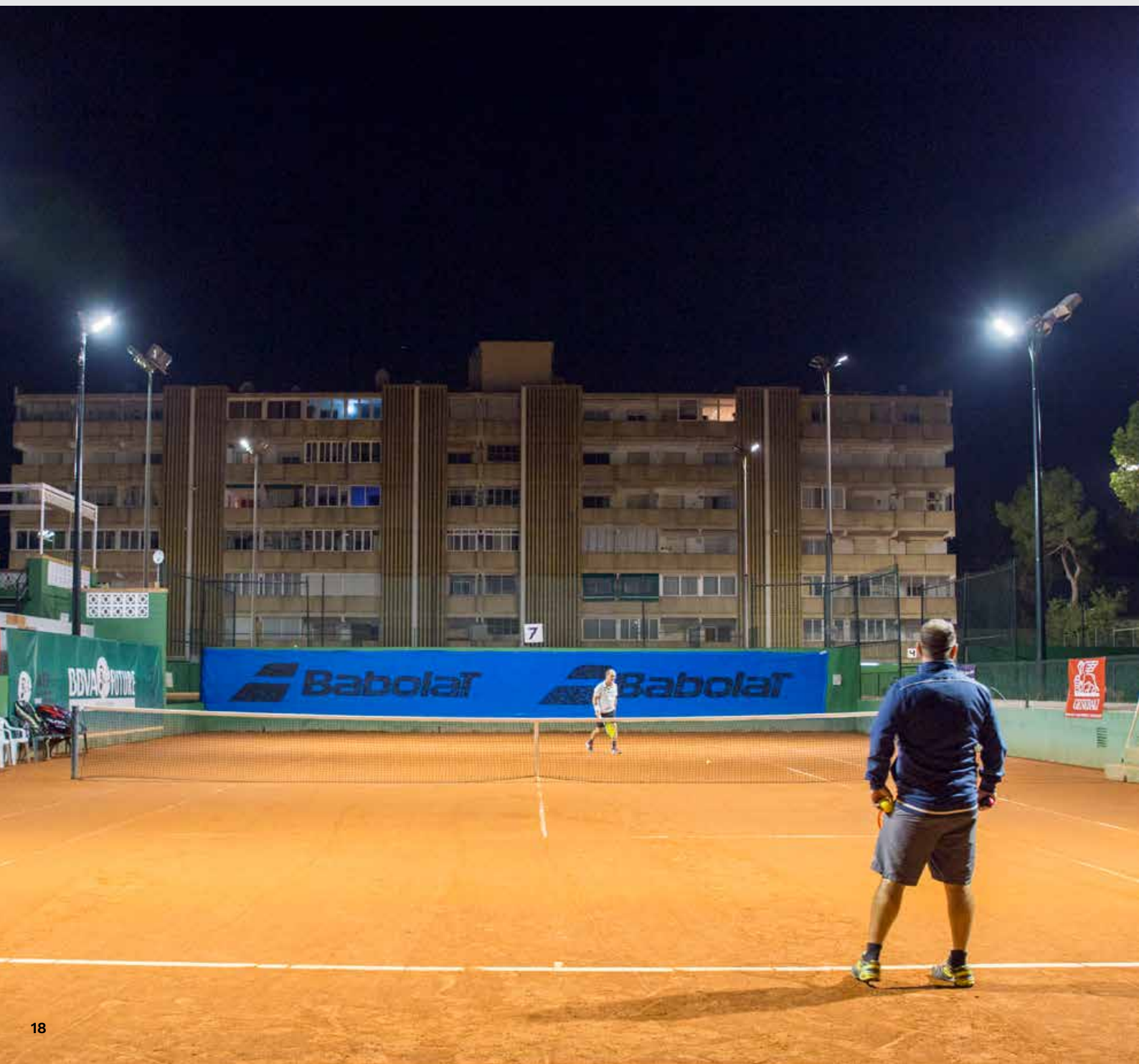
• technical versatility

OMNISTAR



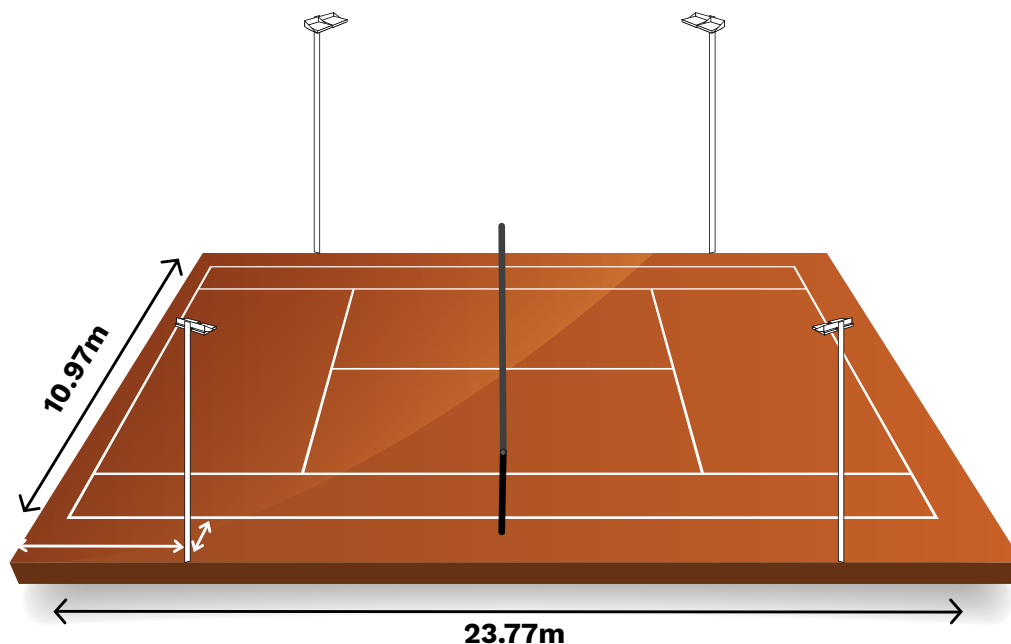
• specific mountings

# Outdoor tennis court



# Outdoor tennis lighting solutions

## Masts in the corners (before the baseline)



### Principal area:

30x15m

### Grid points:

13x7 = 91pt

### Number of masts:

4

### Masts location:

x: 4m / y: -4m

### Maintenance factor:

0.9

	EN12193 Class I	EN12193 Class II	EN12193 Class III
ILLUMINANCE	500lx	300lx	200lx
UNIFORMITY	0.7	0.7	0.6
GLARE	50	50	55
CRI	70	60	60

# Outdoor tennis court

## SOLUTION CLASS I COMPLIANT

1

Professional  
500lux – 300lux – 200lux

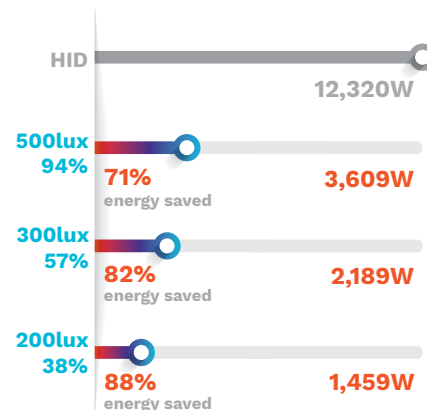
Mast height: 8m

### INDU FLOOD GEN2 3



Initial flux	58,000lm
Colour temperature	4000K
Power	320W

	Nominal values
Illuminance	530lx
Uniformity	0.80
GR	<50
CRI	70
Total power	3,840W
Total number of floodlights	12
Floodlights per pole	3



Other configurations

OMNIFLOOD



- technical versatility

OMNISTAR



- specific mountings
- remote driver

## SOLUTION CLASS II COMPLIANT

2

Semi-professional  
300lux – 200lux

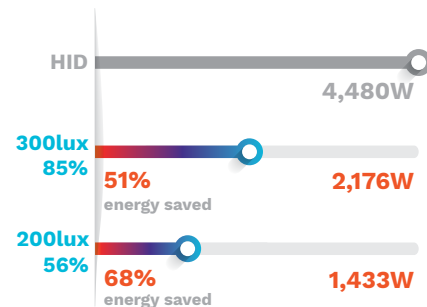
Mast height: 8m

### INDU FLOOD GEN2 3



Initial flux	58,000lm
Colour temperature	4000K
Power	320W

	Nominal values
Illuminance	354lx
Uniformity	0.79
GR	<50
CRI	70
Total power	2,560W
Total number of floodlights	8
Floodlights per pole	2



