



SPORT TECHNICAL

M A N U A L



GLI OBIETTIVI
ILLUMINOTECNICI
DELL'ILLUMINAZIONE
SPORTIVA POSSONO
DIFFERIRE IN FUNZIONE
DELLA NAZIONE, DELLA
FEDERAZIONE COMPETENTE
O DI ALTRI DOCUMENTI
TECNICI DI RIFERIMENTO.

Nel presente manuale, al fine di
uniformare i criteri di valutazione
e progettazione, si assume come
riferimento la norma EN 12193.

THE LIGHTING OBJECTIVES
OF SPORTS LIGHTING MAY
DIFFER DEPENDING ON THE
NATION, THE COMPETENT
FEDERATION OR OTHER
TECHNICAL REFERENCE
DOCUMENTS.

In this manual, in order to standardize
the evaluation and design criteria, the EN
12193 standard is taken as a reference.

RIFERIMENTO MANUALE LND FIGC LND FIGC Manual Reference

Per la maggior parte degli sport, vengono stabilite le classi di illuminazione specificate negli
standard EN. A seconda della classe, il livello può variare da 75 a 750 lux sul campo da calcio.

For most sports, lighting classes are specified in the EN standards. Depending on the class, the level
can vary from 75 to 750 lux on the football pitch.

CLASS I

Gara di altissimo livello, come una gara internazionale e nazionale che generalmente implicherà
ampie capienze di spettatori e potenziali distanze di visione elevate. In questa categoria può essere
compreso anche un allenamento di altissimo livello. Per alcuni sport, i requisiti dell'organismo di
regolamentazione possono avere la precedenza sui valori riportati nella presente norma.

High-level competition, similar to an international or national event that generally involves large
spectator capacities and potentially long viewing distances. This category may also include
high-level training sessions. For some sports, the requirements of the governing body may take
precedence over the values stated in this standard.

CLASS II

Gara di livello intermedio, come una gara tra squadre regionali o locali, che generalmente implica
capienze medie di spettatori con distanze di visione medie. In questa categoria può essere
compreso anche un allenamento di alto livello.

Intermediate-level competition, such as a match between regional or local teams, which generally
involves medium spectator capacities and average viewing distances. This category may also
include high-level training sessions.

CLASS III

Gara di basso livello, come una gara tra squadre locali o piccole, che generalmente non implicano
la presenza di spettatori. In questa categoria rientreranno anche il generico allenamento,
l'educazione fisica (gare sportive scolastiche) e le attività ricreative.

Low-level competition, such as a match between local or small teams, which generally does not
involve the presence of spectators. This category also includes general training, physical education
(school sports competitions), and recreational activities.

	CLASS I	CLASS II	CLASS III
INTERNAZIONALE E NAZIONALE INTERNATIONAL AND NATIONAL	X		
REGIONALE REGIONAL	X	X	
LOCALE LOCAL	X	X	X
ALLENAMENTO TRAINING		X	X
ATTIVITÀ SPORTIVE RICREATIVE RECREATIONAL			X

Temperatura di riferimento scenari 25° outdoor - 40° indoor
Reference temperature scenarios 25° outdoor - 40° indoor



CALCIO A 5

FIVE A SIDE FOOTBALL

Normativa *Legislation*
EN12193

		CLASS I	CLASS II	CLASS III
ILLUMINAMENTO ORIZZONTALE HORIZONTAL ILLUMINATING	Em (lx)	500	200	75
	Emin/Em	0.7	0.6	0.5
GR		55	55	55
Ra		70	60	60

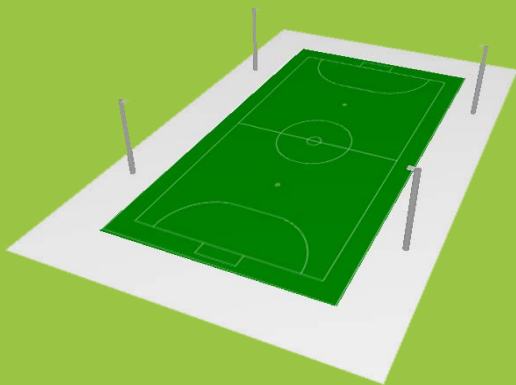
OUTDOOR
SPORT
LIGHTING

CALCIO A 5

Five-a-side football

CLASSE I Class I

EN12193



ALO 3 2T12

Ottiche B-Asimmetriche *B-Asymmetric Optics*

Codice *Code*: BAR/BAL 7057.650-66M

1525W

CALCIO A 5

Five-a-side football

CLASSE II Class II

EN12193



ALO 2 2T12

Ottiche B-Asimmetriche *B-Asymmetric Optics*

Codice *Code*: BAR/BAL 7057.350-44M

546W

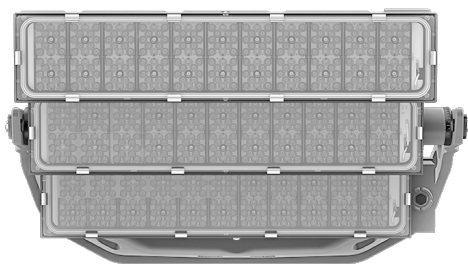
Dettagli *Details*

Area PA	40 x 20 m
Pali <i>Poles</i>	4 x 8m
Proiettore <i>Floodlight</i>	4 (n°) x ALO3
Potenza <i>Power</i> (W)	6100
Em (lx)	519
Emin/Em	0.83
Ra	70
GR max	45
MF	0.9

Specifiche *Specifications*

Em (lx)	500
Emin/Em	0.7
GR	55
Ra	70

Proiettore *Floodlight*



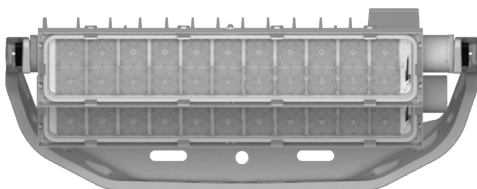
Dettagli *Details*

Area PA	40 x 20 m
Pali <i>Poles</i>	4 x 8m
Proiettore <i>Floodlight</i>	4 (n°) x ALO2
Potenza <i>Power</i> (W)	2184
Em (lx)	220
Emin/Em	0.82
Ra	70
GR max	43.7
MF	0.9

Specifiche *Specifications*

Em (lx)	200
Emin/Em	0.6
GR	55
Ra	60

Proiettore *Floodlight*



CALCIO A 5

Five-a-side football

CLASSE III *Class III* EN12193



ALO 1 2T12

Ottiche B-Asimmetriche *B-Asymmetric Optics*
Codice *Code*: BAR/BAL 7057.350-22M
268W

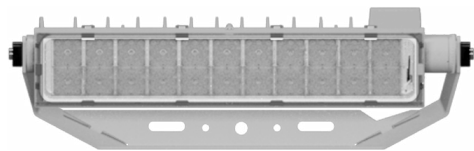
Dettagli *Details*

Area PA	40 x 20 m
Pali <i>Poles</i>	4 x 8m
Proiettore <i>Floodlight</i>	4 (n°) x ALO1
Potenza <i>Power</i> (W)	1072
Em (lx)	107
Emin/Em	0.82
Ra	70
GR max	42.8
MF	0.9

Specifiche *Specifications*

Em (lx)	75
Emin/Em	0.5
GR	55
Ra	60

Proiettore *Floodlight*



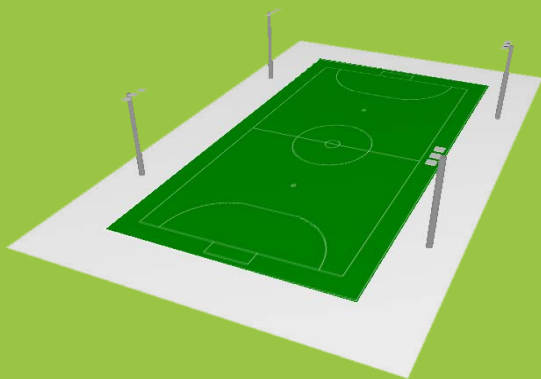
SOLUTIONS
FOR EVERY
SPORT.

CALCIO A 5

Five-a-side football

CLASSE I Class I

EN12193



MX PRO 3 5P5

Ottiche Asimmetriche *Asymmetric Optics*

Codice *Code*: S07 7040.140-20M

510W

CALCIO A 5

Five-a-side football

CLASSE II Class II

EN12193



MX PRO 3 5P5

Ottiche Asimmetriche *Asymmetric Optics*

Codice *Code*: S07 7040.180-10M

332W

Dettagli *Details*

Area PA	40 x 20 m
Pali <i>Poles</i>	4 x 8m
Proiettore <i>Floodlight</i>	12 (n°) x MX PRO 3
Potenza <i>Power</i> (W)	6120
Em (lx)	501
Emin/Em	0.7
Ra	70
GR max	42.9
MF	0.9

Proiettore *Floodlight*



Specifiche *Specifications*

Em (lx)	500
Emin/Em	0.7
GR	55
Ra	70

Dettagli *Details*

Area PA	40 x 20 m
Pali <i>Poles</i>	4 x 8m
Proiettore <i>Floodlight</i>	8 (n°) x MX PRO 3
Potenza <i>Power</i> (W)	2656
Em (lx)	215
Emin/Em	0.73
Ra	70
GR max	42.3
MF	0.9

Proiettore *Floodlight*



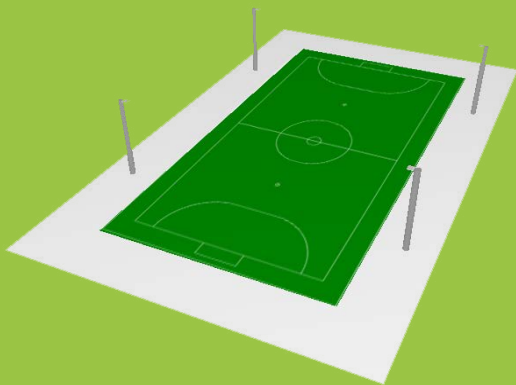
Specifiche *Specifications*

Em (lx)	200
Emin/Em	0.6
GR	55
Ra	60

CALCIO A 5

Five-a-side football

CLASSE III *Class III* EN12193



MX PRO 2 5P5

Ottiche Asimmetriche *Asymmetric Optics*

Codice *Code*: S07 7040.180-8M

263W

Dettagli *Details*

Area PA	40 x 20 m
Pali <i>Poles</i>	4 x 8m
Proiettore <i>Floodlight</i>	4 (n°) x MX PRO 2
Potenza <i>Power</i> (W)	1052
Em (lx)	83
Emin/Em	0.69
Ra	70
GR max	41.2
MF	0.9

Specifiche *Specifications*

Em (lx)	75
Emin/Em	0.5
GR	55
Ra	60

Proiettore *Floodlight*



VISUAL
COMFORT
IN EVERY
GAME.



