



**Spo(r)t on!**

**Sports facilities optimally illuminated**

**installation-friendly – highly efficient – AREALO 2**

# AREALO 2 – Sports facilities in perfect light

Whether small pitches, sports fields or training grounds for football, hockey, tennis etc., with the powerful, energy-efficient and durable AREALO 2 floodlights you can always illuminate sports facilities to optimum effect - naturally in compliance with the requirements of DIN 12193.

## UNBEATABLE ADVANTAGES



### Simple, cost-effective mounting

- low total weight, low mast load
- quick electrical connection due to outlaying electrical connection box
- simple ECG replacement, no lifting platforms required (OV version)



### Highly economical

- high luminous efficacy up to 184 lm/W
- extremely long service life L90 > 100.000 h
- maximum energy cost savings through needs-based light management with LIMAS Air



### Environmentally friendly and future-proof

- GreenLine luminaire, outstanding sustainable design
- eco-friendly, no light emission into the upper half-space, ULOR=0
- Sustainable, replaceable components

Typ	Connected Load [W]	Luminous flux [lm]		Luminous efficacy [lm/W]	
		LF 740 <sup>1</sup>	LF 730 <sup>2</sup>	LF 740 <sup>1</sup>	LF 730 <sup>2</sup>
7950 14404SP OP RFLO	432	66,500	63.000	154	146
7950 14404SP OV *	432	66,500	63.000	154	146

ECG units for pole mounting	Description
EVG 7950 1 14404 OV	ECG unit for one luminaire 7950 14404 OV
EVG 7950 2 14404 OV	ECG unit for two luminaires 7950 14404 OV
EVG 7950 3 14404 OV	ECG unit for three luminaires 7950 14404 OV
EVG 7950 4 14404 OV	ECG unit for four luminaires 7950 14404 OV

\* without ballasts (OV), separate ECG required  
(Rounded values, technical developments reserved)

<sup>1</sup> Light colour 4,000K (neutral white)

<sup>2</sup> Light colour 3,000K (warm white)



More info:



AREALO 2



## Intelligent control options

Simply switching the spotlights of a sports facility on and off is neither efficient, nor cost-saving and environmentally friendly. Therefore, when converting to LED luminaires, fundamentally possible control functions should also be considered.

### DIMMING

The simplest way is to dim the floodlight system via DALI. Since the maximum illuminance is usually only required for match and competition operation, the light can be sensibly regulated by continuously dimming the luminaires or switching on preset lighting levels in training mode.

This is easily possible with the DIMD version of AREALO 2 and DALI cabling to the masts, and ensures high energy cost savings.

### LIMAS AIR

With RFLO luminaires and a light management controller (RFL LIMAS Air HUB TRI), your floodlight system becomes smart. Configuration and control are carried out using a free app via a smart device - individually per luminaire, in groups or per pole unit (accessories required). In conjunction with push-buttons, pre-programmed scenes can also be conveniently called up, e.g. competition mode, training or half-field lighting. Neither an internet connection nor a gateway is required for this. This efficient and demand-led control system reduces operating times and maximises energy cost savings.



# Planning examples of sports field lighting

The basis for planning is the DIN EN 12193 regulation. It defines clear standards for illuminance, uniformity, glare limitation and color rendering for different lighting classes.

## LIGHTING CLASSES

- 1

High-performance competitions • international and national competitions with high visual requirements • high-performance training
- 2

Intermediate level competitions • Regional competitions with medium visual requirements • Performance training
- 3

Simple competitions • local competitions • school sports • general leisure sports • general training

## REQUIREMENTS

lighting class	mean horizontal illuminance (Em)	uniformity (Uo)
1	≥ 500 lx	≥ 0.7
2	≥ 200 lx	≥ 0.6
3	≥ 75 lx	≥ 0.5

### Example I football field, lighting class 3, 6-pole system

#### Facility data

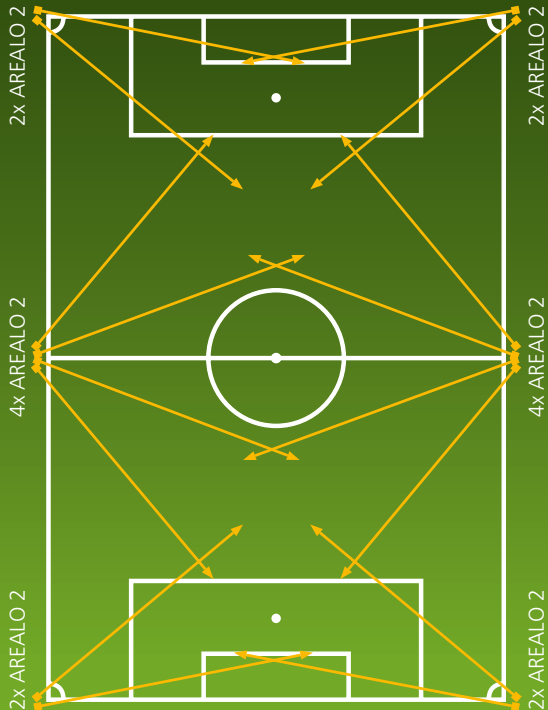
Field size according to FIFA	105 x 68 m
Light spot height	16 m
Mast distance to the playing field	3 m
Maintenance factor	0.90