Other configurations

OMNIFLOOD



- technical versatility

OMNISTAR



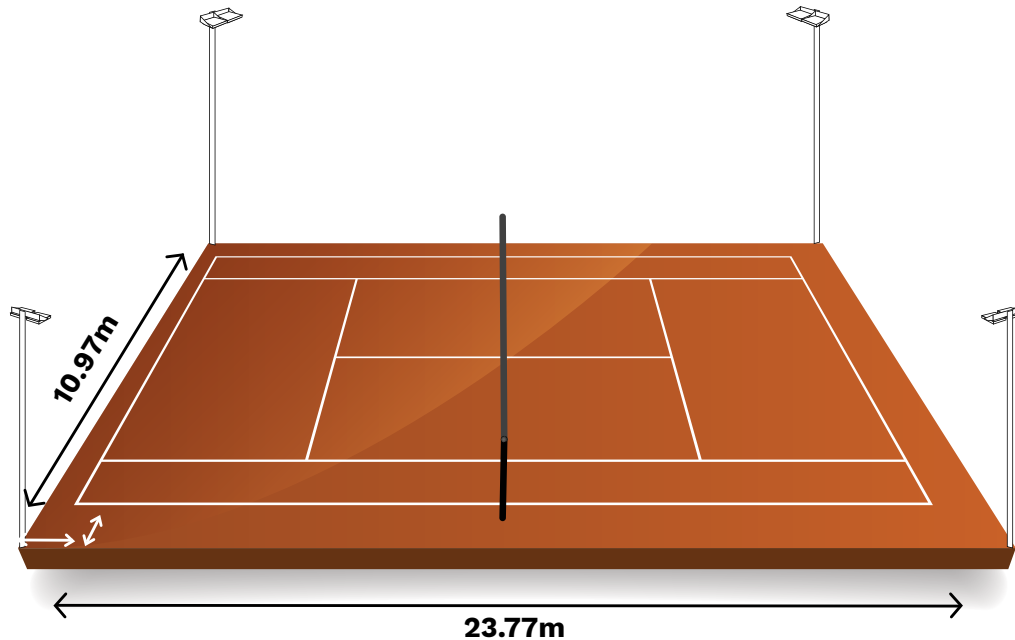
- specific mountings
- remote driver



# Outdoor tennis court

## Outdoor tennis lighting solutions

### Masts in the corners (behind the baseline)



#### Principal area:

30x15m

#### Grid points:

13x7 = 91pt

#### Number of masts:

4

#### Masts location:

x: -6m / y: -4m

#### Maintenance factor:

0.9

	EN12193 Class I	EN12193 Class II	EN12193 Class III
ILLUMINANCE	500lx	300lx	200lx
UNIFORMITY	0.7	0.7	0.6
GLARE	50	50	55
CRI	70	60	60

**SOLUTION**  
CLASS I  
COMPLIANT

3

Professional  
500lux – 300lux – 200lux

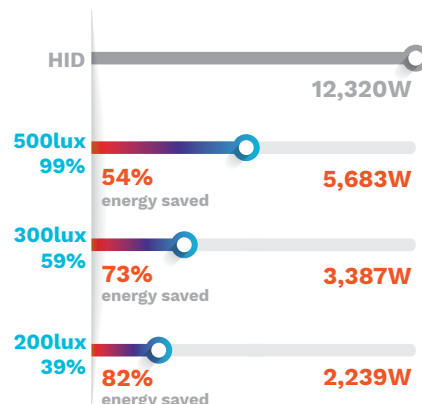
Mast height: 10m

**ECOBLAST 6**



Initial flux	215,200lm
Colour temperature	4000K
Power	1,435W

	Nominal values
Illuminance	507lx
Uniformity	0.82
GR	<50
CRI	70
Total power	5,740W
Total number of floodlights	4
Floodlights per pole	1



Other configurations

OMNISTAR



• specific mountings

INDUFLOOD GEN2



• higher lumen/watt

**SOLUTION**  
CLASS II  
COMPLIANT

4

Semi-professional  
300lux – 200lux

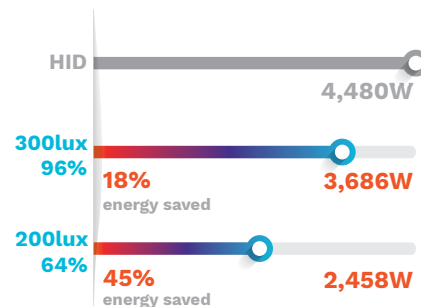
Mast height: 10m

**INDU FLOOD GEN2 3**



Initial flux	58,000lm
Colour temperature	4000K
Power	320W

	Nominal values
Illuminance	312lx
Uniformity	0.77
GR	<50
CRI	70
Total power	3,840W
Total number of floodlights	12
Floodlights per pole	3



Other configurations

OMNIFLOOD



• technical versatility

OMNISTAR

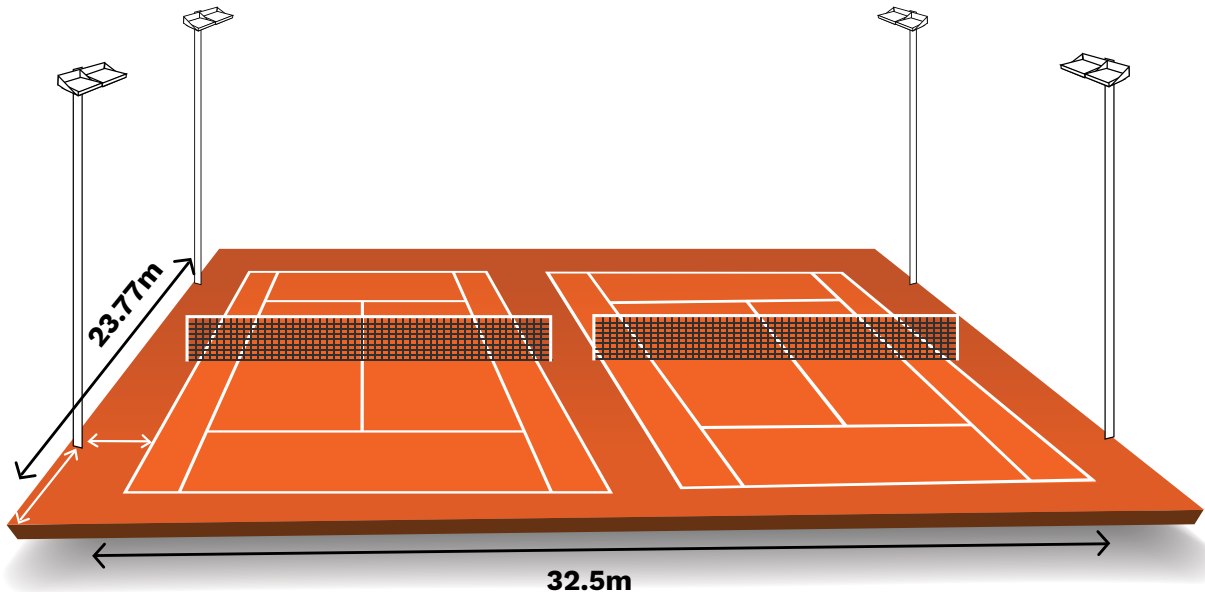


• specific mountings  
• remote driver

# Outdoor tennis court

## Outdoor tennis lighting solutions

### Masts in the corners (behind the baseline)



#### Principal area:

30x15m

#### Grid points:

13x7 = 91pt

#### Number of masts:

4

#### Masts location:

x: 4m / y: -4m

#### Maintenance factor:

0.9

	EN12193 Class I	EN12193 Class II	EN12193 Class III
ILLUMINANCE	500lx	300lx	200lx
UNIFORMITY	0.7	0.7	0.6
GLARE	50	50	55
CRI	70	60	60



