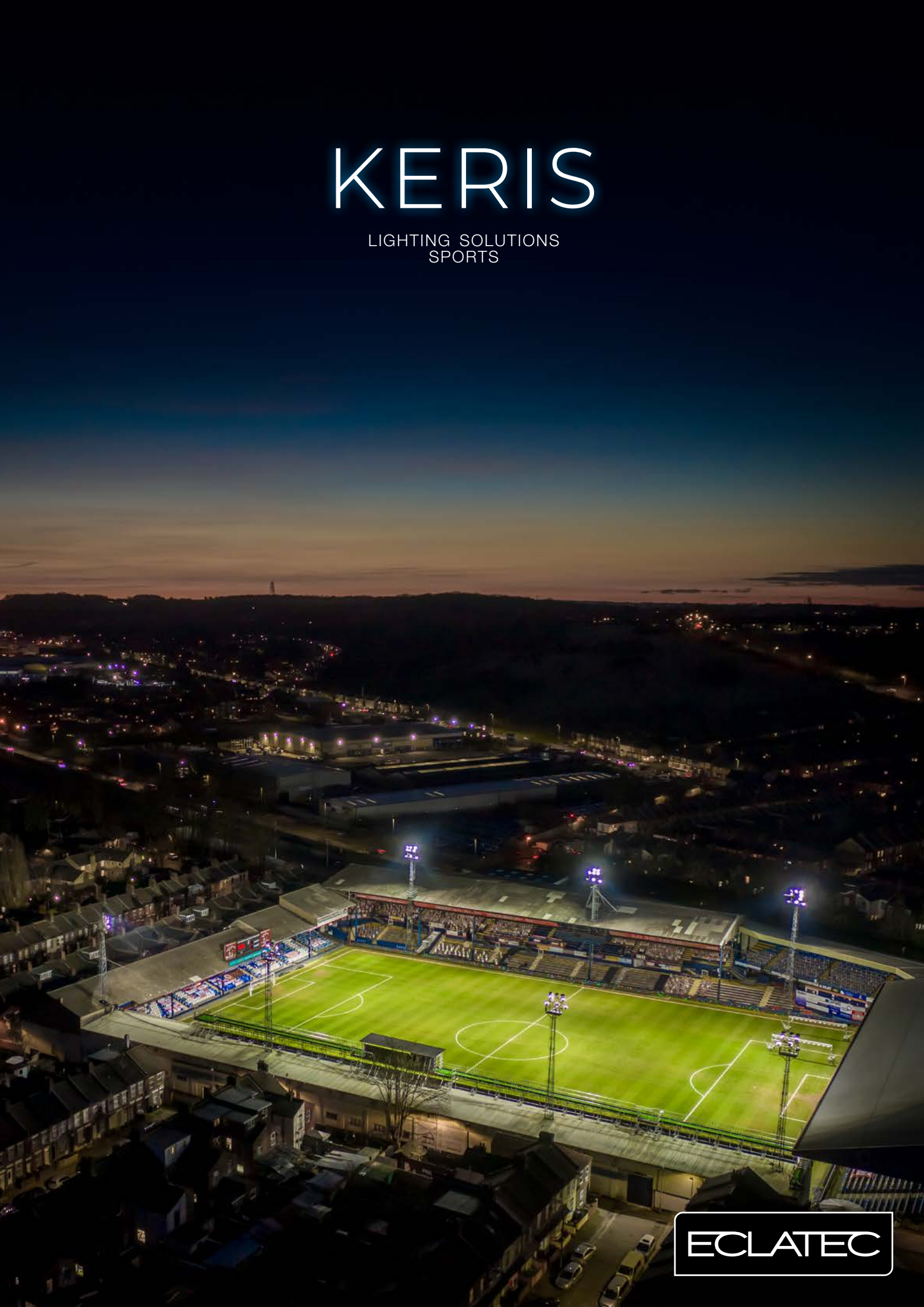


# KERIS

LIGHTING SOLUTIONS  
SPORTS



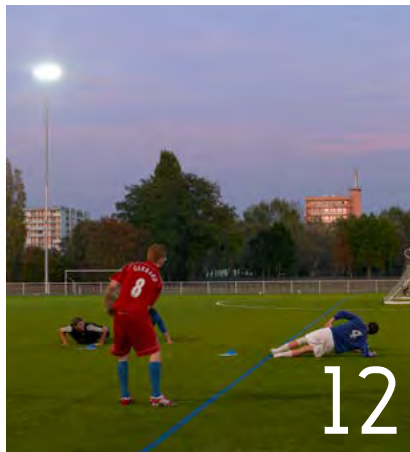
ECLATEC



# CONTENTS



The KERIS range



Sports Lighting



Sports Control

sports WIZARD



## KERIS, a LED floodlight range for all applications

**ECLATEC** has been developing lighting solutions adapted to all the needs of a constantly changing urban space for over 95 years. We have a complete range of LED floodlights to provide the comfort, safety and well-being of users, while controlling energy consumption.



Poles & Supports



# KERIS 1, KERIS 2, KERIS 3 & KERIS 4

## Efficiency combined with aesthetics

SMART, including WIZARD remote management and CA2P Bluetooth control

ZDI<sup>4</sup>™



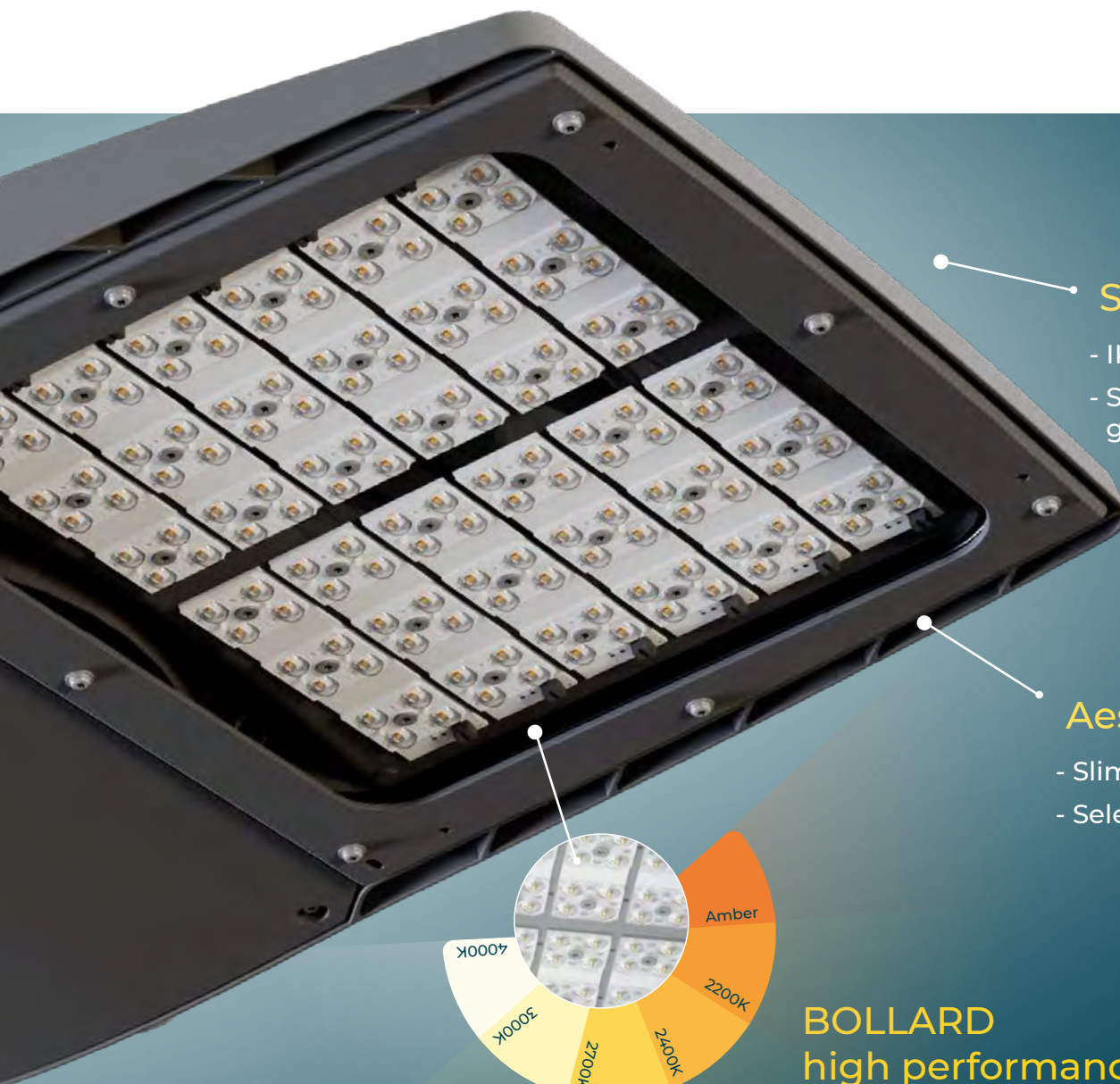
### Connection

- Anchored cable gland

### Directional bracket

### Maintenance & accessibility

- Easy access to sources and power supplies
- Separate equipment compartment (KERIS 3 & 4)