#### Luminaires:

16 x AREALO 2 7950 14404SP OP RFLO  
16 x RFL LIMAS Air HUB TRI

#### Lighting requirements

Mean horizontal illuminance	≥ 75 lx
Uniformity	≥ 0.5



**Result:**

Mean horizontal illuminance:  
**Em = 82 lx**

Uniformity: **Uo = 0.62**

ULOR: **0 %**

Output: **6.9 kW**

### Example II football field, lighting class 3, 4-pole system

#### Facility data

Field size according to FIFA	105 x 68 m
Light spot height	16 m
Mast distance to the playing field	3 m
Maintenance factor	0.90

#### Luminaires:

16 x AREALO 2 7950 14404SP OP RFLO  
16 x RFL LIMAS Air HUB TRI

**Result:**

Mean horizontal illuminance:  
**Em = 83 lx**

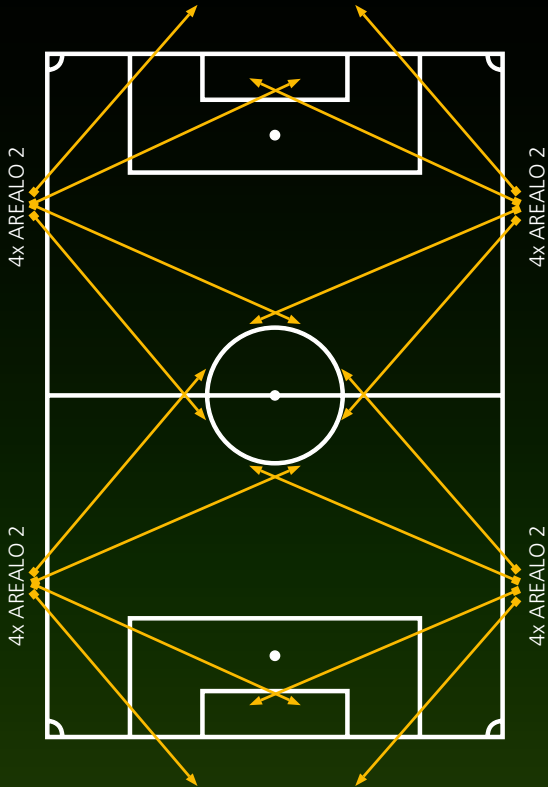
Uniformity: **Uo = 0.55**

ULOR: **0 %**

Output: **6.9 kW**

#### Lighting requirements

Mean horizontal illuminance	≥ 75 lx
Uniformity	≥ 0.5



### Example III football field, lighting class 2, 8-pole system

#### Facility data

Field size according to FIFA	105 x 68 m
Light spot height	18 m
Mast distance to the playing field	3 m
Maintenance factor	0.90

#### Luminaires:

40x AREALO 2 7950 14404SP OP RFLO  
40 x RFL LIMAS Air HUB TRI

**Result:**

Mean horizontal illuminance:  
**Em = 217 lx**

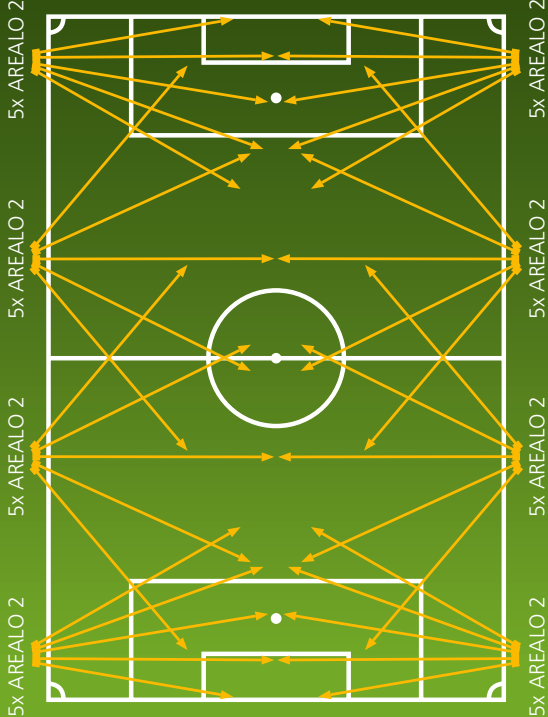
Uniformity: **Uo = 0.79**

ULOR: **0 %**

Output: **17.3 kW**

#### Lighting requirements

Mean horizontal illuminance	≥ 200 lx
Uniformity	≥ 0.6



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