**SOLUTION**  
CLASS II  
COMPLIANT

5

Semi-professional  
300lux – 200lux

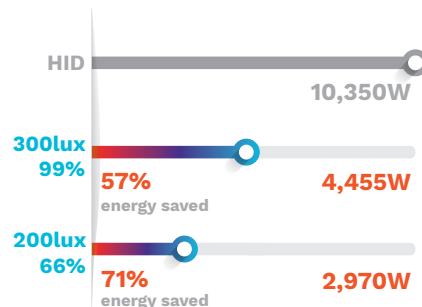
Mast height: 12m

**INDU FLOOD  
GEN2 3**



Initial flux	69,600lm
Colour temperature	4000K
Power	375W

	Nominal values
Illuminance	304lx
Uniformity	0.72
GR	<50
CRI	70
Total power	4,500W
Total number of floodlights	12
Floodlights per pole	3



Other configurations

OMNIFLOOD



- technical versatility

OMNISTAR



- specific mountings
- remote driver

**SOLUTION**  
CLASS III  
COMPLIANT

6

Amateur  
200lux

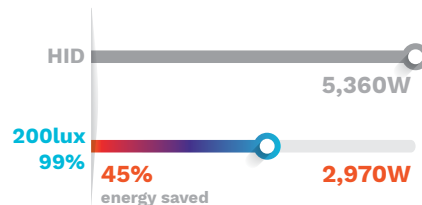
Mast height: 12m

**INDU FLOOD  
GEN2 3**



Initial flux	69,600lm
Colour temperature	4000K
Power	375W

	Nominal values
Illuminance	202lx
Uniformity	0.72
GR	<55
CRI	70
Total power	3,000W
Total number of floodlights	8
Floodlights per pole	2



Other configurations

OMNIFLOOD



- technical versatility

OMNISTAR



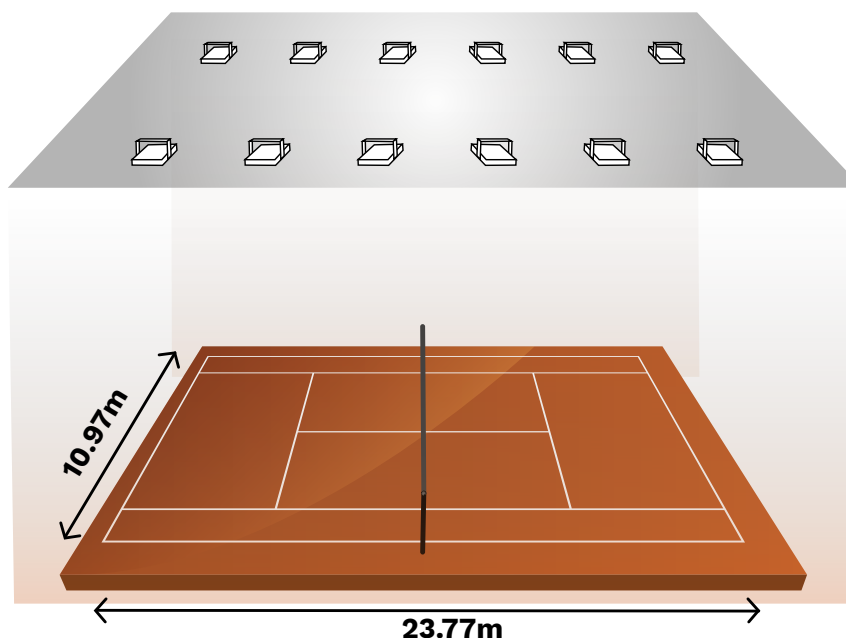
- specific mountings
- remote driver

# Indoor tennis court



# Indoor tennis lighting solutions

## Bilateral implantation



### Principal area:

30x15m

### Grid points:

13x7 = 91pt

### Implantation:

Bilateral

### Lateral distance between floodlights and tennis court:

3.5m

### Floodlights tilt:

5°

### Maintenance factor:

0.9

	EN12193 Class I	EN12193 Class II	EN12193 Class III
ILLUMINANCE	750lx	500lx	300lx
UNIFORMITY	0.7	0.7	0.5
GLARE	35	40	40
CRI	80	60	60

# Indoor tennis court

## SOLUTION CLASS I COMPLIANT

1

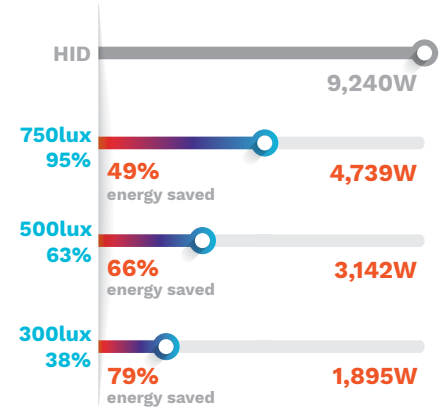
**Professional**  
750lux – 500lux – 300lux  
Installation height: 7m

### INDU FLOOD GEN2 3



Initial flux	65,300lm
Colour temperature	4000K
Power	375W

	Nominal values
Illuminance	789lx
Uniformity	0.76
GR	<35
CRI	80
Total power	4,988W
Total number of floodlights	14
Floodlights per side	7



Other configuration

OMNISTAR



- specific mountings
- remote driver

## SOLUTION CLASS II COMPLIANT

2

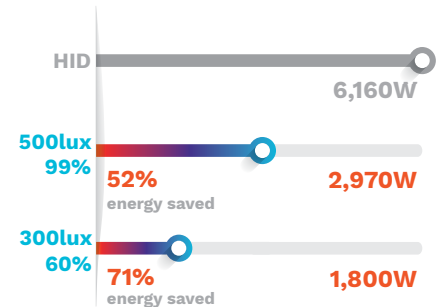
**Semi-professional**  
500lux – 300lux – 200lux  
Installation height: 7m

### INDU FLOOD GEN2 3



Initial flux	69,600lm
Colour temperature	4000K
Power	375W

	Nominal values
Illuminance	504lx
Uniformity	0.76
GR	<40
CRI	70
Total power	3,000W
Total number of floodlights	8
Floodlights per side	4



Other configuration

OMNISTAR



- specific mountings
- remote driver

**SOLUTION**  
 CLASS III  
 COMPLIANT

3

## Amateur

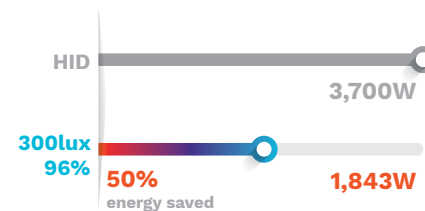
300lux – 200lux

Installation height: 7m

**INDU FLOOD  
 GEN2 3**


Initial flux	58,000lm
Colour temperature	4000K
Power	320W

	Nominal values
Illuminance	312lx
Uniformity	0.79
GR	<40
CRI	70
Total power	1,920W
Total number of floodlights	6
Floodlights per side	3


 Other  
 configuration

OMNISTAR



- specific mountings
- remote driver

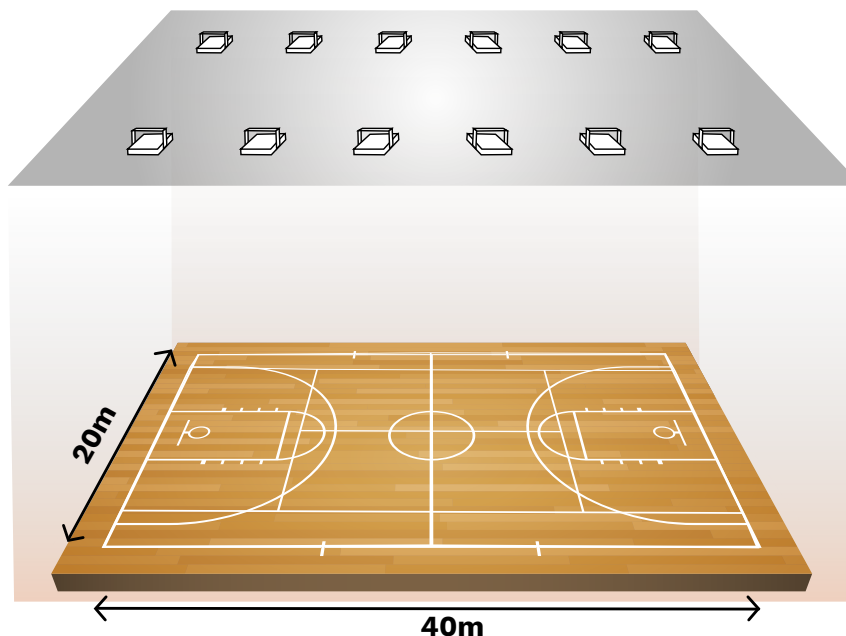


# Multi-sports hall



# Multi-sports hall lighting solutions

## Bilateral implantation



### Principal area:

40x20m

### Grid points:

15x7 = 105pt

### Implantation:

Bilateral

### Lateral distance between floodlights and field:

1m

### Floodlights tilt:

20°

### Maintenance factor:

0.9

	EN12193 Class I	EN12193 Class II	EN12193 Class III
ILLUMINANCE	750lx	500lx	200lx
UNIFORMITY	0.7	0.7	0.5
GLARE	35	40	40
CRI	80	60	60

