



unicornlite



# Dialux Simulation

For sport field



Led Industrial.Ctra n340 km 1242 08620 Sant Vicens dels Horts  
www.ledindustrial.es tel : 93 396 34 92



Football Field

Athletics Field

Rugby Field

Play Court

Tennis Field

Baseball Field

COMMUNITY PARK

COMMUNITY PARK

Proper lighting on the playing field is essential to make the game enjoyable for athletes and spectators.



## Recommendations of Minimum Lighting Levels

Sport	Illuminance Level (Em . Horizontal) Lux * (Non CTV)						Glare Rating (GR)			
	Class I		Class II		Class III		I	II	III	
	Em Lux	Uo Min/ave	Em Lux	Uo Min/ave	Em Lux	Uo Min/ave				
Athletics	500	0.7	200	0.5	50 to 100	0.5	50	55	55	
Baseball	In Fld	750	0.7	500	0.7	300	0.5	50	50	55
	Out Fld	500	0.5	300	0.5	200	0.3	50	50	55
Basketball	500	0.7	200	0.6	75	0.5	50	50	55	
Bowls (Flat Green)	300	0.7	200	0.7	100	0.5	50	50	50	
Cricket	Sq	750	0.7	500	0.7	300	0.5	50	50	55
	Field	500	0.5	300	0.5	200	0.3	50	50	55
Equestrian	500	0.7	200	0.7	100	0.5	50	50	55	
Football (soccer)	500	0.7	200	0.6	75	0.5	50	50	55	
Hockey	500	0.7	200	0.7	200	0.7	50	50	55	
Horse racing	200	0.6	100	0.4	50	0.2	50	50	55	
Netball	500	0.7	200	0.6	75	0.5	50	50	55	
Rugby	500	0.7	200	0.6	75	0.5	50	50	55	
Tennis	500	0.7	300	0.7	200	0.6	50	50	55	
Volleyball	500	0.7	200	0.6	75	0.5	50	50	55	

The right color temperature improves visibility, concentration and aesthetics, helping players perform better and spectators enjoy the game.

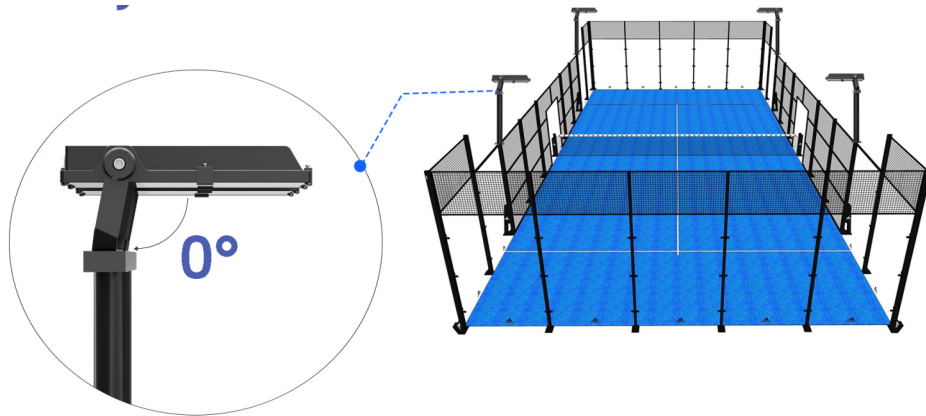
Sports played on turf and blue surfaces are better enjoyed under cool white lighting (5000K). Swimming pools and ice rinks also require cool white to look crisp and clean.

Sports played on wooden surfaces, such as basketball, will look best under slightly warmer CCTs (4000K).



Our LED fixtures reproduce rich colors with high accuracy and contrast, featuring a Color Rendering index (CRI) of 80+ as standard, with CRI 90+ and TLCI 0+ as options.

# Outdoor Padel Court

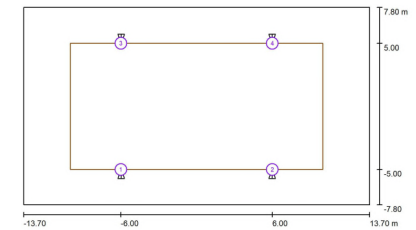
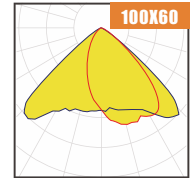