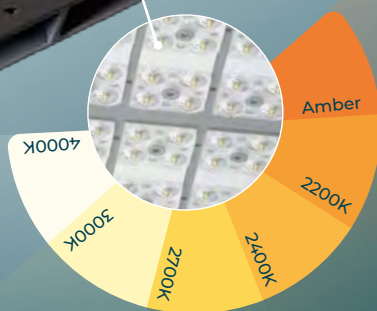


## Strong

- IK 10, IP 66
- Screened printed glass

## Aesthetics

- Slim line
- Selection of colours

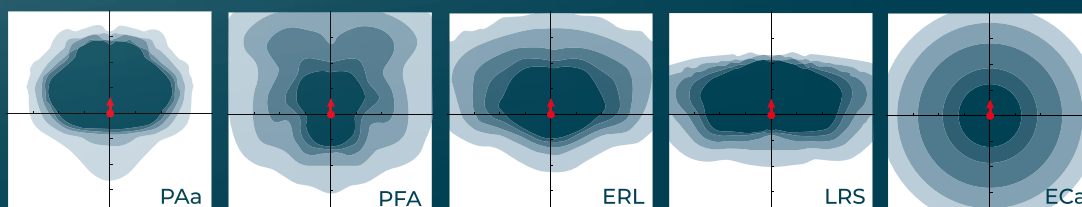


## BOLLARD high performance

- Tunable White
- RGBW

## ECLATEC photometric distributions \*

- Optimised and adapted to different uses (illuminance, luminance, projection, asymmetrical, symmetrical...)
- Barn door



\* Partial list of distributions

# KERIS 1, KERIS 2, KERIS 3 & KERIS 4

## Technical specifications

KERIS 1



KERIS 3



KERIS 2



KERIS 4

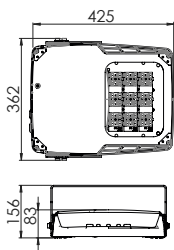


### DESCRIPTION

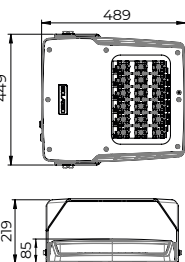
Model	KERIS 1	KERIS 2	KERIS 3	KERIS 4
<b>Luminaire body</b>	Die-cast aluminium body			
<b>Bowl</b>	Heat treated, toughened glass			
<b>Finish</b>	Polyester powder coating, choice of colours			
<b>Shock resistance</b>	IK 09	IK 10	IK 10	IK 10
<b>Waterproofing</b>	IP 66 rating as per the EN 60 529 standard Extruded silicone seal Securely fastened cable gland Projector breathes through an active carbon filter			
<b>Dimensions (mm) (L x W x H)</b>	425 x 362 x 83	489 x 449 x 85	659 x 545 x 78	749 x 545 x 78
<b>Weight</b>	7 kg	11 kg	16 kg	17.3 kg
<b>SCx</b>	0.04 m <sup>2</sup>	0.04 m <sup>2</sup>	0.07 m <sup>2</sup>	0.08 m <sup>2</sup>
<b>Material assessment</b>				
Aluminium	32%	37%	47%	44%
Steel	32%	29%	25%	22%
Glass	16%	20%	14%	15%
Other	19%	14%	14%	15%
Plastics	-	-	-	4%
<b>Electrical rating</b>	Class I or II			

### HARD WIRED

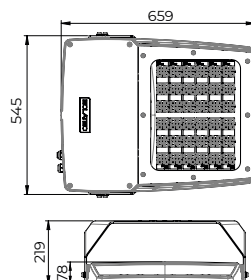
KERIS 1



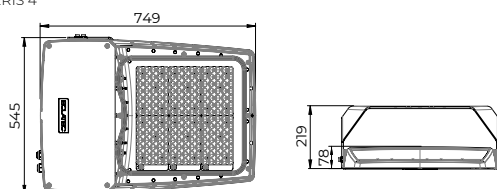
KERIS 2



KERIS 3



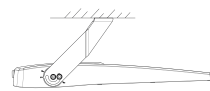
KERIS 4



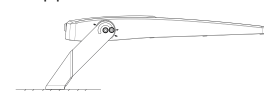
### MECHANICAL INTERFACES

**Bracket**, paint optional: mounted or suspended  
Tilts:

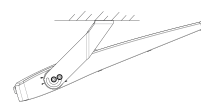
Suspended 0°



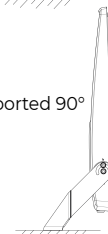
Supported 0°



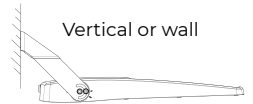
Suspended 20° Max.



Supported 90°



Vertical or wall



**Wall-mounted**, paint option: mounted or suspended fixing



**Top tip**, for KERIS 2, 3 and 4



### MAINTENANCE

**Appliance maintenance**

**KERIS 1 and KERIS 2:** Direct access to the power supply after removing the bowl. Removable plate.

**KERIS 3 and KERIS 4:** Direct access to the power supply after removing the lower cover fixed using 4 captive screws. Removable plate

**Source maintenance**

Direct access to the BLS strips and KERIS 4 LED module after removing the bowl

## SOURCES & PHOTOMETRIC DISTRIBUTIONS

	KERIS 1	KERIS 2	KERIS 3	KERIS 4
<b>Sources</b>	BLS bars - RGBW option			KERIS 4
<b>Colour temperatures</b>	Amber*, 2200 K, 2400 K, 2700 K, 3000 K, 4000 K, others on request			3000 K, 4000 K, 5700 K, others on request
<b>Specific optics</b>	<b>QUADRALENS</b>			<b>KERIS 4</b>
	PFA, EPG, EPD, ETS, ECa, ECb, PSa, PAa, ERE, ERS, ERL, LRS, LRL			ERS, ERL, ASY 30 M, ASY 40 M
<b>Power supply current</b>	Adjustable up to 700 mA <sup>(1)</sup>			Configurable up to 850 mA
<b>Power <sup>(2)</sup></b>	up to 114 W	up to 210 W	up to 410 W	up to 550 W
<b>Flux <sup>(2)</sup></b>	up to 17700 lm	up to 33144 lm	up to 66287 lm	up to 76000 lm

\*Approx. 1800K (1) >700mA possible on request (2) For more details, refer to the overview of LED solutions available on our website

E/L/P: Illuminance/Luminance/Projection, R/C/T/F/P: Road/Circular/Pavement/Beam/Pedestrian crossing, E/S/L/A/D/G: Narrow/Standard/Wide/ Asymmetrical/Right/Left



BLS strips



## SMART

	KERIS 1	KERIS 2	KERIS 3	KERIS 4
<b>At the lighting point</b>				
Adjustable power supply current (driver or pole foot)	✓	✓	✓	✓
Dimming (driver, pole foot or Bluetooth)	✓	✓	✓	✓
Built-in detection	✓	✓	-	-
Remote detection	✓	✓	✓	✓
DALI protocol	✓	✓	✓	✓
Smart-Ready® pre-fittings (ZD4i)	✓	✓	✓	✓
<b>In a local network</b>				
Hard wired communicating detection	✓	✓	✓	✓
Wireless communicating detection	✓	✓	✓	✓
<b>Remote management</b>				
WIZARD remote management	✓	✓	✓	✓

Details of the available features in the ECLATEC LED overview

### IN COMPLIANCE WITH THE FRENCH "LIMITATION OF LIGHT POLLUTION" ORDER OF 27 DECEMBER 2018 [ outside specific restriction zones ]:

All KERIS 1, 2, 3 and 4 floodlight versions:

- Lighting ULR at a 0° pitch: 0%
- Maximum lighting pitch allowing for an ULR < 4%:

	Optics only		With barn door	
PFA	21°	20°	ERE	34°
LRS	41°	35°	PSa	43°
LRL	32°	30°	PAa	34°
ETS	29°	27°	ECa	26°
ERL	27°	26°	ECb	35°

- CIE flux code n°3: greater than 95%
- Colour temperatures (2400 K to 3000 K)  
KERIS 4: 3000 K, others on request
- Surface density determined by the ECLATEC design office after project data analysis
- Light trespass:
  - option, barn doors adapted to LED sources
  - installation recommendations making it possible to define light trespass
- Supply of all mandatory information required by the manager using a flashcode