# Multi-sports hall

## SOLUTION CLASS I COMPLIANT

1

Professional  
750lux – 500lux – 200lux

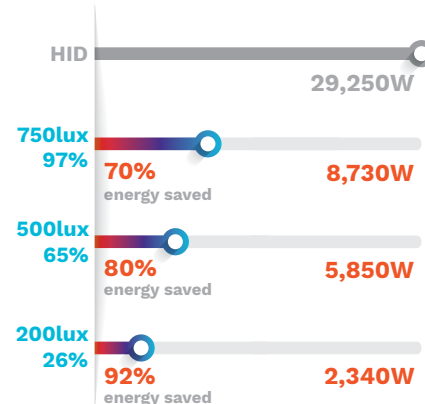
Installation height: 7m

### INDU FLOOD GEN2 3



Initial flux	65,300lm
Colour temperature	4000K
Power	375W

	Nominal values
Illuminance	772lx
Uniformity	0.73
GR	<35
CRI	80
Total power	9,000W
Total number of floodlights	24
Floodlights per side	12



Other configuration

OMNISTAR



- specific mountings
- remote driver

## SOLUTION CLASS II COMPLIANT

2

Semi-professional  
500lux – 300lux – 200lux

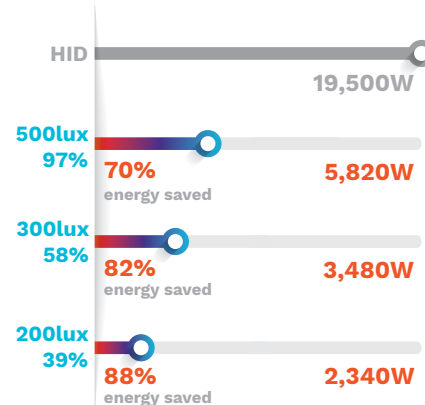
Installation height: 7m

### INDU FLOOD GEN2 3



Initial flux	69,600lm
Colour temperature	4000K
Power	375W

	Nominal values
Illuminance	514lx
Uniformity	0.84
GR	<40
CRI	70
Total power	6,000W
Total number of floodlights	16
Floodlights per side	8



Other configuration

OMNISTAR



- specific mountings
- remote driver



**SOLUTION**  
CLASS III  
COMPLIANT

3

Amateur  
300lux – 200lux

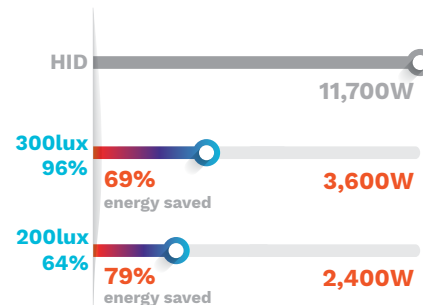
Installation height: 7m

**INDU FLOOD  
GEN2 3**



Initial flux	69,600lm
Colour temperature	4000K
Power	375W

	Nominal values
Illuminance	313lx
Uniformity	0.76
GR	<40
CRI	70
Total power	3,750W
Total number of floodlights	10
Floodlights per side	5



Other configuration

OMNISTAR



- specific mountings
- remote driver

**SOLUTION**  
CLASS III  
COMPLIANT

4

Amateur  
200lux

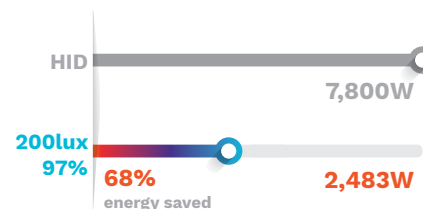
Installation height: 7m

**INDU FLOOD  
GEN2 3**



Initial flux	58,000lm
Colour temperature	4000K
Power	320W

	Nominal values
Illuminance	207lx
Uniformity	0.80
GR	<40
CRI	70
Total power	2,560W
Total number of floodlights	8
Floodlights per side	4



Other configuration

OMNISTAR

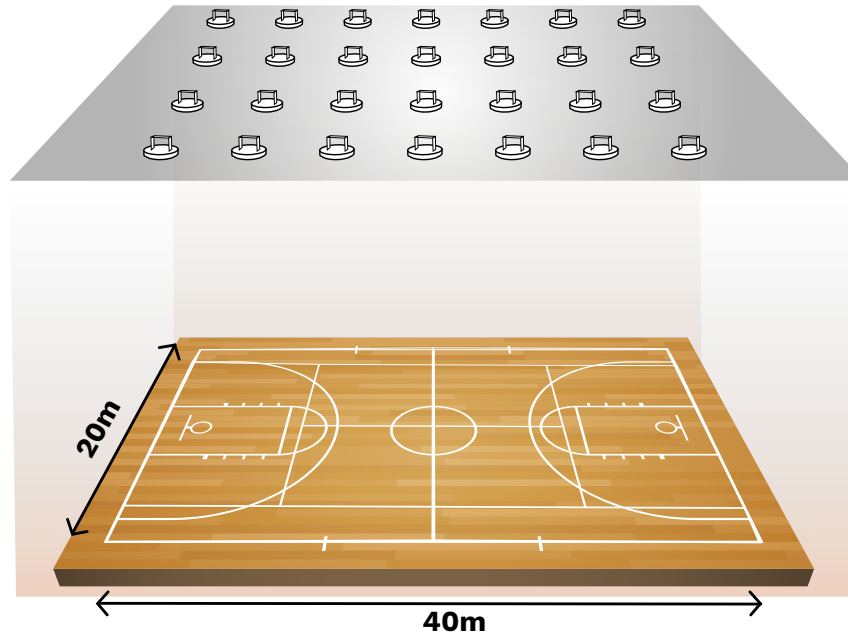


- specific mountings
- remote driver

# Multi-sports hall

## Multi-sports hall lighting solutions

### Industrial implantation



**Principal area:**

40x20m

**Grid points:**

15x7 = 105pt

**Implantation:**

Industrial

**Maintenance factor:**

0.9

	EN12193 Class I	EN12193 Class II	EN12193 Class III
ILLUMINANCE	750lx	500lx	200lx
UNIFORMITY	0.7	0.7	0.5
GLARE	35	40	40
CRI	80	60	60

**SOLUTION**  
CLASS II  
COMPLIANT

5

Semi-professional  
500lux – 300lux – 200lux

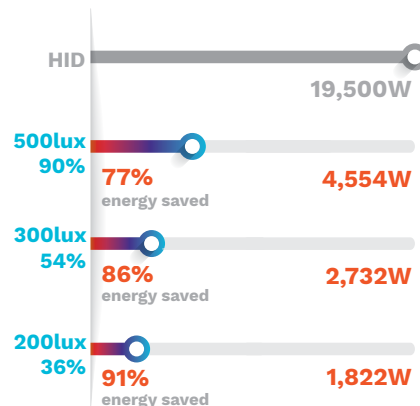
Installation height: 8m

**INDU BAY  
GEN3 1**



Initial flux	18,700lm
Colour temperature	4000K
Power	115W

	Nominal values
Illuminance	558lx
Uniformity	0.87
GR	<40
CRI	80
Total power	5,060W
Total number of high-bays	44
High-bays implantation	11x4