**ULR 0%**

totally ZERO upward light

illuminance increases by 20-40% compared to others

## Revive



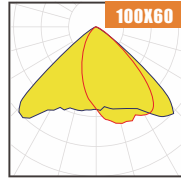
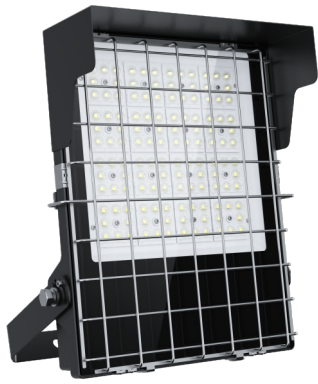
### Class I, Eav>500lx, U0>0.7

Fixture	8pcs 150w 100x60
Installation	6m
	0 degree horizontal
Eav	548lx
Emin/Eav	0.75
Emin/Emax	0.64
ULR	0%
GR Max	29

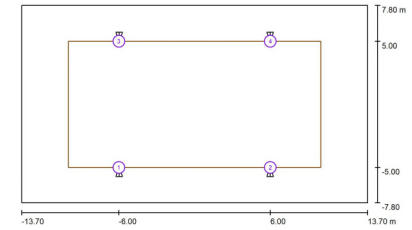
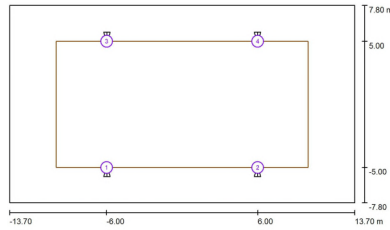
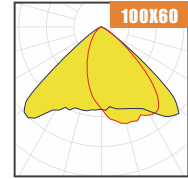
### Class II, Eav>300lx, U0>0.7

Fixture	4pcs 200w 100x60
Installation	6m
	0 degree horizontal
Eav	356lx
Emin/Eav	0.77
Emin/Emax	0.64
ULR	0%
GR Max	31

# Slim G3



# Navigator



## Class I, E<sub>av</sub>>500lx, U<sub>0</sub>>0.7

Fixture	8pcs 150w 100x60
Installation	6m 0 degree horizontal
E <sub>av</sub>	548lx
E <sub>min</sub> /E <sub>av</sub>	0.75
E <sub>min</sub> /E <sub>max</sub>	0.64
ULR	0%
GR Max	29

## Class II, E<sub>av</sub>>300lx, U<sub>0</sub>>0.7

Fixture	4pcs 200w 100x60
Installation	6m 0 degree horizontal
E <sub>av</sub>	356lx
E <sub>min</sub> /E <sub>av</sub>	0.77
E <sub>min</sub> /E <sub>max</sub>	0.64
ULR	0%
GR Max	31

## Class I, E<sub>av</sub>>500lx, U<sub>0</sub>>0.7

Fixture	8pcs 150w 100x60
Installation	6m 0 degree horizontal
E <sub>av</sub>	501lx
E <sub>min</sub> /E <sub>av</sub>	0.75
E <sub>min</sub> /E <sub>max</sub>	0.6
ULR	0%
GR Max	29

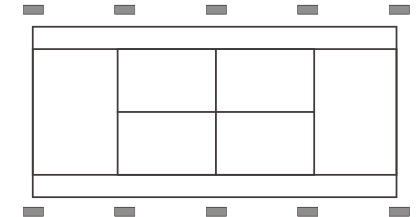
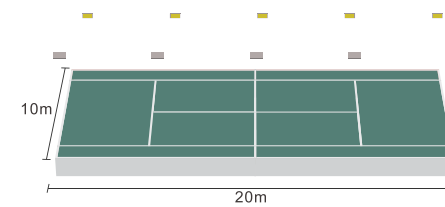
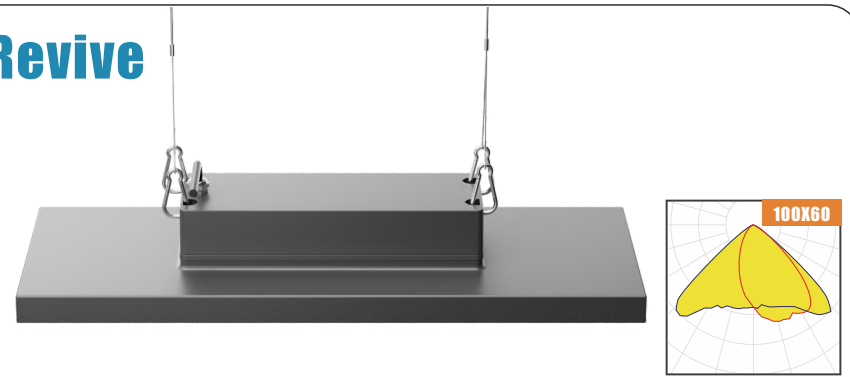
## Class II, E<sub>av</sub>>300lx, U<sub>0</sub>>0.7