CALCIO A 11

FOOTBALL

Normativa *Legislation*
EN12193

		CLASS I	CLASS II	CLASS III
ILLUMINAMENTO ORIZZONTALE <i>HORIZONTAL ILLUMINATING</i>	Em (lx)	500	200	75
	Emin/Em	0.7	0.6	0.5
GR		55	55	55
Ra		70	60	60

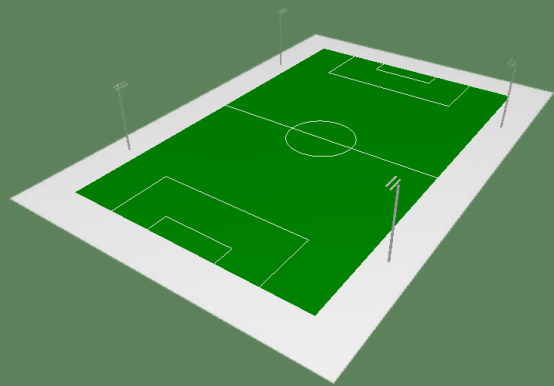
Ref.	Classe <i>Class</i>	Eh (lux)	Uniformità <i>Uniformity</i>			GR	Ra	Tc
			U2	U1	U2%			
UNI / CONI	I	500	0,7	0,5	25/5 m	55	70	4000 ≤ T ≤ 6500 (1)
	II	200	0,6	0,5	25/5 m	55	60	4000 ≤ T ≤ 6500 (1)
	III	75	0,5	0,5	25/5 m	55	60	4000 ≤ T ≤ 6500 (1)
LND	1 < 20.000	300	0,7	0,6		50		4200 ≤ T ≤ 5600
	2 < 5000	150	0,6	0,6		50		4200 ≤ T ≤ 5600
	3 < 3000	100	0,6	0,4		55		4200 ≤ T ≤ 5600
FIFA	III	750 (3)	0,7		30/10m		65	T ≥ 4000
	II	500 (3)	0,6		30/10m		65	T ≥ 4000
	I	200 (3)	0,5		30/10m		65	T ≥ 4000

RIGHT
SPORT
OUTDOOR

CALCIO A 11

Football

CLASSE I *Class I*
EN12193



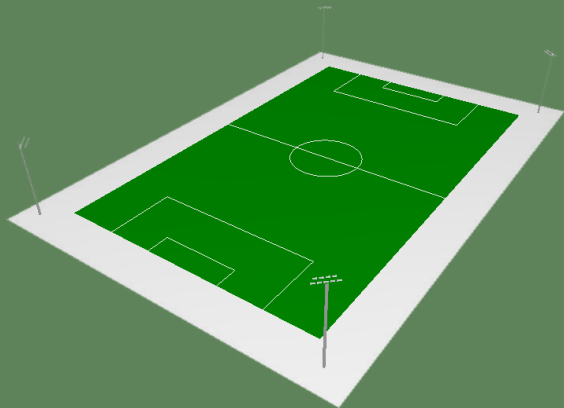
ALO 3 2T12

Ottiche B-Asimmetriche *B-Asymmetric Optics*
Codice *Code*: BAR/BAL 7057.650-66M
1525W

CALCIO A 11

Football

CLASSE I *Class I*
EN12193



ALO 3 2T12

Ottiche Asimmetriche *Asymmetric Optics*
Codice *Code*: ASN 7057.650-66M
1525W

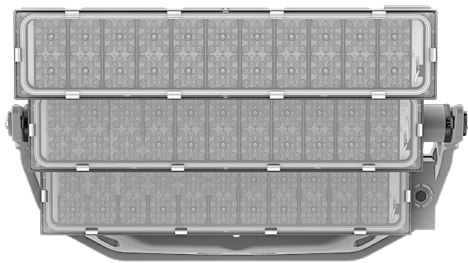
Dettagli *Details*

Area PA	105 x 65 m
Pali <i>Poles</i>	4 x 25 m
Proiettore <i>Floodlight</i>	32 (n°) x ALO3
Potenza <i>Power</i> (W)	48800
Em (lx)	520
Emin/Em	0.84
Ra	70
GR max	46.2
MF	0.9

Specifiche *Specifications*

Em (lx)	500
Emin/Em	0.7
GR	55
Ra	70

Proiettore *Floodlight*



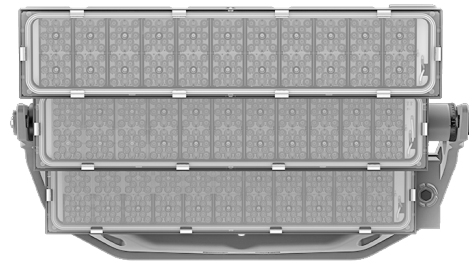
Dettagli *Details*

Area PA	105 x 65 m
Pali <i>Poles</i>	4 x 25 m
Proiettore <i>Floodlight</i>	36 (n°) x ALO3
Potenza <i>Power</i> (W)	54900
Em (lx)	512
Emin/Em	0.86
Ra	70
GR max	46.5
MF	0.9

Specifiche *Specifications*

Em (lx)	500
Emin/Em	0.7
GR	55
Ra	70

Proiettore *Floodlight*

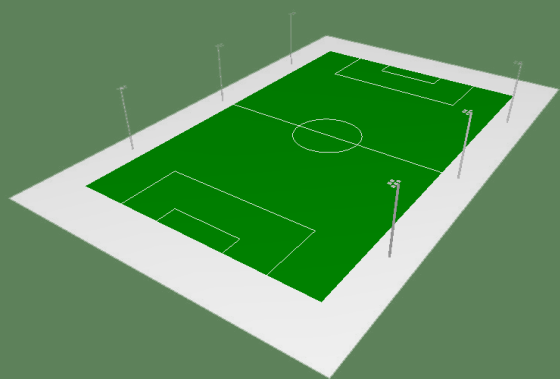


CALCIO A 11

Football

CLASSE I *Class I*

EN12193



ALO 3 2T12

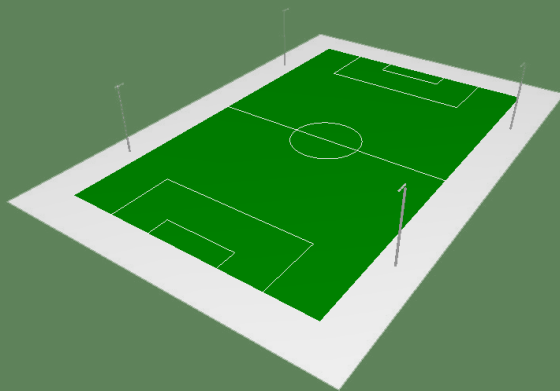
Ottiche B-Asimmetriche *B-Asymmetric Optics*
Codice *Code*: BAR/BAL 7057.650-66M
1640W

CALCIO A 11

Football

CLASSE II *Class II*

EN12193



ALO 3 2T12

Ottiche B-Asimmetriche *B-Asymmetric Optics*
Codice *Code*: BAR/BAL 7057.1700-66M
1640W

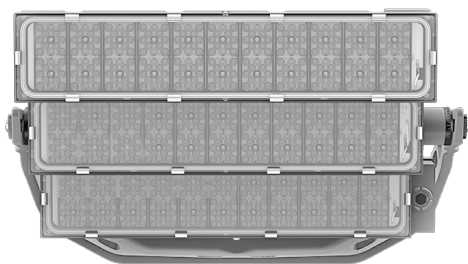
Dettagli *Details*

Area PA	105 x 65 m
Pali <i>Poles</i>	4 x 25 m
Proiettore <i>Floodlight</i>	30 (n°) x ALO3
Potenza <i>Power</i> (W)	49200
Em (lx)	520
Emin/Em	0.78
Ra	70
GR max	43.2
MF	0.9