**SOLUTION**  
CLASS III  
COMPLIANT

6

Amateur  
200lux

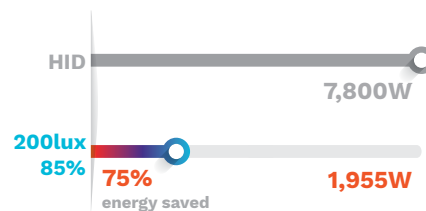
Installation height: 8m

**INDU BAY  
GEN3 1**



Initial flux	18,700lm
Colour temperature	4000K
Power	115W

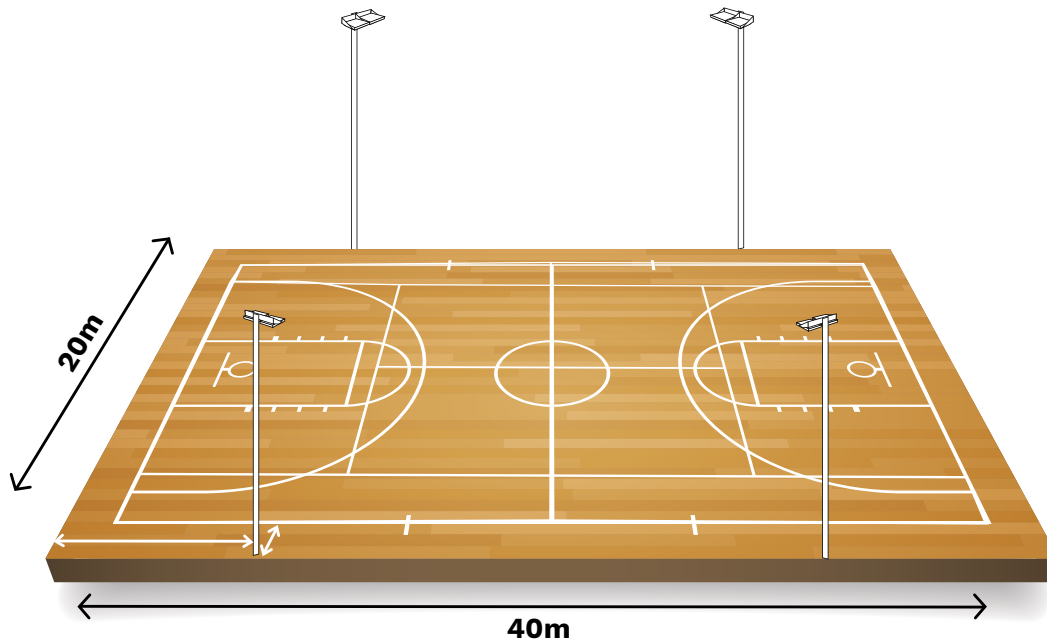
	Nominal values
Illuminance	236lx
Uniformity	0.75
GR	<40
CRI	80
Total power	2,300W
Total number of high-bays	20
High-bays implantation	5x4



# Multi-sports ground

## Multi-sports ground lighting solutions

### Masts in the corners (before the baseline)



#### Principal area:

40x20m

#### Grid points:

15x7 = 105pt

#### Number of masts:

4

#### Masts location:

x: 8m / y: -3m

#### Maintenance factor:

0.9

	EN12193 Class I	EN12193 Class II	EN12193 Class III
ILLUMINANCE	500lx	200lx	75lx
UNIFORMITY	0.7	0.6	0.5
GLARE	55	55	55
CRI	70	60	60

**SOLUTION**  
CLASS II  
COMPLIANT

7

Semi-professional  
200lux – 75lux

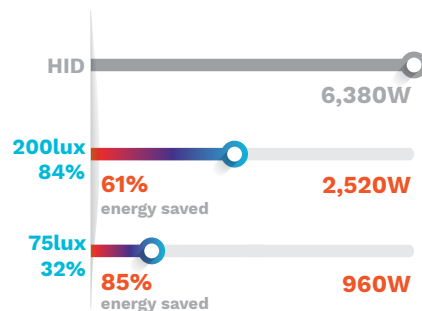
Mast height: 8m

**INDU FLOOD  
GEN2 3**



Initial flux	69,600lm
Colour temperature	4000K
Power	375W

	Nominal values
Illuminance	238lx
Uniformity	0.69
GR	<55
CRI	70
Total power	3,000W
Total number of floodlights	8
Floodlights per pole	2



Other configurations

OMNIFLOOD



- technical versatility

OMNISTAR



- specific mountings
- remote driver

**SOLUTION**  
CLASS III  
COMPLIANT

8

Amateur  
75lux

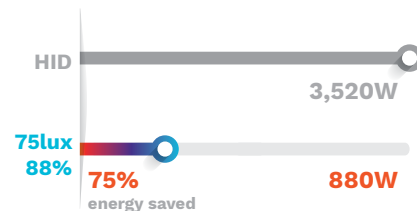
Mast height: 8m

**INDU FLOOD  
GEN2 3**



Initial flux	46,400lm
Colour temperature	4000K
Power	250W

	Nominal values
Illuminance	85lx
Uniformity	0.67
GR	<55
CRI	70
Total power	1,000W
Total number of floodlights	4
Floodlights per pole	1



Other configurations

OMNIFLOOD



- technical versatility

OMNISTAR



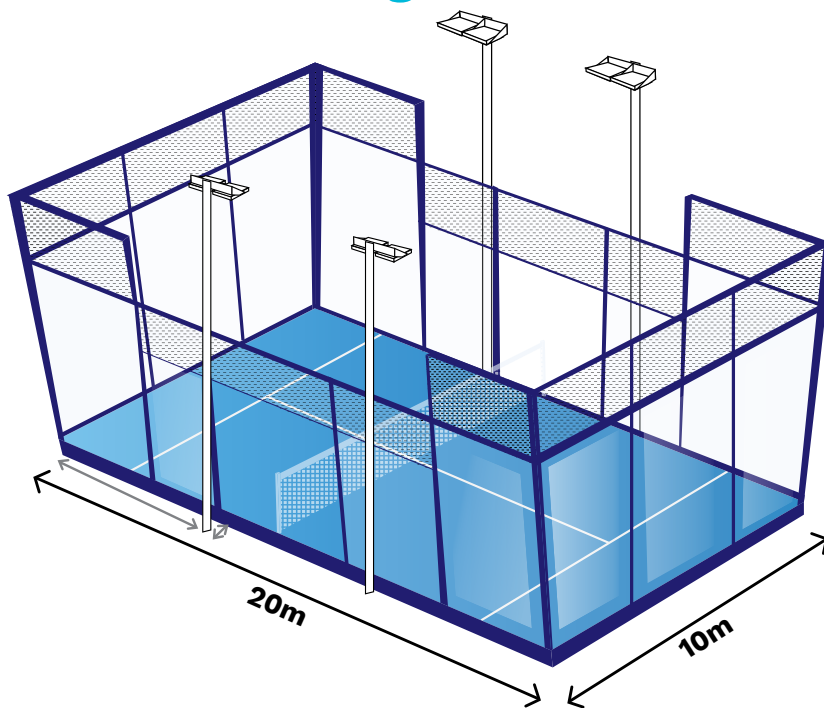
- specific mountings
- remote driver

# Padel court



# Padel lighting solutions

## Masts on / outside the cage



**Principal area:**

20x10m

**Grid points:**

13x7 = 91pt

**Number of masts:**

4

**Masts location:**

x: 4m / y: 0m

**Maintenance factor:**

0.9

### Indoor

	EN12193 Class I	EN12193 Class II	EN12193 Class III
ILLUMINANCE	750lx	500lx	300lx
UNIFORMITY	0.7	0.7	0.5
GLARE	35	40	40
CRI	80	60	60

### Outdoor

	EN12193 Class I	EN12193 Class II	EN12193 Class III
ILLUMINANCE	500lx	300lx	200lx
UNIFORMITY	0.7	0.7	0.6
GLARE	50	50	55
CRI	70	60	60

# Padel court

## SOLUTION

CLASS I  
(INDOOR)

1

### Professional

750lux – 500lux – 300lux

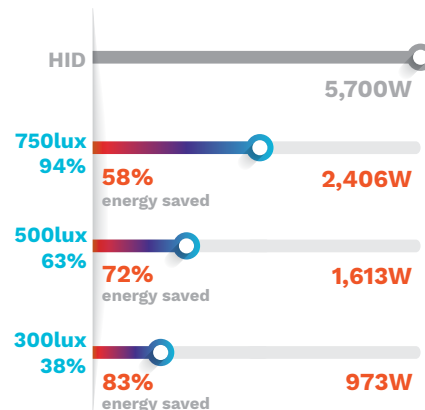
Mast height: 6m

### INDU FLOOD GEN2 3



Initial flux	54,400lm
Colour temperature	4000K
Power	320W

	Nominal values
Illuminance	797lx
Uniformity	0.76
GR	<35
CRI	80
Total power	2,560W
Total number of floodlights	8
Floodlights per pole	2