# KERIS 5.1, 5.2 & KERIS 6 V2

## Power & performance

### Control systems

- Hard wired or wireless
- Local or WIZARD remote control

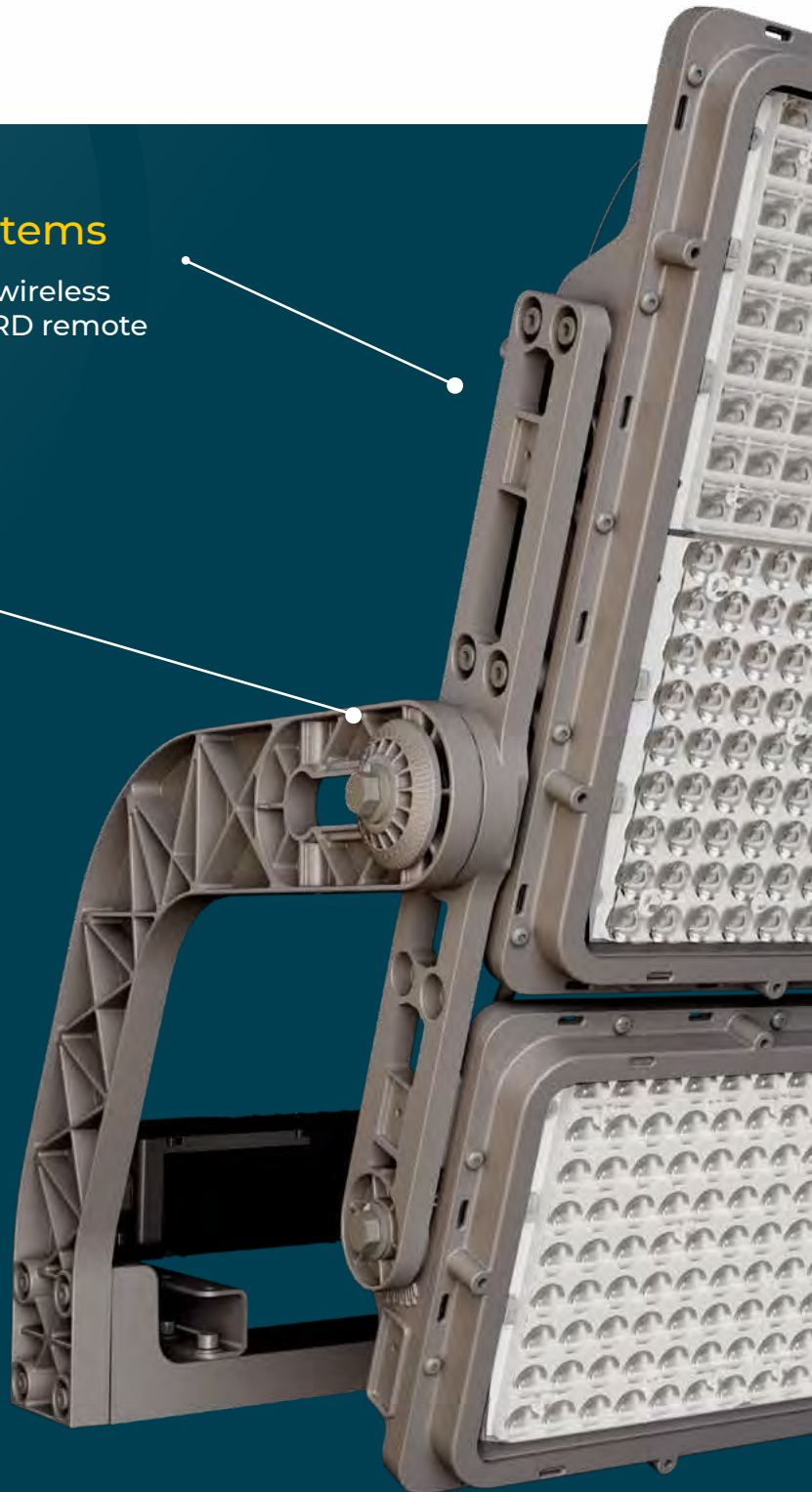
### Easy adjustments

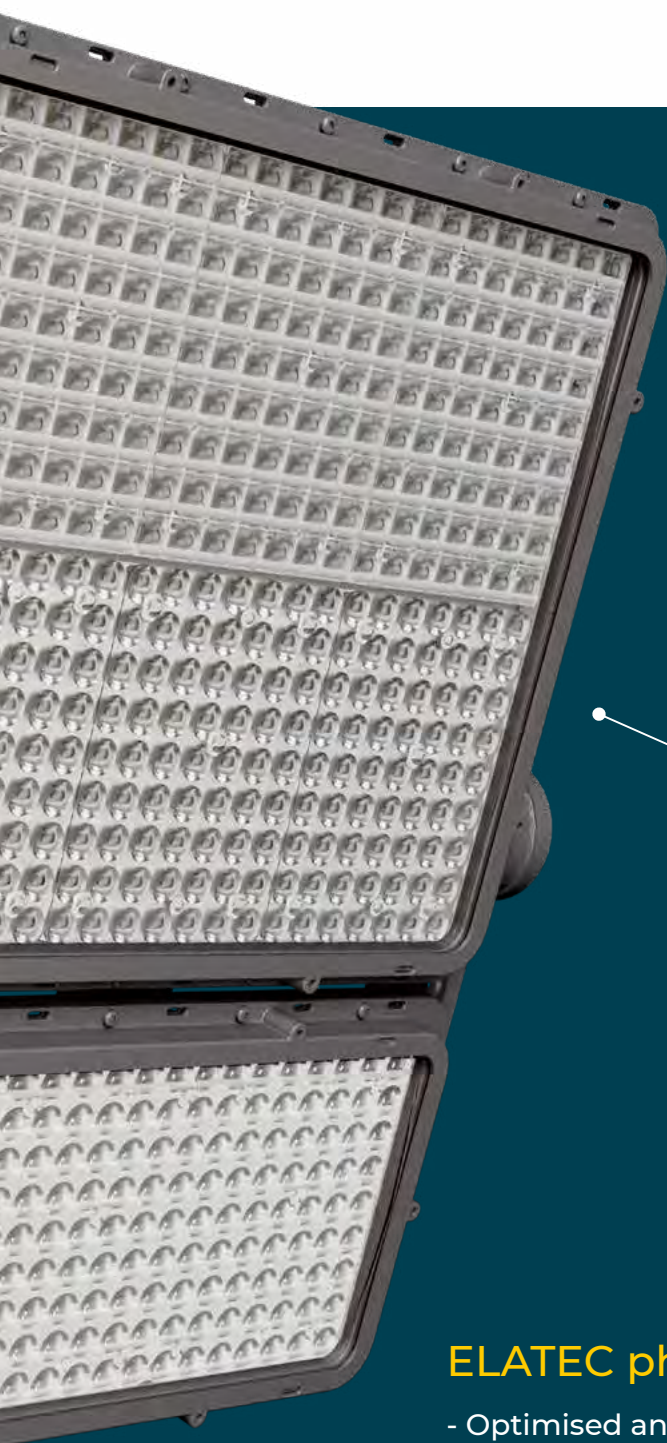
- Reversible bracket, for wall mounting or suspension,



### Assembly & modularity

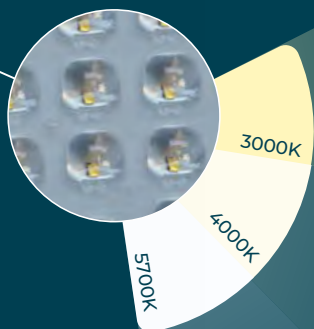
- Minimal size, weight and wind resistance
- Modularity and differentiated lens settings
- Built-in or remote power supply up to 200 m:
  - 230V - 400V
  - Power adjustable up to 1500W
  - Protocols: DALI, DMX, ZD4i
  - 10kV protection
- Easy maintenance and access





## Strong

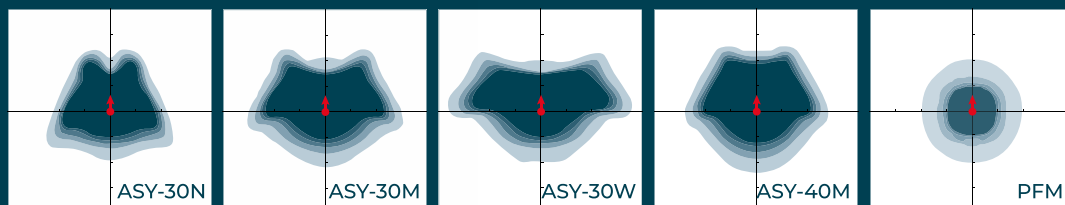
- IP 66
- High-transparency non-reflective glass bowl, IK09
- Polycarbonate bowl, lightweight and high strength, IK10



## BOLLARD high performance

## ELATEC photometric distributions \*

- Optimised and adapted to different uses (asymmetric and symmetric projections, intensive, medium and wide)
- Internal and external barn doors



\* Partial list of distributions, mixes possible

# KERIS 5.1, 5.2 & KERIS 6 V2

## Technical specifications



KERIS 5.1



KERIS 5.2



KERIS 6

### DESCRIPTION

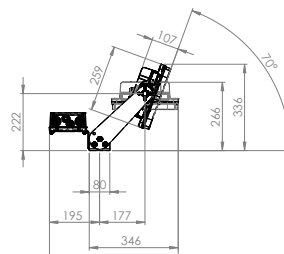
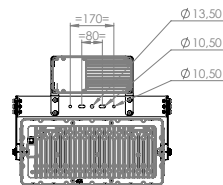
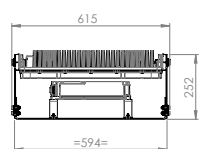
<b>Model</b>	KERIS 5.1	KERIS 5.2	KERIS 6			
<b>Luminaire body</b>	Galvanised steel bracket	Bracket, module interfaces, radiators and electric connection box in injected cast aluminium				
<b>Bowl</b>	In thermally tempered non-reflective glass Polycarbonate bowl					
<b>Finish</b>	Modules in grey AK61					
<b>Shock resistance</b>	PC Bowl: IK 10 - Glass bowl: IK 09					
<b>Waterproofing</b>	IP 66 as per the EN 60 529 standard Extruded silicone seal Securely fastened cable gland Floodlight venting using a membrane filter					
<b>Dimensions (mm)</b> (L x W x H) With power supply Without power supply	615 x 501 x 252 615 x 346 x 252	700 x 865 x 395 700 x 660 x 395	700 x 1025 x 395 700 x 820 x 395			
<b>Weight</b> (Top bowl without power supply)	13.4 kg	24.3 kg	34.6 kg			
<b>Surface area (m<sup>2</sup>)</b>	With power supply.	Without power supply.	With power supply.	Without power supply.	With power supply.	Without power supply.
0°	0.10	0.07	0.19	0.13	0.19	0.13
10°	0.12	0.09	0.24	0.18	0.26	0.21
20°	0.14	0.11	0.28	0.22	0.34	0.29
30°	0.15	0.14	0.32	0.27	0.40	0.37
40°	0.17	0.15	0.36	0.31	0.45	0.44
50°	0.18	0.17	0.38	0.34	0.50	0.50
60°	0.19	0.18	0.40	0.37	0.54	0.54
70°	0.20	0.19	0.41	0.39	0.56	0.56
<b>Electrical rating</b>	Class I					