Specifiche *Specifications*

Em (lx)	500
Emin/Em	0.7
GR	55
Ra	70

Proiettore *Floodlight*



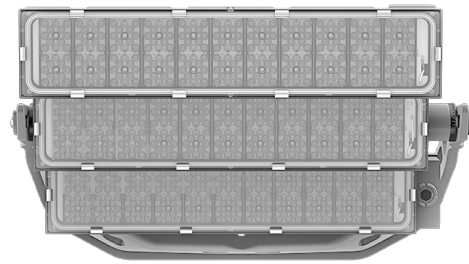
Dettagli *Details*

Area PA	105 x 65 m
Pali <i>Poles</i>	4 x 18 m
Proiettore <i>Floodlight</i>	12 (n°) x ALO3
Potenza <i>Power</i> (W)	19680
Em (lx)	208
Emin/Em	0.81
Ra	70
GR max	45.8
MF	0.9

Specifiche *Specifications*

Em (lx)	200
Emin/Em	0.6
GR	55
Ra	60

Proiettore *Floodlight*

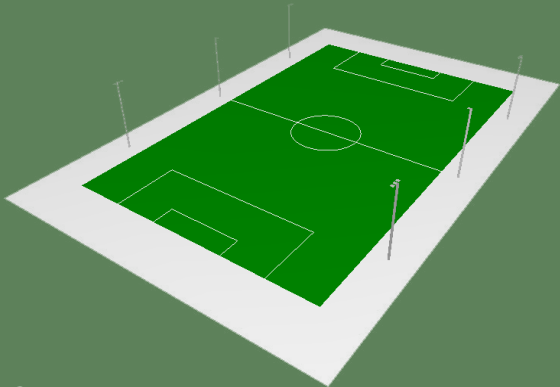


CALCIO A 11

Football

CLASSE II *Class II*

EN12193



ALO 3 2T12

Ottiche B-Asimmetriche *B-Asymmetric Optics*

Codice *Code*: BAR/BAL 7057.700-66M

1640W

ALO 1 2T12 (centrale *mid*)

Ottiche B-Asimmetriche *B-Asymmetric Optics*

Codice *Code*: BAC 7057.700-22M

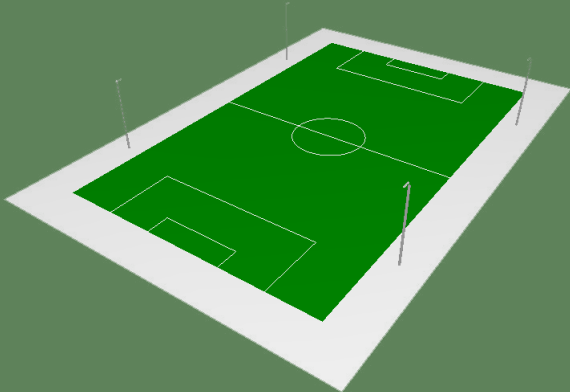
560W

CALCIO A 11

Football

CLASSE III *Class III*

EN12193



ALO 2 2T12

Ottiche B-Asimmetriche *B-Asymmetric Optics*

Codice *Code*: BAR/BAL 7057.550-44M

876W

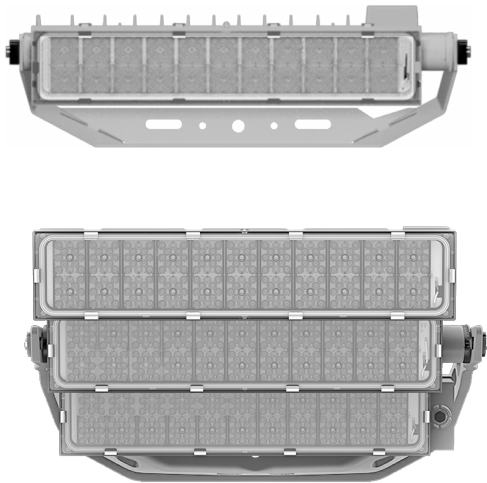
Dettagli *Details*

Area PA	105 x 65 m
Pali <i>Poles</i>	6 x 18 m
Proiettore <i>Floodlight</i>	12 (n°) x ALO3
	2 (n°) x ALO1
Potenza <i>Power</i> (W)	20800
Em (lx)	214
Emin/Em	0.85
Ra	70
GR max	45.2
MF	0.9

Specifiche *Specifications*

Em (lx)	200
Emin/Em	0.6
GR	55
Ra	60

Proiettore *Floodlight*



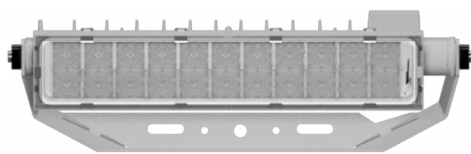
Dettagli *Details*

Area PA	105 x 65 m
Pali <i>Poles</i>	4 x 18 m
Proiettore <i>Floodlight</i>	8 (n°) x ALO2
Potenza <i>Power</i> (W)	7008
Em (lx)	80
Emin/Em	0.72
Ra	70
GR max	44.5
MF	0.9

Specifiche *Specifications*

Em (lx)	75
Emin/Em	0.5
GR	55
Ra	60

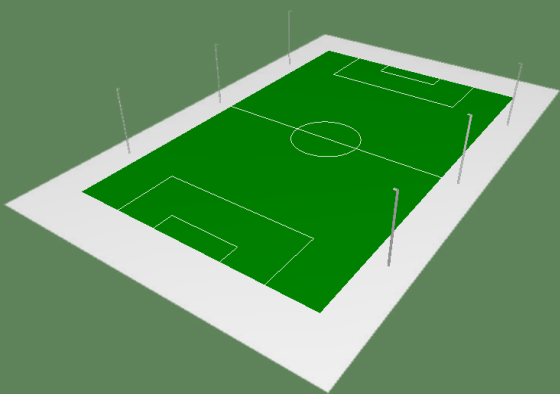
Proiettore *Floodlight*



CALCIO A 11

Football

CLASSE II *Class II* EN12193



ALO 3 2T12

Ottiche B-Asimmetriche *B-Asymmetric Optics*
Codice *Code*: BAR/BAL 7057.700-66M
1640W

ALO 1 2T12 (centrale *Mid*)

Ottiche B-Asimmetriche *B-Asymmetric Optics*
Codice *Code*: BAC 7057.700-22M
560W

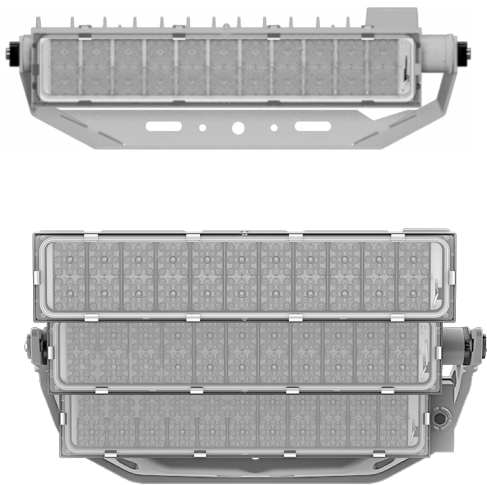
Dettagli *Details*

Area PA	105 x 65 m
Pali <i>Poles</i>	6 x 18 m
Proiettore <i>Floodlight</i>	4 (n°) x ALO3
	2 (n°) x ALO1
Potenza <i>Power</i> (W)	7680
Em (lx)	81
Emin/Em	0.78
Ra	70
GR max	43.1
MF	0.9

Specifiche *Specifications*

Em (lx)	75
Emin/Em	0.5
GR	55
Ra	60

Proiettore *Floodlight*



LIGHT THAT
ENHANCES
EVERY
ACTION.

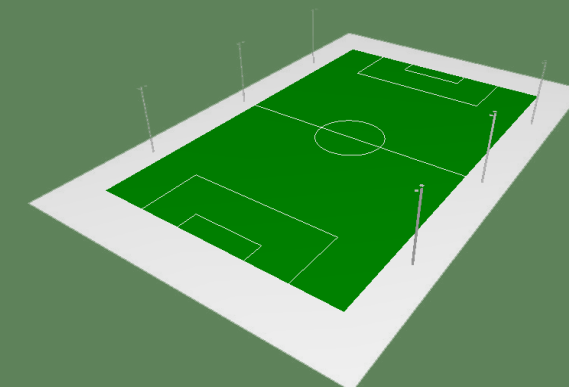
EVERY
MOVE
UNDER
PERFECT
VISIBILITY.

CALCIO A 11

Football

CLASSE III *Class III*

EN12193



MX PRO 3 5P5

Ottiche Asimmetriche *Asymmetric Optics*

Codice *Code*: AS-65W 7040.140-20M

510W

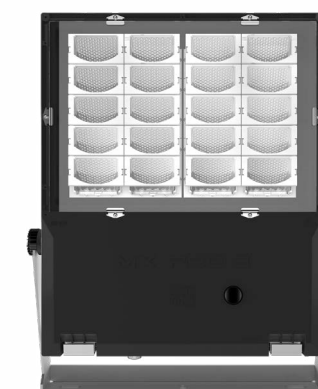
Dettagli *Details*

Area PA	105 x 65 m
Pali <i>Poles</i>	6 x 18 m
Proiettore <i>Floodlight</i>	12 (n°) x MX PRO 3
Potenza <i>Power</i> (W)	6120
Em (lx)	77
Emin/Em	0.74
Ra	70
GR max	41.2
MF	0.9