Other configurations

OMNIFLOOD



- technical versatility

OMNISTAR



- specific mountings
- remote driver

## SOLUTION

CLASS II (INDOOR)  
CLASS I (OUTDOOR)

2

### Pro & semi-pro

500lux – 300lux – 200lux

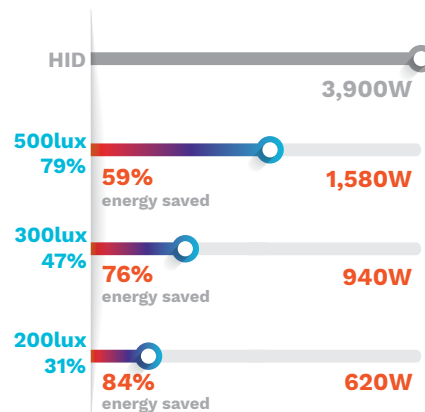
Mast height: 6m

### INDU FLOOD GEN2 3



Initial flux	46,400lm
Colour temperature	4000K
Power	250W

	Nominal values
Illuminance	635lx
Uniformity	0.78
GR	<40
CRI	70
Total power	2,000W
Total number of floodlights	8
Floodlights per pole	2



Other configurations

OMNIFLOOD



- technical versatility

OMNISTAR



- specific mountings
- remote driver



### SOLUTION

3

CLASS III (INDOOR)  
CLASS II (OUTDOOR)

Semi-pro & amateur

300lux – 200lux

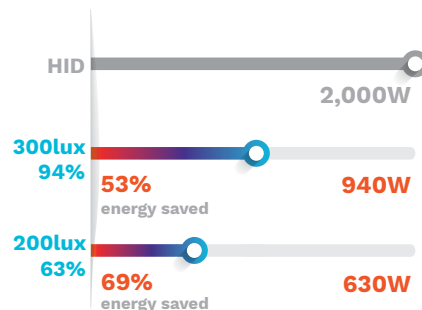
Mast height: 6m

#### INDU FLOOD GEN2 3



Initial flux	46,400lm
Colour temperature	4000K
Power	250W

	Nominal values
Illuminance	318lx
Uniformity	0.78
GR	<40
CRI	70
Total power	1,000W
Total number of floodlights	4
Floodlights per pole	1



Other configuration

OMNIFLOOD



• technical versatility

### SOLUTION

4

CLASS III  
(OUTDOOR)

Amateur

200lux

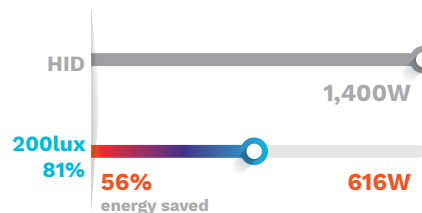
Mast height: 6m

#### INDU FLOOD GEN2 3



Initial flux	34,800lm
Colour temperature	4000K
Power	190W

	Nominal values
Illuminance	247lx
Uniformity	0.77
GR	<55
CRI	70
Total power	760W
Total number of floodlights	4
Floodlights per pole	1



Other configuration

OMNIFLOOD



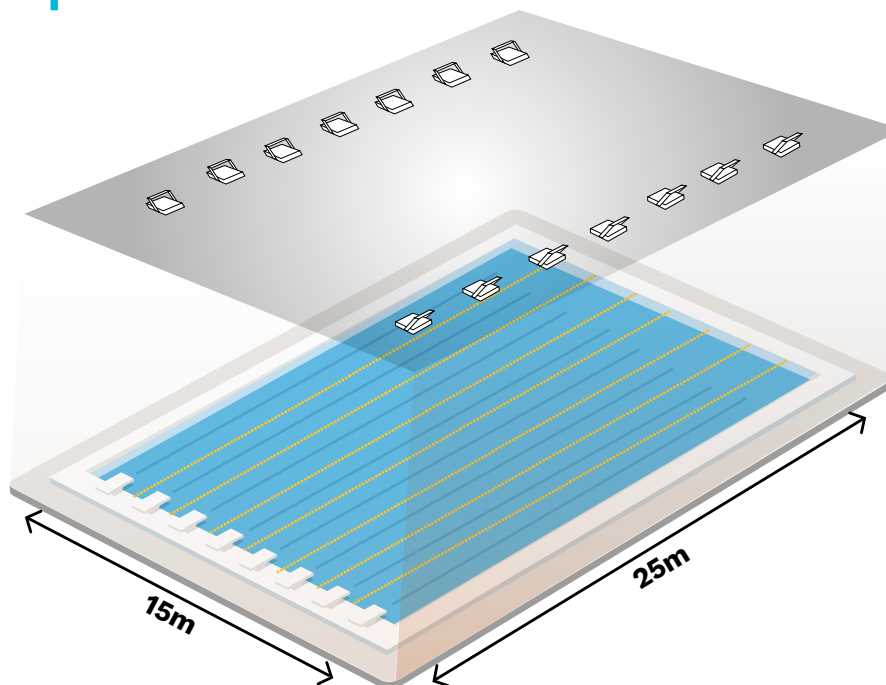
• technical versatility

# Swimming pool



# Swimming pool lighting solutions

## Bilateral implantation



### Principal area:

25x15m

### Grid points:

13x7 = 91pt

### Implantation:

Bilateral

### Lateral distance between floodlights and pool:

2m

### Maintenance factor:

0.9

	EN12193 Class I	EN12193 Class II	EN12193 Class III
ILLUMINANCE	500lx	300lx	200lx
UNIFORMITY	0.7	0.7	0.5
GLARE	35	40	40
CRI	80	60	60

# Swimming pool

## SOLUTION CLASS I COMPLIANT

1

Professional  
500lux – 300lux – 200lux

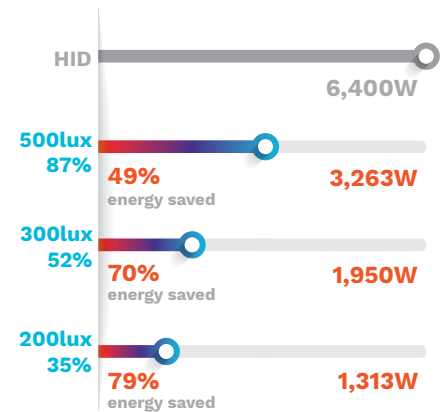
Installation height: 7m

### INDU FLOOD GEN2 3



Initial flux	65,300lm
Colour temperature	4000K
Power	375W

	Nominal values
Illuminance	572lx
Uniformity	0.75
GR	<35
CRI	80
Total power	3,750W
Total number of floodlights	10
Floodlights per side	5



Other configuration

OMNISTAR



- specific mountings
- Remote driver

## SOLUTION CLASS II COMPLIANT

2

Semi-professional  
300lux – 200lux

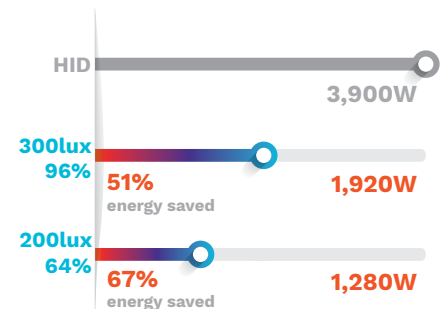
Installation height: 7m

### INDU FLOOD GEN2 3



Initial flux	46,400lm
Colour temperature	4000K
Power	250W

	Nominal values
Illuminance	313lx
Uniformity	0.79
GR	<40
CRI	70
Total power	2,000W
Total number of floodlights	8
Floodlights per side	4



Other configuration

OMNISTAR



- specific mountings
- Remote driver

**SOLUTION**  
CLASS III  
COMPLIANT

3

Amateur  
200lux

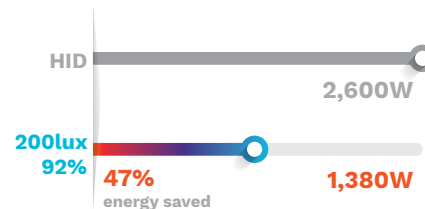
Installation height: 7m

**INDU FLOOD  
GEN2 3**



Initial flux	46,400lm
Colour temperature	4000K
Power	250W

	Nominal values
Illuminance	217lx
Uniformity	0.88
GR	<40
CRI	70
Total power	1,500W
Total number of floodlights	6
Floodlights per side	3



