

National Olympic Sports Center - Tennis Courts

Case Study

Previous System:
400 Watt Metal
Halide Light Fixtures

Solarone Vision System:

RT470FS-S 200W LED
Flood Lights



Customer Profile

The National Olympic Sports Center is situated in the middle of North Fourth Ring Road. It includes a peculiar natatorium named Yingdong, known as No. 1 natatorium in Asia, a comprehensive gymnasium with a silver-white roof and a tall tower body which is very similar in shape to Yingdong natatorium, a modern stadium, a football court, a tennis court, a hockey field, a softball ground, a baseball ground, a mini golf-course and a fishing pond, as well as China Martial arts.

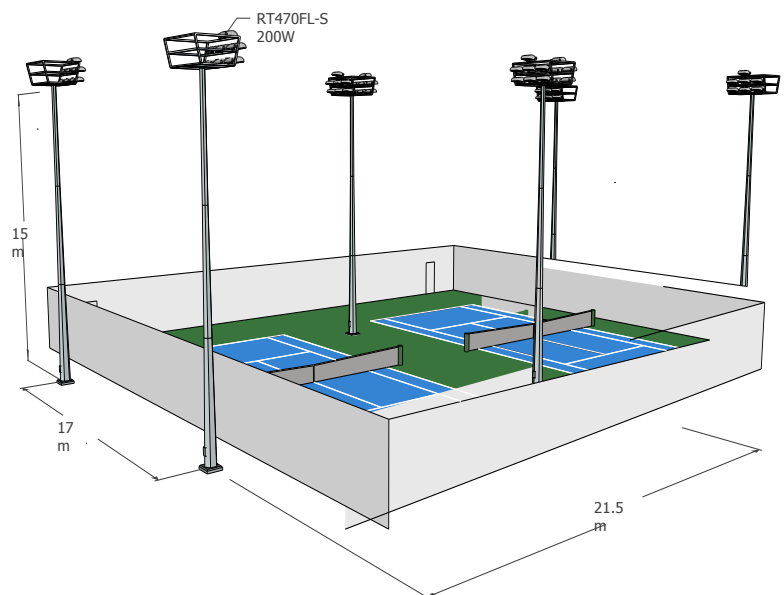
Scope of Work

Solarone was contacted to create a lighting design for the National Olympic Sports Centers Tennis Courts in Beijing. This project consisted of a one for one replacement of the existing 400 Watt Metal Halide Fixtures and re-purposing the existing poles.

In all sports, LED lighting provides the best stage for competitors to perform, and it's no different for tennis players. The tennis ball, regardless of its location and speed, should always be clearly visible. Creating good visibility for fast moving objects requires sufficient contrast to be created between the objects and their backgrounds, proper illumination levels, and even distribution of light across the playing surface (uniformity).

The Solution

An engineered photometric design was performed. We checked glare and light output. Then we provided exact aiming points for each fixture. Solarone Vision Smart 200 Watt RT470 Flood Light fixtures were easily mounted on the existing poles. Our LED lighting solutions deliver uniform light in the air and on the court much more efficiently than metal halide light and significantly reduce unwanted light spill and light pollution.



Enhance Athletes' Performance

The Results

After the installation the facility manager said "Let there be light!"

Where every hit counts, uniform, no-glare light does not effect the vision of the athletes while going at competing. Mledtech lunimaires produce a minimum of glare and spillover, and require no maintenance during outdoor winter and summer temperature extremes, through the extent of the manufacture warranty.

The new lighting system achieved an average of uniformity of 74 percent and a saved in energy costs by 51 percent. LEDs offer a low-cost entry point to provide high-quality light and make the venue more dynamic. Also, the long life of the LED carries a great saving in replacement parts and an almost total unconcern of the maintenance personnel.

Solarone Vision SmartRT470FS-S 200WFlood Light fixtures improved the National Olympic Sports Center Tennis playing experience with the greatest visual comfort for the Olympians. The advantage is clear. Solarone products produce the highest quality lighting in the industry backed by a ten year warranty.



Solarone approaches each project as a unique opportunity to exceed the customers', the players' and the observers' expectations in terms of improved lighting delivered, improved visual comfort and operational savings. Our process steps help streamline this effort. We will meet directly with financial decision makers to go over final proposal in detail. Solarone will work with the customer's contractor to provide them with detailed computer aiming points which can be set while on the ground.