Specifiche *Specifications*

Em (lx)	75
Emin/Em	0.5
GR	55
Ra	60

Proiettore *Floodlight*



OUTDOOR



TENNIS OUTDOOR

Normativa *Legislation*
EN12193

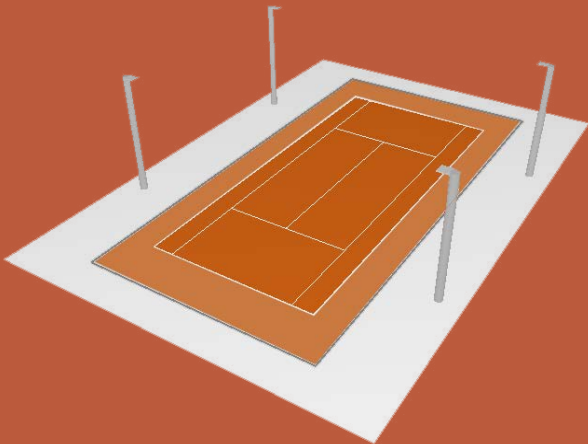
		CLASS I	CLASS II	CLASS III
ILLUMINAMENTO ORIZZONTALE <i>HORIZONTAL ILLUMINATING</i>	Em (lx)	500	300	200
	Emin/Em	0.7	0.7	0.7
GR		50	50	55
Ra		70	60	60

OUTDOOR
TENNIS
COURT

TENNIS

CLASSE I *Class I*

EN12193

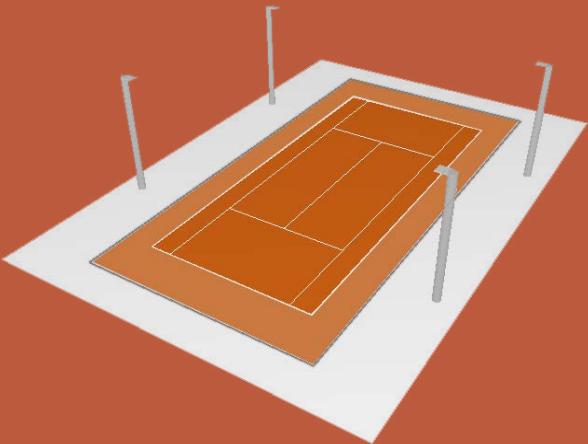


ALO 2 2T12
Ottiche B-Asimmetriche *B-Asymmetric Optics*
Codice *Code:* BAC 7057.550-44M
876W

TENNIS

CLASSE II *Class II*

EN12193



ALO 1 2T12
Ottiche B-Asimmetriche *B-Asymmetric Optics*
Codice *Code:* BAR/BAL 7057.700-22M
560W

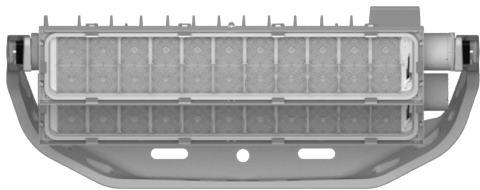
Dettagli *Details*

Area PA	30 x 15 m
Pali <i>Poles</i>	4 x 8 m
Proiettore <i>Floodlight</i>	4 (n°) x ALO2
Potenza <i>Power</i> (W)	3504
Em (lx)	505
Emin/Em	0.81
Ra	70
GR max	39.4
MF	0.9

Specifiche *Specifications*

Em (lx)	500
Emin/Em	0.7
GR	50
Ra	70

Proiettore *Floodlight*



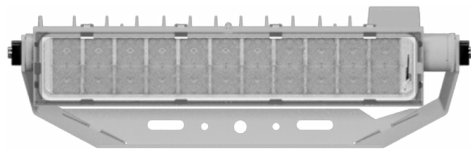
Dettagli *Details*

Area PA	30 x 15 m
Pali <i>Poles</i>	4 x 8 m
Proiettore <i>Floodlight</i>	4 (n°) x ALO1
Potenza <i>Power</i> (W)	2240
Em (lx)	301
Emin/Em	0.79
Ra	70
GR max	38.3
MF	0.9

Specifiche *Specifications*

Em (lx)	300
Emin/Em	0.7
GR	50
Ra	60

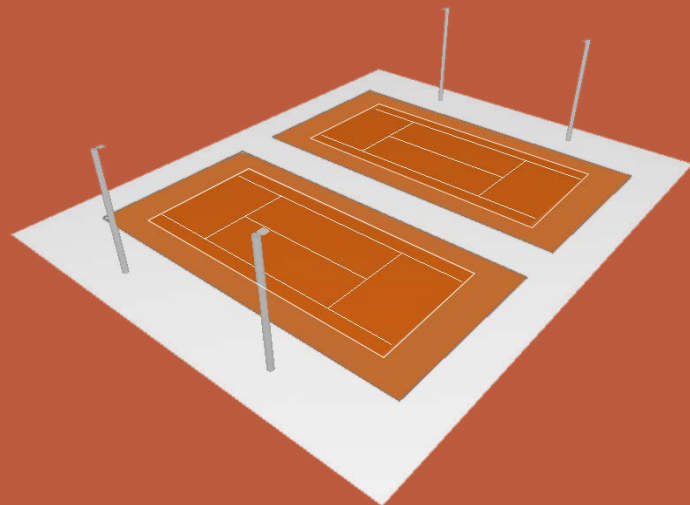
Proiettore *Floodlight*



TENNIS

CLASSE II *Class II*

EN12193

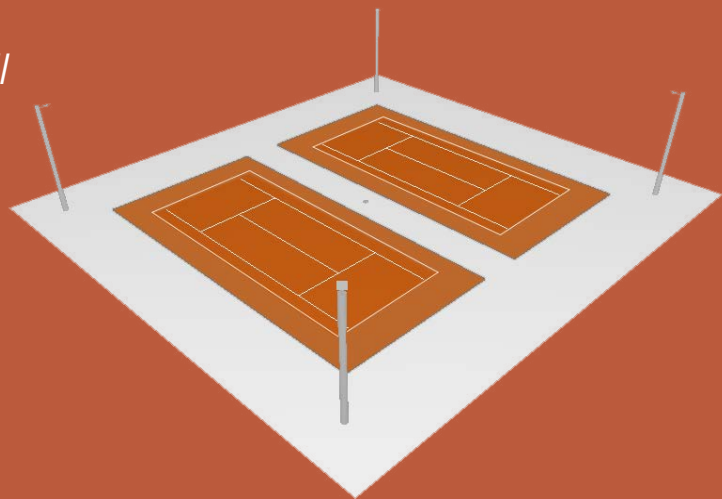


ALO 3 2T12
Ottiche Asimmetriche *Asymmetric Optics*
Codice *Code*: ASW 7057.550-66M
1280W

TENNIS

CLASSE II *Class II*

EN12193



ALO 3 2T12
Ottiche B-Asimmetriche *B-Asymmetric Optics*
Codice *Code*: BAR/BAL 7057.550-66M
1280W

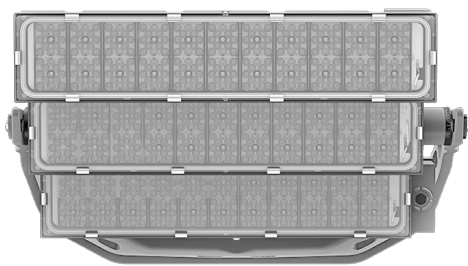
Dettagli *Details*

Area PA	n°2 campi <i>fields</i> : 30 x 15 m
Pali <i>Poles</i>	4 x 10 m
X/Y Posizione	0.5 m / 5.5 m
Proiettore <i>Floodlight</i>	4 (n°) x ALO3
Potenza <i>Power</i> (W)	5120
Em (lx)	302
Emin/Em	0.75
Ra	70
GR max	45.8
MF	0.9

Specifiche *Specifications*

Em (lx)	300
Emin/Em	0.7
GR	50
Ra	60

Proiettore *Floodlight*



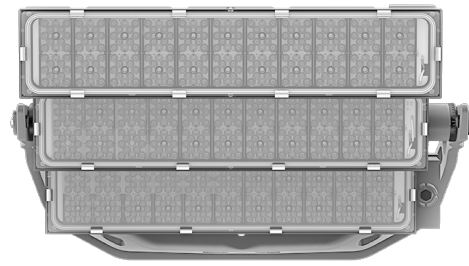
Dettagli *Details*

Area PA	n°2 campi <i>fields</i> : 30 x 15 m
Pali <i>Poles</i>	4 x 10 m
Proiettore <i>Floodlight</i>	4 (n°) x ALO3
Potenza <i>Power</i> (W)	5120
Em (lx)	311
Emin/Em	0.81
Ra	70
GR max	43.6
MF	0.9

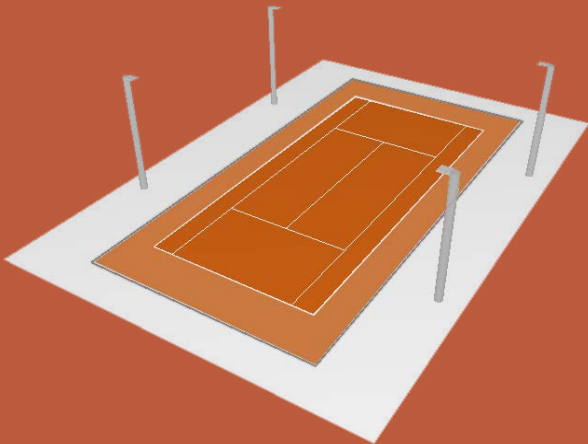
Specifiche *Specifications*

Em (lx)	300
Emin/Em	0.7
GR	50
Ra	60

Proiettore *Floodlight*



TENNIS
CLASSE III *Class III*
EN12193



ALO 1 2T12
Ottiche B-Asimmetriche *B-Asymmetric Optics*
Codice *Code*: BAR/BAL 7057.450-22M
346W