Fixture	4pcs 200w 100x60
Installation	6m 0 degree horizontal
E <sub>av</sub>	335lx
E <sub>min</sub> /E <sub>av</sub>	0.74
E <sub>min</sub> /E <sub>max</sub>	0.61
ULR	0%
GR Max	31

# Indoor Padel Court



## Revive



### Level of competition

	Class		
	I	II	III
International/ National	●		
Regional	●	●	
Local	●	●	●
Training		●	●
Recreational			●

### EN12193 Requirements

	Class	Class		
		I	II	III
Horizontal illuminance	$\dot{E}_m$ lx	500	300	200
	$E_{min}/E_m$	0.7	0.7	0.6
GR		50	50	55
Ra		60	60	20

### Class I, $E_{av} > 500lx$ , $U_0 > 0.7$

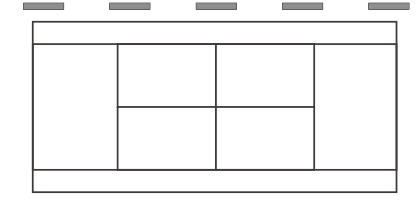
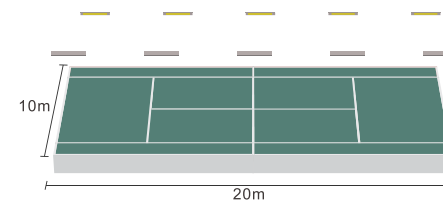
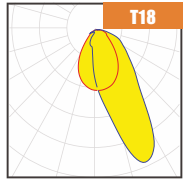
Fixture	8pcs 150w 100x60
Installation	6m
	0 degree horizontal
Eav	548lx
Emin/Eav	0.75
Emin/Emax	0.64
ULR	0%
GR Max	29

### Class II, $E_{av} > 300lx$ , $U_0 > 0.7$

Fixture	4pcs 200w 100x60
Installation	6m
	0 degree horizontal
Eav	356lx
Emin/Eav	0.77
Emin/Emax	0.64
ULR	0%
GR Max	31



# Hemera



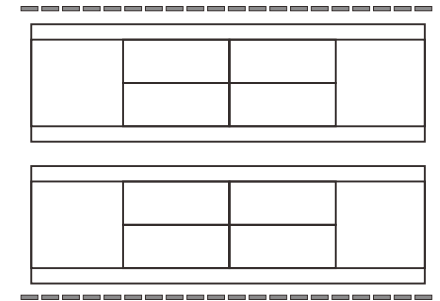
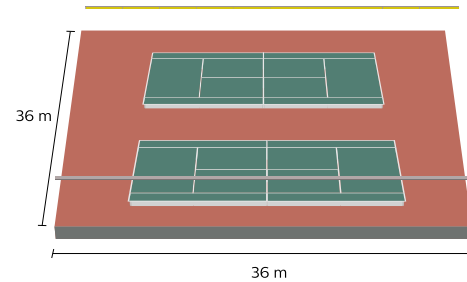
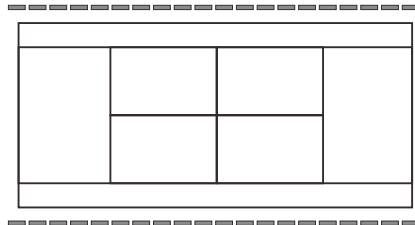
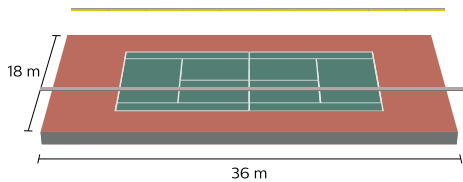
## Class I, Eav>500lx, U0>0.7

Installation height	7m
Fixture	10pcs 150w
Eav	555LX
Emin/Eav	0.75
Emin/Emax	0.66

## Class II, Eav>300lx, U0>0.7

Installation height	6.5m
Fixture	8pcs 100w
Eav	301LX
Emin/Eav	0.73
Emin/Emax	0.61

# Outdoor Tennis Court



## Class I, $E_{av} > 500lx$ , $U_0 > 0.7$

Fixture	42pcs 60w
Installation	4m
Eav	512lx
Emin/Eav	0.81
Emin/Emax	0.7
ULR	12%
GR Max	43

## Class II, $E_{av} > 300lx$ , $U_0 > 0.7$

Fixture	42pcs 43w
Installation	3m
Eav	384lx
Emin/Eav	0.76
Emin/Emax	0.69
ULR	16%
GR Max	49

