

Smart Control

For Sports Lighting Solution

Innovative & Tailored
Lighting Solutions for **Success**
www.aokledlight.com

Brief Introduction of **AOK**



40+

R&D engineers team

200+

Patent certificates

50%+

Energy consumption reduction

100+

Countries clients served

20,000+

Projects successfully installed

Layout Globally to Serve Clients



Help Customers
for Our **Top** Mission

20000m²+
Production Base

Sophisticated
R&D Team

International
Utility Patents

Professional QC
Testing & Lab

Globally
Certificated

Oversea
Warehouses

International
Strategic Partners

Advance Lighting System Design

Multiple mounting options simplify installation and maintenance. Choose from integrated or split setups, with tool-free driver box maintenance. Easily adjust positions on the bracket or with a remote power box for convenient upkeep.

(Optional)
APPLICABLE TO **4K & HD TV LIVESTREAM**

TLCI>95

GR<30/40

DMX or DALI 2

Control Options

Please consult for details (in certain configurations), and requirements.

HEAT SINK

- Die-casting aluminum ADC12, high thermal conductivity
- Unique convective air cooling design
- Machined smooth surface for maximum heat transfer of the LEDs
- Maintains low LED junction temperature for high wattage operation

WATERPROOF RING

- High-temperature resistance materials
- Aging resistance, excellent sealing

TEMPERED GLASS

- Impact-resistant IK08
- High transparency

U-BRACKET

- Maintains alignment is up to 150 mph winds.
- Type-A/Type-C mount optional.

LED PANEL

- Seoul 5050/Seoul Z5M4 3535
- CREE/LUMILEDS optional
- Metal-core printed circuit board

LENS

- High-temperature resistance PC materials
- High transparency
- Multiple beam angles

SURFACE COVER

- Perfectly sealed to keep optics away from harmful environmental elements
- High-strength material ADC12

LIGHT VISOR OPTIONAL

- Visor with a reflective surface
- Dramatically reduces glare and spill, and maintain high output

ISF Series Stadium Light

Advance Lighting System Design

Plug & Play design and multiple mounting options turn every installation & maintenance job into child's play.

DMX or DALI 2
Control Options
Please consult for details (in certain configurations), and requirements.

Sealing Cap
For waterproof and module protection

Plug & Play Connection
Easy rotation to connect without tools and wires. Water and dust proof.


Flexible Adjustments

Child's Play Maintenance
Maintenance of the fixture module is simply by loosen the screws from the frame and swiftly replace it.

Excellent Heat Dissipation Performance

Wind Resistance Test Passed at 57m/s
Combining SUS304 stainless steel and die-cast composite materials (optional) with super corrosion and wind resistance (3G shock proof test). The scale can be adjusted to 5° each step, thus, the light beams can be adjusted with great precision and tailored to your needs.