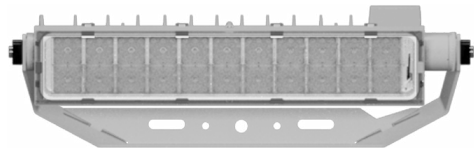
Dettagli *Details*

Area PA	30 x 15 m
Pali <i>Poles</i>	4 x 8 m
Proiettore <i>Floodlight</i>	4 (n°) x ALO1
Potenza <i>Power</i> (W)	1384
Em (lx)	214
Emin/Em	0.79
Ra	70
GR max	37.9
MF	0.9

Specifiche *Specifications*

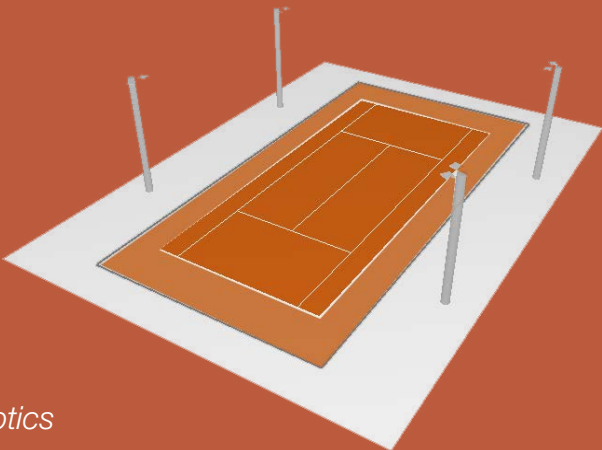
Em (lx)	200
Emin/Em	0.7
GR	55
Ra	60

Proiettore *Floodlight*



UNIFORM
LIGHTING,
NO DARK
SPOTS.

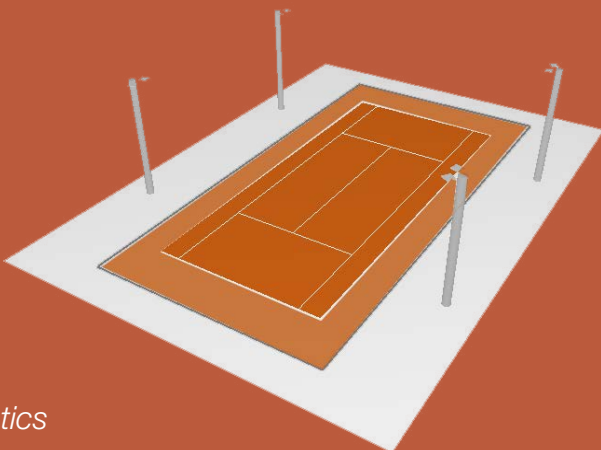
TENNIS
CLASSE I *Class I*
EN12193



MX PRO 3 5P5
Ottiche Asimmetriche *Asymmetric Optics*
Codice *Code*: AS65W 7040.140-20M
510W

MX PRO 3 5P5
Ottiche Asimmetriche *Asymmetric Optics*
Codice *Code*: AS55W 7040.180-12M
398W

TENNIS
CLASSE II *Class II*
EN12193



MX PRO 2 5P5
Ottiche Asimmetriche *Asymmetric Optics*
Codice *Code*: AS65W 7040.180-9M
296W

MX PRO 2 5P5
Ottiche Asimmetriche *Asymmetric Optics*
Codice *Code*: AS55W 7040.180-9M
296W

Dettagli *Details*

Area PA	30 x 15 m
Pali <i>Poles</i>	4 x 8 m
Proiettore <i>Floodlight</i>	8 (n°) x MX PRO 3
Potenza <i>Power</i> (W)	3632
Em (lx)	511
Emin/Em	0.74
Ra	70
GR max	39.2
MF	0.9

Proiettore *Floodlight*



Specifiche *Specifications*

Em (lx)	500
Emin/Em	0.7
GR	50
Ra	70

Dettagli *Details*

Area PA	30 x 15 m
Pali <i>Poles</i>	4 x 8 m
Proiettore <i>Floodlight</i>	8 (n°) x MX PRO 2
Potenza <i>Power</i> (W)	2368
Em (lx)	316
Emin/Em	0.76
Ra	70
GR max	38.7
MF	0.9

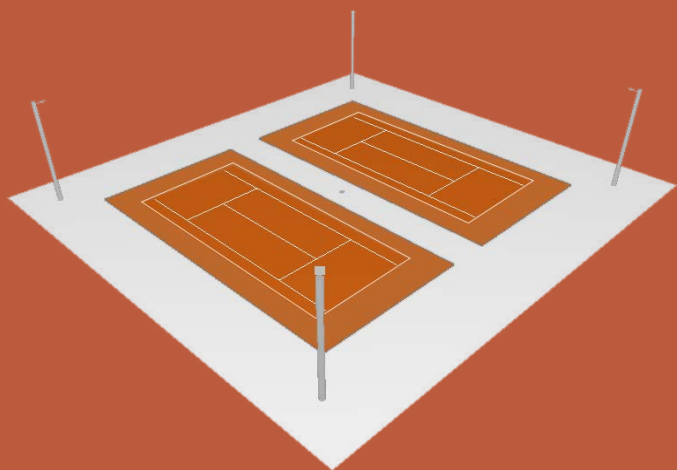
Proiettore *Floodlight*



Specifiche *Specifications*

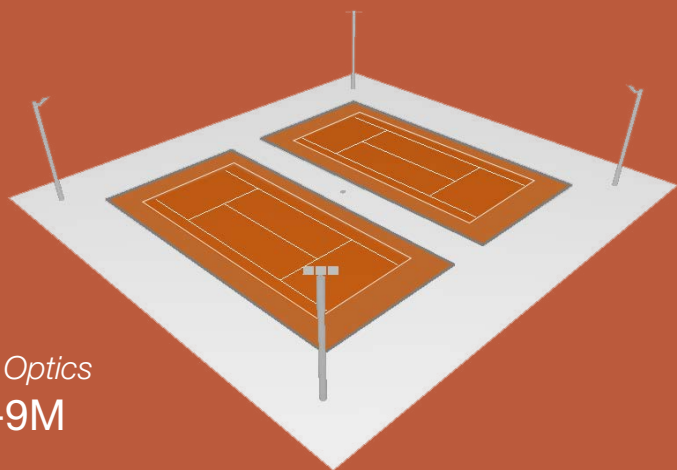
Em (lx)	300
Emin/Em	0.7
GR	50
Ra	60

TENNIS
CLASSE II *Class II*
EN12193



MX PRO 3 5P5
Ottiche Asimmetriche *Asymmetric Optics*
Codice *Code*: AS65W 7040.140-20M
510W

TENNIS
CLASSE II *Class II*
EN12193



MX PRO 2 5P5
Ottiche Asimmetriche *Asymmetric Optics*
Codice *Code*: AS65W 7040.180-9M
296W

MX PRO 3 5P5
Ottiche Asimmetriche *Asymmetric Optics*
Codice *Code*: AS55W 7040.140-20M
510W

Dettagli *Details*

Area PA	n°2 campi: 30 x 15 m
Pali <i>Poles</i>	4 x 10 m
X/Y Posizione	0.5 m / 5.5 m
Proiettore <i>Floodlight</i>	12 (n° proiettori) x MX PRO 3
Potenza <i>Power</i> (W)	6120
Em (lx)	312
Emin/Em	0.75
Ra	70
GR max	45.6
MF	0.9

Specifiche *Specifications*

Em (lx)	300
Emin/Em	0.7
GR	50
Ra	60

Proiettore *Floodlight*



Dettagli *Details*

Area PA	n°2 campi: 30 x 15 m
Pali <i>Poles</i>	4 x 10 m
Proiettore <i>Floodlight</i>	8 (n° proiettori) x MX PRO 2 4 (n° proiettori) x MX PRO 3
Potenza <i>Power</i> (W)	4408
Em (lx)	308
Emin/Em	0.73
Ra	70
GR max	42.2
MF	0.9

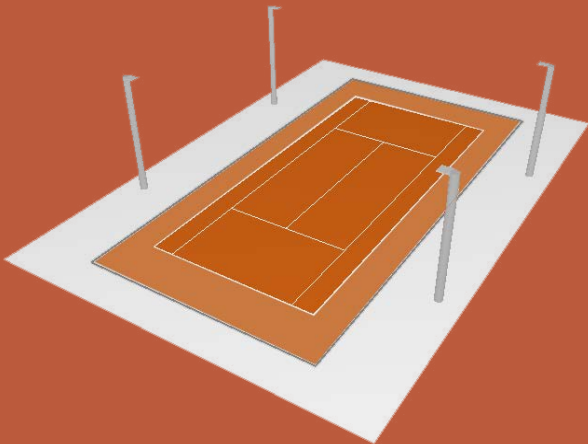
Specifiche *Specifications*

Em (lx)	300
Emin/Em	0.7
GR	50
Ra	60

Proiettore *Floodlight*



TENNIS
CLASSE III *Class III*
EN12193



MX PRO 3 5P5
Ottiche Asimmetriche *Asymmetric Optics*
Codice *Code:* S07 7040.140-16M
408W

Dettagli *Details*

Area PA	n°2 campi: 30 x 15 m
Pali <i>Poles</i>	4 x 10 m
X/Y Posizione	0.5 m / 5.5 m
Proiettore <i>Floodlight</i>	4 (n° proiettori) x MX PRO 3
Potenza <i>Power</i> (W)	1632
Em (lx)	205
Emin/Em	0.64
Ra	70
GR max	38.3
MF	0.9

Specifiche *Specifications*

Em (lx)	200
Emin/Em	0.7
GR	55
Ra	60

Proiettore *Floodlight*



LIGHT
THAT
DRIVES
THE GAME.