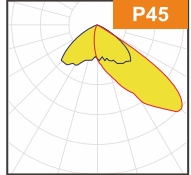
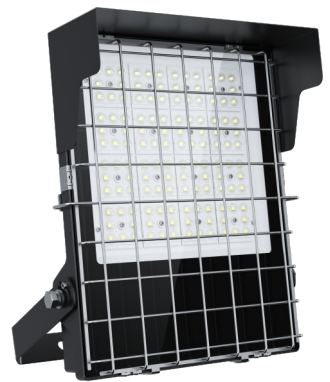
## Class II, $E_{av} > 300lx$ , $U_0 > 0.7$

Fixture	42pcs 80w
Installation	4m
Eav	339lx
Emin/Eav	0.7
Emin/Emax	0.58
ULR	18%
GR Max	55

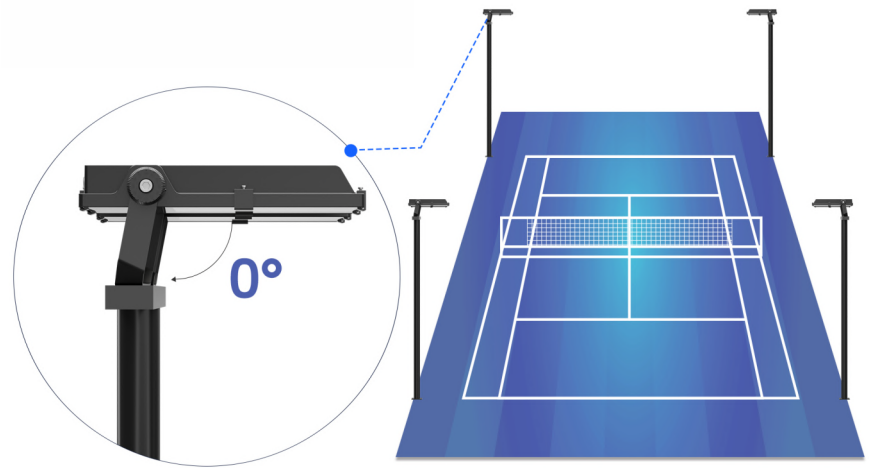
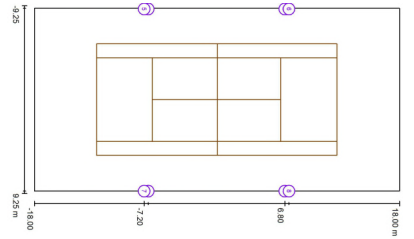
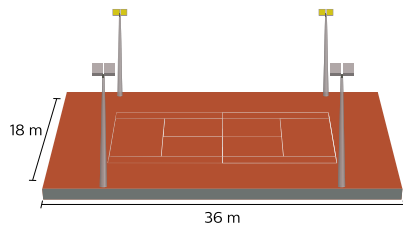
# Outdoor Tennis Court



## Slim G3



- AC100-277V
- 40 to +60 °C
- IP66
- IK10
- 6KV Surge Protection
- GR 0/1
- 50,000H



**ULR 0%**  
totally ZERO upward light  
illuminance increases by 20-40% compared to others

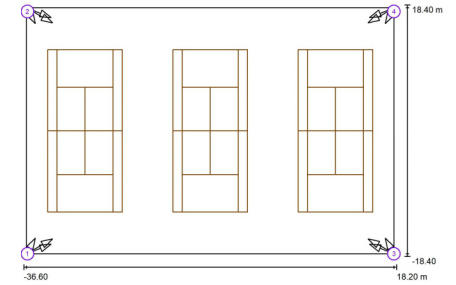
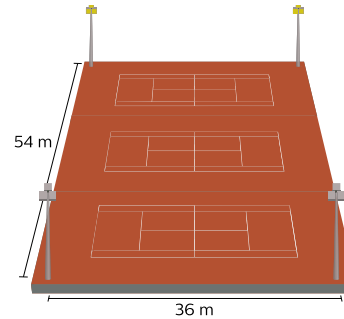
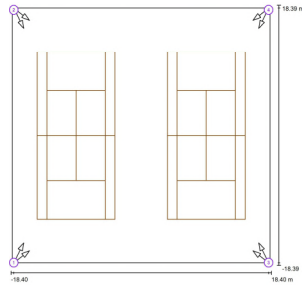
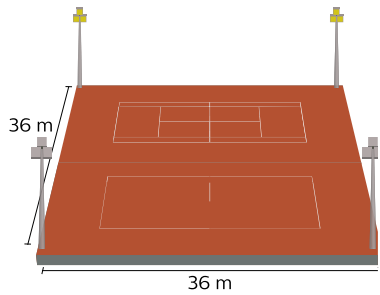
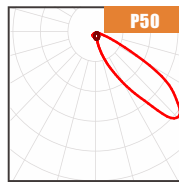
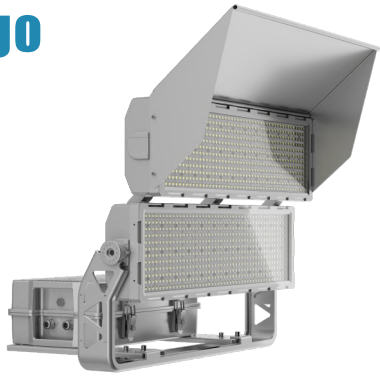
### Class I, Eav > 500lx, U0 > 0.7