FSC Series Flood Light



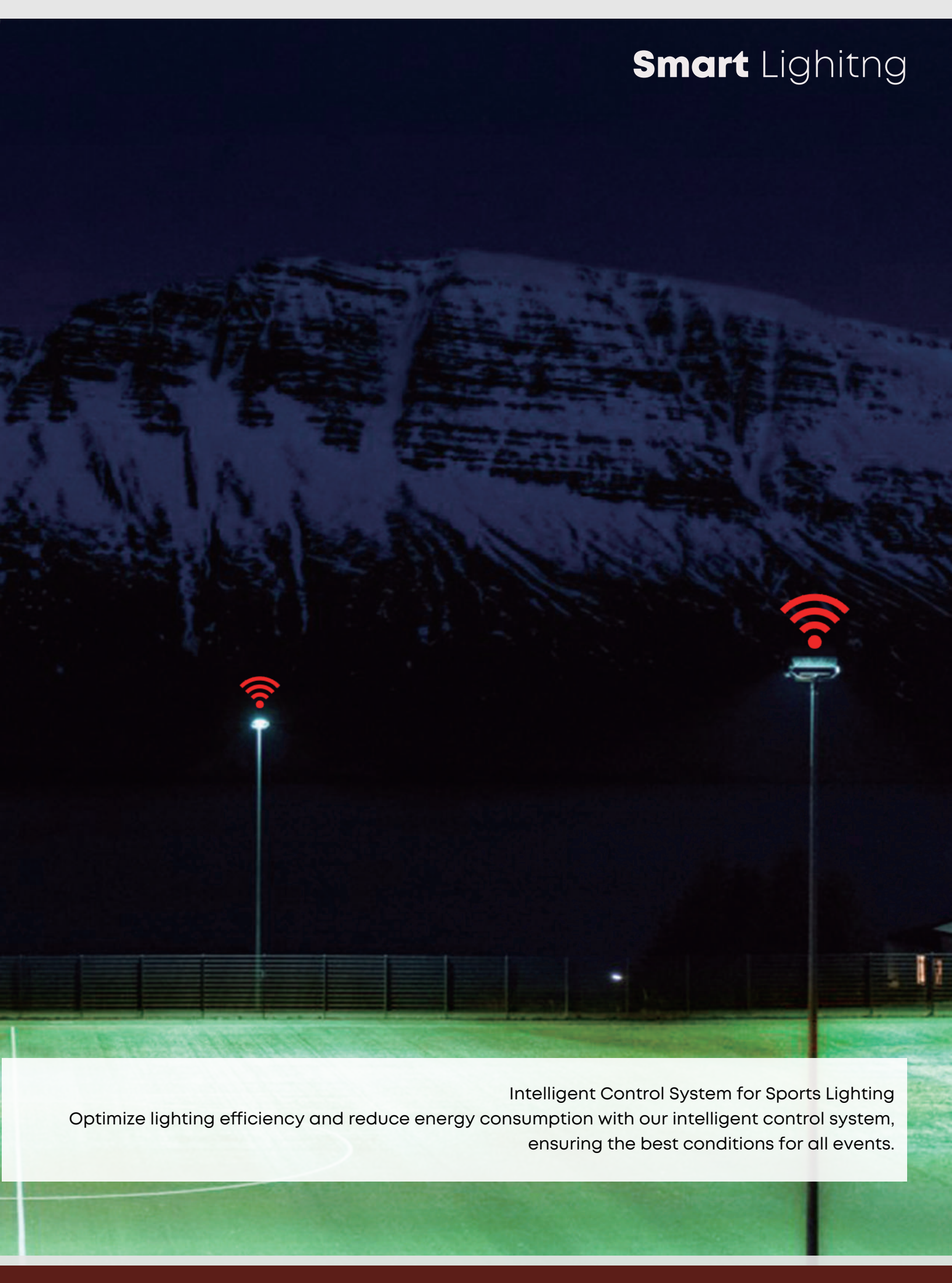
Control **of Light**

ULOR=0%

100% precise-0% light pollution (@0°)