### SETTINGS

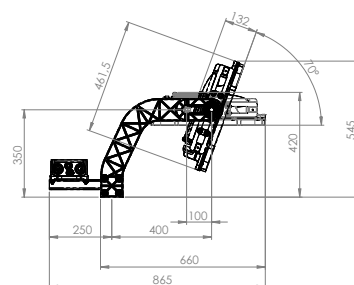
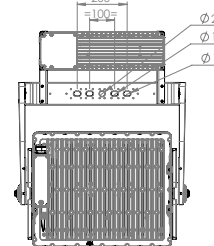
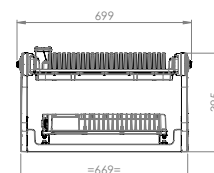
<b>Bracket</b>	free tilt when supported and 0 to 90° when suspended, indicators every 5°
<b>Settings</b>	Red dot type sights Fixed position perpendicular to the modules on the side of the floodlight (can be tilted for certain specific configurations)
<b>KERIS 6 module orientation</b>	Attached or separate LED modules. Differentiated LED module settings possible

### HARD WIRED

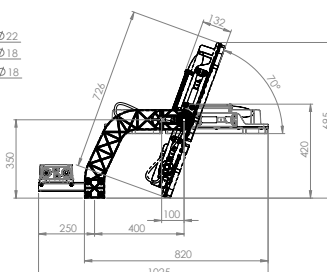
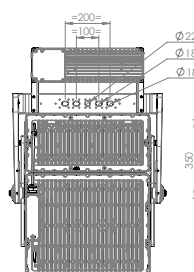
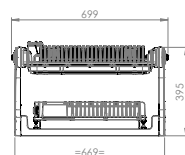
KERIS 5.1



KERIS 5.2



KERIS 6



### ACCESSORY

Bird deterrent

## SOURCES & PHOTOMETRIC DISTRIBUTIONS

	KERIS 5.1	KERIS 5.2	KERIS 6
Sources	KERIS 5 and 6		
Colour temperatures	3000 K, 4000 K or 5700 K (others on request)		
CRI	CRI 70 or 80 (others on request)		
Distribution	Asymmetrical: ASY-30N; 30M; 30W; 40M; 65M and 65N (wide open spaces) Athletics track: PSA Floodlighting type: PFL 1 and 2; PFM 1 and 2; PFI 1 to 4		
Optional barn door	<b>Barn doors:</b> CFF: Strong barn door / CFM: Medium barn door <b>Grids:</b> GIF: Strong internal grid / GEF: Strong external grid <b>Caps:</b> CAF: Strong cap		
LED flux (lm) <sup>(1)</sup>	Up to 95993	Up to 191987	Up to 287979

(1) For more details, please refer to the LED solutions overview  
E/L/P: Illuminance/Luminance/Projection, R/C/T/F/P: Road/Circular/Pavement/Beam/Pedestrian crossing,  
E/S/L/A/D/G: Narrow/Standard/Wide/ Asymmetrical/Right/Left

## SMART

	KERIS 5.1	KERIS 5.2	KERIS 6
ZD4i compatibility	✓	✓	✓
DALI or DMX protocols	✓	✓	✓
Control in a local network	✓	✓	✓
WIZARD remote management	✓	✓	✓

## POWER SUPPLY

	KERIS 5.1	KERIS 5.2	KERIS 6
Adjustable power (W)	Up to 600	Up to 1200	Up to 1800
Protocol	ZD4i, DALI or DMX		
Power supply voltage	220/480 V	220/480 V	230/400 V
Protection	10 kV, in ground fault and common mode		
Waterproofing rating	IP 66		
RAL	Anthracite grey 7016		
Dimensions in mm (L x W x H)	310 x 145 x 70	500 x 152 x 80	500 x 152 x 90
Weight	3 kg	5 kg	7 kg
Location	Fixed to the back of the floodlight on the bracket / At the pole foot / Remote up to 200 m in an electric cabinet		
Service life	120,000 h		
Compliance	Electromagnetic compatibility EN 55015, EN 55032, EN 61547, EN 61000-(3-2;3-3; 4-2;4-3;4-4;4-5;4-6;4-11)		



## STANDARDS, MARKINGS AND CERTIFICATIONS

Compliance	<b>CE compulsory marking:</b> - Directive 2014/35/EU, Low voltage Directive - Directive 2014/130/EU Electromagnetic Compatibility - Directive 2011/65/EU Restriction of Hazardous substances (RoHS) - Directive 2009/125/EC Ecodesign requirements
NF EN 60598-1	Luminaires
NF EN 60598-2-5	Floodlights
FFF	Pitch and sports facility lighting regulations
REACH	Compliance of products and their manufacturing method with the Chemical Substance Management Regulatory framework
WEEE	Waste Electrical and Electronic Equipment
ECOSYSTEM	ECLATEC is a member



# SPORTS LIGHTING

to put every talent on show!



Sports lighting includes leisure, training and competition facility technology.

These different spaces need precision lighting adapted to all users.

Every encounter is important and good visibility is essential for athletes to optimise their performance and for the spectators who admire them.

**The KERIS range** supports all your outdoor development projects (from leisure pitches and stadiums to multi-sports complexes), as well as your indoor projects (gymnasiums, swimming pools, ice rinks, etc.).

Our teams of professionals are by your side to advise you and offer their expertise to match your choices to the needs of users.

Always in the thick of the action, lighting provides spectators and players intense moments in the excitement of an encounter.

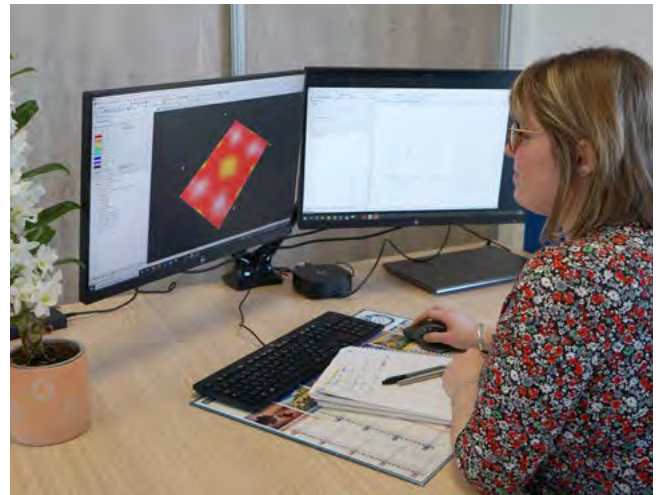




## PRECISE SIZING

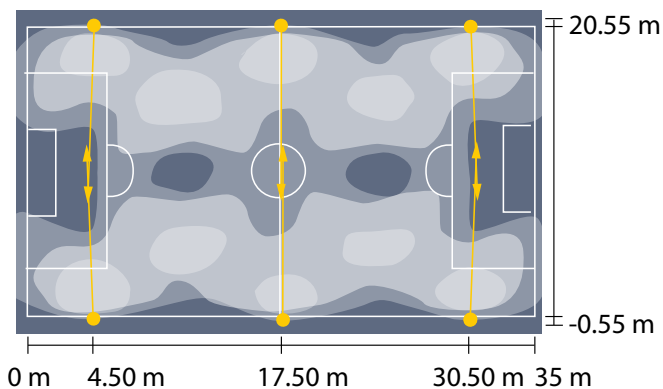
Because the types of activity (indoor or outdoor) and their intensity (from very high level competition to amateur leisure sports) are all different, the expectations regarding facility lighting are unique.

Our "lighting consultancy" service composed of specialised engineers and technicians refers to the lighting standards of all the federations to propose solutions adapted to each installation. The results provided in their studies take into account precise calculations based on a perfectly defined distribution of the floodlights over the surface area in question.



## Case studies

The following examples comply with the lighting standards and expectations of each federation. Feel free to consult our teams to size your project.



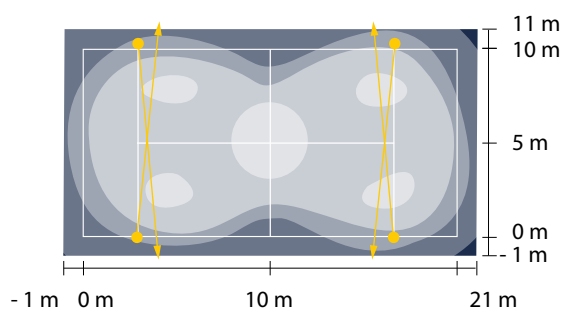
### 5-a-side football pitch

<b>Number of floodlights</b>	6 KERIS 3 + barn door
<b>Colour temperature (K)</b>	4000K
<b>Power per floodlight</b>	228 W
<b>LED flux per floodlight</b>	31120 lm
<b>Installation height</b>	6.30m



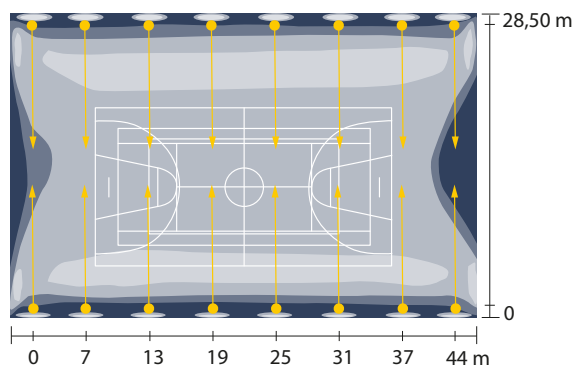
### Padel court

<b>Number of floodlights</b>	4 KERIS 4
<b>Colour temperature (K)</b>	5700K
<b>Power per floodlight</b>	254 W
<b>LED flux per floodlight</b>	40110 lm
<b>Number of poles</b>	4
<b>Floodlights per pole</b>	1
<b>Installation height</b>	7m