Fixture	8pcs 240w P45
Installation	8m
	0 degree horizontal
Eav	504lx
Emin/Eav	0.81
Emin/Emax	0.74
ULR	0%
GR Max	33

### Class II, Eav > 300lx, U0 > 0.7

Fixture	8pcs 150w P45
Installation	8m
	0 degree horizontal
Eav	315lx
Emin/Eav	0.81
Emin/Emax	0.73
ULR	0%
GR Max	33

**Lego**



**Class II, E<sub>av</sub>>300lx, U<sub>0</sub>>0.7**

Fixture	8pcs 500w P50
Installation	12m
Rotation	20 degree
E <sub>av</sub>	390lx
E <sub>min</sub> /E <sub>av</sub>	0.72
E <sub>min</sub> /E <sub>max</sub>	0.64
ULR	1%
GR Max	39

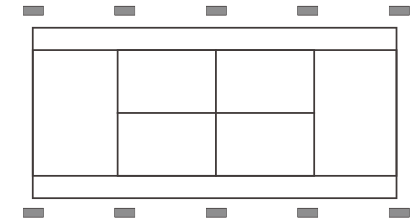
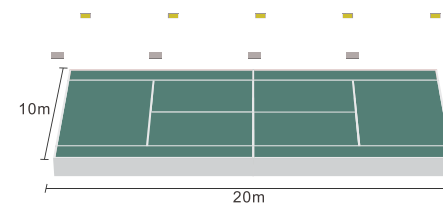
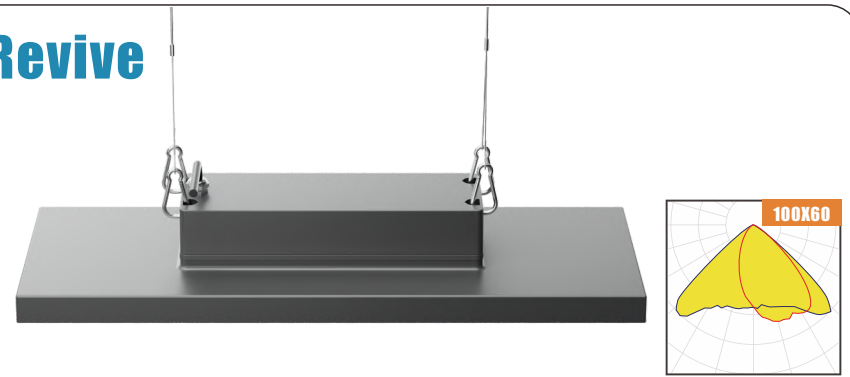
**Class II, E<sub>av</sub>>300lx, U<sub>0</sub>>0.7**

Fixture	12pcs 500w P50
Installation	15m
Rotation	20 degree
E <sub>av</sub>	354lx
E <sub>min</sub> /E <sub>av</sub>	0.77
E <sub>min</sub> /E <sub>max</sub>	0.7
ULR	1%
GR Max	35

# Indoor Tennis Court



## Revive



### Level of competition

	Class		
	I	II	III
International/ National	●		
Regional	●	●	
Local	●	●	●
Training		●	●
Recreational			●

### EN12193 Requirements

	Class	Class		
		I	II	III
Horizontal illuminance	$E_m$ lx	500	300	200
	$E_{min}/E_m$	0.7	0.7	0.6
GR		50	50	55
Ra		60	60	20