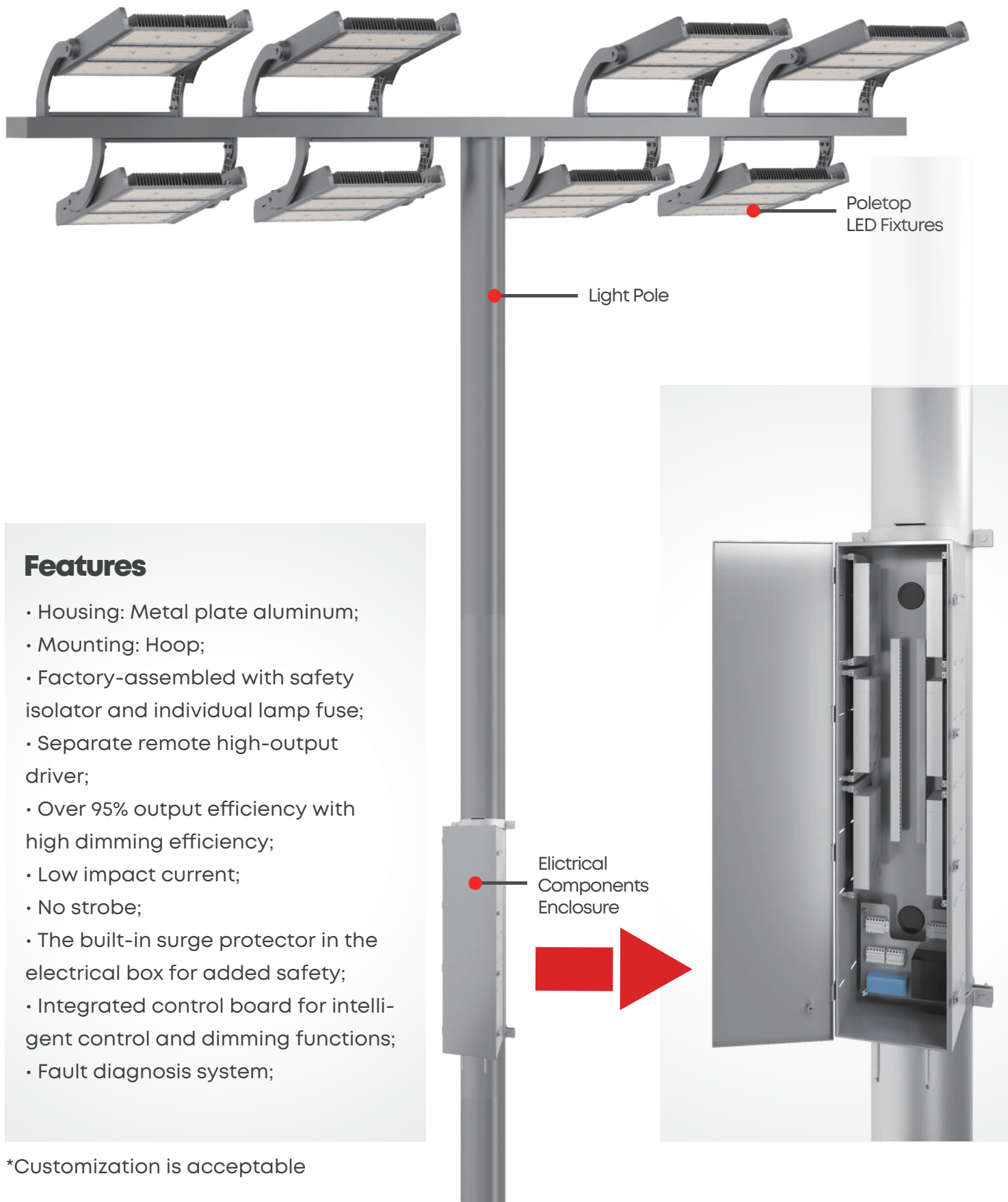
Thanks to its new asymmetric light distribution system, without any spill light or obtrusive light, the night sky remains dark. And nature and residents are undisturbed.

Smart Lighting



Intelligent Control System for Sports Lighting
Optimize lighting efficiency and reduce energy consumption with our intelligent control system,
ensuring the best conditions for all events.