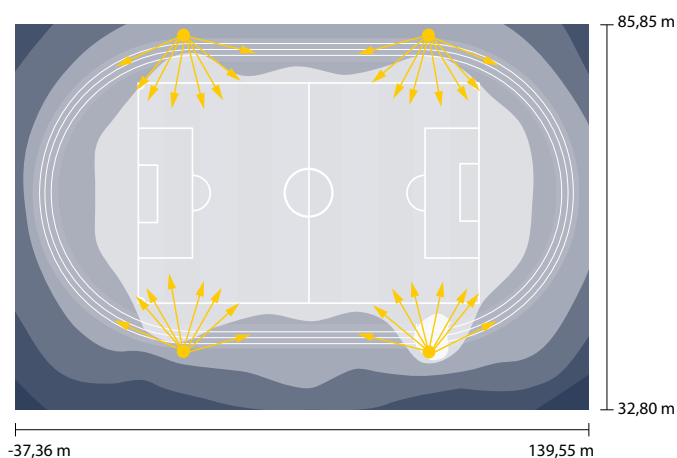
### Gymnasium

<b>Number of floodlights</b>	8 KERIS 3	8 KERIS 3
<b>Colour temperature (K)</b>	4000K	4000K
<b>Power per floodlight</b>	412 W	412 W
<b>LED flux per floodlight</b>	48858 lm	48858 lm
<b>Installation height</b>	5.45m	6.45m



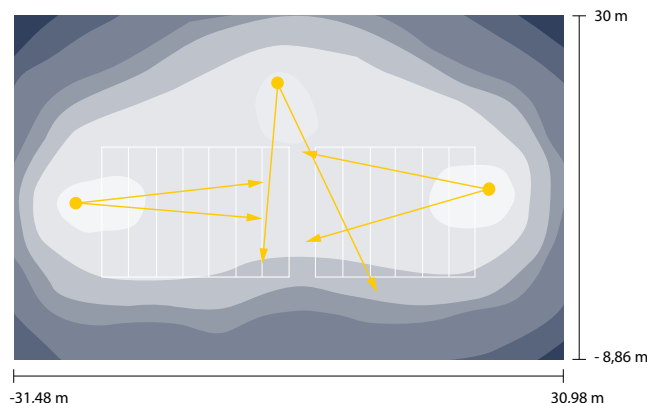
### Football pitch E5 - 250 lux and athletics track

<b>Number of floodlights</b>	24 KERIS 6 V2
<b>Colour temperature (K)</b>	5700K
<b>Power per floodlight</b>	1760 W
<b>LED flux per floodlight</b>	267199 lm
<b>Number of poles</b>	4
<b>Floodlights per pole</b>	6
<b>Installation height</b>	26m



### Bowling green

<b>Number of floodlights</b>	4 KERIS 3	2 KERIS 3
<b>Colour temperature (K)</b>	4000K	4000K
<b>Power per floodlight</b>	412 W	412 W
<b>LED flux per floodlight</b>	45117 lm	45117 lm
<b>Number of poles</b>	2	1
<b>Floodlights per pole</b>	2	2
<b>Installation height</b>	8m	10m

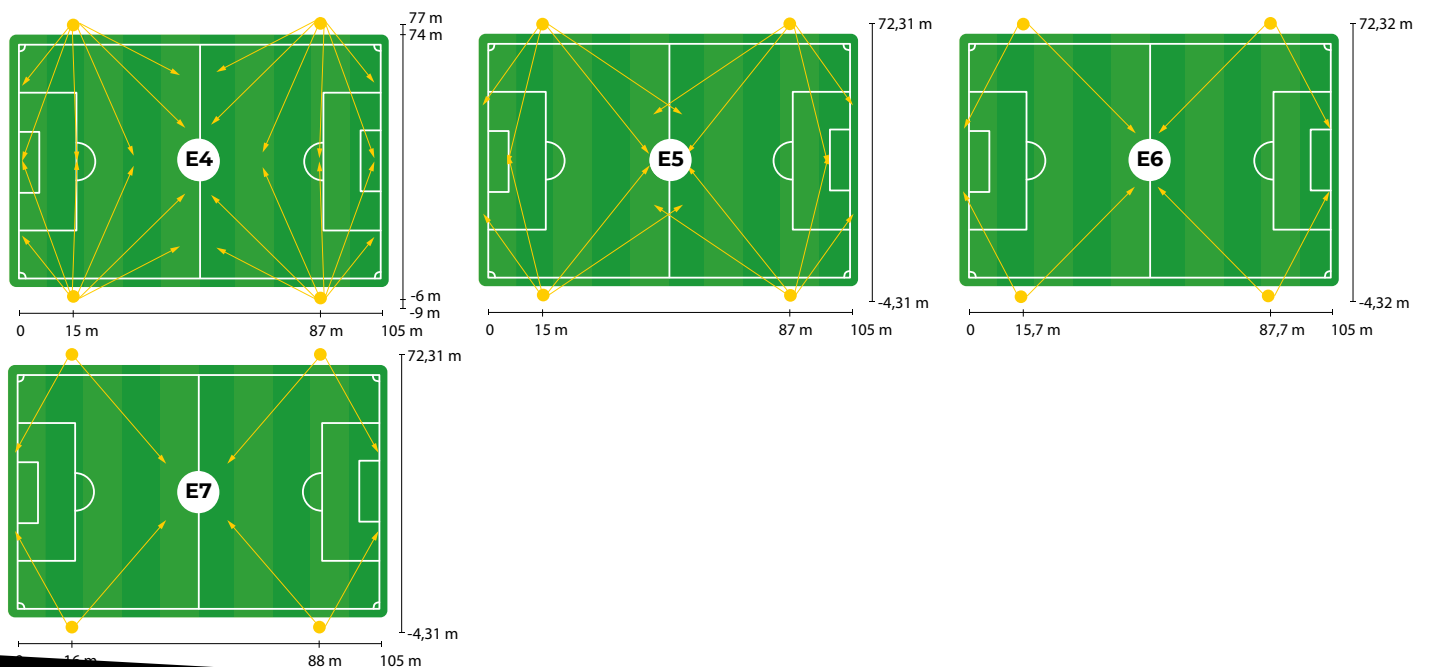




# Football configurations

Examples of applications - Compliant with the European Standard EN 12193 sports facility lighting regulations

	<b>E4 Pitch</b> 105 x 68 m, 400 lux	<b>E5 pitch</b> 105 x 68 m, 250 lux	<b>E6 pitch</b> 105 x 68 m, 150 lux	<b>E7 pitch</b> 105 x 68 m, 75 lux
<b>Number of floodlights</b>	20 KERIS 6 V2	16 KERIS (8 KERIS 5.2 V2 + 8 KERIS 6 V2)	8 KERIS 6 V2	8 KERIS (4 KERIS 5.1 V2 + 4 KERIS 5.2 V2)
<b>Colour temperature (K)</b>	5700K	5700K	5700K	5700K
<b>Power per floodlight</b>	1760 W	KERIS 5.2 V2: 1180 W KERIS 6 V2: 1760 W	1760 W	KERIS 5.1 V2: 600 W KERIS 5.2 V2: 1180 W
<b>LED flux per floodlight</b>	267199 lm	KERIS 5.2 V2: 177508 lm KERIS 6 V2: 267199 lm	267199 lm	KERIS 5.1 V2: 90170 lm KERIS 5.2 V2: 177508 lm
<b>Number of poles</b>	4	4	4	4
<b>Floodlights per pole</b>	5	4	2	2
<b>Average installation height</b>	18m	18m	18m	18m
<b>Pole distance from the goal line</b>	18m	18m	18m	18m
<b>Pole distance from the sideline</b>	4m	4m	4m	4m
<b>Average lighting</b>	465 lux	301 lux	198 lux	97 lux
<b>Uniformity</b>				
Min lighting / Average lighting:	0.83	0.85	0.77	0.59
Min lighting / Max lighting:	0.63	0.66	0.47	0.39



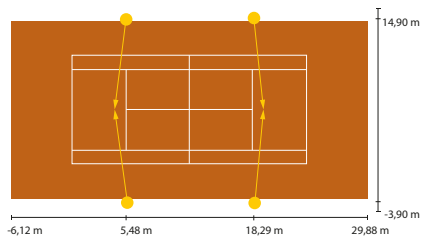


# Tennis configurations

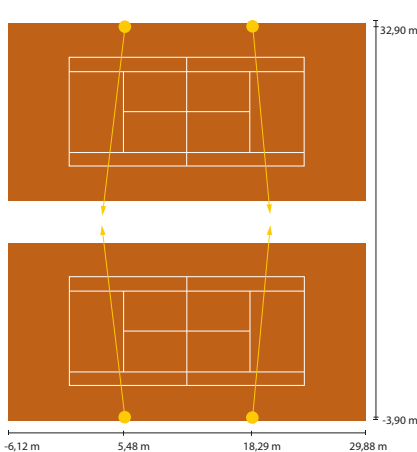
Examples of applications - Compliant with the European Standard EN 12193 sports facility lighting regulations

	<b>Single</b> 4 poles - h = 9 m	<b>Single</b> 2 poles - h = 10 m	<b>Double</b> 4 poles - h = 11 m	<b>Interior</b> h = 7 m	<b>Padel</b> 4 poles - h = 7 m
<b>Number of floodlights</b>	4 KERIS 5.1 V2	2 KERIS 5.2 V2	4 KERIS 5.2 V2	10 KERIS 3	4 KERIS 4
<b>Colour temperature (K)</b>	5700K	5700K	5700K	4000K	5700K
<b>Power per floodlight</b>	426 W	895 W	835 W	308 W	223 W
<b>LED flux per floodlight</b>	69823 lm	148000 lm	147623 lm	43119 lm	36392 lm
<b>Number of poles</b>	4	2	4		4
<b>Floodlights per pole</b>	1	1	1		1
<b>Average installation height</b>	9m	10m	11m	7m	7m
<b>Average lighting</b>	342 lux	346 lux	337 lux	528 lux	358 lux
<b>Uniformity</b> Min lighting / Average lighting:	0,82	0,89	0,80	0,83	0,83