### Class I, $E_{av} > 500lx$ , $U_0 > 0.7$

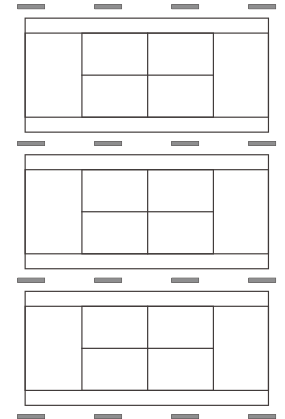
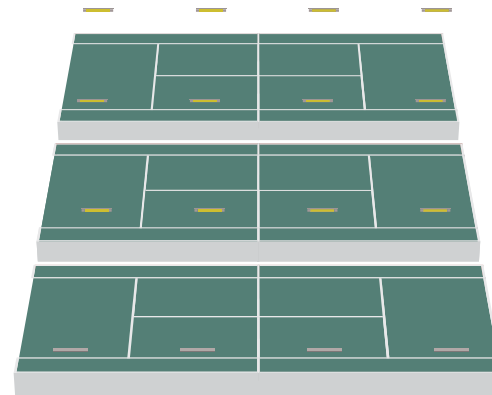
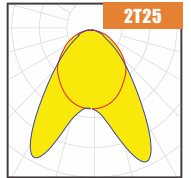
Fixture	8pcs 150w 100x60
Installation	6m
	0 degree horizontal
Eav	548lx
Emin/Eav	0.75
Emin/Emax	0.64
ULR	0%
GR Max	29

### Class II, $E_{av} > 300lx$ , $U_0 > 0.7$

Fixture	4pcs 200w 100x60
Installation	6m
	0 degree horizontal
Eav	356lx
Emin/Eav	0.77
Emin/Emax	0.64
ULR	0%
GR Max	31



# Hemera



## Class I, Eav>500lx, U0>0.7

Installation height	7m
Fixture	16pcs 150w
Eav	518lx
Emin/Eav	0.85
Emin/Emax	0.78

# Indoor Play Area



To ensure that every match and show can be performed smoothly, and to assist operatives to remain live broadcast, anti-glaring light is required more and more for sport field where people doesn't feel comfortable with the glaring light, especially when the light were not very high. Our LED fixtures, engineered with anti-glaring design, enhance the game experience for both players and spectators.

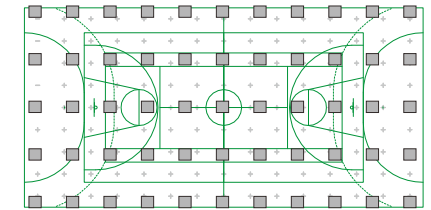
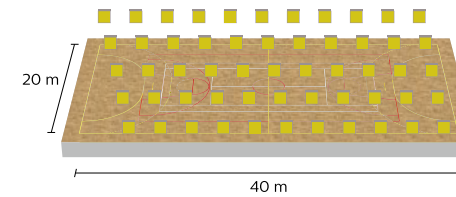
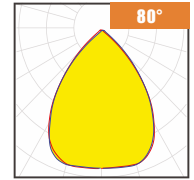
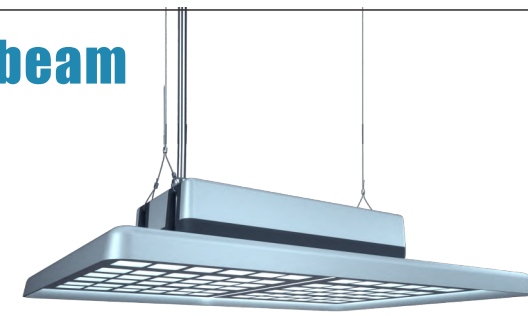
## Level of competition

	Class		
	I	II	III
International/ National	●		
Regional	●	●	
Local	●	●	●
Training		●	●
Recreational			●

## EN12193 Requirements

	Class	Class		
		I	II	III
Horizontal illuminance	$\bar{E}_m$ lx	500	300	200
	$E_{min}/E_m$	0.7	0.7	0.6
GR		50	50	55
Ra		60	60	20

## Mildbeam



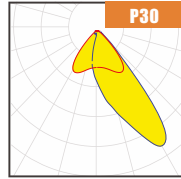
### Class I, $E_{av} > 750 \text{ lx}$ , $U_0 > 0.7$

Installation	7m
Fixture	55 pcs 120w D 110
$E_{av}$	778 lx
$E_{min}/E_{av}$	0.81
$E_{min}/E_{max}$	0.72
GR Max	12