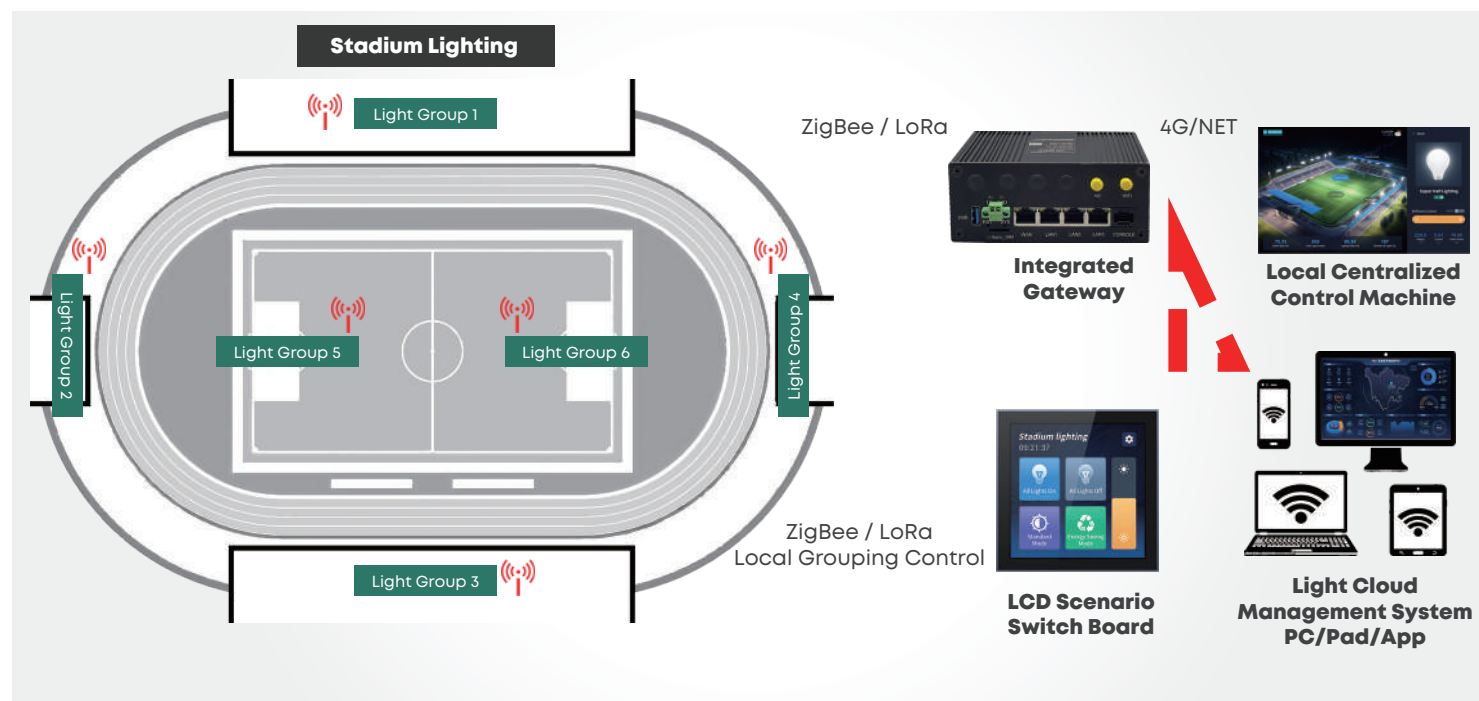
Lighting System with Electrical Components Enclosure



Smart Control Ready

For efficient management

Diagram of Typical Smart Lighting System



The stadium lighting system allows remote control of individual lights for switching on/off, brightness adjustment, and monitoring of parameters like voltage, current, power, and energy usage. It includes features for detecting voltage and current abnormalities with alarm alerts.

The LCD Panel Control allows for local wireless management with packet control and customizable scene mode settings. Its user interface can be tailored to specific needs.

The Control Terminal Unit enables local wireless management, allowing control of individual lamps, groups, and scenes, with the ability to view data for each lamp separately. It offers graphical representation and customizable user interface options.

Smart Lighting Cloud Operation and Maintenance Platform

The screenshot shows the platform's interface. On the left, a 3D stadium model is displayed with labels for 'North Area', 'East Area', 'Upper Half', 'Lower Half', 'South Area', and 'West Area'. Below the model, four key metrics are shown: Online Rate (75.33%), Total Light Control (245), Lighting Rate (80.54%), and Number Of Lights On (197). On the right, a control panel for 'Upper Half Lighting' includes a light bulb icon, a 'Brilliance Control' slider, and real-time data: Voltage (220.5V), Current (5.01A), and Active Power (70.00W).

Grouping & Configuration
Operating Control
Management

Light Switch, Dimming
Automatic and Multifunction
Operation Settings

Equipment Anomaly
Monitoring and Early
Warning Rules Setting

Statistical Analysis
of Multi-index Data
(Lamp Status, Energy Saving...)