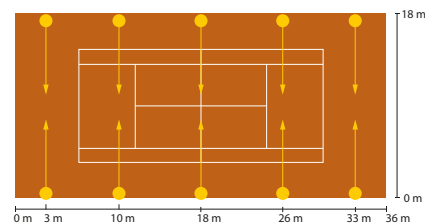
Single - 4 poles - h = 9 m



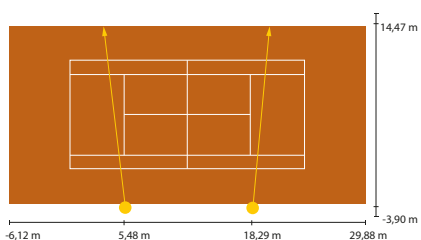
Twinned - 4 poles - h = 11 m



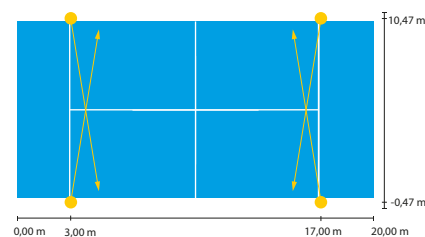
Indoor pitch - h = 7 m



Single - 2 poles - h = 10 m



Padel - 4 poles - h = 7 m

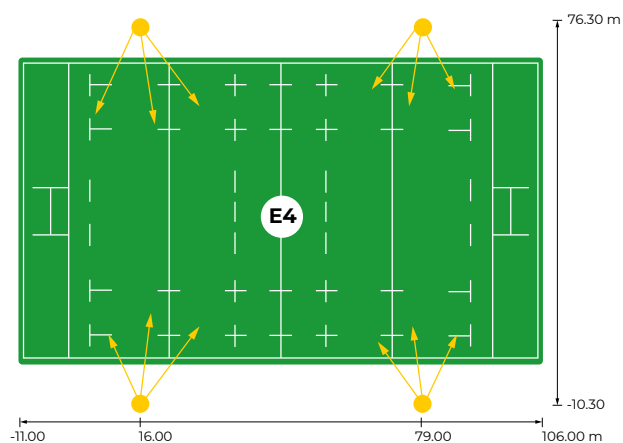
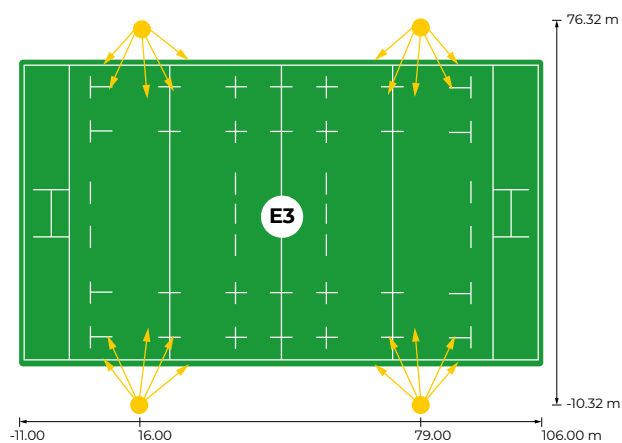




# Rugby configurations

Examples of applications - Compliant with the European Standard EN 12193 sports facility lighting regulations

	<b>E3 pitch</b> 95 x 66 m	<b>E4 Pitch</b> 95 x 66 m
<b>Number of floodlights</b>	8 KERIS 5.2 V2 + 8 KERIS 6 V2	4 KERIS 5.1 V2 + 8 KERIS 6 V2
<b>Colour temperature (K)</b>	5700K	5700K
<b>Power per floodlight</b>	KERIS 5.2 V2: 1180 W KERIS 6 V2: 1760 W	KERIS 5.1 V2: 600 W KERIS 6 V2: 1760 W
<b>LED flux per floodlight</b>	KERIS 5.2 V2: 179770 lm KERIS 6 V2: 267199 lm	KERIS 5.1 V2: 89787 lm KERIS 6 V2: 267199 lm
<b>Number of poles</b>	4	4
<b>Floodlights per pole</b>	4	3
<b>Average installation height</b>	21.5m	21.5m
<b>Pole distance from the goal line</b>	16m	16m
<b>Pole distance from the sideline</b>	10m	10m
<b>Average lighting</b>	320 lux	220 lux
<b>Uniformity</b> Min lighting / Average lighting: Min lighting / Max lighting:	0.85 0.63	0.87 0.64





## QUALITY SUPPORT

### For optimum implementation

Our technical teams can help you with the settings, measurements and configuration of the supervision system.

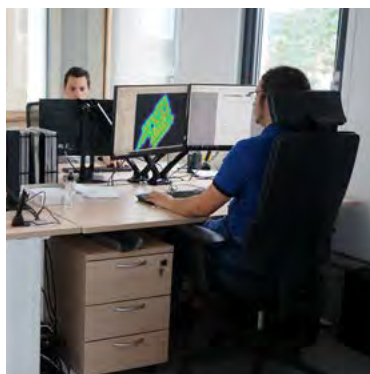
They therefore help to ensure that your sports facilities are compliant.



## IT'S YOUR TURN TO PLAY!

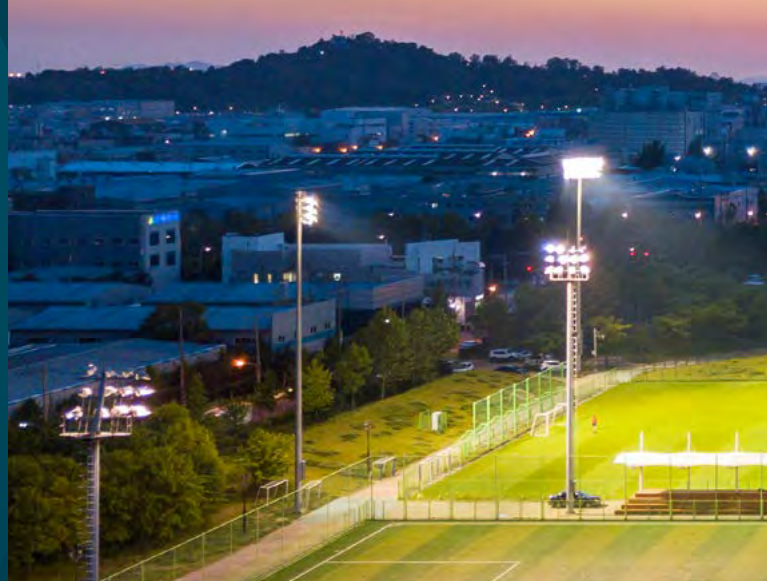
ECLATEC supports you at every stage of your projects to satisfy all the stakeholders (installation companies, local authorities, project managers, sports federations, etc.).

Our local sales teams are always ready to listen, so don't hesitate to contact them for customised studies tailored to your needs.





# WIZARD SPORTS



## MANAGE AND CONTROL YOUR SPORTS FACILITIES!

The **WIZARD sports** remote management system is used to monitor and control your **entire sports installation** on site and remotely.

This solution operates using a **secure web interface** which can be accessed from any device connected to the Internet: **computer, tablet or mobile phone.**

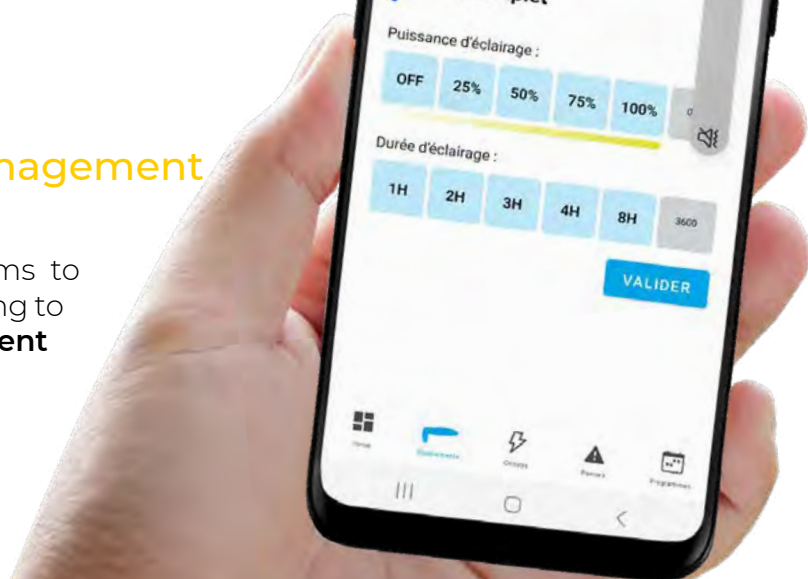




## Remote control

### WIZARD Sports remote management

ECLATEC offers several control systems to adjust the lighting parameters according to the type of activity to **adapt to the different use and installation conditions**.



ECLATEC's WIZARD sports solution provides simple, versatile, and optimised lighting of sports facilities.

### ✓ Adjustable

Power variation:

- Depending on the activities and associated pitches (half pitches, full pitches, tracks, etc.)
- Depending on use (training, competitions, events, etc.)