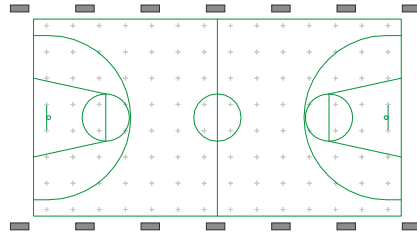
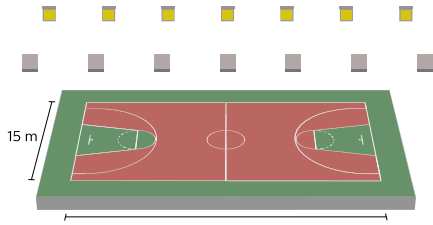
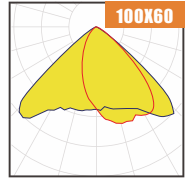
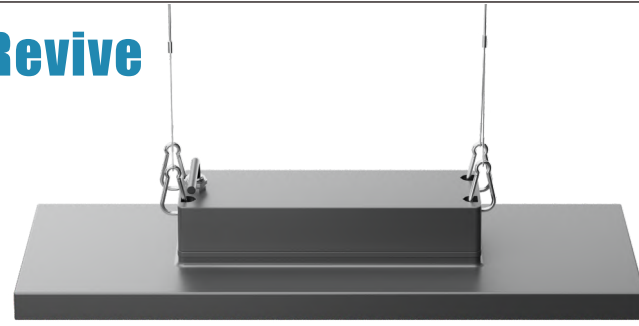
### Class II, $E_{av} > 500 \text{ lx}$ , $U_0 > 0.7$

Installation	7m
Fixture	36 pcs 120w
$E_{av}$	510 lx
$E_{min}/E_{av}$	0.81
$E_{min}/E_{max}$	0.73
GR Max	12

# Navigator



# Revive



## Class I, $E_{av} > 750lx$ , $U_0 > 0.7$

Installation	7m
Fixture	14 pcs 300w P30
$E_{av}$	717lx
$E_{min}/E_{av}$	0.84
$E_{min}/E_{max}$	0.76
GR Max	34

## Class II, $E_{av} > 500lx$ , $U_0 > 0.7$

Installation	7m
Fixture	16 pcs 200w
$E_{av}$	527lx
$E_{min}/E_{av}$	0.84
$E_{min}/E_{max}$	0.76
GR Max	32

## Class I, $E_{av} > 500lx$ , $U_0 > 0.7$

Fixture	8 pcs 150w 100x60
Installation	6m 0 degree horizontal
$E_{av}$	548lx
$E_{min}/E_{av}$	0.75
$E_{min}/E_{max}$	0.64
ULR	0%
GR Max	29

## Class II, $E_{av} > 300lx$ , $U_0 > 0.7$

Fixture	4 pcs 200w 100x60
Installation	6m 0 degree horizontal
$E_{av}$	356lx
$E_{min}/E_{av}$	0.77
$E_{min}/E_{max}$	0.64
ULR	0%
GR Max	31

# Football Stadium



Professional high mast light is required more and more for applications of exterior stadium where not only lux on ground is asked, but also homogeneity, small beam angle, long lifetime and UV resistance are even more important. Our design team works to achieve optimum uniformity and maximum lux levels by using tailored lights, lenses and visor system to provide the correct distribution of light for your courts. It not only increases the performance of players, but also the atmosphere of the match.

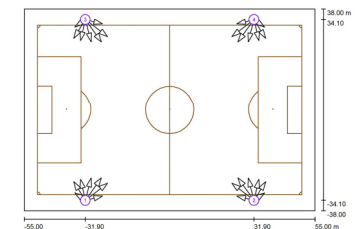
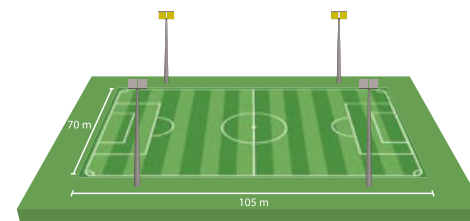
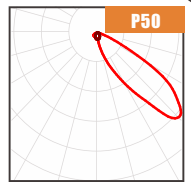
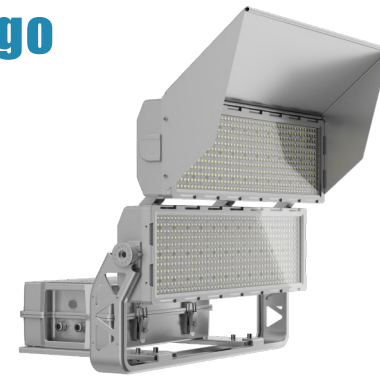
## Level of competition

	Class		
	I	II	III
International/ National	●		
Regional	●	●	
Local	●	●	●
Training		●	●
Recreational			●

## EN12193 Requirements

	Class	Class		
		I	II	III
Horizontal illuminance	$\bar{E}_m$ lx	500	300	200
	$E_{min}/\bar{E}_m$	0.7	0.7	0.6
GR		50	50	55
Ra		60	60	20

**Lego**



## Class I, $E_{av}>500lx$ , $U0>0.7$

Fixture	28pcs 1500w P50
Installation	18m
Rotation	15-20 degree
Eav	531lx
Emin/Eav	0.75
Emin/Emax	0.6
ULR	3%
GR Max	42