Typical Lighting System Scheme

4-Mast System-Class II

Sport Field Information

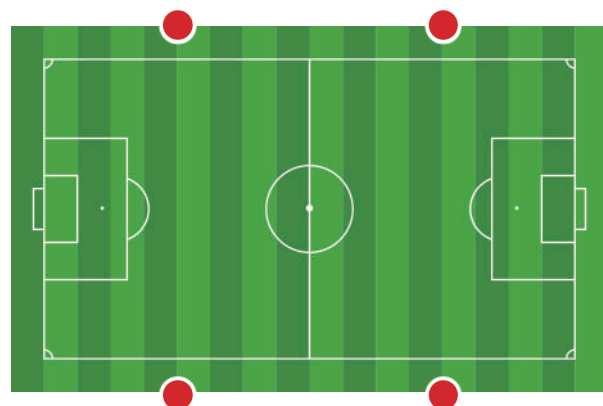
Playground size: 90*55m

CCT &CRI: 5000K, Ra>80



Product Mode: AOK-I200WFSC-NV-A5-00-5080-PG60D-P

4 masts	Lighting class II
Number of luminaires per mast	5PCS
Eav[lx]	348lx
Uniformity U0 g1	0.62
Total number of luminaires per field	20PCS
Total power	24022W



Device Configuration Based on Zigbee Control Scheme:

- The setup includes a single lamp controller node, a gateway, and a controller panel.
- The gateway network can support a maximum of 200-500 single lamp controller nodes.
- The maximum distance between the Zigbee gateway and a single lamp controller node is 600 m, while the maximum distance between the LoRaWAN gateway and a single lamp controller node is 1.5 km in open and unobstructed conditions.
- The gateway can transmit signals to the master controller via a 4G card, WiFi, or a wired network.

Controller Panel Scheme:

- Touch Gateway Controller: Capable of controlling 6 zone scene modes, including single zone control and dimming percentage brightness.
- LCD Controller Switch: Can control 4 modes for wireless communication and adjust dimming percentage brightness.

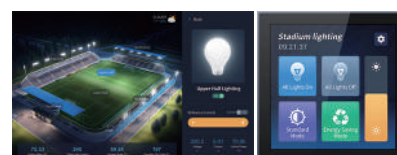


Master Control Mainframe + Gateway



Single Light Controller + Antenna

Support NEMA, Zhaga, Zigbee, LoRa, etc.



Settings & Control LCD Panel

Typical Lighting System Scheme

4-Mast System-Class I

Sport Field Information

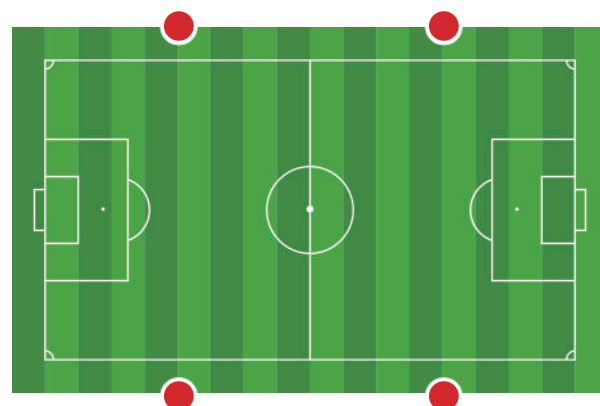
Playground size: 90*55m

CCT & CRI: 5000K, Ra>80



Product Mode: AOK-1200WISF-NV-S35-00-5080-2030D/30D

4 masts	Lighting Class I
Number of luminaires per mast	7PCS
Eav[lx]	549lx
Uniformity U0 g1	0.81
Total number of luminaires per field	28PCS
Total power	33252.3W



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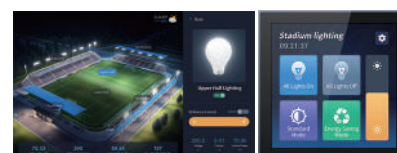


Master Control Mainframe + Gateway



Single Lamp Controller + Antenna

Support NEMA, Zhaga, Zigbee, LoRa, etc.



Settings & Control LCD Panel

Project Reference



Project Reference





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