### ✓ Compliance

- With the requirements of sports federations to improve the performance and safety of athletes

### ✓ Respectful

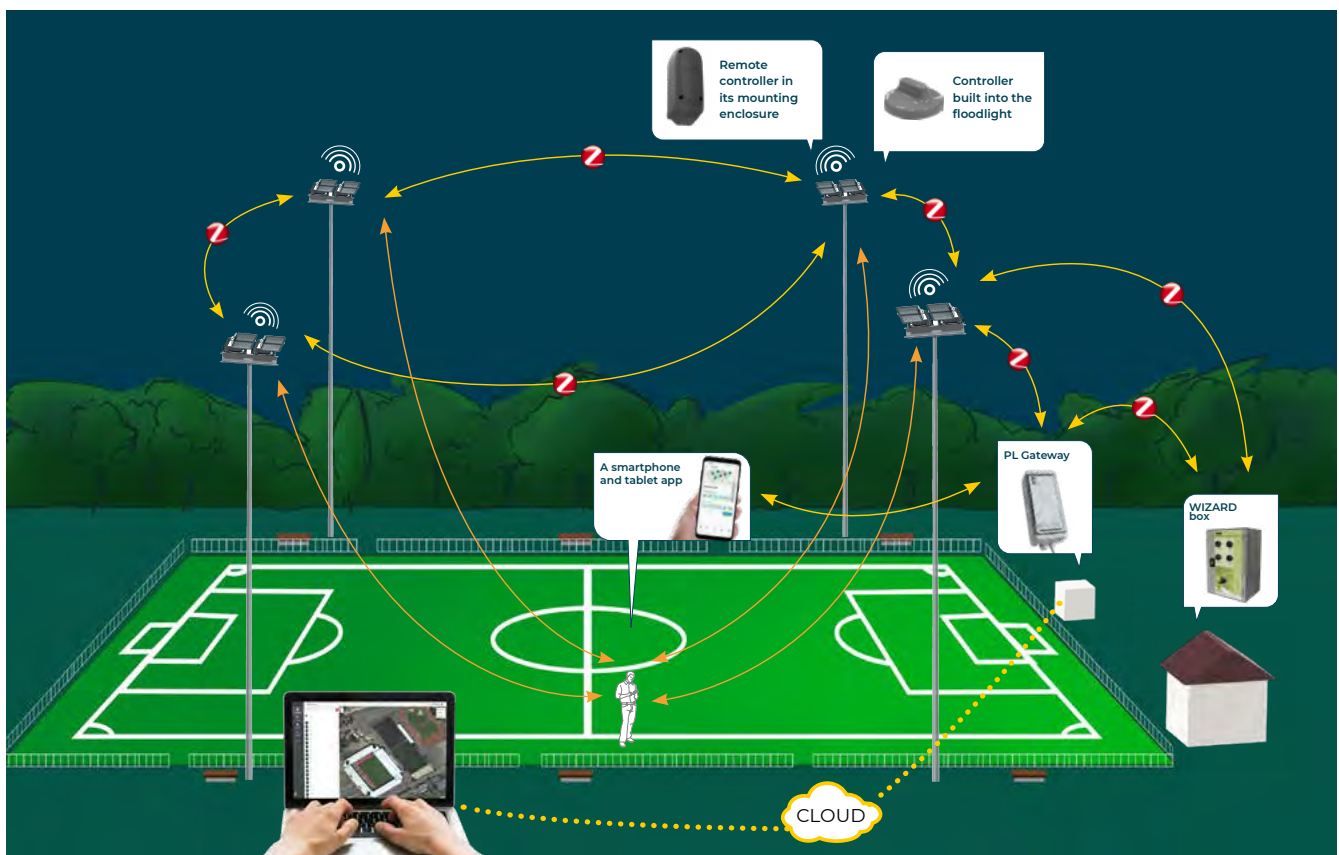
- Lighting properly to reduce light nuisance for local residents, and light pollution

### ✓ Economic

- Reduced energy and maintenance costs, including reporting of failures and defects

The **WIZARD remote management** system is used to monitor and control your **entire sports installation lighting** on site and remotely.

This solution operates using a **secure web interface** which can be accessed from any device connected to the internet: **computer, tablet or mobile phone**.



Depending on the configuration, the antenna, which can be remote-mounted in a module or integrated into the floodlight, can control up to five power supplies.

Furthermore, a **control application available on smartphone or tablet** allows simple, real-time on-site management of lighting according to use: switching on, power level adaptation, switching off individually, by group of floodlights, or by a set of groups of floodlights.

A **control box with control push buttons** is also available for real-time on-site control.



- ✓ Real-time control
- ✓ View settings
- ✓ Available on Android and IOS
- ✓ Secure connection

## WIZARD control

The control box



The **WIZARD IP66-rated wireless control box** controls your installation using ZigBee radio frequency.

It has **4 push buttons**, each of which initiates a previously defined scenario saved in the programming interface.

For example: lighting at 50% half pitch A, 50% half pitch B, 100% full pitch and end of forced mode of one of these three scenarios.

This solution is also compatible in a local network.

## WIZARD application

Real-time control

The **WIZARD sports remote management** system is used to monitor and control your entire sports installation **on site and remotely**.

The application is used to:



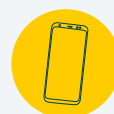
### Control and monitor in real time

- Lights on, lights out, power variation adjustable up to 100%.
- Individual control, or by group or by sets of floodlights.
- Luminaire operating status.



### View settings

- Consultation of the various settings.
- Display of the different configurations.
- Equipment displayed on a map or in a drop-down list
- The equipment is configured from the monitoring software.

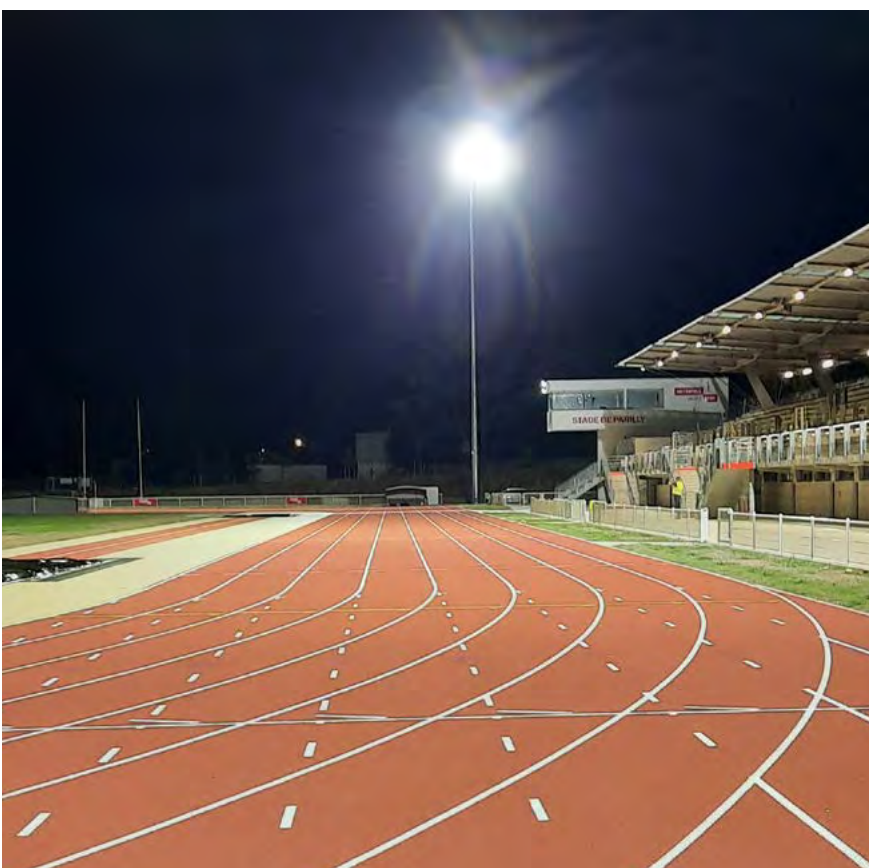


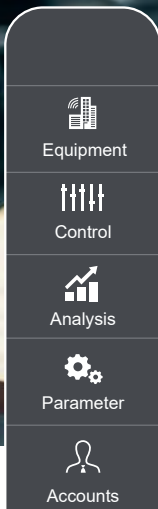
### Available online

- Download the Eclatec Wizard application on:



ECLATEC



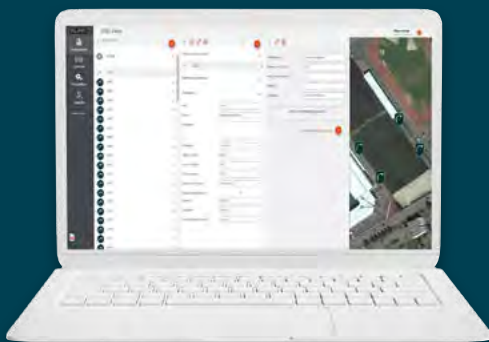


## WIZARD MANAGEMENT INTERFACE

Simple and functional

You can freely and easily manage your entire lighting installation securely using this management and supervision software in French. Easy to understand and effective, it allows easy configuration of your equipment.

After a study, we can create gateways with other existing hypervisors.



**Viewing & configuration**  
of the equipment

**Supervision & control**  
with two-way communication

- ✓ **Pairing of auto-geo-located floodlights** as soon as they are switched on (integrated GPS chip)
- ✓ **Creation of groups of floodlights**  
(e.g. group of spotlights pole 1, group of spotlights pole 2 ...)
- ✓ **Creation of a set of groups of spotlights**  
(e.g. half pitch 1 with groups pole 1 + pole 2, ...)
- ✓ **Individual configuration, by group or by set of groups of spotlights**  
calendar, switching on, power levels, switching off, etc.



## Lighting programmes activated in just a few clicks

Creation of one or more programmes with 100% or dimmed lighting: for example, U6 football training, seniors, veterans ....

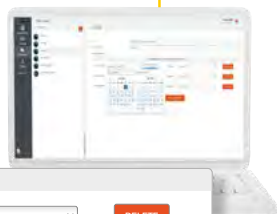
Type:

Programme name:

Time slots			
Type: <input type="text" value="Set times"/>	Time: <input type="text" value="19:00"/>	Level (%): <input type="text" value="100"/>	<input type="button" value="DELETE"/>
Type: <input type="text" value="Set times"/>	Time: <input type="text" value="22:00"/>	Level (%): <input type="text" value="50"/>	<input type="button" value="DELETE"/>
Type: <input type="text" value="Set times"/>	Time: <input type="text" value="09:00"/>	Level (%): <input type="text" value="100"/>	<input type="button" value="DELETE"/>

## Optimum calendar management

Calendar creation makes it possible to apply programmes at variable frequencies: for example, Wednesday U6 training, Friday U18 training, etc.