## Class II, $E_{av}>300lx$ , $U0>0.7$

Fixture	24pcs 1000w P50
Installation	15m
Rotation	20-30 degree
Eav	306lx
Emin/Eav	0.73
Emin/Emax	0.53
ULR	4%
GR Max	45

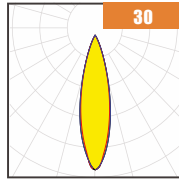
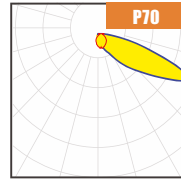
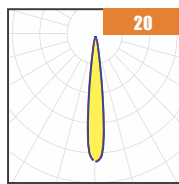
## Class II, $E_{av}>200lx$ , $U0>0.6$

Fixture	16pcs 1000w P50
Installation	15m
Rotation	25-30 degree
Eav	208lx
Emin/Eav	0.66
Emin/Emax	0.47
ULR	4%
GR Max	45

## Class III, $E_{av}>75lx$ , $U0>0.5$

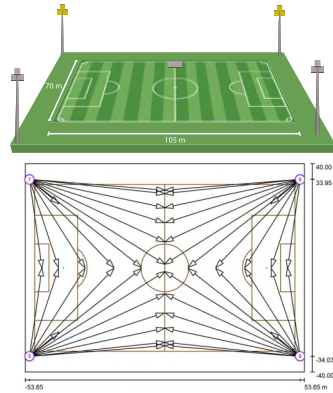
Fixture	16pcs 500w P50
Installation	12m
Rotation	25-30 degree
Eav	103lx
Emin/Eav	0.58
Emin/Emax	0.35
ULR	5%
GR Max	48

# Sniper



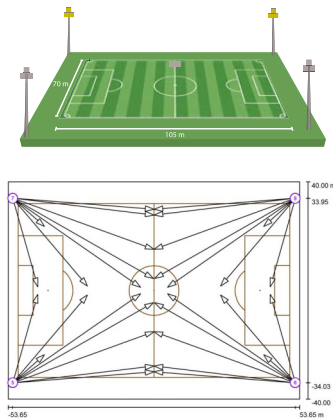
## Class I, $E_{av} > 1000lx$ , $U_0 > 0.7$

Mast	4x24m
Fixture	36pcs 1800W D20/D30 12pcs 1500W D20
Eav	1023lx
Em in /Eav	0.74
Em in /Em ax	0.67
GR Max	45



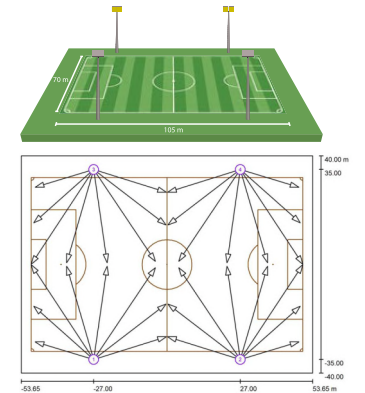
## Class I, $E_{av} > 500lx$ , $U_0 > 0.7$

Mast	4x24m
Fixture	28pcs 1500W D20 4pcs 1200W D30
Eav	555lx
Em in /Eav	0.79
Em in /Em ax	0.64
GR Max	44



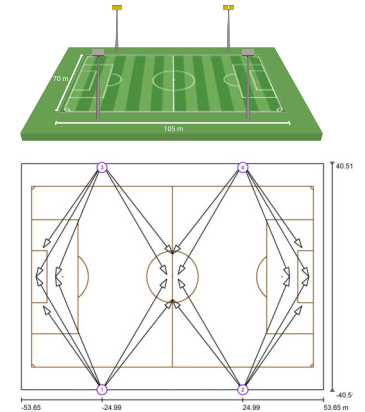
## Class I, $E_{av} > 1000lx$ , $U_0 > 0.7$

Mast	4x18m
Fixture	16pcs 1200W D30 16pcs 1500W D20
Eav	553lx
Em in /Eav	0.74
Em in /Em ax	0.62
GR Max	46



## Class II, $E_{av} > 200lx$ , $U_0 > 0.6$

Mast	4x18m
Fixture	20pcs 1200w MBP70
Eav	202lx
Em in /Eav	0.61
Em in /Em ax	0.42
GR Max	45



## Class II, $E_{av} > 75lx$ , $U_0 > 0.5$

Mast	4x18m
Fixture	8pcs 1200W MBP70
Eav	89lx
Em in /Eav	0.58
Em in /Em ax	0.42
GR Max	45