Other configuration

OMNISTAR



- specific mountings
- Remote driver

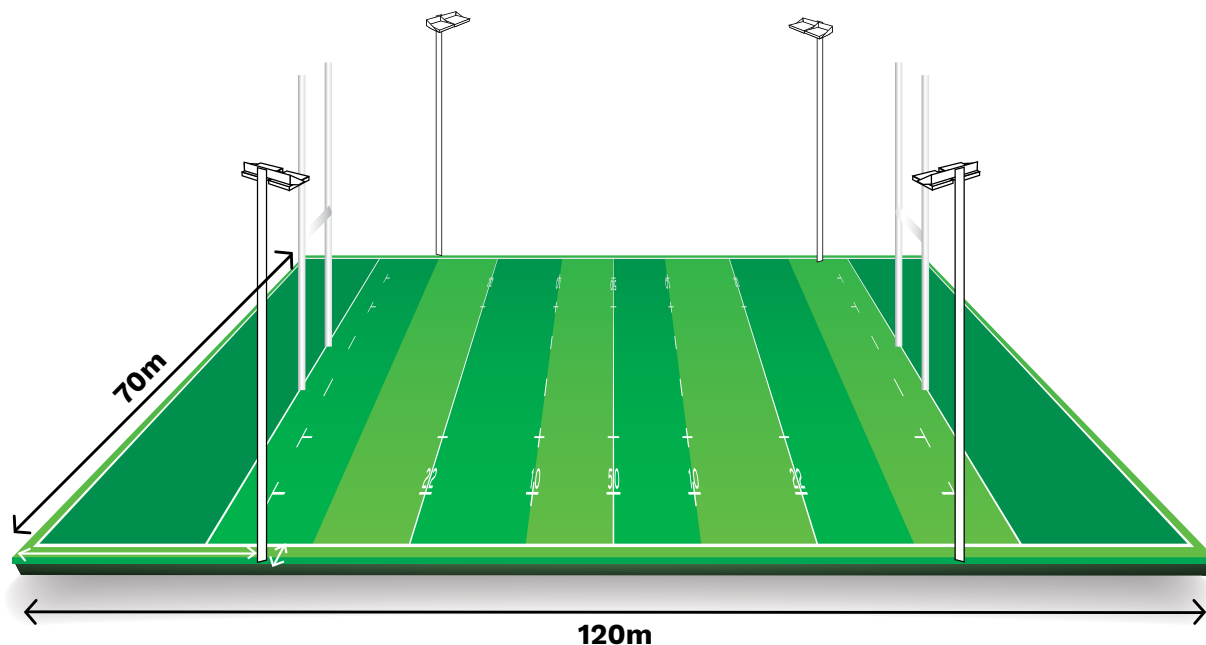


# Rugby field



# Rugby lighting solutions

## Masts in the corners (before the dead ball line)



### Principal area:

120x70m

### Grid points:

23x11 = 253pt

### Number of masts:

4

### Masts location:

x: 14m / y: -4m

### Maintenance factor:

0.9

	EN12193 Class I	EN12193 Class II	EN12193 Class III
ILLUMINANCE	500lx	200lx	75lx
UNIFORMITY	0.7	0.6	0.5
GLARE	55	55	55
CRI	70	60	60

# Rugby field

## SOLUTION CLASS I COMPLIANT

1

Professional  
500lux – 200lux – 75lux

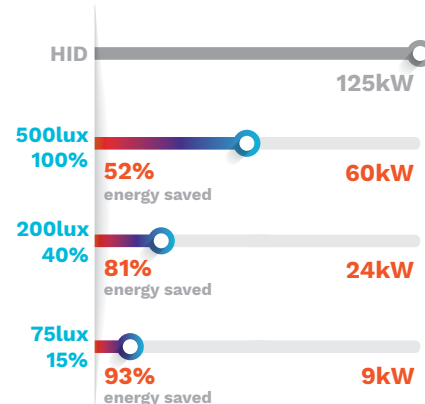
Mast height: 18m

### ECOBLAST 6



Initial flux	236,100lm
Colour temperature	4000K
Power	1,660W

	Nominal values
Illuminance	502lx
Uniformity	0.74
GR	<55
CRI	70
Total power	59,760W
Total number of floodlights	36
Floodlights per pole	9



Other configuration

OMNIBLAST GEN2



• technical versatility

## SOLUTION CLASS II COMPLIANT

2

Semi-professional  
200lux – 100lux – 75lux

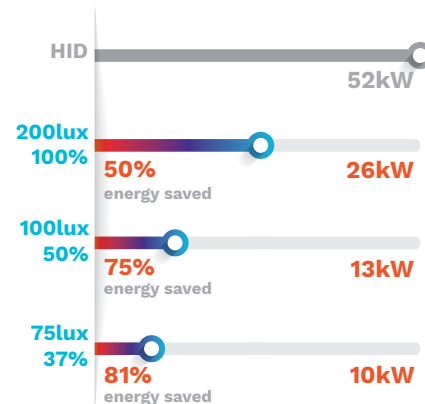
Mast height: 18m

### ECOBLAST 6



Initial flux	236,100lm
Colour temperature	4000K
Power	1,660W

	Nominal values
Illuminance	201lx
Uniformity	0.78
GR	<55
CRI	70
Total power	26,560W
Total number of floodlights	16
Floodlights per pole	4



Other configurations

OMNIBLAST GEN2



• technical versatility

OMNISTAR



• specific mountings



## SOLUTION

CLASS III  
COMPLIANT

3

Amateur  
75lux

Mast height: 18m

### ECOBLAST 5

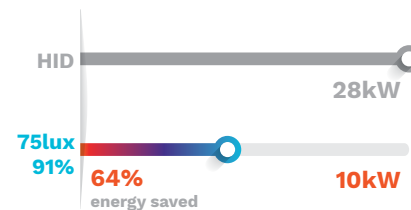


Initial flux 196,800lm

Colour temperature 4000K

Power 1,385W

	Nominal values
Illuminance	82lx
Uniformity	0.70
GR	<55
CRI	70
Total power	11,080W
Total number of floodlights	8
Floodlights per pole	2



#### Other configurations

##### OMNIBLAST GEN2



- technical versatility

##### OMNISTAR



- specific mountings



# Other sports





**Athleticism**



**Ice  
Hockey**



**Firing range**



**Hockey**

# Control solutions

The right light, **where, when** and **how** it is needed

**Schröder**  
**ITERRA**

Schröder provides a full range of intelligent control solutions to ensure comfort and an effective energy management. This includes dimming, scheduling, monitoring and the creation of dynamic lighting scenarios to entertain fans. All of our floodlights and luminaires are designed to be controlled wirelessly or via cables in outdoor and indoor environments.



## Schröder ITERRA

	BASIC	CORE	ACTIVE	
<b>GENERAL</b>	Flexible, easy & straightforward	✓	✓	✓
	Cost-effective	✓	✓	✓
	Increased lifetime of luminaires	✓	✓	✓
	Easy to install	✓	✓	✓
	Easy to manage	✓	✓	✓
	Easy to monitor	✓	✓	✓
	Scalable & futureproof	✓	✓	✓
	Open standards & protocols	✓	✓	✓
<b>CONNECTIVITY</b>	<b>Wireless</b>			
	• DALI Bluetooth (BLE5.0 mesh network – up to 200m or Gateway)	✓	✓	
	• DMX			✓
	<b>Wired</b>			
	• DALI	✓	✓	
	• DMX			✓
	Software trigger	✓	✓	✓
	Manual trigger	✓	✓	✓
	Scheduling and sensors		✓	✓
	SMS control		✓	✓
	Physical box with code/token		✓	✓
	Complex integration (≠ type of field, outdoor + indoor, wired + wireless)		✓	✓
<b>DATA</b>	Data monitoring	✓	✓	✓
	Cloud access	✓	✓	✓
	Secured protocols	✓	✓	✓
<b>CAPABILITIES</b>	Dimming	✓	✓	✓
	Scenes creation	✓	✓	✓
	Custom request		✓	✓
	Entertainment & show			✓
	RGBW			✓
	Colour temperature			✓
	Music synchronisation			✓

# Product overview



## ECOBLAST

ECOBLAST is a new innovative modular floodlight that has been designed to offer an outstanding combination of performance and flexibility for lighting sports venues where high lumen packages and a perfect control of light are needed.