INDOOR



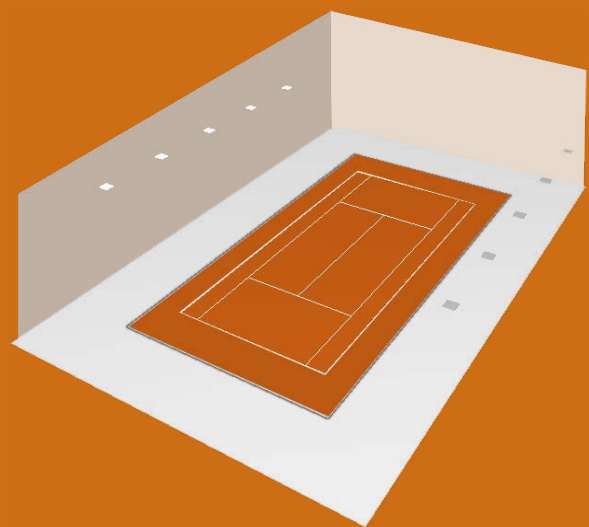
TENNIS INDOOR

Normativa *Legislation*
EN12193

ILLUMINAMENTO ORIZZONTALE <i>HORIZONTAL ILLUMINATING</i>		CLASS I	CLASS II	CLASS III
	Em (lx)	750	500	300
	Emin/Em	0.7	0.7	0.5
Ra		80	60	60

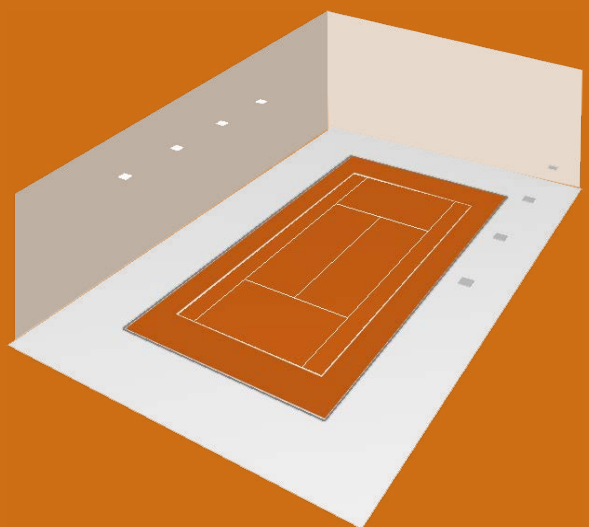
INDOOR
TENNIS
COURT

TENNIS
CLASSE I *Class I*
EN12193



ALO 2 2T12
Ottiche Asimmetriche *Asymmetric Optics*
Codice *Code*: ASM 8057.400-44M
628W

TENNIS
CLASSE II *Class II*
EN12193

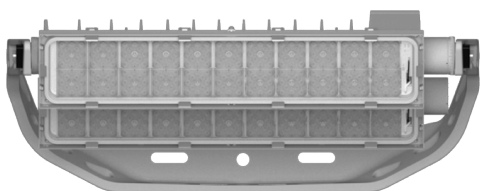


ALO 2 2T12
Ottiche Asimmetriche *Asymmetric Optics*
Codice *Code*: ASM 7057.350-44M
546W

Dettagli *Details*

Area PA	30 x 15 m
Pali <i>Poles</i>	Fila da H=7 m
Proiettore <i>Floodlight</i>	10 (n°) x ALO2
Potenza <i>Power</i> (W)	6280
Em (lx)	752
Emin/Em	0.77
Ra	80
MF	0.9

Proiettore *Floodlight*



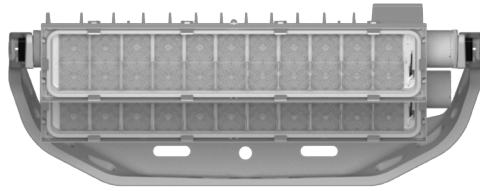
Specifiche *Specifications*

Em (lx)	750
Emin/Em	0.7
Ra	80

Dettagli *Details*

Area PA	30 x 15 m
Pali <i>Poles</i>	Fila da H=7 m
Proiettore <i>Floodlight</i>	8 (n°) x ALO2
Potenza <i>Power</i> (W)	4368
Em (lx)	525
Emin/Em	0.84
Ra	70
MF	0.9

Proiettore *Floodlight*



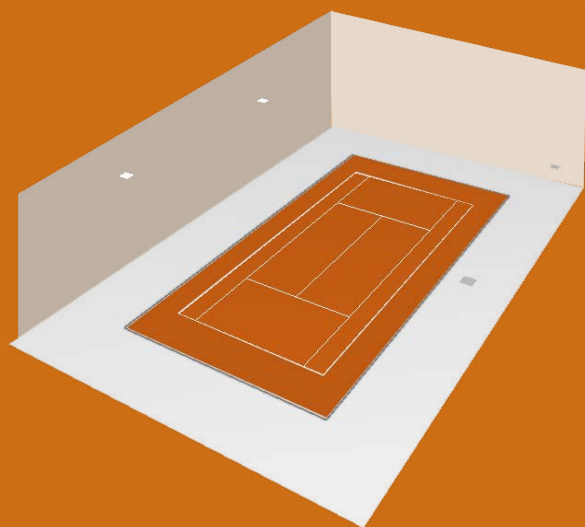
Specifiche *Specifications*

Em (lx)	500
Emin/Em	0.7
Ra	60

TENNIS

CLASSE III *Class III*

EN12193

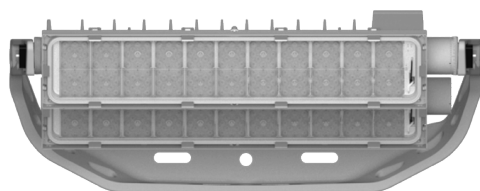


ALO2 2T12
Ottiche B-Asimmetriche *B-Asymmetric Optics*
Codice *Code*: BAC 7057.400-44M
628W

Dettagli *Details*

Area PA	30 x 15 m
Pali <i>Poles</i>	Fila da H=7 m
Proiettore <i>Floodlight</i>	4 (n°) x ALO2
Potenza <i>Power</i> (W)	2512
Em (lx)	304
Emin/Em	0.75
Ra	70
MF	0.9

Proiettore *Floodlight*



Specifiche *Specifications*

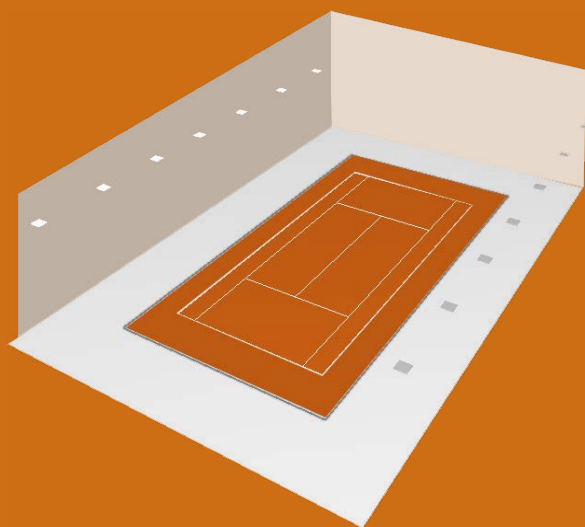
Em (lx)	300
Emin/Em	0.7
Ra	60

SMART
LIGHTING
MADE
SIMPLE

TENNIS

CLASSE I *Class I*

EN12193

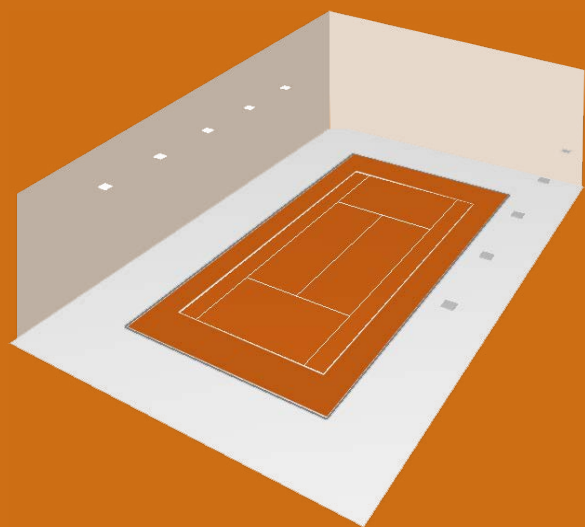


MX PRO 3 5P5
Ottiche Asimmetriche *Asymmetric Optics*
Codice *Code*: AS65M 8040.140-18M
459W

TENNIS

CLASSE II *Class II*

EN12193



MX PRO 3 5P5
Ottiche Asimmetriche *Asymmetric Optics*
Codice *Code*: AS65W 7040.140-18M
459W

Dettagli *Details*

Area PA	30 x 15 m
Pali <i>Poles</i>	Fila da H=7 m
Proiettore <i>Floodlight</i>	14 (n°) x MX PRO 3
Potenza <i>Power</i> (W)	6426
Em (lx)	750
Emin/Em	0.87
Ra	80
MF	0.9

Proiettore *Floodlight*



Specifiche *Specifications*

Em (lx)	750
Emin/Em	0.7
Ra	80

Dettagli *Details*

Area PA	30 x 15 m
Pali <i>Poles</i>	Fila da H=7 m
Proiettore <i>Floodlight</i>	10 (n°) x MX PRO 3
Potenza <i>Power</i> (W)	4590
Em (lx)	529
Emin/Em	0.84
Ra	70
MF	0.9