Programmes in increasing order of priority

Date range:

Programme:

Date range:

Programme:

Date range:

Programme:

April 2021							May 2021						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
28	29	30	31	1	2	3	25	26	27	28	29	30	1
4	5	6	7	8	9	10	2	3	4	5	6	7	8
11	12	13	14	15	16	17	9	10	11	12	13	14	15
18	19	20	21	22	23	24	16	17	18	19	20	21	22
25	26	27	28	29	30	1	23	24	25	26	27	28	29
2	3	4	5	6	7	8	30	31	1	2	3	4	5



## Creation of groups of floodlights (left half pitch, right half pitch, full pitch, ...)

status:

Mode:

Level:

Information:

- Voltage (V rms): 228
- Current (A): 0.156
- Energy (kWh): 120
- Power (Watt): 33.7
- Power factor: 0.95
- Lighting time: 2947
- Error message: 0

Maintenance action:

## Real-time control

You can take action on your lighting network remotely in real time (ON, OFF, lighting level variation, etc.).



## Maintenance tool monitoring and configuration

Fault notification by email:

Email 1:

Email 2:

Email 3:

Email 4:

Email 5:

Period:

Language:

Report analysis start time:

Report analysis end time:

- ✓ **Data recording frequency** on the server 1h-24h, by defining the start time.
- ✓ Email addresses to **send maintenance reports.**
- ✓ Definition of the **analysis start and end times.**
- ✓ **Choice of report sending frequency** for faults!

# HARD WIRED CONTROL

## The DALI control box



### The DALI control box

It provides different lighting management and customisation features depending on needs:

- Full or half-stadium lighting
- Four pre-selections to adjust power levels, including two customisable and two factory pre-set levels of 0%, P1, P2 and 100%
- Override mode or timed operation, with customisable timers
- Configuration selection secured using a key
- Dimensions (H x W x L): 431 x 329 x 200 mm excluding fixing brackets

The DALI control box can manage up to 50 power supplies (in excess of 50 floodlights, contact ECLATEC). It must be located at not more than 300 m from the power supplies.





# VERY HIGH POLES & SUPPORTS

A global solution  







# A GLOBAL SOLUTION

Thanks to a strong partnership, **ECLATEC** can offer you a global lighting solution for your large spaces. With over 180 years of metallurgical know-how, our sister company **GHM** located in the Haute-Marne region of France, manufactures steel posts for the most common lighting applications for heights of up to 35 metres.

Bringing together design and manufacturing resources on a single site facilitates the search for and creation of suitable technical solutions, whether for standard cases or specific developments. Design engineers equipped with appropriate simulation resources are specialised in the definition of large height solutions. Drawings and calculation notes justify the selected technical approaches and are available on request.

## The posts

- ▶ The proposed poles are manufactured in GHM's own workshops, using modern and adapted production and control resources.
- ▶ The steels used comply with the NF EN 10025 standard.

Hot-dip galvanising meets the requirements of the NF EN ISO 1461 standard

The large height steel poles can be painted using polyester powder coating on request. Anchor rods and template plates are supplied with the poles.

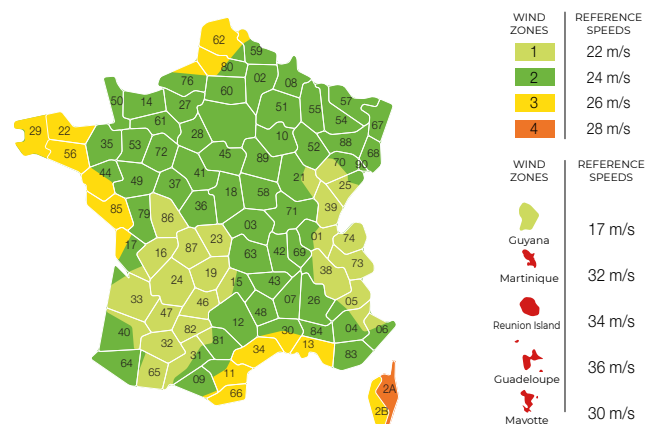
The proposed static systems can also be used on reinforced concrete poles. The anchor points of the proposed equipment are fixed to the rebars and embedded in the concrete during construction. The anchor point position drawings are available on request.

## The blocks

Block definition is based on several parameters, such as load, wind resistance, overturning moment, exposure or type of terrain. An purely indicative assessment can be made based on the ANDREE and NORSA formula.

However, project managers must have a more precise definition provided by a specialist civil engineering design office.

## Wind map





## Assembly

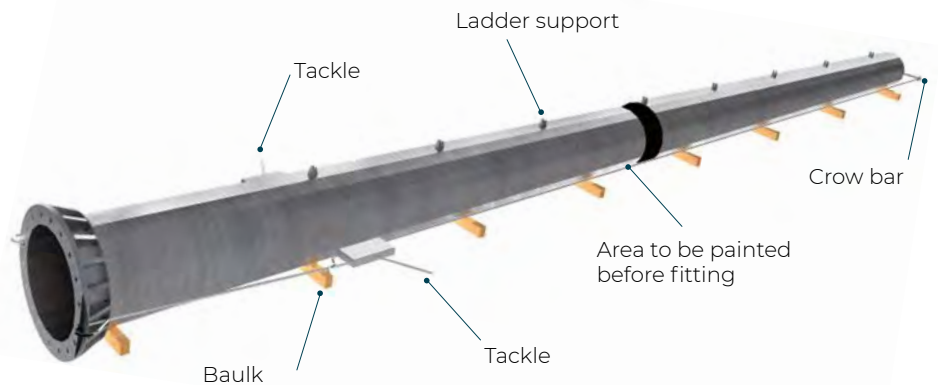
When assembling the sections, follow the ladder support alignments.

The nominal socket length is at least 1.5 times the average diameter of the female section, taking into account variations in thickness and manufacturing tolerances, the minimum effective length must be 1.35 times this diameter.

**Before lifting, it is IMPERATIVE to leave the slings connecting the sections.**



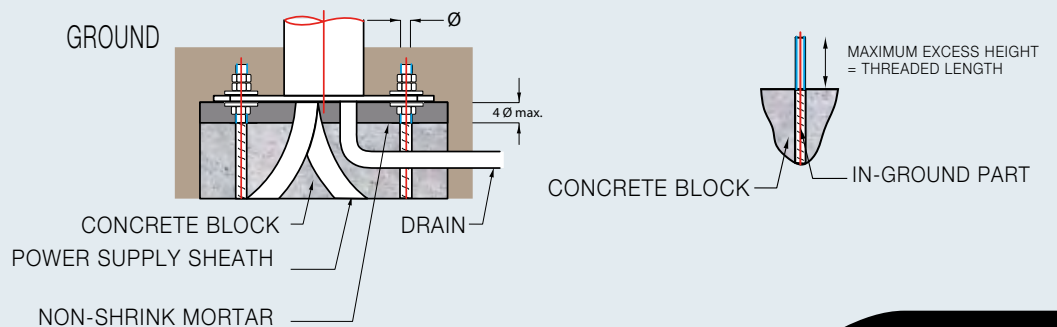
Lower lifeline attachment



The lighting posts for large areas are manufactured in several interlocking sections according to CTICM recommendations.



## Installation of lighting posts for large areas



# Static solution supports

## Technical specifications

The proposed floodlight support structures meet strength, accessibility and versatility requirements. The nature, number and direction of the floodlights depends on the context. These supports are the result of extensive analysis, opting for standardisation where possible. They are made from hot-dip galvanised steel and can be adapted to all very high posts.

### Cross part

Straight cross part of various lengths that can support from 1 to 5 floodlights.



### Arm

Removable side arm supporting 1 or 2 floodlights, often used in addition to frames.



### Rectangular frame

Especially suitable for fixing 2 rows of floodlights.



### Circular frame

Fixed at the top of the pole, the frame diameter varies according to the type and number of floodlights to be installed. It allows 360° lighting.

## FLOODLIGHT SUPPORT



Made of hot-dip galvanised steel, compatible with all types of floodlights, the range of supports covers multiple lighting configurations. They are equipped by request with an electrical connection box to connect the floodlights.

Production of specific parts for individual projects (shape, number of floodlights, etc.). Delivered with stainless steel fasteners.

## WALKWAYS



These hot-dip galvanised steel walkways are comfortable and safe for operators to work on when carrying out maintenance on the floodlights. Delivered with stainless steel fasteners.

## LADDERS, LIFELINES AND HARNESES



Hot-dip galvanised steel ladders for stable access. Non-slip, evenly-spaced rungs. Rest platforms positioned in accordance with the intervals defined in standard NF EN ISO 14122-4. Access forbidden to unauthorised persons (for this purpose the first rungs are not fixed less than 3 metres from the ground. Removable lower part available as an option).

Delivered in standard elements together with the stainless steel fasteners.

Lifeline, 8 mm diameter galvanised steel cable delivered with fixing accessories and tensioner.

These approved assemblies are compliant with the NF EN 353-1 and NF EN 363 standard requirements.

Safety harness, lanyard and mobile fall-arrester available as an option.



# ECLATEC

41 rue Lafayette, CS 20069 Maxéville  
54528 Laxou cedex, France  
Phone: +33 (0)3 83 39 38 00  
[www.eclatec.com](http://www.eclatec.com)



Reproduction of this document is prohibited without the prior written permission of ECLATEC - Copyright ECLATEC - Document and photos not contractually binding. The description of the appliances and the measurements given are only an indication and cannot be construed as a binding commitment from our company, which reserves the right to make any changes it seems fit without prior notice. Service Communication Eclatec - Photo credits: ©Eclatec, ©iStock

Edition  
09/2025