	3	4	5	6
Typical luminaire output flux (range)	Up to 104,700lm	Up to 139,600lm	Up to 174,500lm	Up to 209,400lm
LM/W	Up to 113lm/W			
Power consumption	Up to 930W	Up to 1,240W	Up to 1,550W	Up to 1,850W
Colour temperature	3000K / 4000K / 5700K			
CRI	70 / 80 / 90			
Nominal voltage	220-400V / 277V / 347V / 50-60Hz			
Ta	Up to 45°C			
CxS	Up to 0.297			
In-rush current	5A			

	3	4	5	6
A	696 mm			
B	583mm	765mm		
C	360mm	346mm		
	19kg	24kg	28kg	31kg

\*Weight without driver



## OMNIBLAST GEN2

OMNIBLAST GEN2 is the ideal tool for sports venues and other large area applications that require a lighting solution with the highest efficiency and flexibility to adapt to the different lighting needs.

	1	2	3
Typical luminaire output flux (range)	Up to 64,800lm	Up to 129,700lm	Up to 194,600lm
LM/W	Up to 105lm/W	Up to 108lm/W	Up to 105lm/W
Power consumption	Up to 618W	Up to 1,202W	Up to 1,856W
Colour temperature	3000K / 4000K / 5700K		
CRI	70 / 80 / 90		
Nominal voltage	220-400V / 120-277V / 347-480V / 50-60Hz		
Ta	Up to 55°C		
CxS	Up to 0.554		
In-rush current	5A		

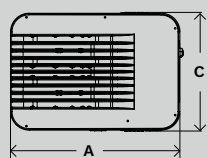
	1	2	3
A	595mm	700mm	
B	188mm	630mm	
C	250mm	520mm	790mm
	12kg	28kg	35kg



# OMNIFLOOD

OMNIFLOOD is the ideal versatile tool to replace floodlights equipped with traditional discharge lamps of 50 to 400W

	1	3
Typical luminaire output flux (range)	Up to 5,300lm	Up to 25,100lm
LM/W	Up to 122lm/W	Up to 135lm/W
Power consumption	Up to 53W	Up to 227W
Colour temperature	3000K / 4000K	
CRI	70	
Nominal voltage	220-240V / 50-60Hz	
Ta	Up to 55°C	
CxS	Up to 0.349	
In-rush current	170A	



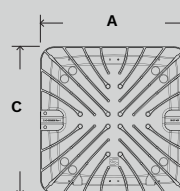
	1	3
<b>A</b>	500mm	546mm
<b>B</b>	72mm	88mm
<b>C</b>	311mm	475mm
<b>KG</b>	9kg	18.4kg



# OMNISTAR

OMNISTAR is a versatile LED floodlight that provides a beneficial replacement for a full range of HID lighting fixtures in a variety of indoor and outdoor sports applications.

	MONO
Typical luminaire output flux (range)	Up to 67,800lm
LM/W	Up to 160lm/W
Power consumption	Up to 532W
Colour temperature	3000K / 4000K / 5700K
CRI	70 / 80 / 90
Nominal voltage	220-400V / 120-277V / 347-480V / 50-60Hz
Ta	Up to 55°C
CxS	Up to 0.260
In-rush current	150A



<b>A</b>	532mm
<b>B</b>	80mm
<b>C</b>	530mm
<b>KG</b>	14kg



# Product overview



## INDU BAY GEN3

With the 3<sup>rd</sup> generation INDU BAY GEN3, Schröder offers the leading luminaire for high-bay environments with a minimised total cost of ownership.

	1	2
Typical luminaire output flux (range)	Up to 21,100lm	Up to 32,100lm
LM/W	Up to 151lm/W	Up to 153lm/W
Power consumption	Up to 140W	Up to 210W
Colour temperature	4000K / 5700K	
CRI	80	
Nominal voltage	220-240V / 50-60Hz	
Ta	Up to 50°C	
In-rush current	65A	

	1	1 HT	2
<b>A</b>	330mm	330mm	400mm
<b>B</b>	124mm	338mm	136mm
<b>C</b>	330mm	330mm	400mm
<b>KG</b>	4.5kg	5.6kg	6.8kg



## INDU FLOOD GEN2

INDU FLOOD GEN2 is an innovative floodlight that combines outstanding lumen output and low consumption. Schröder provides here the leading luminaire in terms of lumen per watt.

	1	2	3
Typical luminaire output flux (range)	Up to 10,000lm	Up to 30,400lm	Up to 60,900lm
LM/W	Up to 161lm/W	Up to 162lm/W	Up to 162lm/W
Power consumption	Up to 63W	Up to 190W	Up to 375W
Colour temperature	3000K / 4000K		
CRI	70 / 80		
Nominal voltage	220-400V / 120-277V / 347-480V / 50-60Hz		
Ta	Up to 50°C		
CxS	Up to 0.392		
In-rush current	55A	110A	140A

	1	2	3
<b>A</b>	390mm	492mm	622mm
<b>B</b>	77mm	77mm	90mm
<b>C</b>	321mm	421mm	521mm
<b>KG</b>	5.6kg	8.8kg	16.8kg





# Product overview

The ideal solutions for your **sports environments**



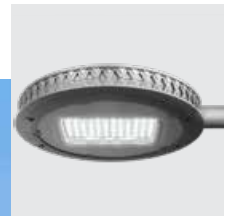
IZYLUM



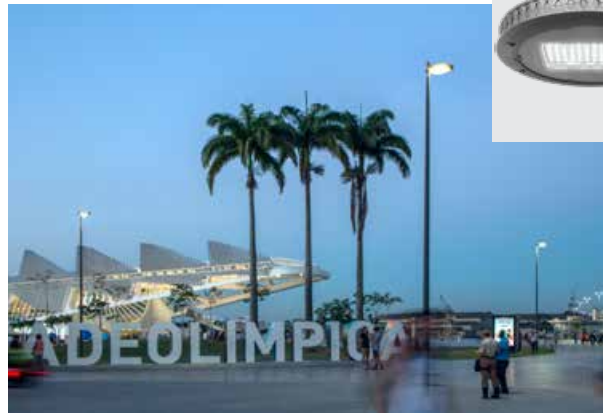
HAPILED



TECEO



YOA





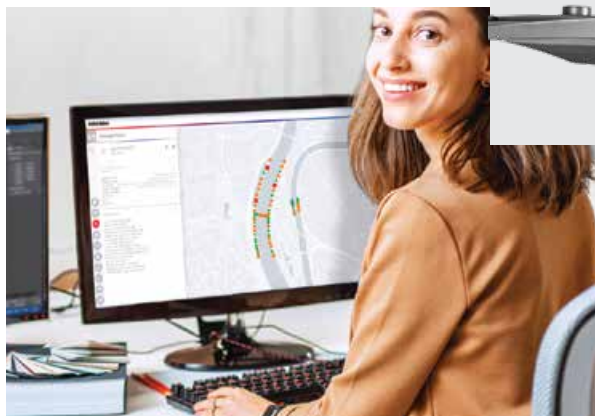
PIANO



FLEXIA



SHUFFLE



Schröder  
EXEDRA

# A few of our projects



Cape Town (South Africa) - Product: OMNIBLAST-E



MTK Stadium - Budapest (Hungary) - Product: OMNIBLAST GEN2



Avenches (Switzerland) - Product: OMNIBLAST GEN2



Aegerten (Switzerland) - Product: OMNIBLAST GEN2



Laval (Canada) - Product: OMNISTAR



Avenches (Switzerland) - Product: OMNISTAR

# A few of our projects



Palais des Sports - Besançon (France) - Product: OMNIBLAST GEN2



Pan American Games - Lima (Peru) - Product: OMNISTAR



Alcochete (Portugal) - Product: INDU BAY GEN3



Sint-Truiden (Belgium) - Product: HID



Montegrano (Italy) - Product: INDU BAY GEN3



Portet-sur-Garonne (France) - Product: OMNIBLAST GEN2

# A few of our projects



Green Point Athletics Stadium - Cape Town (South Africa) - OMNIBLAST-E



Réunion Island (France) - Product: OMNISTAR





Ans (Belgium) - Product: OMNISTAR



Biscay (Spain) - Product: OMNISTAR



Kyiv (Ukraine) - Product: OMNIBLAST GEN2

# Schröder

Experts in lightability™



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