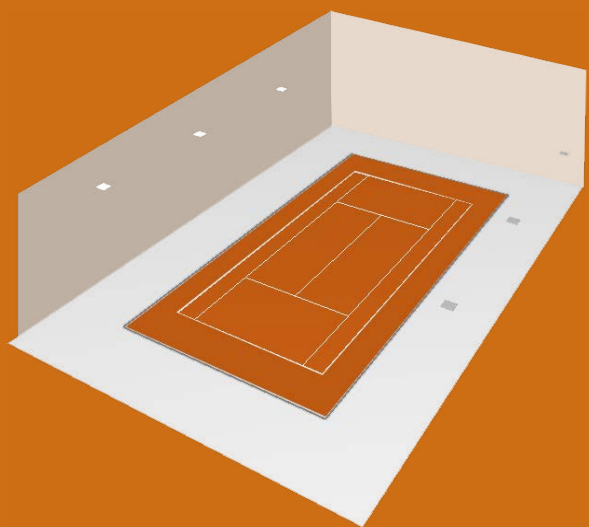
Proiettore *Floodlight*



Specifiche *Specifications*

Em (lx)	500
Emin/Em	0.7
Ra	60

TENNIS
CLASSE III *Class III*
EN12193



MX PRO 3 5P5
Ottiche Asimmetriche *Asymmetric Optics*
Codice *Code:* AS65W 7040.180-11M
365W

Dettagli *Details*

Area PA	30 x 15 m
Pali <i>Poles</i>	Fila da H=7 m
Proiettore <i>Floodlight</i>	6 (n°) x MX PRO 3
Potenza <i>Power (W)</i>	2190
Em (lx)	306
Emin/Em	0.63
Ra	70
MF	0.9

Specifiche *Specifications*

Em (lx)	300
Emin/Em	0.7
Ra	60

Proiettore *Floodlight*



EFFICIENT
SOLUTIONS
FOR
INDOOR
LIGHTING.

INDOOR

MULTISPORT

Normativa *Legislation*
EN12193

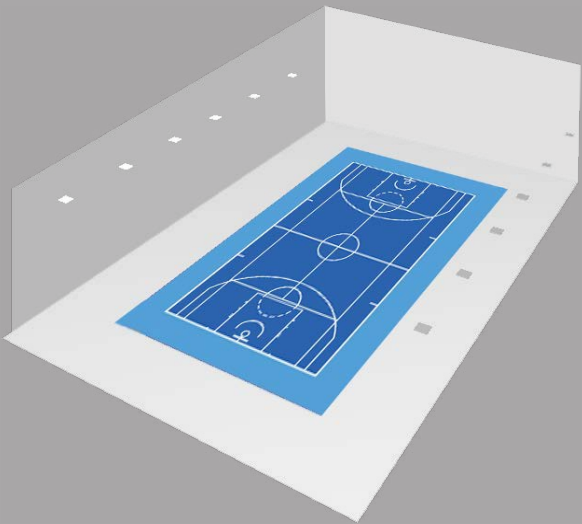
ILLUMINAMENTO ORIZZONTALE <i>HORIZONTAL ILLUMINATING</i>		CLASS I	CLASS II	CLASS III
	Em (lx)	750	500	200
	Emin/Em	0.7	0.7	0.5
Ra		80	60	60

MULTISPORT
LIGHTING
APPLICATION

INDOOR SPORT

CLASSE I Class I

EN12193

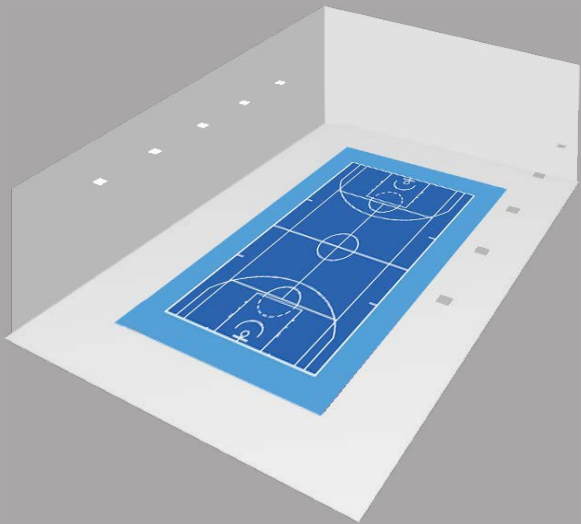


ALO 2 2T12
Ottiche Asimmetriche *Asymmetric Optics*
Codice *Code*: ASM 8057.450-44M
710W

INDOOR SPORT

CLASSE II Class II

EN12193

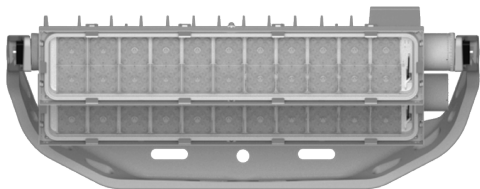


ALO 2 2T12
Ottiche Asimmetriche *Asymmetric Optics*
Codice *Code*: ASM 7057.350-44M
546W

Dettagli *Details*

Area PA	40 x 20 m
Pali <i>Poles</i>	Fila da H=7 m
Proiettore <i>Floodlight</i>	12 (n°) x ALO2
Potenza <i>Power</i> (W)	8520
Em (lx)	766
Emin/Em	0.77
Ra	70
MF	0.9

Proiettore *Floodlight*



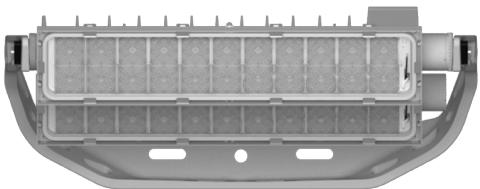
Specifiche *Specifications*

Em (lx)	750
Emin/Em	0.7
Ra	80

Dettagli *Details*

Area PA	40 x 20 m
Pali <i>Poles</i>	Fila da H=7 m
Proiettore <i>Floodlight</i>	10 (n°) x ALO2
Potenza <i>Power</i> (W)	5460
Em (lx)	538
Emin/Em	0.81
Ra	70
MF	0.9

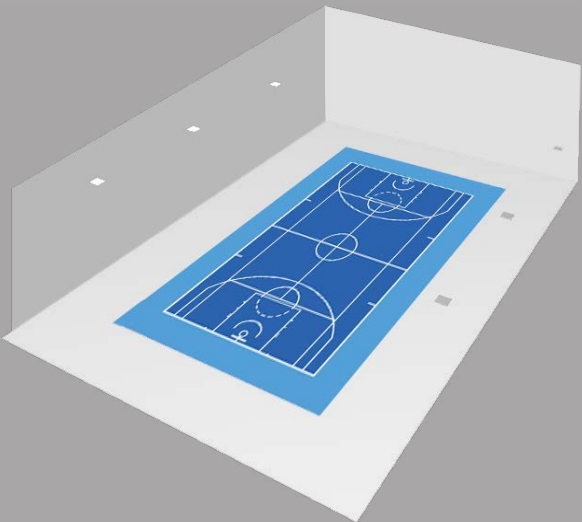
Proiettore *Floodlight*



Specifiche *Specifications*

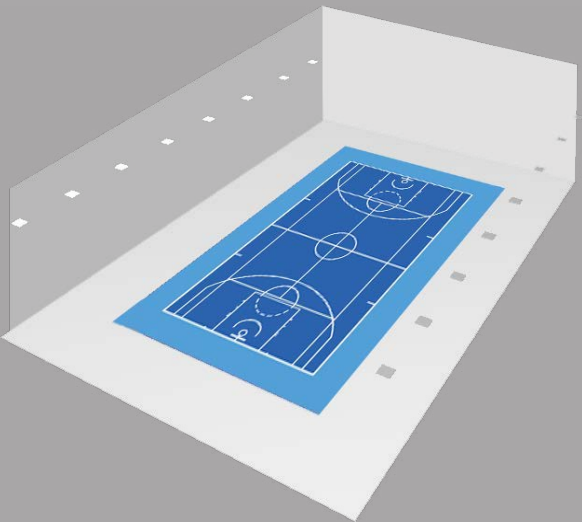
Em (lx)	500
Emin/Em	0.7
Ra	60

INDOOR SPORT
CLASSE III *Class III*
EN12193



ALO 1 2T12
Ottiche Asimmetriche *Asymmetric Optics*
Codice *Code*: BAC 7057.500-22M
387W

INDOOR SPORT
CLASSE I *Class I*
EN12193

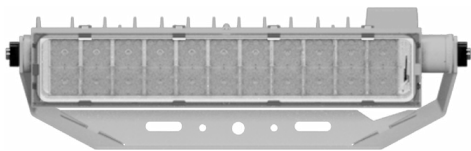


MX PRO 3 5P5
Ottiche Asimmetriche *Asymmetric Optics*
Codice *Code*: AS65M 8040.140-20M
510W

Dettagli *Details*

Area PA	40 x 20 m
Pali <i>Poles</i>	Fila da H=7 m
Proiettore <i>Floodlight</i>	6 (n° proiettori) x ALO1
Potenza <i>Power</i> (W)	2322
Em (lx)	207
Emin/Em	0.7
Ra	70
MF	0.9

Proiettore *Floodlight*



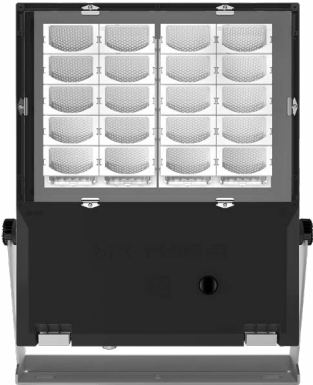
Specifiche *Specifications*

Em (lx)	200
Emin/Em	0.5
Ra	60

Dettagli *Details*

Area PA	40 x 20 m
Pali <i>Poles</i>	Fila da H=7 m
Proiettore <i>Floodlight</i>	16 (n°) x MX PRO 3
Potenza <i>Power</i> (W)	8160
Em (lx)	752
Emin/Em	0.83
Ra	70
MF	0.9

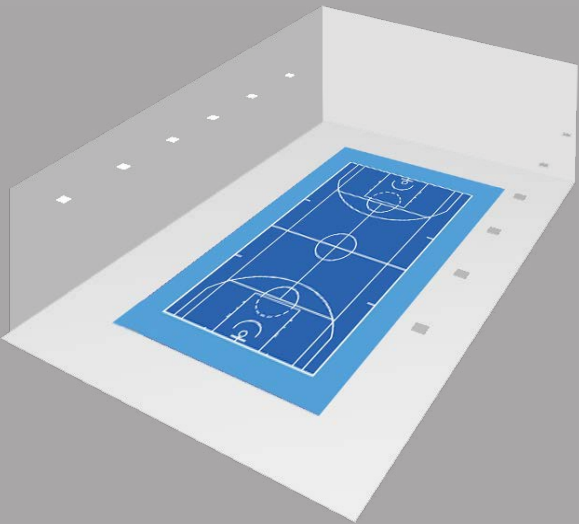
Proiettore *Floodlight*



Specifiche *Specifications*

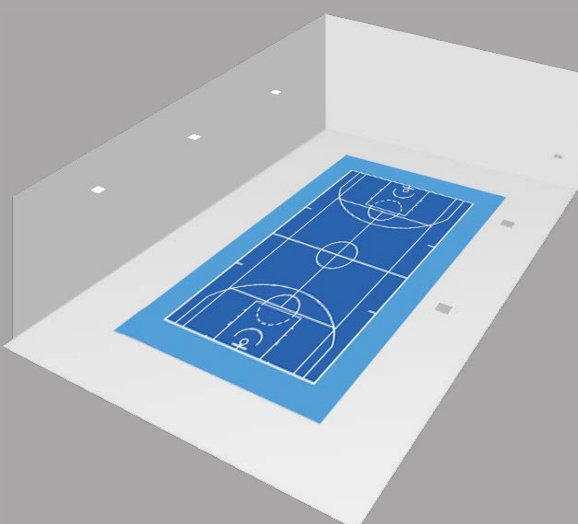
Em (lx)	750
Emin/Em	0.7
Ra	80

INDOOR SPORT
CLASSE II *Class II*
EN12193



MX PRO 3 5P5
Ottiche Asimmetriche *Asymmetric Optics*
Codice *Code*: AS65M 7040.140-17M
434W

INDOOR SPORT
CLASSE II *Class III*
EN12193



MX PRO 3 5P5
Ottiche Asimmetriche *Asymmetric Optics*
Codice *Code*: AS65W 7040.140-20M
510W

Dettagli *Details*

Area PA	40 x 20 m
Pali <i>Poles</i>	Fila da H=7 m
Proiettore	12 (n°) x MX PRO 3
Potenza <i>Power</i> (W)	5208
Em (lx)	510
Emin/Em	0.88
Ra	70
MF	0.9

Specifiche *Specifications*

Em (lx)	500
Emin/Em	0.7
Ra	60

Proiettore *Floodlight*



Dettagli *Details*

Area PA	40 x 20 m
Pali <i>Poles</i>	Fila da H=7 m
Proiettore <i>Floodlight</i>	6 (n°) x MX PRO 3
Potenza <i>Power</i> (W)	3060
Em (lx)	320
Emin/Em	0.7
Ra	70
MF	0.9

Specifiche *Specifications*

Em (lx)	200
Emin/Em	0.5
Ra	60

Proiettore *Floodlight*



EASY light

EASY Light ti consente di regolare il livello di illuminazione in base a scenari preimpostati e personalizzabili con un semplice gesto. Utilizzando gli appositi pulsanti, l'illuminazione può essere regolata in base a scenari predefiniti, ad esempio per la sessione di allenamento, per la partita o per altre esigenze particolari.

EASY Light allows you to adjust the lighting level according to pre-set and customizable scenarios with a simple gesture. Using the dedicated buttons, the lighting can be adjusted according to pre-defined scenarios, for example for the training session, for the match or for other particular needs.



EASY Light è un sistema assolutamente funzionale e facile da utilizzare.

EASY Light è un sistema Funzionale e facile da usare.



Gli apparecchi sono controllati via wireless dall'APP installata sul dispositivo, con funzioni complete e comandi in tempo reale.

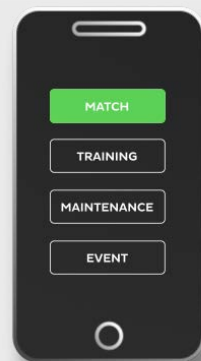
The devices are controlled wirelessly by the APP installed on the device, with complete functions and real-time control.



EASY Light è un sistema semplice da configurare e attivabile senza personale qualificato.

EASY Light is a system that is simple to configure and can be activated without the need for qualified personnel.

INCREDIBILMENTE SEMPLICE.
INCREDIBLY SIMPLE.



Gestibile tramite mobile direttamente in loco.

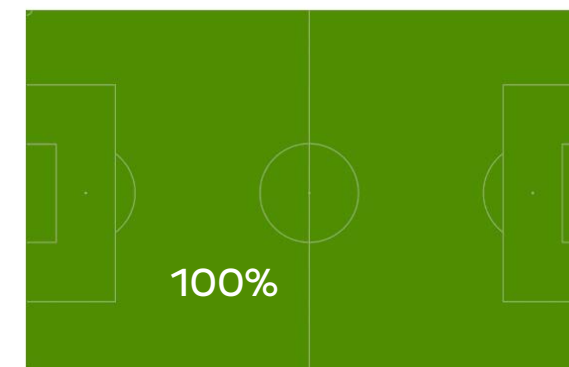
Manageable via mobile directly on site.



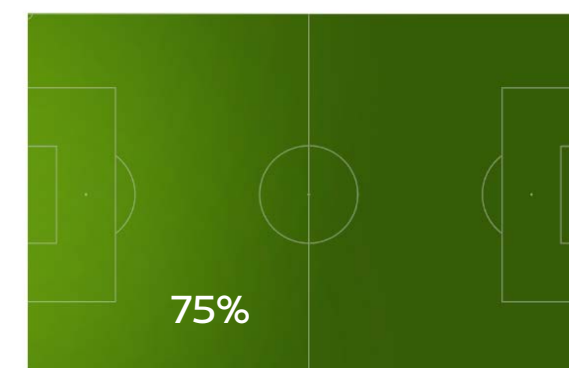
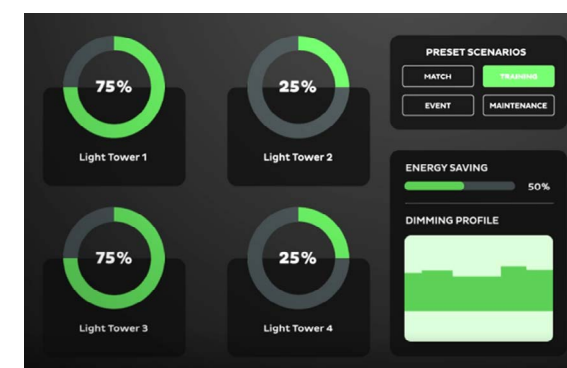
Gestibile tramite tablet direttamente in loco.

Manageable via tablet directly on site.

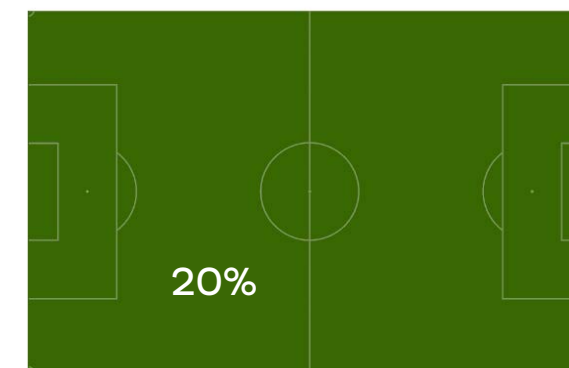
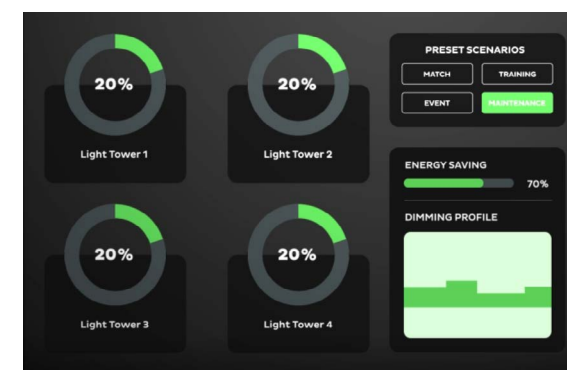
Partita *Match*



Allenamento *Training*



Manutenzione *Maintenance*





ART DIRECTION
COPYWRITING - EDITING

